



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

February 19, 2020

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 January 1st to January 31st 2020 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 and BOD percent removal for the reporting period.

Compromised solids handling equipment is contributing to our effluent exceedances. MSD has contracted with a third party for temporary dewatering services. This temporary dewatering service will reduce the solids loading to the Morris Forman plant.

Quarterly Acute Toxicity testing was performed January 7, 2020 on the final effluent with a passing result.

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:	001-1 MUNICIPAL DISCHARGE		

Report Dates & Status					
Monitoring Period:	From 01/01/20 to 01/31/20	DMR Due Date:	02/28/20	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				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	4.1					19 - mg/L	0	01/01 - Daily	GR - GRAB				
					Permit Req.					>=	2.0 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	=	48473.0	=	69599.0	26 - lb/d	=	53.0	=	76.0	19 - mg/L	2	01/01 - Daily	CP - COMPOS					
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d	<=	30.0 MO AVG	<=	45.0 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	=	296766.0	=	332600.0	26 - lb/d	=	327.0	=	376.0	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			=	6.8	12 - SU	0	01/01 - Daily	GR - GRAB				
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB				
					Value NODI																		
X 00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	85755.0	=	132371.0	26 - lb/d	=	92.0	=	143.0	19 - mg/L	2	01/01 - Daily	CP - COMPOS					
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d	<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS					
					Value NODI																		
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	280657.0	=	322658.0	26 - lb/d	=	300.0	=	315.0	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	=	7062.0	=	7794.0	26 - lb/d	=	8.2	=	8.7	19 - mg/L	0	01/01 - Daily	CP - COMPOS					
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d	<=	20.0 MO AVG	<=	30.0 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	=	9365.0	=	10071.0	26 - lb/d	=	10.3	=	11.4	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	=	107.18	=	113.3	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.												<=	0.019 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB		
					Value NODI																		
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample								=	87.0	=	217.0	13 - #/100mL	0	01/01 - Daily	GR - GRAB			
					Permit Req.											<=	1000.0 30DA GEO		<=	2000.0 7 DA GEO	13 - #/100mL	01/01 - Daily	GR - GRAB
					Value NODI																		
X 81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	84.0					23 - %	1	01/30 - Monthly	CA - CALCTD				
					Permit Req.											>=		85.0 MO MIN	23 - %	01/30 - Monthly	CA - CALCTD		
					Value NODI																		
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	69.0					23 - %	1	01/30 - Monthly	CA - CALCTD				
					Permit Req.											>=		85.0 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

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

Comments

Attachments

Name	Type	Size
MFWQTC012020MOR.pdf	pdf	89215.0
MFWQTC012020Coverletter.pdf	pdf	43668.0
January2020_OverflowReport_MorrisForman.pdf	pdf	49966.0

Report Last Saved By

Morris Forman WQTC MSD

User: kessel@louisvillemmsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemmsd.org
 Date/Time: 2020-02-25 13:25 (Time Zone: -05:00)

Report Last Signed By

User: kessel@louisvillemmsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemmsd.org
 Date/Time: 2020-02-25 13:25 (Time Zone: -05:00)

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 01/01/20 to 01/31/20	DMR Due Date:	02/28/20
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	=	189.0	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	161.0	=	198.0	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	137.0	=	580.0	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	122.0	=	137.0	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	8.0	=	7.8	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	10.3	=	11.2	19 - mg/L	15/30 - 15 Per Month	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L 0			WH/DS - When Discharging	CP - COMPOS
					Value NODI														
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	19.1	=	24.6	03 - MGD					15/30 - 15 Per Month	CN - CONTIN			
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD							0	WH/DS - When Discharging	CN - CONTIN
					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: 2020-02-25 13:23 (Time Zone: -05:00)

Report Last Signed By
 User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2020-02-25 13:25 (Time Zone: -05:00)

Format: Month/Day/Year
 Enter Start Date : 1/1/20

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF January-20
 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)			FLOW MG	RETURN SLUDGE			AERATION BASIN				ACTIVE		CHLORINATION			FINAL EFFLUENT		
	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	final	final		TSS g/L	TVSS g/l	DO	MLSS g/L	MLVSS g/L	SET m/l	SVI	Sludge Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours	
																															raw
1/1/20	119.81	118.03	1.78	59	59	7.3	6.6	13.1	0.1	208	31	7.1	190	70	19	22.5	18.7	15.0	23.5	3.1	2.4	157	50	1.08	0.22	2.27	0.016	307	6.6	24.0	
1/2/20	119.07	108.44	10.63	60	60	7.2	6.7	13.9	1.6	256	80	9.4	229	103	45	22.2	18.5	14.9	23.3	3.1	2.5	160	51	1.08	0.30	2.38	0.016	23	10.2	24.0	
1/3/20	186.49	131.41	55.08	60	60	7.3	6.6	11.8	3.9	232	154	6.3	152	134	90	22.2	17.0	13.6	24.1	2.5	2.0	142	58	1.07	0.22	4.76	0.016	4	8.0	24.0	
1/4/20	146.51	131.23	15.28	59	59	7.3	6.7	8.6	0.2	174	44	10.0	152	91	23	22.0	17.1	13.7	24.0	2.6	2.1	124	50	1.08	0.12	3.03	0.016	48	6.0	24.0	
1/5/20	110.35	110.35	0.00	58	58	7.3	6.7	8.7	0.1	162	20	12.0	161	104	14	22.2	17.0	13.5	23.9	2.4	1.9	139	59	1.08	0.07	1.77	0.016	80	7.0	24.0	
1/6/20	92.66	92.66	0.00	59	59	7.5	6.8	20.1	0.1	244	20	10.8	240	139	16	21.9	16.7	13.1	30.7	2.9	2.3	163	56	1.08	0.18	1.36	0.016	45	10.8	24.0	
1/7/20	86.40	86.40	0.00	60	60	7.4	6.8	15.9	0.1	296	15	8.1	305	185	14	22.1	14.7	11.6	21.0	3.0	2.4	160	53	0.83	0.26	1.47	0.016	17	13.7	24.0	
1/8/20	81.62	81.62	0.00	59	59	7.1	6.6	14.3	0.1	354	17	7.4	441	245	23	22.2	15.5	12.3	12.6	3.5	2.8	193	55	0.67	0.25	1.59	0.016	37	11.9	24.0	
1/9/20	95.87	95.82	0.05	61	61	7.3	6.5	20.1	0.1	473	21	6.5	314	208	17	22.1	16.2	13.2	13.0	7.9	6.5	184	23	0.95	0.21	2.01	0.016	20	13.8	24.0	
1/10/20	111.74	98.61	13.13	62	62	7.4	6.7	19.0	2.5	487	124	6.5	332	200	85	22.1	17.5	14.0	12.9	3.5	2.8	190	54	0.83	0.25	2.69	0.016	20	12.8	24.0	
1/11/20	173.98	124.95	49.03	63	63	7.4	6.5	11.5	2.5	310	131	6.4	218	114	71	22.2	17.3	13.2	15.6	3.3	2.3	166	50	0.41	0.14	4.50	0.016	194	4.8	24.0	
1/12/20	189.05	132.27	56.78	59	59	7.3	6.8	4.5	1.1	123	107	5.7	193	102	80	22.5	19.4	15.6	18.7	5.6	4.5	161	29	0.04	0.13	3.82	0.016	104	2.6	24.0	
1/13/20	157.37	131.24	26.13	59	59	7.2	6.5	7.6	0.2	176	51	6.4	223	110	50	22.0	18.8	15.1	17.4	3.3	2.7	148	44	0.46	0.25	3.01	0.016	7	4.6	24.0	
1/14/20	131.25	128.58	2.67	59	59	7.2	6.6	23.5	0.1	284	30	6.4	243	121	23	22.2	20.8	16.8	14.6	3.9	3.2	158	40	0.61	0.35	2.95	0.016	97	6.1	24.0	
1/15/20	117.21	117.21	0.00	61	61	7.1	6.5	42.1	0.1	350	47	4.3	388	191	28	22.5	19.6	15.9	9.6	2.9	2.4	171	58	0.44	0.20	2.83	0.016	500	6.5	24.0	
1/16/20	105.45	105.45	0.00	61	61	7.2	6.5	13.2	0.1	274	26	5.8	363	248	21	22.5	20.3	16.5	6.9	3.5	2.9	204	58	0.50	0.31	2.29	0.016	34	7.2	24.0	
1/17/20	98.94	98.94	0.00	59	59	7.0	6.6	17.0	0.4	367	98	6.6	388	236	42	22.4	19.3	15.9	4.7	4.0	3.3	228	57	0.32	0.22	2.61	0.016	253	13.3	24.0	
1/18/20	135.27	122.61	12.66	41	59	7.0	6.3	16.0	13.0	336	580	4.1	236	170	189	22.7	19.7	15.9	9.3	3.4	2.7	207	60	0.00	0.12	6.02	0.016	20	7.1	24.0	
1/19/20	105.09	105.09	0.00	51	51	7.2	6.5	12.9	0.1	246	44	5.8	227	114	24	22.3	19.7	16.2	14.1	8.3	6.8	188	23	0.05	0.10	3.51	0.016	67	4.9	24.0	
1/20/20	88.23	88.23	0.00	55	55	7.0	6.4	15.9	0.1	318	20	6.5	463	284	25	22.3	21.0	17.1	7.9	3.6	2.9	214	59	0.72	0.41	2.29	0.016	27	7.7	24.0	
1/21/20	92.24	92.24	0.00	57	57	7.0	6.5	12.0	0.1	292	64	6.2	378	202	41	22.4	21.0	17.2	5.1	4.2	3.4	253	61	0.73	0.48	2.11	0.016	278	9.0	24.0	
1/22/20	89.71	89.71	0.00	59	59	7.0	6.3	12.9	0.3	330	100	5.8	398	266	72	22.8	20.6	17.1	4.2	7.4	6.2	259	35	0.56	0.32	2.65	0.016	222	9.2	24.0	
1/23/20	96.51	93.43	3.08	59	59	7.1	6.3	19.5	0.1	400	60	9.3	501	230	33	22.6	21.3	17.9	7.5	3.8	3.2	270	77	0.88	0.25	2.70	0.016	174	10.6	24.0	
12/28/04	164.07	130.58	33.49	57	57	7.2	6.2	15.0	12.0	264	368	8.8	222	187	157	22.5	19.5	16.5	12.2	5.4	4.6	173	33	0.50	0.27	5.64	0.016	235	8.4	24.0	
1/25/20	122.02	121.26	0.76	56	56	6.8	6.4	12.5	0.2	272	84	6.4	322	176	46	22.5	17.9	15.3	12.2	2.6	2.2	177	67	0.29	0.15	3.19	0.016	980	4.4	24.0	
1/26/20	105.20	105.20	0.00	58	58	7.0	6.8	13.0	0.3	272	100	5.6	239	145	62	22.4	19.3	16.3	13.5	3.1	2.6	203	66	0.29	0.09	2.59	0.016	100	5.8	24.0	
1/27/20	101.06	101.06	0.00	59	59	7.1	6.3	13.5	0.1	290	87	5.9	536	344	95	22.4	18.8	15.9	6.6	3.7	3.1	238	64	0.69	0.39	2.66	0.016	197	9.0	24.0	
1/28/20	96.82	96.82	0.00	59	59	7.1	6.6	15.0	2.7	340	194	5.1	414	236	108	21.8	20.3	17.3	6.0	6.8	5.8	237	35	0.74	0.33	1.59	0.016	130	10.8	24.0	
1/29/20	97.18	97.18	0.00	59	59	7.0	6.6	16.5	3.5	348	244	4.6	401	206	107	22.5	20.6	17.8	5.6	3.4	3.0	237	69	0.58	0.28	2.89	0.016	600	11.6	24.0	
1/30/20	87.99	87.99	0.00	59	59	7.0	6.5	16.3	0.2	424	87	5.4	748	526	161	22.5	21.3	18.4	4.6	4.0	3.5	259	64	0.68	0.40	1.62	0.016	222	11.8	24.0	
1/31/20	104.05	97.90	6.15	59	59	6.9	6.5	26.0	2.5	413	188	5.4	518	405	166	22.5	18.9	16.3	2.0	4.0	3.3	264	66	0.72	0.36	3.93	0.016	560	14.0	24.0	
Sum	3609.21	3322.51	286.70												692.0																743.7
Average	116.43	107.18	19.11	58	59	7.2	6.5	15.5	1.6	300	104	6.8	327	197	63	22.3	18.8	15.5	13.1	4.0	3.3	194.4	52	0.6	0.25	2.86	0.016	86.8	8.7		

SEWER CONNECTIONS 148088 TIMES 4 = 592352 SEWER POPULATION IND. WASTER POPULATION EQ
 CUSTOMERS 387
 FLOW 529870
 BOD 1175565
 TSS 775724

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Jan-20

Average Flow

SETTLING TANKS	Primary	Secondary		
	Battery A	Battery B	Battery C	

Average Flow (MGD)	117.83	33.08	39.74	13.88
Tanks in Service	4.00	7.0	8.0	4.0
Surface Area (Ft.2)	77000.00	49083.03	69200.00	34600.00
Volume (MG)	8.33	5.03	7.09	3.54
Weir Length (Ft.)	2860.00	2034.25	2868.00	1434.00
Avg. Weir Overflow (GPD/Ft)	41200.47	16260.26	13855.60	9682.54
Avg. Settling Rate (GPD/Ft2)	1530.30	849.20	718.76	508.32
Avg. Detention Time	1.70	3.65	4.28	6.13

AERATION TANKS	Battery A	Battery B	Battery C
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Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	41.68	49.74	17.59
Avg. Detention Time (Hours)	3.05	2.54	3.63

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.85

Remarks: BY-PASS REPORTS (See Attached)



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
SMHSewer Manhole	08935-SM	1001 BRECKENRIDGE LN		MIDDLE FORK BEARGRASS	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3194062		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	11/29/2001	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER PM	01/12/20 02:45	MAIN

Discharge Reporting:

Discharge Amount:	900,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM CREEK.
Impact:	NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	27012	2408 GRAY FOX RD		MIDDLE FORK BEARGRASS	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3194066		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	03/09/2019	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	01/12/20 09:20 AM	MAIN

Discharge Reporting:

Discharge Amount:	57,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3194138.
Control Zone:	BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP DISCHARGE SIGNS AT THE DISCHARGE SITE & PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	28336	9707 WILLOWWOOD WAY		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	3194060		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	08/30/2005	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	11/12/20 08:15 AM	MAIN

Discharge Reporting:

Discharge Amount:	25,625 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3194136.
Control Zone:	CONES AND TEMPORARY DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE TO AVOID CONTACT DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	28413	3317 DELL RD		CHENOWETH RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3194054		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	03/20/2002	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	01/12/19 07:50 AM	MAIN

Discharge Reporting:

Discharge Amount:	26,500 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3194131.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE, DOOR HANGERS, AND WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



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
SMHSewer Manhole	28415	3406 DELL RD		CHENOWETH RUN	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3194055		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	12/19/2002	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER AM	01/12/20 07:55	MAIN

Discharge Reporting:

Discharge Amount:	26,500 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3194132.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE, DOOR HANGERS, AND WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	28451	3406 CHARLANE PKY		CHENOWETH RUN	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3194058		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	10/28/2015	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	11/12/20 08:20 AM	MAIN

Discharge Reporting:

Discharge Amount:	26,250 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3194134.
Control Zone:	CAUTION TAPE AND TEMPORARY DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE TO AVOID CONTACT DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



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
SMHSewer Manhole	28453	3402 CHARLANE PKY		CHENOWETH RUN	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3194056		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	10/28/2015	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER AM	01/12/20 08:05	MAIN

Discharge Reporting:

Discharge Amount:	26,250 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3194133.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE, DOOR HANGERS, AND WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	45796	1011 ALTA CIR		MIDDLE FORK BEARGRASS	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3194067		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	05/10/2014	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	01/12/20 09:25 AM	MAIN

Discharge Reporting:

Discharge Amount:	142,500 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3194139.
Control Zone:	BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP DISCHARGE SIGNS AT THE DISCHARGE SITE & PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	47582	201 BULLITT LN		MIDDLE FORK BEARGRASS	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3194069		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	12/05/2011	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	01/12/20 09:45 AM	MAIN

Discharge Reporting:

Discharge Amount:	1,425,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3194140.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO LACK OF PUBLIC ACCESS TO THE DISCHARGE SITE.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	47583	202 OXMOOR LN		MIDDLE FORK BEARGRASS	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3194068		01/11/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	02/06/2008	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	01/12/20 09:45 AM	MAIN

Discharge Reporting:

Discharge Amount:	285,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3194141.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO LACK OF PUBLIC ACCESS TO THE DISCHARGE SITE.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/12/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/12/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



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
SMHSewer Manhole	IS021A-SI	1201 OLD CANNONS LN		MIDDLE FORK BEARGRASS	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3193065		01/03/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	08/01/1969	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER AM	01/04/20 12:45	MAIN

Discharge Reporting:

Discharge Amount:	300,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	CLEAN UP NOT REQUIRED.UNDER GROUND PIPE DISCHARGES DIRECTLY IN TO THE CREEK.
Control Zone:	NO CONTROL ZONE SET UP - UNDERGROUND PIPE DISCHARGING IN TO THE CREEK.
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

1/7/20 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: 11

Total Work Orders Printed: 12