



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

September 19, 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 August 1st to August 31st, 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 the exceedances. MFWQTC continues to employ additional solids processing methods and additional Liquid Oxygen purchases in an effort to meet permit requirements.

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

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 08/01/19 to 08/31/19	DMR Due Date: 09/28/19	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			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	123	=	212	19 - mg/L	08/30 - Eight Every 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						=	241	=	296	19 - mg/L	08/30 - Eight Every 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						=	253	=	436	19 - mg/L	08/30 - Eight Every 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						=	244	=	452	19 - mg/L	08/30 - Eight Every 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						=	11	=	15	19 - mg/L	08/30 - Eight Every 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						=	15.9	=	22.3	19 - mg/L	08/30 - Eight Every 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	=	14.5	=	16.8	03 - MGD					08/30 - Eight Every 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: 2019-09-26 06:41 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2019-09-26 06:43 (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:	001-1 MUNICIPAL DISCHARGE		

Report Dates & Status					
Monitoring Period:	From 08/01/19 to 08/31/19	DMR Due Date:	09/28/19	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.

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	
X 00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	1.9					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	=	48801	=	58231	26 - lb/d		=	76	=	95	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	=	242424	=	241868	26 - lb/d		=	394	=	426	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					=	6.1			=	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	=	101979	=	124601	26 - lb/d		=	157	=	199	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	=	251538	=	276398	26 - lb/d		=	392	=	458	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	=	7738	=	8841	26 - lb/d		=	12.7	=	15.6	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	=	9443	=	9944	26 - lb/d		=	15.1	=	17.5	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	=	74.59	=	93.83	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							=	40	=	131	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					=	81					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					=	60					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.

Edit Check Errors						
Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge

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
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
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
MFWQTC082019MOR.pdf	pdf	88325
MFWQTCoverletter082019.pdf	pdf	25536
August2019_OverflowReport_MorrisForeman.pdf	pdf	101160

Report Last Saved By

Morris Forman WQTC MSD

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2019-09-26 06:43 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2019-09-26 06:43 (Time Zone: -04:00)

Format: Month/Day/Year

Enter Start Date : 8/1/19

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF August-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
8/1/19	62.50	62.50	0.00	80	80	6.9	6.3	10.0	1.8	372	39	5.2	477	369	36	27.2	16.7	12.4	0.6	2.9	2.2	230	23	1.08	0.22	2.52	0.016	114	12.0	0.0	
8/2/19	67.60	67.60	0.00	80	80	7.1	6.5	11.5	0.1	308	94	4.3	387	282	58	20.0	15.7	11.4	0.9	2.7	1.9	220	49	1.08	0.24	3.75	0.016	28	17.3	0.0	
8/3/19	62.09	62.09	0.00	77	77	6.9	6.4	9.5	0.3	372	99	5.5	418	385	48	20.1	11.3	8.5	3.9	3.6	2.6	243	137	1.08	0.16	3.26	0.016	137	11.3	0.0	
8/4/19	60.08	60.08	0.00	79	79	7.1	6.3	9.5	0.1	347	153	6.7	438	264	67	20.1	14.5	10.6	3.1	2.6	2.0	243	54	1.08	0.13	2.85	0.016	214	9.1	0.0	
8/5/19	64.29	64.29	0.00	79	79	7.0	6.3	14.0	0.1	360	138	5.0	348	341	66	20.0	13.3	9.5	2.7	6.5	4.7	242	50	1.08	0.24	2.96	0.016	236	12.8	0.0	
8/6/19	68.59	68.59	0.00	80	80	7.0	6.4	10.0	0.1	440	284	4.8	450	341	125	21.4	12.9	9.5	1.1	7.4	5.4	232	45	1.08	0.29	4.01	0.016	14	15.8	0.0	
8/7/19	99.06	82.40	16.66	79	79	7.1	6.4	15.1	0.2	496	380	4.4	334	285	212	24.1	16.1	11.4	1.4	4.0	2.9	197	38	1.08	0.21	7.69	0.016	9	12.1	0.0	
8/8/19	71.51	71.51	0.00	79	79	7.0	6.3	15.0	0.1	464	102	5.1	439	265	50	24.5	15.0	10.8	1.6	3.4	2.5	402	48	0.75	0.27	4.36	0.016	127	9.0	0.0	
8/9/19	65.04	65.04	0.00	80	80	6.9	6.3	12.0	0.2	440	130	4.6	465	336	68	24.2	16.5	12.0	1.4	3.0	2.2	200	17	1.10	0.25	3.63	0.016	460	12.6	0.0	
8/10/19	61.30	61.30	0.00	80	80	7.0	6.3	13.5	0.2	392	76	4.2	449	352	49	24.2	17.5	12.7	1.7	3.0	2.2	464	58	1.08	0.15	3.47	0.016	20	12.2	0.0	
8/11/19	61.26	61.26	0.00	80	80	6.9	6.3	14.2	0.1	440	135	4.8	368	281	99	24.1	17.7	12.9	2.8	3.2	2.3	472	50	1.08	0.18	3.10	0.016	7	8.9	0.0	
8/12/19	66.19	66.19	0.00	79	79	7.1	6.3	11.0	0.1	436	102	5.5	407	327	67	23.9	14.1	10.4	3.5	3.6	2.7	422	49	1.08	0.23	3.60	0.016	17	15.1	0.0	
8/13/19	106.86	93.43	13.43	82	82	7.1	6.3	10.0	0.2	468	436	4.9	283	296	196	24.0	19.2	14.2	3.6	4.3	3.1	258	45	1.08	0.22	6.03	0.016	160	14.3	0.0	
8/14/19	70.81	70.81	0.00	81	81	7.0	6.4	14.0	0.2	370	108	5.4	440	217	43	23.6	19.9	14.8	6.7	5.5	4.1	284	60	1.09	0.22	3.32	0.016	4	11.7	0.0	
8/15/19	66.81	66.81	0.00	79	79	7.0	6.3	25.0	0.7	468	192	4.6	431	470	111	23.5	18.8	13.7	1.5	8.8	6.4	360	33	1.08	0.18	3.64	0.016	20	15.7	0.0	
8/16/19	68.10	68.10	0.00	80	80	7.1	6.5	13.0	2.5	420	328	6.6	582	357	178	23.5	17.9	13.2	0.7	8.9	6.6	312	54	1.08	0.20	3.50	0.016	24	18.0	0.0	
8/17/19	65.35	65.35	0.00	82	82	7.1	6.3	10.0	6.0	423	80	4.7	456	324	49	23.4	21.1	15.6	1.5	3.5	2.7	314	54	1.08	0.22	3.12	0.016	4	13.4	0.0	
8/18/19	64.27	64.27	0.00	82	82	7.0	6.3	11.0	0.1	376	118	6.2	347	320	58	23.3	20.7	15.1	2.2	7.6	5.6	346	63	1.09	0.27	3.39	0.016	4	9.1	0.0	
8/19/19	77.86	75.75	2.11	80	80	7.0	6.5	12.0	1.0	560	300	3.2	334	292	137	23.4	21.8	16.1	2.1	7.8	5.8	262	53	1.08	0.26	4.59	0.016	4	15.0	0.0	
8/20/19	68.58	68.58	0.00	83	83	7.0	6.3	11.0	0.9	484	268	3.5	400	434	149	23.4	21.0	15.7	0.7	5.6	4.2	362	62	1.02	0.15	4.17	0.016	47	18.5	0.0	
8/21/19	66.91	66.91	0.00	82	82	6.8	6.3	16.0	4.5	472	320	4.9	434	397	155	23.3	23.1	17.3	0.8	8.9	6.7	310	55	1.07	0.22	4.32	0.016	59	16.6	0.0	
8/22/19	113.47	96.79	16.68	80	80	6.8	6.4	13.0	0.6	408	380	1.9	252	245	140	23.2	23.9	19.7	3.0	4.8	4.0	238	48	1.07	0.2	6.83	0.016	25	12.0	0.0	
8/23/19	92.45	90.45	2.00	79	79	7.0	6.2	13.5	0.3	360	90	5.4	489	343	96	23.1	20.9	15.8	2.2	8.3	6.3	268	59	1.08	0.24	5.01	0.016	400	9.2	0.0	
8/24/19	60.25	60.25	0.00	76	76	7.0	6.1	12.0	4.0	368	57	5.0	347	345	34	23.0	23.1	17.5	6.1	5.6	4.3	320	60	1.09	0.19	2.61	0.016	440	3.7	0.0	
8/25/19	64.89	64.89	0.00	79	79	7.2	6.3	18.0	1.3	308	140	4.6	229	306	71	23.1	23.6	17.6	6.8	8.8	6.7	363	62	1.08	0.19	3.36	0.016	59	7.0	0.0	
8/26/19	165.50	114.39	51.11	77	77	6.8	6.4	12.0	12.0	296	280	4.6	162	158	108	23.1	23.9	17.4	8.5	8.6	6.8	340	52	1.08	0.20	9.81	0.016	20	9.0	0.0	
8/27/19	142.72	128.50	14.22	78	78	7.0	6.4	12.0	0.2	237	126	5.5	146	107	75	23.1	24.0	18.5	14.6	10.9	8.4	170	31	1.02	0.20	7.03	0.016	3400	6.9	0.0	
8/28/19	101.63	101.52	0.11	76	76	7.1	6.4	19.0	0.2	270	32	5.3	195	199	19	23.1	22.0	16.8	12.8	5.5	4.2	182	31	1.08	0.16	4.40	0.016	37	9.8	0.0	
8/29/19	79.28	79.28	0.00	76	76	7.1	6.3	10.5	8.5	352	30	4.8	321	345	50	22.9	22.3	17.3	6.0	4.0	3.1	296	58	1.08	0.24	3.54	0.016	4	13.3	0.0	
8/30/19	76.06	76.06	0.00	78	78	7.0	6.5	13.0	0.2	313	110	4.5	980	516	37	23.6	21.9	16.9	1.4	8.5	6.5	314	54	1.09	0.21	3.71	0.016	20	18.3	0.0	
8/31/19	67.33	67.33	0.00	79	79	7.1	6.6	11.0	0.5	340	98	4.8	393	314	66	23.5	22.5	18.6	0.8	5.7	4.7	296	51	1.08	0.13	3.80	0.016	50	13.4	0.0	
Sum	2428.6	2312.3	116.3													716.9								33.051	6.4					0.0	
Average	78.3	74.6	14.5	79.5	79.5	7.0	6.4	12.9	1.5	392.3	168.5	4.9	393.6	316.5	87.6	23.1	19.1	14.3	3.4	5.7	4.3	295.5	51.7	1.1	0.2	4.2	0.0	40.2	12.4		

SEWER CONNECTIONS 148008 TIMES 4 = 592032 SEWER POPULATION IND. WASTER POPULATION EQ
 CUSTOMERS 385
 FLOW 158461
 BOD 568411
 TSS 474283

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Aug-19

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	78.80	23.34	24.52	6.06
Tanks in Service	4.00	8.0	7.0	4.0
Surface Area (Ft.2)	77000.00	69096.85	61743.38	26346.87
Volume (MG)	8.33	7.08	6.32	2.70
Weir Length (Ft.)	2860.00	2863.72	2558.96	1091.95
Avg. Weir Overflow (GPD/Ft)	27553.05	8150.91	9580.86	5552.08
Avg. Settling Rate (GPD/Ft2)	1023.40	482.54	559.04	338.63
Avg. Detention Time	2.54	7.28	6.19	10.68

AERATION TANKS	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	33.34	34.52	8.92
Avg. Detention Time (Hours)	4.32	4.11	8.31

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	1.20

Remarks: BY-PASS REPORTS (See Attached)

Report Selections: Period: 08/01/2019 00:00 thru 08/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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
SSL Sewer Service Line	29102	309 DORSEY WAY		MIDDLE FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	3147082		08/24/2019	MCCRARY	MCCRARY	REPAIRED - ISSUE RESOLVED	08/24/2019	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHARGE-WATER S	08/24/19 07:45 PM	MAIN

Discharge Reporting:

Discharge Amount:	8 GAL
Cause:	THERE WAS DEBRIS IN MANHOLE.
Clean Up:	REFERS TO AREA SUPERVISOR FOR DISCLEAN.
Control Zone:	PLACED ONE TEMPORARY DISCHARGE SIGN OUT.
Impact:	MSD PERSONEL OBSERVED MANHOLE DISCHARGING.
Repair:	FLUSHED AND REMOVED DEBRIS FROM MANHOLE.
Public Notification:	WE ADVISED CUSTOMER ON SITE.

Report Selections: Period: 08/01/2019 00:00 thru 08/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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
SV Sewer Valve	67746D-V	5901 U S HIGHWAY 42		GOOSE CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3147215		08/26/2019	GRIMES	MILLER	REPAIRED - ISSUE RESOLVED	08/26/2019	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE-WATER S	08/26/19 12:30 PM	MAIN

Discharge Reporting:

Discharge Amount:	50,000 GAL
Cause:	CONTRACTOR DAMAGED FORCE MAIN.
Clean Up:	CONTRACTOR CLEANED AND SANITIZED THE AERA.
Control Zone:	THE ROAD WAS CLOSE, BARRICADES WEREPLACED AND ADVISED CUSTOMERS TO AVOID DIRECT CONTACT WITH SEWAGE.
Impact:	OBSERVED PERSONAL HYGIENE PRODUCTS, SEWAGE AND SOLIDS.
Repair:	FLYNN COMPANY REPAIRED WITH SOLID REPAIR COUPLINGS.
Public Notification:	MSD ADVISED THE CUSTOMER ON SITE.

Notifications:

8/27/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 08/01/2019 00:00 thru 08/31/2019 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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
SLS Sewer Lift Station	MSD0123-PS	6600 SEMINARY WOODS PL	WEST GOOSE CREEK	GOOSE CREEK	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3147233		08/26/2019	CATALANO JR	CATALANO JR	REPAIRED - ISSUE RESOLVED	08/26/2019	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATER S	08/26/19 05:45 PM	

Discharge Reporting:

Discharge Amount:	187,500 GAL
Cause:	STRUCTURAL FAILURE FORCEMAIN BREAK.
Clean Up:	AREA DISINFECTED WITH LIME.
Control Zone:	PERMANENT SIGNS SUPPLEMENTED WITH TEMPORARY SIGNS AND CONES.
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND ON THE GROUND.
Repair:	WE PLACED STRAW BALES TO CONTAIN THE OVERFLOW.
Public Notification:	WE ADVISED ALL POSSIBLE IMPACTED PROPERTIES IN THE SURROUNDING AREA IN PERSON.

Notifications:

8/27/19 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: 3

Total Work Orders Printed: 3