



700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

March 20, 2015

Cheryl Edwards  
Permit Support Section  
Surface Water Permits Branch  
Division of Water  
200 Fair Oaks Lane 4<sup>th</sup> Floor  
Frankfort, KY 40601

**Re: Morris Forman Water Quality Treatment Center  
KPDES Permit No. KY0022411**

Dear Ms. Edwards:

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 February 1<sup>st</sup> to February 28<sup>th</sup> are provided through NetDMR.

Through December 2014 and January 2015, Morris Forman remained in solids recovery mode from the October 31 process water line break. Additionally, the plant experienced elevated influent TSS and BOD loading and reduced solids processing capability. Morris Forman employed additional solids removal methods but was limited by weather and odor concerns at the solids disposal facility. As a result, we did not meet our monthly BOD and TSS effluent limits, seven day BOD and TSS limits, and percent removal for TSS.

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

Sincerely,

A handwritten signature in black ink that reads "Alex E. Novak". The signature is written in a cursive style.

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

vgt



*Beneficial Use of Louisville's Biosolids*  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

DMR Copy of Record

<b>Permit</b>					
Permit #:	KY0022411	Permittee:	MORRIS FORMAN WQTC MSD	Facility:	MORRIS FORMAN WQTC MSD
Major:	Yes	Permittee Address:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211	Facility Location:	4522 ALGONQUIN PKWY LOUISVILLE (JEFFERSON,KY), KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 02/01/15 to 02/28/15	DMR Due Date:	03/28/15	Status:	NetDMR Validated

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

<b>Principal Executive Officer</b>					
First Name:	Greg	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Heitzman				

**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	=	3.2				=	19 - mg/L				0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	2 INST MIN					19 - mg/L				0	01/01 - Daily	GR - GRAB	
					Value NODI														
X 00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	0	--	Sample	=	33052	=	50494	26 - lb/d	=	49	=	80	19 - mg/L		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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample	=	320451	=	388772	26 - lb/d	=	487	=	594	19 - mg/L		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	=	6.4				=	7.1		12 - SU			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	=	51841	=	72125	26 - lb/d	=	76	=	114	19 - mg/L		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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	314878	=	379132	26 - lb/d	=	457	=	540	19 - mg/L		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	=	5486	=	7600	26 - lb/d	=	9.1	=	14.5	19 - mg/L		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	=	9351	=	9858	26 - lb/d	=	14.9	=	17.9	19 - mg/L		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	=	76.79	=	126.37	03 - MGD							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							<	0.015	19 - mg/L			01/01 - Daily	GR - GRAB	
					Permit Req.							<=	.019 DAILY MX	19 - mg/L		0	01/01 - Daily	GR - GRAB	
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample							=	167	13 - #/100mL			XX/XX - Frequency as Reported	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						=	90		23 - %			XX/XX - Frequency as Reported	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						=	83		23 - %			XX/XX - Frequency as Reported	CA - CALCTD	
					Permit Req.						>=	85 MO MIN		23 - %		0	01/30 - Monthly	CA - CALCTD	
					Value NODI														

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

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

81011	Solids, suspended percent removal	K - Percent Removal	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
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
MFWQTC022015Coverletter.pdf	pdf	48864
20152_MFWQTC_OverflowReport.pdf	pdf	72889
MFWQTC2015MOR.pdf	pdf	88729

**Report Last Saved By**

**MORRIS FORMAN WQTC MSD**

User:	robert.bates@louisvillemsd.org	Date/Time:	2015-03-20 13:27 (Time Zone: -04:00)
Name:	Robert Bates		
E-Mail:	robert.bates@louisvillemsd.org		

**DMR Copy of Record**

<b>Permit</b>			
Permit #:	KY0022411	Permittee:	MORRIS FORMAN WQTC MSD
Major:	Yes	Permittee Address:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-B SECONDARY BYPASS
Facility:		Facility Location:	MORRIS FORMAN WQTC MSD 4522 ALGONQUIN PKWY LOUISVILLE (JEFFERSON,KY), KY 40211

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 02/01/15 to 02/28/15	DMR Due Date:	03/28/15
Status:	NetDMR Validated		

**Considerations for Form Completion**  
 MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.1 - FINAL EFFLUENTF - SECONDARY BYPASS AFTER PRIMARYTREATMENT.

<b>Principal Executive Officer</b>			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	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
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	263	=	557	19 - mg/L	04/30 - Four 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						=	389	=	615	19 - mg/L	04/30 - Four 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						=	458	=	1160	19 - mg/L	04/30 - Four 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						=	404	=	820	19 - mg/L	04/30 - Four 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						=	7.7	=	13	19 - mg/L	04/30 - Four 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						=	12.9	=	18.9	19 - mg/L	04/30 - Four 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	=	29.68	=	0	03 - MGD						04/30 - Four 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:	robin.burch@louisvillemsd.org	Date/Time:	2015-03-20 13:26 (Time Zone: -04:00)
Name:	Robin Burch		
E-Mail:	robin.burch@louisvillemsd.org		



MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Feb-15

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	81.03	18.20	26.35	7.65
Tanks in Service	3.93	7.9	7.0	4.0
Surface Area (Ft.2)	75652.50	67989.00	60504.91	34471.47
Volume (MG)	8.19	6.96	6.20	3.53
Weir Length (Ft.)	2809.95	2817.81	2507.63	1428.67
Avg. Weir Overflow (GPD/Ft)	28836.68	6458.44	10507.14	5353.65
Avg. Settling Rate (GPD/Ft2)	1071.08	449.32	619.89	373.58
Avg. Detention Time	2.42	9.18	5.65	11.08

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	30.55	37.51	12.88
Avg. Detention Time (Hours)	5.54	3.83	6.59

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	1.54

Remarks: BY-PASS REPORTS (See Attached)



Report Selections: Period: 02/01/2015 00:00 thru 02/28/2015 23:59, 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	CSO184	825 FETTER AVE		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	2314658		2/20/15 3:11 pm	AFABLE	GRIFFITH	REPAIRED - ISSUE RESOLVED	02/20/2015	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE - WATERS	02/20/15 03:21 PM	

**Discharge Reporting:**

Discharge Amount:	9,200 GAL
Cause:	Water main break at the intersection of Alexander Avenue and Keswick Boulevard resulting in a significant amount of water in the combined sewer system
Clean Up:	No cleanup was necessary, overflow discharged directly to improved channel of Beargrass Creek.
Control Zone:	No control zone needed.
Impact:	Mostly clear water mixed with some sewage discharged directly to the creek
Repair:	No repairs needed. Louisville Water Co. completed work at 3:30 pm
Public Notification:	Public was notified through Project Win Website

**Notifications:**

2/21/15 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
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Total Facilities Printed: 1

Total Work Orders Printed: 1