



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

July 23, 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 June 1st to June 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, BOD or TSS Percent Removal and a one day Chlorine Residual exceedance.

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.

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 06/01/18 to 06/30/18	DMR Due Date:	07/28/18	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						=	2.3				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	=	33097	=	58099	26 - lb/d		=	44	=	75	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	=	229750	=	247534	26 - lb/d		=	273	=	349	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					=	6.8			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	=	75557	=	162221	26 - lb/d		=	99	=	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														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	289301	=	318934	26 - lb/d		=	328	=	406	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	=	9132	=	11024	26 - lb/d		=	12	=	17	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	=	9056	=	9909	26 - lb/d		=	11	=	12.4	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	110.3	=	209.9	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														
X 50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample								=	0.172	19 - mg/L	1	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	1	--	Sample							=	48	=	83	13 - #/100mL	1	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						=	84			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						=	70			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

50060	Chlorine, total residual	1 - Effluent Gross	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
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
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
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
MFWQTCoverletter2018.pdf	pdf	25045
June2018_OverflowReport_MorrisForman.pdf	pdf	117820
MFWQTCMOR062018.pdf	pdf	93304

Report Last Saved By

Morris Forman WQTC MSD

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2018-07-24 14:17 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2018-07-24 14:22 (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-Y BIOMONITORING/ONCE PER QUARTER		

Report Dates & Status

Monitoring Period:	From 04/01/18 to 06/30/18	DMR Due Date:	07/28/18	Status:	NetDMR Validated
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Considerations for Form Completion

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
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	371		=	371	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.01		<	0.01	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05		<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.01		<	0.01	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly		CP - COMPOS	
					Value NODI														
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2F - tox acute	0	01/90 - Quarterly	G2 - GRAB-2
					Permit Req.									<=	1 DAILY MX	2F - tox acute		01/90 - Quarterly	G2 - GRAB-2
					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: 2018-07-24 14:21 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org

Name: John Kessel

E-Mail: kessel@louisvillemsd.org

Date/Time: 2018-07-24 14:22 (Time Zone: -04:00)

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 06/01/18 to 06/30/18	DMR Due Date:	07/28/18
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			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	84	=	140	19 - mg/L	14/30 - 14 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						=	143	=	189	19 - mg/L	14/30 - 14 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						=	146	=	283	19 - mg/L	14/30 - 14 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						=	174	=	257	19 - mg/L	14/30 - 14 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						=	9.6	=	13.7	19 - mg/L	14/30 - 14 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						=	9.8	=	15.4	19 - mg/L	14/30 - 14 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	=	29.1	=	32.9	03 - MGD					14/30 - 14 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: 2018-07-24 14:20 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2018-07-24 14:22 (Time Zone: -04:00)

Format: Month/Day/Year

Enter Start Date : 6/1/18

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF June-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 Sludge Wasted	Primary Sludge MG	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	DO mg/l	MLSS g/L	MLVSS g/L	SET	SVI	MG	MG	Chlorine Dosage KLBS	Fecal Resid mg/L	Coliform #/100 mi	NH3-N mg/L	Pump. Hours
6/1/18	209.86	133.10	76.76	77	77	6.9	6.3	8.2	3.2	313	177	3.6	208	206	122	25.5	18.8	15.5	14.5	3.8	3.2	263	69	1.30	0.25	7.57	0.016	544	6.9	0.0	
6/2/18	146.40	127.48	18.92	75	75	6.9	6.6	4.9	1.4	196	112	4.9	159	115	51	25.4	19.1	15.6	19.8	4.2	3.4	236	57	1.29	0.25	5.40	0.172	294	6.9	0.0	
6/3/18	106.70	105.21	1.49	73	73	7.2	6.4	9.9	0.5	228	39	6.9	132	148	21	25.5	17.8	14.6	20.5	7.2	5.9	202	28	1.29	0.19	3.15	0.016	12	11.1	0.0	
6/4/18	89.43	89.43	0.00	74	74	7.0	6.4	9.8	0.4	284	58	6.4	246	153	29	25.5	19.1	15.3	19.7	5.5	4.3	263	48	1.30	0.31	2.70	0.016	24	15.1	0.0	
6/5/18	84.81	84.81	0.00	71	71	6.8	6.4	3.5	0.1	320	23	6.9	456	273	13	25.5	18.5	15.0	10.5	4.0	3.3	268	67	1.29	0.38	2.69	0.016	5	14.3	0.0	
6/6/18	81.46	81.46	0.00	73	73	6.7	6.4	6.0	0.3	300	44	4.2	356	489	25	25.2	17.3	14.0	2.5	4.7	3.8	293	63	1.25	0.38	3.24	0.016	78	17.6	0.0	
6/7/18	75.05	75.05	0.00	74	74	6.8	6.4	16.5	0.4	388	83	6.3	468	275	49	25.3	19.8	18.3	2.0	5.3	4.4	320	60	1.32	0.38	3.98	0.016	17	18.7	0.0	
6/8/18	77.26	77.26	0.00	78	78	6.6	6.3	3.5	1.5	216	148	4.2	322	478	71	25.3	20.4	16.4	1.4	6.8	5.5	280	43	1.34	0.20	4.31	0.016	46	11.9	0.0	
6/9/18	77.21	77.21	0.00	77	77	6.9	6.3	18.2	2.2	416	220	4.2	325	297	78	25.5	20.3	16.7	2.1	6.0	4.8	346	58	1.34	0.13	4.42	0.016	86	8.4	0.0	
6/10/18	115.71	96.81	19.10	76	76	6.9	6.6	15.1	14.9	455	430	4.9	156	212	227	25.4	22.1	17.9	8.6	12.0	9.8	332	28	1.33	0.13	6.64	0.016	2	7.6	0.0	
6/11/18	133.78	106.22	27.56	75	75	7.0	6.3	9.9	5.1	364	224	4.9	148	77	104	25.2	22.5	18.3	11.8	5.5	4.4	253	47	1.33	0.13	6.65	0.016	10	8.0	0.0	
6/12/18	143.52	117.47	26.05	75	75	6.9	6.5	5.6	3.6	332	194	6.2	214	145	89	25.6	20.4	16.5	12.5	3.7	3.0	218	59	1.33	0.27	5.96	0.016	24	7.7	0.0	
6/13/18	105.04	105.04	0.00	77	77	7.0	6.4	10.9	0.2	272	30	4.4	342	195	15	25.4	20.4	16.7	9.0	4.8	3.9	246	51	1.34	0.33	3.21	0.016	148	9.8	0.0	
6/14/18	91.82	91.82	0.00	77	77	6.9	6.5	10.9	0.6	450	69	4.5	439	236	35	25.5	20.7	16.8	5.0	4.4	3.5	260	59	1.33	0.34	3.55	0.016	260	10.7	0.0	
6/15/18	75.80	75.80	0.00	81	81	7.0	6.5	15.0	0.5	500	79	4.4	484	324	72	25.7	19.8	15.8	1.3	4.8	4.0	291	61	1.31	0.18	3.66	0.016	136	13.1	0.0	
6/16/18	65.06	65.06	0.00	80	80	7.0	6.3	12.0	1.0	348	107	4.6	326	260	47	25.6	20.9	17.2	4.1	5.3	4.5	343	64	1.28	0.40	3.63	0.016	5	14.7	0.0	
6/17/18	60.69	60.69	0.00	79	79	7.0	6.5	10.6	1.4	300	152	6.3	208	72	57	25.6	20.4	16.8	11.6	5.3	4.6	371	69	1.33	0.35	3.21	0.016	16	16.4	0.0	
6/18/18	72.89	72.89	0.00	80	80	7.0	6.6	15.1	0.9	396	126	5.9	316	169	49	25.5	19.5	16.0	12.5	5.4	4.5	307	59	1.33	0.38	3.63	0.016	5	20.7	0.0	
6/19/18	80.41	80.41	0.00	79	79	7.0	6.5	15.8	1.2	468	90	4.9	416	280	45	25.4	21.8	17.8	4.7	5.1	4.1	301	59	1.33	0.43	4.34	0.016	38	20.0	0.0	
6/20/18	106.99	92.20	14.79	80	80	6.9	6.4	15.1	3.5	463	224	7.2	440	244	128	25.7	18.6	15.3	4.0	4.7	3.9	280	60	1.29	0.45	5.76	0.016	308	17.1	0.0	
6/21/18	132.09	106.79	25.30	78	78	6.9	6.3	11.1	3.4	364	174	6.2	255	134	103	25.2	17.7	14.5	6.6	4.0	3.4	243	61	1.33	0.36	6.23	0.016	130	10.3	0.0	
6/22/18	132.78	105.43	27.35	77	77	6.5	6.5	7.9	0.6	464	76	4.5	256	215	98	25.4	19.0	15.5	7.7	4.8	4.1	257	54	1.33	0.34	6.02	0.016	88	8.8	0.0	
6/23/18	71.21	71.21	0.00	75	75	6.5	6.3	12.0	0.1	282	14	4.7	225	99	7	25.3	18.5	15.0	11.3	4.7	3.9	266	57	1.33	0.34	2.25	0.016	50	7.9	0.0	
6/24/18	87.03	86.36	0.67	78	78	7.1	6.5	9.6	0.3	355	38	2.3	258	127	26	25.1	16.7	13.6	6.3	4.9	4.1	272	57	1.33	0.34	2.89	0.016	100	13.2	14.1	
6/25/18	180.46	127.29	53.17	77	77	7.4	6.5	6.5	2.5	166	128	2.6	124	108	82	25.2	20.6	16.5	11.0	3.6	2.9	208	58	1.34	0.32	7.19	0.016	24	10.8	24.0	
6/26/18	171.67	124.60	47.07	76	76	7.3	6.7	7.1	1.4	294	133	6.4	180	81	52	25.4	18.9	15.0	16.4	3.0	2.5	174	118	1.33	0.27	6.32	0.016	85	8.3	24.0	
6/27/18	188.50	130.30	58.20	76	76	7.3	6.8	5.2	0.5	147	67	6.3	106	79	44	25.4	18.2	13.9	16.5	2.6	2.0	161	62	1.18	0.34	5.38	0.016	260	8.2	24.0	
6/28/18	138.27	127.31	10.96	76	76	7.2	6.8	7.9	0.3	200	28	5.3	193	108	33	25.6	16.3	12.5	12.0	2.5	2.0	148	59	1.33	0.27	3.75	0.016	112	8.8	12.3	
6/29/18	109.05	109.05	0.00	78	78	7.1	6.6	9.8	0.1	317	16	5.5	223	142	10	25.4	14.3	11.2	7.1	5.8	4.5	139	25	1.33	0.34	3.79	0.016	58	11.2	0.0	
6/30/18	98.03	98.03	0.00	78	78	7.0	6.8	8.3	0.1	228	14	5.1	218	126	8	25.5	14.4	11.3	6.7	5.3	4.2	142	28	1.33	0.35	2.92	0.016	92	11.1	0.0	
Sum	3309.0	2901.6	407.4													762.8															98.4
Average	110.3	96.7	29.1	76.6	76.6	7.0	6.5	10.1	1.7	327.5	110.6	5.2	273.3	195.6	59.7	25.4	19.1	15.5	9.3	5.0	4.1	256.1	56.3	1.3	0.3	4.5	0.021	47.9	11.8		

SEWER CONNECTIONS

147791 TIMES 4 =

591164 SEWER POPULATION

IND. WASTER POPULATION EQ

CUSTOMERS 379

FLOW 471378

BOD 915137

TSS 875278

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Jun-18

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	111.57	24.76	22.01	12.97
Tanks in Service	3.00	8.0	7.0	4.0
Surface Area (Ft.2)	77000.00	69100.30	60550.00	34592.44
Volume (MG)	8.33	7.08	6.20	3.54
Weir Length (Ft.)	2860.00	2863.87	2509.50	1433.69
Avg. Weir Overflow (GPD/Ft)	39009.40	8645.49	8769.17	9048.41
Avg. Settling Rate (GPD/Ft2)	1448.92	517.50	528.59	504.59
Avg. Detention Time	1.79	6.86	6.76	6.56

AERATION TANKS

Battery A Battery B Battery C

Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	35.76	32.01	17.46
Avg. Detention Time (Hours)	4.07	4.58	3.89

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	1.13

Remarks: BY-PASS REPORTS (See Attached)

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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	16649	1726 FRASER DR		SOUTH 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	2938624		06/26/2018	BROWN	MITCHELL	DOCUMENTED	01/24/2002	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	06/26/18 03:45 PM	

Discharge Reporting:

Discharge Amount:	36,995 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEAN UP REQUIRED.MH DISCHARGED DIRECTLY INTO THE CREEK.
Control Zone:	NONE NEEDED, DISCHARGE WENT DIRECTLY INTO CREEK.
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DISCHARGE.

Notifications:

6/27/18 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/27/18 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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	47582	201 BULLITT 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	2938306		06/26/2018	BROWN	MITCHELL	DOCUMENTED	12/05/2011	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	06/27/18 06:10 AM	

Discharge Reporting:

Discharge Amount:	1,500 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	DISCLN WO#2938902
Control Zone:	CAUTION TAPE, TEMP DISCHARGE SIGNS.
Impact:	LIGHT DEBRIS AROUND MANHOLE.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE. AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

6/27/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/27/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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	2938304		06/26/2018	BROWN	MITCHELL	DOCUMENTED	02/06/2008	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	06/27/18 06:25 AM	

Discharge Reporting:

Discharge Amount:	7,500 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	DISCLN WO#2938901
Control Zone:	CAUTION TAPE AND TEMP DISCHARGE SIGNS.
Impact:	MODERATE DEBRIS AROUND MANHOLE.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE. AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

6/27/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/27/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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	23 BROWNSBORO HILL RD		MUDDY 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	2931382		06/07/2018	BIVIN	BIVIN	REPAIRED - ISSUE RESOLVED	06/07/2018	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHAGE - WATERS	06/07/18 06:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	100 GAL
Cause:	OBSTRUCTION IN THE MAIN.
Clean Up:	MSD CLEANED AREA. WO#2931389
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE.
Impact:	OBSERVED MH# 48357 DISCHARGED BUT STOPPED . MANHOLE WAS FULL FLUSHED MAIN SEWER FROM MH# 66536 700 FT.
Repair:	FLUSHED MAIN SEWER FROM MH# 66536 700 FT.
Public Notification:	ON SITE AND DISCHARGE SIGNS.

Notifications:

6/8/18 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: 06/01/2018 00:00 thru 06/30/2018 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	51594	1418 TREVILIAN WAY		SOUTH 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	2938301		06/26/2018	BROWN	MITCHELL	DOCUMENTED	09/12/2006	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	06/27/18 04:33 PM	

Discharge Reporting:

Discharge Amount:	3,125 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	DISCLN WO#29838795
Control Zone:	CAUTION TAPE AND TEMP SIGN PLACED AROUND MH.
Impact:	LIGHT DEBRIS AROUND MH.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

Notifications:

6/27/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/27/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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	CSO020	147 BUCHANAN ST		OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2931056		06/07/2018	DODDS	DODDS	REPAIRED - ISSUE RESOLVED	06/07/2018	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	06/07/18 04:00 AM	

Discharge Reporting:

Discharge Amount:	578,054 GAL
Cause:	STARKEY PS WAS SHUT DOWN TO TAKE MEASUREMENTS FOR REHABILITATION OF THE OHIO RIVER INTERCEPTOR.
Clean Up:	NOT POSSIBLE. DISCHARGE PIPE SUBMERGED.
Control Zone:	PERMANENT OVERFLOW SIGNS.
Impact:	NONE PIPE SUBMERGED.
Repair:	STARKEY PS WAS RESTARTED ONCE WORKERS SAFELY OUT OF PIPE.
Public Notification:	WEBSITE UPDATED.

Notifications:

6/7/18 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: 06/01/2018 00:00 thru 06/30/2018 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	CSO120	1031 LEXINGTON RD		SOUTH 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	2926941		06/02/2018	DODDS	MITCHELL	REPAIRED - ISSUE RESOLVED	06/02/2018	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHAGE - WATERS	06/03/18 10:22 AM	

Discharge Reporting:

Discharge Amount:	28,929 GAL
Cause:	OBSTRUCTION IN THE LOW FLOW LINE (BRICK AND OTHER DEBRIS).
Clean Up:	MSD CREWS CLEANED AND SANITIZED THE AREA.
Control Zone:	PERMANENT SIGNS POSTED.
Impact:	SEWAGE IN IMPROVED CHANNEL.
Repair:	OBSTRUCTION REMOVED.
Public Notification:	WEBSITE UPDATED.

Notifications:

6/3/18 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: 06/01/2018 00:00 thru 06/30/2018 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	2938313		06/26/2018	BROWN	MITCHELL	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	06/27/18 01:30 AM	

Discharge Reporting:

Discharge Amount:	1,920,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED, DISCHARGE WENT DIRECTLY INTO CREEK.
Control Zone:	NONE NEEDED, DISCHARGE WENT DIRECTLY INTO CREEK.
Impact:	NONE OBSERVED REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PERMANENT OVERFLOW ADVISORY SIGNS ARE POSTED ALONG THE CREEK.

Notifications:

6/27/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/27/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 06/01/2018 00:00 thru 06/30/2018 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
SMN Sewer Main	MSD0070-PS	705 STIVERS RD		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	2938147		06/26/2018	GOODWIN	BRAZEL	REPAIRED - ISSUE RESOLVED	06/26/2018	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	06/26/18 11:00 AM	

Discharge Reporting:

Discharge Amount:	25 GAL
Cause:	STRUCTURAL FAILURE, FORCE MAIN BREAK.
Clean Up:	DISINFECTED IMPACTED AREA WITH LIME.
Control Zone:	PLACED TEMPORARY SIGNS AROUND IMPACTED AREA.
Impact:	SEWAGE FOUND AROUND WET WELL.
Repair:	TURNED OFF PUMPS, HAULED STATION WHILE CONTRACTOR MAKES REPAIR.
Public Notification:	PLACED TEMPORARY SIGNS AROUND IMPACTED AREA.

Notifications:

6/26/18 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: 9

Total Work Orders Printed: 9