



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

May 14, 2018

Crystal Thompson
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. Thompson:

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 April 1st to April 30th, 2018 are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet a 30 day TSS, 7 day TSS, 30 day BOD, 7 day BOD and TSS Percent Removal.

Compromised solids handling equipment is contributing to the exceedances. MFWQTC continues to employ additional solids processing methods: dewatered cake and an outside vendor to assist with solids handling in addition to purchasing additional Liquid Oxygen in an effort to meet permit requirements.

Quarterly Acute Toxicity testing was performed April 18, 2018 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
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 04/01/18 to 04/30/18	DMR Due Date:	05/28/18
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:	Anthony	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						=	63	=	119	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	183	=	252	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	79	=	183	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	200	=	321	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	7.8	=	8.8	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	11.9	=	15	19 - mg/L	21/30 - 21 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	39.41	=	117.56	03 - MGD					21/30 - 21 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: 2018-05-21 11:56 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2018-05-21 11:57 (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 04/01/18 to 04/30/18	DMR Due Date:	05/28/18	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:	Anthony	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	=	4.5								19 - mg/L	0	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	=	28015	=	57735	26 - lb/d		=	32	=	71	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	=	281307	=	347345	26 - lb/d		=	258	=	366	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.3					=	7		12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM					<=	9 MAXIMUM		12 - SU	0	01/01 - Daily	GR - GRAB	
					Value NODI														
X 00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	45317	=	98659	26 - lb/d		=	52	=	120	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	=	370470	=	401694	26 - lb/d		=	329	=	383	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	E - Secondary/Biological Process Complete	0	--	Sample	=	7363	=	9273	26 - lb/d		=	7.9	=	9.4	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	8832	=	9509	26 - lb/d		=	8.1	=	10.1	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	117.26	=	133.9	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							0	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	0	01/01 - Daily	GR - GRAB	
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample							=	183	=	1636	13 - #/100mL	0	01/01 - Daily	GR - GRAB
					Permit Req.							<=	1000 30DA GEO	<=	2000 7 DA GEO	13 - #/100mL	0	01/01 - Daily	GR - GRAB
					Value NODI														
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample						=	88			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.						>=	85 MO MIN			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Value NODI														
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	84			23 - %	1	01/30 - Monthly	CA - CALCTD	
					Permit Req.						>=	85 MO MIN			23 - %	1	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
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
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

Comments

Attachments

Name	Type	Size
201804MFWQTCOverflowReport.pdf	pdf	123292
MFWQTC042018Coverletter.pdf	pdf	55924
MFWQTCMOR042018.pdf	pdf	130350

Report Last Saved By

Morris Forman WQTC MSD

User: kessel@louisvillemsd.org
Name: John Kessel
E-Mail: kessel@louisvillemsd.org
Date/Time: 2018-05-21 11:57 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
Name: John Kessel
E-Mail: kessel@louisvillemsd.org
Date/Time: 2018-05-21 11:57 (Time Zone: -04:00)

Format: Month/Day/Year
 Enter Start Date : 4/1/18

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF April-18
 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	Sec.	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim.	final	final	FLOW MG	TSS g/L	TVSS g/l	DO 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																													
4/1/18	211.27	128.64	82.63	57	57	7.3	6.8	8.1	0.4	152	41	9.9	70	52	38	22.0	10.1	8.1	30.2	2.2	1.8	161	73	1.15	0.34	2.35	0.016	1650	7.2	24.0	
4/2/18	246.62	129.06	117.56	54	54	7.2	7	5.5	1.2	131	61	9.4	79	61	44	21.6	9.9	7.7	32.1	2.1	1.6	158	76	1.15	0.39	1.96	0.016	2700	7.0	24.0	
4/3/18	227.66	132.07	95.59	60	60	7.4	7	12.1	1.4	250	55	8.0	162	123	55	19.7	8.6	6.8	27.1	1.8	1.4	130	71	1.15	0.40	3.08	0.016	1120	7.3	24.0	
4/4/18	213.20	133.90	79.30	53	53	7.2	6.9	8.9	0.7	190	54	6.9	160	109	56	20.2	9.1	7.3	23.3	2.7	2.1	130	48	0.48	0.15	3.42	0.016	1140	4.1	24.0	
4/5/18	171.06	130.21	40.85	61	61	7.0	6.8	8.2	2.0	235	52	6.9	331	163	69	20.0	12.0	9.5	21.3	2.2	1.8	130	61	1.15	0.41	3.61	0.016	60000	6.5	24.0	
4/6/18	176.55	129.27	47.28	57	57	7.1	6.6	10.5	0.8	320	63	7.8	247	192	69	18.5	11.6	9.3	22.4	3.7	3.0	153	55	1.15	0.38	3.38	0.016	660	6.8	24.0	
4/7/18	166.60	129.50	37.10	57	57	7.1	6.8	12.1	0.7	304	57	8.8	192	134	64	23.3	10.2	8.6	21.2	2.6	2.2	154	67	1.15	0.18	3.43	0.016	139	6.6	24.0	
4/8/18	148.42	130.64	17.78	56	56	7.3	6.8	8.3	0.6	182	46	9.2	123	111	40	24.1	10.2	8.4	21.8	2.1	1.7	147	71	1.16	0.32	2.78	0.016	142	6.2	24.0	
4/9/18	144.89	130.04	14.85	57	57	7.2	6.9	10.1	0.6	264	50	9.4	206	136	39	23.8	9.5	7.9	23.4	2.0	1.7	158	79	1.11	0.36	2.58	0.016	185	8.4	24.0	
4/10/18	133.19	125.41	7.78	56	56	7.1	6.6	15.5	0.5	300	46	9.1	220	151	37	23.9	10.6	8.9	20.8	3.5	3.0	169	49	1.15	0.29	2.48	0.016	66	9.1	24.0	
4/11/18	122.91	122.20	0.71	57	57	7.0	6.6	15.1	0.3	450	35	6.7	281	200	27	24.0	10.9	9.1	14.9	2.4	2.0	189	81	1.15	0.29	2.15	0.016	356	9.5	24.0	
4/12/18	117.49	117.49	0.00	59	59	7.0	6.5	15.9	0.2	388	43	6.4	274	195	22	24.2	12.0	10.3	15.6	3.1	2.6	231	75	1.02	0.46	3.04	0.016	15	11.6	24.0	
4/13/18	102.18	102.18	0.00	68	68	6.9	6.5	17.5	0.2	440	41	5.9	370	251	33	24.3	13.6	11.5	13.4	6.0	5.1	238	40	1.13	0.36	2.83	0.016	12	12.3	24.0	
4/14/18	153.71	118.10	35.61	63	63	6.8	6.5	16.5	4.5	560	206	5.4	253	273	143	24.0	14.1	12.1	8.7	3.3	2.8	329	100	1.15	0.22	5.66	0.016	26	8.8	24.0	
4/15/18	224.77	131.31	93.46	62	62	7.0	6.5	7.8	2.9	182	140	4.5	76	96	90	24.0	12.9	10.4	17.8	7.6	6.2	342	46	1.01	0.20	5.72	0.016	430	5.1	24.0	
4/16/18	170.48	127.62	42.86	54	54	7.1	6.8	15.2	0.4	209	51	6.2	134	124	63	23.9	13.5	11.2	21.3	4.0	2.9	286	71	1.14	0.28	3.25	0.016	1350	7.1	24.0	
4/17/18	138.32	123.86	14.46	57	57	7.2	6.6	9.5	0.2	350	29	8.5	196	111	28	24.0	13.3	10.9	18.4	2.9	2.5	254	88	1.16	0.35	2.73	0.016	540	10.2	24.0	
4/18/18	142.61	124.62	17.99	59	59	7.2	6.6	10.9	0.4	340	47	6.5	226	139	50	23.8	14.6	12.1	15.5	3.8	3.0	288	78	1.16	0.34	3.45	0.016	151	9.2	24.0	
4/19/18	125.20	123.13	2.07	57	57	7.1	6.6	11.6	0.5	390	38	5.5	245	176	32	24.8	13.5	11.2	12.6	3.4	2.7	254	75	1.15	0.41	2.97	0.016	98	8.9	24.0	
4/20/18	118.65	118.63	0.02	61	61	6.8	6.6	3.0	0.2	328	44	5.0	355	250	29	25.7	13.6	11.2	7.8	3.3	2.8	313	94	1.15	0.40	2.81	0.016	43	9.6	24.0	
4/21/18	115.57	115.57	0.00	61	61	6.6	6.3	8.0	0.2	300	55	4.8	269	239	43	25.8	13.4	11.2	8.1	3.4	2.9	300	91	1.15	0.28	1.58	0.016	1100	7.0	24.0	
4/22/18	108.52	108.52	0.00	62	62	7.1	6.4	15.0	0.2	340	80	5.4	368	207	56	26.0	15.7	13.4	10.1	3.6	3.1	363	101	1.15	0.27	2.88	0.016	66	8.4	24.0	
4/23/18	179.11	124.25	54.86	64	64	6.9	6.5	16.5	7.5	420	300	5.0	307	261	239	25.7	16.4	14.2	11.5	3.6	3.2	364	101	1.07	0.36	6.36	0.016	1380	9.7	24.0	
4/24/18	151.52	127.16	24.36	60	60	7.0	6.6	14.0	1.5	408	212	4.8	330	207	91	25.7	15.0	12.9	14.6	2.8	2.4	296	107	1.15	0.32	4.76	0.016	165	7.5	24.0	
4/25/18	108.45	108.01	0.44	63	63	6.9	6.5	13.5	0.2	356	36	5.4	454	284	26	25.8	15.1	12.7	11.0	3.0	2.5	311	102	1.15	0.30	2.52	0.016	71	9.1	24.0	
4/26/18	92.61	92.61	0.00	65	65	6.9	6.4	12.0	0.5	432	89	5.6	449	241	53	25.8	15.3	12.8	6.1	3.4	2.8	357	106	1.15	0.39	1.90	0.016	14	9.6	24.0	
4/27/18	89.26	89.26	0.00	66	66	7.1	6.4	8.0	7.5	375	248	4.7	327	300	150	25.8	15.3	12.9	6.4	3.9	3.3	399	103	1.11	0.38	2.65	0.016	19	12.3	24.0	
4/28/18	82.12	82.12	0.00	66	66	7.1	6.5	13.5	6.5	350	212	5.3	324	264	143	25.9	15.2	12.7	7.1	3.9	3.3	447	114	1.12	0.22	3.17	0.016	35	11.3	24.0	
4/29/18	76.99	76.99	0.00	61	61	6.9	6.6	14.9	2.5	400	174	5.4	321	185	89	25.9	16.9	14.3	12.8	5.4	4.6	459	86	1.15	0.21	2.38	0.016	36	9.8	24.0	
4/30/18	85.46	85.46	0.00	64	64	7.2	6.5	20.1	0.5	525	108	5.5	400	257	56	26.0	17.3	14.6	9.0	4.7	4.1	392	83	1.15	0.31	2.84	0.016	11	14.7	19.0	
Sum	4345.4	3517.8	827.6													718.2								33.371	9.546					714.8	
Average	144.8	117.3	39.4	59.9	59.9	7.1	6.6	11.9	1.5	329.0	90.4	6.6	258.3	183.1	65.8	23.9	13.0	10.8	16.2	3.4	2.8	263.4	79.7	1.1	0.3	3.2	0.016	183.3	8.7		

SEWER CONNECTIONS 147671 TIMES 4 = 590684 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 378
 FLOW 808308
 BOD 1235531
 TSS 1289408

Author ized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Apr-18

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	146.89	30.90	26.38	10.93
Tanks in Service	3.00	7.0	6.7	4.0
Surface Area (Ft.2)	77000.00	60450.68	57745.30	34520.77
Volume (MG)	8.33	6.19	5.91	3.54
Weir Length (Ft.)	2860.00	2505.38	2393.26	1430.72
Avg. Weir Overflow (GPD/Ft)	51361.59	12333.93	11022.28	7638.07
Avg. Settling Rate (GPD/Ft2)	1907.72	671.94	616.37	460.41
Avg. Detention Time	1.36	4.81	5.38	7.77

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	40.62	35.59	15.89
Avg. Detention Time (Hours)	3.26	3.82	4.61

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.91

Remarks: BY-PASS REPORTS (See Attached)

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	2885779		04/02/2018	MITCHELL	MITCHELL	DOCUMENTED	11/29/2001	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/02/18 03:52 PM	

Discharge Reporting:

Discharge Amount:	1,318,026 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/2/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/2/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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 (Cont'd)	MSD0278	MORRIS FORMAN			OHIO RIVER			WEST			
Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREVRain EVENT DISCHARGE	2891032		4/4/2018 12:18:00AM	MITCHELL	MITCHELL	DOCUMENTED	11/29/2001	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/04/18 01:06 AM	

Discharge Reporting:

Discharge Amount:	7,949 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/4/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/4/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	2895648		04/15/2018	FISHER	MITCHELL	DOCUMENTED	10/28/2015	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/15/18 06:30 PM	

Discharge Reporting:

Discharge Amount:	7,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	DISCLN WO# 2895711.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/16/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/16/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	45796	1011 ALTA CIR		MIDDLE FORK BEARGRASS 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	2885891		04/02/2018	FIELDS	MITCHELL	DOCUMENTED	05/10/2014	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/03/18 05:30 AM	

Discharge Reporting:

Discharge Amount:	36,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	WO# 2887310.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/2/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/2/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	45835	1132 ROSTREVOR CIR		MIDDLE FORK BEARGRASS 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	2885886		04/02/2018	LOGAN JR	MITCHELL	DOCUMENTED	09/02/2003	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/03/18 05:15 AM	

Discharge Reporting:

Discharge Amount:	36,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	WO# 2887302.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/2/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/2/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	47583	202 OXMOOR 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	2885902		04/02/2018	FIELDS	MITCHELL	DOCUMENTED	02/06/2008	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/02/18 09:50 PM	

Discharge Reporting:

Discharge Amount:	45,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	WORK ORDER # 2885473.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/2/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/2/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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	48357-X	23 BROWNSBORO HILL RD		MUDDY FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2895128		04/12/2018	BIVIN	BIVIN	DOCUMENTED	04/12/2018	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHAGE - WATERS	04/12/18 06:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	1,680 GAL
Cause:	OBSTRUCTION IN THE MAIN SEWER.
Clean Up:	WORK ORDER # 2895129.
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE.
Impact:	OBSERVED MH# 48357X DISCHARGING.
Repair:	FLUSHED AND ROOT CUT MAIN SEWER.
Public Notification:	ON SITE AND DISCHARGE SIGNS.

Notifications:

4/13/18 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: 04/01/2018 00:00 thru 04/30/2018 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	48362	614 FATIMA LN		MUDDY FORK BEARGRASS 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	2901064		04/23/2018	BIVIN	BIVIN	REPAIRED - ISSUE RESOLVED	04/23/2018	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHAGE - WATERS	04/23/18 05:30 PM	MAIN

Discharge Reporting:

Discharge Amount:	3,600 GAL
Cause:	BLOCKAGE OF PAPER AND RAGS IN THE MAIN SEWER AT A REPAIR BY CONTRACTOR.
Clean Up:	MSD WILL CLEAN AREA.
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTRACT WITH SEWAGE.
Impact:	OBSERVED MH DISCHARGING 30 GPM INTO THE CREEK FLUSHED MAIN SEWER 50 FT FROM MH# 66536 TO REPAIRED AREA. OPENED MAIN SEWER.
Repair:	REFERRED TO ENGINEERING.
Public Notification:	DISCHARGE SIGNS.

Notifications:

4/24/18 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: 04/01/2018 00:00 thru 04/30/2018 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	2885906		04/02/2018	FIELDS	MITCHELL	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	04/03/18 05:45 AM	

Discharge Reporting:

Discharge Amount:	315,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	WO# 2887323.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/2/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/2/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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 (Cont'd)	MSD0278	MORRIS FORMAN			OHIO RIVER			WEST			
Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREVRain EVENT DISCHARGE	2891034		4/4/2018 5:25:00AM	MITCHELL	FIELDS	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/04/18 09:22 PM	

Discharge Reporting:

Discharge Amount:	1,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	NO CLEAN UP PERFORMED. PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED, SOME SEWAGE CAME IN CONTACT WITH WATERWAYS.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

4/4/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/4/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 04/01/2018 00:00 thru 04/30/2018 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
SLS Sewer Lift Station	MSD1017-PS	420 W RIVER RD	BELVEDERE	OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2892702		04/04/2018	GOODWIN	BRAZEL	BEYOND APPROVED DESIGN STORM	04/04/2018	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	04/12/18 08:30 AM	

Discharge Reporting:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RIVER FLOODING.
Clean Up:	NO CLEANUP REQUIRED.
Control Zone:	NO CONTROL ZONE- DUE TO FLOODING WAS UNABLE TO ACCESS STATION.
Impact:	NO IMPACT OBSERVED- STATION UNDERWATER.
Repair:	STATION WILL BE RETURNED TO SERVICE WHEN RIVER RECEDES.
Public Notification:	ROADS CLOSED AROUND THE AREA.

Notifications:

4/9/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
4/9/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Total Facilities Printed: 9

Total Work Orders Printed: 11