



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

November 18, 2019

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 1<sup>st</sup> to October 31<sup>st</sup> 2019 are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet 30 day TSS, 7 day TSS, 30 day BOD, 7 day BOD, TSS percent removal, BOD percent removal and a one day Dissolved Oxygen violation for the reporting period

Compromised solids handling equipment is contributing to our effluent exceedances. MSD is currently working with a 3rd party consultant to create a biosolids revitalization project that will overhaul our solids handling process. MFWQTC continues to employ Liquid Oxygen purchases in effort to assist in meeting permit requirements.

Additionally, during the entire month of October two of the four Primary Sedimentation Basins were out of service for mechanical repair. Oxygenation Battery A was out of service from October 11<sup>th</sup> through October 29<sup>th</sup>.

Should you have any questions, please contact me at (502) 540-6793.

Sincerely,

Alex E. Novak, P.E.  
Treatment Facilities Director

**DMR Copy of Record**

<b>Permit</b>			
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

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 10/01/19 to 10/31/19	DMR Due Date:	11/28/19
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.

<b>Principal Executive Officer</b>			
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			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	185	=	312	19 - mg/L	09/30 - Nine 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						=	317	=	393	19 - mg/L	09/30 - Nine 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						=	311	=	713	19 - mg/L	09/30 - Nine 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						=	370	=	633	19 - mg/L	09/30 - Nine 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						=	9.5	=	12.5	19 - mg/L	09/30 - Nine 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						=	13.8	=	16.4	19 - mg/L	09/30 - Nine 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	=	24.9	=	29	03 - MGD					09/30 - Nine 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: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-11-20 07:32 (Time Zone: -05:00)

**Report Last Signed By**  
 User: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-11-20 07:33 (Time Zone: -05:00)

DMR Copy of Record

<b>Permit</b>					
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:	001-1 MUNICIPAL DISCHARGE		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 10/01/19 to 10/31/19	DMR Due Date:	11/28/19	Status:	NetDMR Validated

**Considerations for Form Completion**  
 G - INFLUENTE - SECONDARY EFFLUENT1 - FINAL EFFLUENT - Parameter 74055 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

<b>Principal Executive Officer</b>					
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		
X 00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	1.7					19 - mg/L	1	01/01 - Daily	GR - GRAB		
					Permit Req.					>=	2 INST MIN				19 - mg/L	01/01 - Daily		GR - GRAB			
					Value NODI																
X 00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	0	--	Sample	=	82362	=	114312	26 - lb/d		=	142	=	201	19 - mg/L	2	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample	=	251197	=	255897	26 - lb/d		=	406	=	429	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	01/01 - Daily		CP - COMPOS			
					Value NODI																
00400	pH	1 - Effluent Gross	0	--	Sample					=	6.2			=	6.6	12 - SU	0	01/01 - Daily	GR - GRAB		
					Permit Req.						>=	6 MINIMUM		<=	9 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB		
					Value NODI																
X 00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	170224	=	272737	26 - lb/d		=	292	=	487	19 - mg/L	2	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	259996	=	293683	26 - lb/d		=	415	=	474	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	01/01 - Daily		CP - COMPOS			
					Value NODI																
00610	Nitrogen, ammonia total [as N]	E - Secondary/Biological Process Complete	0	--	Sample	=	6752	=	8216	26 - lb/d		=	12.2	=	15.7	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	9854	=	11301	26 - lb/d		=	16.4	=	18.6	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	01/01 - Daily		CP - COMPOS			
					Value NODI																
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	71.38	=	70.82	03 - MGD							0	99/99 - Continuous	CN - CONTIN		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD						99/99 - Continuous		CN - CONTIN			
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample									<	0.016	19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Permit Req.											<=		.019 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB
					Value NODI																
74055	Coliform, fecal general	1 - Effluent Gross	1	--	Sample							=	42	=	167	13 - #/100mL	0	01/01 - Daily	GR - GRAB		
					Permit Req.							<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL		01/01 - Daily	GR - GRAB		
					Value NODI																
X 81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	65					23 - %	1	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD		
					Value NODI																
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	30					23 - %	1	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD		
					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.

<b>Edit Check Errors</b>						
Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge

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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	Yes
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

**Comments**

**Attachments**

Name	Type	Size
MFWQTCoverletter102019.pdf	pdf	166674
DischargeReport_MorrisForman_October2019.pdf	pdf	104805
MFWQTCMOR102019.pdf	pdf	496285

**Report Last Saved By**

**Morris Forman WQTC MSD**

User: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-11-20 07:33 (Time Zone: -05:00)

**Report Last Signed By**

User: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-11-20 07:33 (Time Zone: -05:00)

Format: Month/Day/Year  
 Enter Start Date : 10/1/19

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF October-19  
 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				
																															Final Effluent	Final Effluent	raw	final
10/1/19	59.65	59.65	0.00	81	81	7.0	6.4	6.4	13.0	35.0	450	880	4.3	403	436	34	24.8	23.2	19.8	1.5	6.5	5.6	369	55	1.00	0.22	3.67	0.016	40	19.1	0.0			
10/2/19	60.93	60.93	0.00	82	82	6.8	6.4	6.4	16.0	26.0	460	620	4.1	562	450	249	24.8	22.6	19.1	0.5	6.7	5.7	379	56	1.06	0.20	3.53	0.016	520	21.0	0.0			
10/3/19	59.29	59.29	0.00	82	82	7.0	6.4	6.4	14.0	18.0	430	520	4.4	414	389	212	24.6	25.7	21.7	0.7	13.9	11.8	386	29	1.08	0.15	3.87	0.016	42	21.3	0.0			
10/4/19	56.06	56.06	0.00	79	79	7.1	6.4	6.4	17.0	12.5	460	440	4.4	506	414	257	24.5	21.0	17.9	1.1	14.1	12.1	369	26	0.91	0.16	3.54	0.016	45	14.7	0.0			
10/5/19	52.25	52.25	0.00	77	77	7.1	6.5	6.5	15.0	6.0	432	292	4.9	604	499	202	24.4	21.2	18.2	1.1	10.1	8.5	382	37	1.08	0.20	3.10	0.016	4	13.0	0.0			
10/6/19	83.09	82.50	0.59	77	77	7.1	6.5	6.5	20.5	30.0	580	713	4.9	304	393	312	24.3	21.5	18.5	2.0	6.0	5.2	370	60	1.08	0.27	4.92	0.016	45	11.3	0.0			
10/7/19	110.31	110.31	0.00	70	70	7.2	6.3	6.3	16.5	6.0	456	304	4.5	209	217	157	24.0	19.6	16.8	16.0	3.1	2.6	173	56	1.08	0.20	6.04	0.016	43	4.6	0.0			
10/8/19	87.80	87.80	0.00	72	72	7.0	6.4	6.4	14.5	0.5	456	78	5.2	340	260	46	23.8	21.8	18.6	4.8	4.0	3.5	204	51	1.08	0.17	3.71	0.016	780	4.8	0.0			
10/9/19	74.87	74.87	0.00	71	71	7.0	6.3	6.3	17.5	0.8	452	111	4.9	511	415	68	23.7	20.5	17.3	1.6	10.2	8.5	256	25	1.09	0.14	3.99	0.016	34	8.4	0.0			
10/10/19	47.22	47.22	0.00	75	75	6.8	6.3	6.3	20.0	3.5	572	280	5.1	525	394	207	23.8	23.7	19.9	0.7	7.8	6.6	307	39	0.49	0.23	6.74	0.016	10900	14.4	0.0			
10/11/19	92.25	76.91	15.34	75	75	7.0	6.6	6.6	17.0	14.0	592	500	6.0	513	327	253	23.6	17.0	14.2	4.3	3.8	3.2	182	47	0.75	0.20	5.63	0.016	165	17.3	0.0			
10/12/19	88.79	76.88	11.91	67	67	6.8	6.4	6.4	13.0	4.0	380	204	4.4	352	269	150	23.5	24.7	20.5	3.8	7.7	6.5	158	20	1.08	0.14	3.19	0.016	1100	7.7	0.0			
10/13/19	66.40	66.40	0.00	71	71	7.1	6.2	6.2	21.0	6.5	376	288	4.0	323	377	182	23.3	22.5	18.9	3.2	4.2	3.6	202	48	1.08	0.14	2.86	0.016	17	7.6	0.0			
10/14/19	65.63	65.63	0.00	64	64	6.8	6.5	6.5	15.1	16.2	492	540	3.6	333	333	276	23.4	20.2	16.7	1.9	4.9	4.2	200	40	1.06	0.17	3.90	0.016	4	13.7	0.0			
10/15/19	66.75	66.75	0.00	71	71	6.9	6.4	6.4	19.5	12.0	500	440	3.4	344	308	226	23.2	21.8	18.5	2.6	5.0	4.2	203	41	1.08	0.11	3.31	0.016	34	14.9	0.0			
10/16/19	125.45	90.20	35.25	68	68	7.0	6.3	6.3	12.0	14.0	373	507	1.7	180	188	268	23.1	24.4	20.7	8.2	3.4	3.0	162	47	1.08	0.16	5.63	0.016	1000	9.7	0.0			
10/17/19	73.46	73.46	0.00	68	68	7.1	6.3	6.3	14.5	1.3	348	130	4.5	379	321	94	23.0	24.7	21.1	6.5	5.0	4.2	155	33	1.08	0.19	3.58	0.016	45	9.1	0.0			
10/18/19	66.45	66.45	0.00	67	67	7.0	6.4	6.4	14.0	2.3	365	188	4.2	622	497	134	23.0	27.0	22.8	2.6	4.1	3.6	168	41	1.04	0.21	4.16	0.016	73	10.8	0.0			
10/19/19	62.32	62.32	0.00	70	70	7.0	6.3	6.3	15.0	2.0	405	188	5.4	578	468	138	23.1	28.4	23.9	2.6	7.9	6.7	175	22	1.08	0.23	4.77	0.016	4	10.1	0.0			
10/20/19	58.73	58.73	0.00	74	74	7.0	6.4	6.4	12.5	2.5	344	176	5.6	337	353	121	23.1	24.9	21.3	4.2	7.3	6.3	202	27	1.04	0.16	3.77	0.016	4	6.3	0.0			
10/21/19	66.03	66.03	0.00	71	71	7.2	6.4	6.4	19.0	1.8	416	156	4.3	471	500	141	23.5	25.0	21.3	4.7	4.7	4.0	197	42	1.08	0.18	3.66	0.016	4	12.8	0.0			
10/22/19	63.94	63.94	0.00	67	67	7.1	6.4	6.4	21.5	2.7	512	176	5.3	51	39	157	23.4	23.7	20.3	4.5	4.2	3.6	190	45	1.08	0.23	3.96	0.016	34	19.7	0.0			
10/23/19	56.39	56.39	0.00	71	71	6.8	6.4	6.4	16.0	1.5	404	123	4.1	412	381	86	23.4	23.6	20.3	4.4	4.2	3.8	212	50	1.08	0.17	3.69	0.016	30	18.0	0.0			
10/24/19	52.90	52.90	0.00	72	72	6.8	6.4	6.4	19.5	1.0	552	143	5.4	523	422	73	23.5	24.7	21.4	2.6	12.2	10.4	228	22	1.08	0.17	3.63	0.016	4	19.0	0.0			
10/25/19	60.41	60.41	0.00	70	70	7.0	6.3	6.3	19.0	0.5	428	93	5.0	561	478	149	23.4	26.2	22.8	3.4	5.4	4.8	253	46	1.08	0.19	3.97	0.016	39	21.4	0.0			
10/26/19	136.73	85.38	51.35	70	70	7.1	6.4	6.4	12.5	9.0	264	364	3.9	295	373	235	23.3	23.4	20.3	11.5	3.8	3.4	202	53	1.08	0.17	8.74	0.016	44	10.5	0.0			
10/27/19	121.20	91.23	29.97	68	68	7.1	6.5	6.5	7.5	1.5	212	96	5.3	278	158	79	23.6	23.8	20.5	19.5	2.8	2.4	138	50	1.08	0.13	6.57	0.016	4	3.7	0.0			
10/28/19	90.64	85.06	5.58	67	67	7.0	6.5	6.5	11.0	0.5	256	51	4.9	530	354	116	23.4	23.0	20.0	6.2	7.4	6.5	152	21	1.08	0.13	4.05	0.016	2600	7.5	0.0			
10/29/19	75.61	75.61	0.00	70	70	7.0	6.4	6.4	12.5	0.3	340	54	4.2	458	384	64	23.5	22.6	19.6	2.1	7.8	6.8	205	26	1.08	0.15	3.35	0.016	4	12.1	0.0			
10/30/19	107.52	78.64	28.88	69	69	7.0	6.3	6.3	12.5	4.0	348	204	4.3	412	632	128	23.0	17.8	15.4	2.1	7.0	6.0	200	34	1.08	0.21	5.72	0.016	4	12.8	0.0			
10/31/19	148.13	102.62	45.51	63	63	6.9	6.4	6.4	9.2	2.1	210	156	4.0	251	162	121	22.3	19.8	16.8	12.3	6.1	5.1	192	33	1.08	0.21	6.72	0.016	17	5.2	0.0			
Sum	2437.2	2212.8	224.4														731.3																0.0	
Average	78.6	71.4	24.9			72			72								23.6																	

SEWER CONNECTIONS

148053 TIMES 4 =

592212 SEWER POPULATION

IND. WASTER POPULATION EQ

CUSTOMERS 387

FLOW 124225

BOD 924453

TSS 675639

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Oct-19

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	75.23	0.00	32.65	12.81
Tanks in Service	2.00	0.0	7.9	4.0
Surface Area (Ft.2)	77000.00	30617.31	68077.05	34500.04
Volume (MG)	8.33	3.14	6.97	3.53
Weir Length (Ft.)	2860.00	1268.94	2821.46	1429.86
Avg. Weir Overflow (GPD/Ft)	26302.75	0.00	11572.26	8960.76
Avg. Settling Rate (GPD/Ft2)	976.96	0.00	626.51	476.71
Avg. Detention Time	2.66	0.00	5.13	6.62

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	0.00	42.65	16.45
Avg. Detention Time (Hours)	0.00	3.09	3.93

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	-7.77

Remarks: BY-PASS REPORTS (See Attached)

Report Selections: Period: 10/01/2019 00:00 thru 10/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	00595	11603 SHELBYVILLE RD		MIDDLETOWN BRANCH	CATCH BASIN

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	3172279		10/28/2019	BIVIN	CALLOWAY	REPAIRED - ISSUE RESOLVED	10/28/2019	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE-WATER S	10/29/19 04:00 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	1,440 GAL
Cause:	THERE WAS POSSIBLE DAMAGE BY OTHER UTILITY.
Clean Up:	WORK ORDER 3172287.
Control Zone:	MSD PLACED ONE DISCHARGE SIGN AT THE CURB.
Impact:	1 GPM DISCHARGING FROM AREA IN STREET TO BG21228 BASIN WHERE FIBER OPTIC WAS PUSHED. TVED MAIN AND DISCOVERED DAMAGES THIS IS ON GOING .
Repair:	REFERRED FOR MAIN SEWER REPAIR.
Public Notification:	NOTIFICATION ON SITE AND DISCHARGE SIGN.

**Notifications:**

10/29/19 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
10/29/19 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 10/01/2019 00:00 thru 10/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	08935-SM	1001 BRECKENRIDGE LN		MIDDLE FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3172781		10/31/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	11/29/2001	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	10/31/19 12:14 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	2,727 GAL
Cause:	LACK OF SYSTEM CAPACITY: HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM (CREEK OR RIVER).
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

11/1/19 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
11/1/19 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



Report Selections: Period: 10/01/2019 00:00 thru 10/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	28453	3402 CHARLANE PKY		CHENOWETH RUN	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3172793		10/31/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	10/28/2015	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	10/31/19 12:45 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	525 GAL
Cause:	LACK OF SYSTEM CAPACITY:HEAVY RAIN.
Clean Up:	CLEAN UP NOT REQUIRED, NO VISABLE SIGNS OF DEBRIS ON OR AROUND MANHOLE.
Control Zone:	BARRICADE PLACE AROUND DISCHARGE SITE.
Impact:	SMALL AMOUNT OF WATER DISCHARGING FROM PICKHOLE. NO VISIBLE SOLIDS.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGN & PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

11/1/19 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 10/01/2019 00:00 thru 10/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	IS021A-SI	1201 OLD CANNONS LN		MIDDLE FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3172790		10/31/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	10/31/19 02:30 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	600,000 GAL
Cause:	LACK OF SYSTEM CAPACITY: HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED, MANHOLE DISCHARGES DIRECTLY TO CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED THE MANHOLE DISCHARGES DIRECTLY TO STREAM (CREEK OR RIVER).
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

11/1/19 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
11/1/19 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Total Facilities Printed: 4

Total Work Orders Printed: 4