

Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.nsdlouky.org

May 20, 2014

Ms. Cheryl Edwards Kentucky Division of Water 200 Fair Oaks Lane Frankfort, Kentucky 40601

Re: MSD Metro Operations

Berrytown WQTC; KPDES No.: KY0036501 Discharge Monitoring Reports – April 2014

Dear Ms. Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Berrytown WQTC, KPDES No.: KY0036501 for the month of April 2014.

Also attached are bypass letters and overflow reports.

There were no exceedences.

If you have any questions concerning the attached DMRs, please contact me at (502) 239-7574.

Sincerely,

Duane V. Wright

Process Supervisor Central Region

Duare V. Kright

DVW/Berrytown 04.14

Enclosures

cc:

T. Singleton

R. Shaw

DMR Copy of Record

BTOWN_MOR042014.pdf

Report Last Saved By

Berrytown4-4-14_bypassltr.pdf

Permit																			
Permit #:	KY0036501					nittee:			YTOWN W		SD		Facility:			_		/QTC MSD	
Major:	No			Pern				1203 HEAFER RD LOUISVILLE, KY 40222 Facility Location				Location		1203 HEA LOUISVILI					
Permitted Feature:	001 External Outfall				Disc	harge:		001-1 SANIT	ARY WAS	TEWAT	ER								
Report Dates & Status					•														
Monitoring Period:	From 04/01/14	to 04/3	0/14		DMR	Due Date:		05/28/1	14				Status:			NetDMR V	alidat	ed	
Considerations for Form Completion	on				•														
TOTAL NITROGEN IS THE SUMMAT	TION OF THE AN	IALYTIC	CAL RESULTS	FOR TOTA	L NITRA	ATES, TOTAL	NITRIT	ES, AND TOTAL KJE	ELDAHL N	ITROGE	ΞN								
Principal Executive Officer																			
First Name:	Greg				Title	:		Exec. [Dir.				Telepho	ne:		502-540-6	000		
Last Name:	Heitzman																		
No Data Indicator (NODI)																			
Form NODI:																			
Parameter	Monitoring Locatio	n Seaso	n # Param. NOD			G	Quantity	or Loading					Quality or Cond	entration			# of E	Ex. Frequency of Analysis	Sample Type
Code Name					Qualifier 1	Value 1	Quali	fier 2 Value 2	Units	Qualifie		alifier 2	Value 2	Qualifier 3	3 Value 3	Units			
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Sample Permit Req.						= >=	8 7 INST MIN					19 - mg/L 19 - mg/L	0		GR - GRAB GR - GRAB
Occord Caygeri, dissolved [20]	i Emacin Gross	J		Value NODI							7 INOT WIIN					13 Hig/L		01707 Weekly	OK OKAD
				Sample						-	7			-	8	12 - SU			GR - GRAB
00400 pH	1 - Effluent Gross	0		Permit Req. Value NODI						>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU	0	01/07 - Weekly	GR - GRAB
				Sample =		5.9	-	7.9	26 - lb/d		=		4	=	5	19 - mg/L		01/07 - Weekly	CP - COMPOS
00530 Solids, total suspended	1 - Effluent Gross	0		Permit Req.	<=	18.8 MO AVG	<=	28.2 WKLY AVG	26 - lb/d		<=		30 MO AVG	<=	45 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24
				Value NODI Sample							=		10	=	15	19 - mg/L		01/07 - Weekly	CS - CORSAN
00600 Nitrogen, total	1 - Effluent Gross	0		Permit Req.							<u>-</u>		Reg Mon MO AVG	-	Req Mon WKLY AVG		0		24 - COMP24
				Value NODI												Ü		,	
20040 Nitro con appropria total for NI	1 - Effluent Gross	2		Sample =		0.3	= <=	0.5	26 - lb/d 26 - lb/d		=			=	0.3	19 - mg/L			CP - COMPO
00610 Nitrogen, ammonia total [as N]	1 - Elliuent Gross	2	-	Permit Req. < Value NODI	ζ=	6.3 MO AVG	<=	9.4 WKLY AVG	26 - ID/Q		<=		10 MO AVG	<=	15 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24
				Sample							=		0.8	=	1.1	19 - mg/L		01/07 - Weekly	CP - COMPO
00665 Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG		Req Mon WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24
				Value NODI Sample =		0.182	-	0.34	03 - MGE)								99/99 - Continuous	CN - CONTIN
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req.		Req Mon MO AV	/G	Req Mon WKLY AV									0		IN - INSTAN
				Value NODI									0.04		0.04	40//		04/07 MLh	OD ODAD
50060 Chlorine, total residual	1 - Effluent Gross	0		Sample Permit Req.							<=			< <=	0.01 .019 WKLY AVG	19 - mg/L 19 - mg/L	0	·	GR - GRAB GR - GRAB
				Value NODI												J J		,	
54040 F !!	4. 550			Sample							=			=	3	13 - #/100m			GR - GRAB
51040 E. coli	1 - Effluent Gross	U	-	Permit Req. Value NODI							<=		130 30DA GEO	<=	240 7 DA GEO	13 - #/100m	LU	01/07 - Weekly	GR - GRAB
				Sample =	=	6.6	=	8.1	26 - lb/d		=		5	-	5	19 - mg/L		01/07 - Weekly	CP - COMPO
80082 BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0		Permit Req.	<=	15.7 MO AVG	<=	23.5 WKLY AVG	26 - lb/d		<=		25 MO AVG	<=	37.5 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24
Submission Note				Value NODI															
If a parameter row does not contain a	ny values for the	Sample	nor Effluent T	rading then	none of	the following f	fialde wi	Il he submitted for the	at row: I In	ite Num	her of Evaureio	ne Fra	guency of Analy	eie and	Sample Type				
Edit Check Errors	iny values for the	Sample	TIOI LIIIGEIR I	rading, then	TIONE OF	the following i	ileius wi	ii be subiliilled for the	at low. On	ito, inuiii	Del OI Excursio	113, 116	quericy of Arialy	sis, and	Sample Type.				
No errors. Comments																			
Comments																			
Attachments																			
						Name									Ту	/ре		Size	
201404_BERRYTOWN_OverflowReport.	pdf														pdf			85538	
BTOWN_COVER042014.pdf															pdf			16896	

24527

34400

pdf

pdf

BERRYTOWN WQTC MSD

User: kevin.ries@louisvillemsd.org

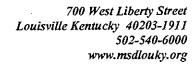
Date/Time:

2014-05-23 08:17 (Time Zone: -04:00)

Name: Kevin Ries

E-Mail: kevin.ries@louisvillemsd.org

Berrytown		Report for	Apr-14		Γot. Exc.=	0	_						
Tot. Flow=	5.47222		Concentr				Pounds						
Date	Flow	TSS	BOD	NH3	Ecoli	TSS	BOD	NH3	Tot. Phos.	D.O.	p.H.	TRC	Tot. N
4/1/14	0.145	5	5	0.17		6.034	6.034	0.205	1.07	11	7	0.01	9.45
4/2/14	0.135				1					10	6.8	0.01	
4/3/14	0.161									11	6.7	0.01	
4/4/14	0.037											0.01	
4/5/14	0.265											0.01	
4/6/14	0.319									11	6.8	0.01	
4/7/14	0.184									11	7.1	0.01	
4/8/14	0.328										7.1	0.01	
4/9/14	0.300									8.6	7.2	0.01	
4/10/14	0.235	4	4	0.28		7.853	7.853	0.550	0.254	8.8	7.1	0.01	5.54
4/11/14	0.202				3					8.4	7.6	0.01	
4/12/14	0.175									8.1	7.4	0.01	
4/13/14	0.158									8.5	7.3	0.01	
4/14/14	0.158									9.9	7.2	0.01	
4/15/14	0.242	3	4	0.2		6.043	8.058	0.403	0.865	10	7.1	0.01	11.04
4/16/14	0.188				1					10	7	0.01	
4/17/14	0.162									11	6.9	0.01	
4/18/14	0.152									10	6.8	0.01	
4/19/14	0.135									8.9	6.8	0.01	
4/20/14	0.130									9.4	6.9	0.01	
4/21/14	0.113									9.7	6.7	0.01	
4/22/14	0.106	4	5	0.22		3.551	4.439	0.195	1.02	10	6.6	0.01	15.01
4/23/14	0.099				1					9.6	6.6	0.01	
4/24/14	0.097									9.1	6.7	0.01	
4/25/14	0.094									9.3	6.6	0.01	
4/26/14	0.093									8.8	6.6	0.01	
4/27/14	0.101									8.4	6.5	0.01	
4/28/14	0.299									8.2	6.6	0.01	
4/29/14	0.340										7	0.01	
4/30/14	0.321										7	0.01	
5/1/14	_												•
Average	0.182	4	5	0.2	1.32	6	6.596	0.34	0.8	9.55	7	0.01	
Maximum	0.340	5	5	0.3	3.00	8	8.058	0.5	1.1	11.00	8	0.01	
Exceed.	29	0	0	0	0	0	0	0					





April 7, 2014

Mr. Charlie Roth, District Supervisor KY Division of Water Louisville Regional Office 9116 Leesgate Road Louisville, KY 40222-5084

Re: Bypass Report for the: Berrytown WQTC-KPDES Permit: KY0036501

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on April 04, 2014, referencing Work Order 2141473, 2141357, 2141361 & 2141490 as a wet weather discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: The treatment plant experienced a bypass when a heavy rain event caused elevated flows coming into the treatment plant. The total wastewater bypassed 294,840 gallons. The bypass locations are the influent pump station, aeration tanks and clarifiers. This plant is designed for 0.075 MGD. The approximate total plant flow for April 4 cannot be calculated due to flow being too high for the sensor to read. Maximum flow capacity for the flow meter is .430 MGD.
- Period of noncompliance: Starting 02:50 AM on April 04, 2014 and stopping 10:00 PM on April 04, 2014.
- Steps taken or planned to reduce, eliminate and prevent recurrence: If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant.
- Additional comments: Plant is to be eliminated in 2015.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-396-9142 or via email at duane.wright@louisvillemsd.org.

Duane V. Wright

Process Supervisor-Operations

cc: Courtney Seitz, KDEP

Paula Purifoy, MSD

eB File







April 7, 2014

Mr. Charlie Roth, District Supervisor KY Division of Water Louisville Regional Office 9116 Leesgate Road Louisville, KY 40222-5084

Re: Bypass Report for the Starview WQTC – KPDES Permit KY0031712

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on April 04, 2014, referencing Work Order 2141531 as a rain event discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: On April 4, 2014, due to elevated flows in the effluent, the pipe between the clarifiers and the chlorine contact tank was found leaking. Wastewater received preliminary and secondary treatment. Approximately 300 gallons reached waters of the U.S. Total flow for April 4, 2014 cannot be calculated due to the flow being too high for the sensor to read flow. Maximum flow capacity for the flow meter is .438 MGD
- Period of noncompliance: Starting 10:00 AM on April 04, 2014 and stopping 03:00 PM on April 04, 2014.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD is repairing piping between clarifiers and chlorine contact tank.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-396-9142 or via email at duane.wright@msdlouky.org.

Duane V. Wright

Process Supervisor-Operations

cc: Gary Levy, KDEP

Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD

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eB File







DISREV

KPDES #Facility IDWater Quality Treatement CenterReceiving Stream of Treatment CenterRegionKY0036501MSD0209BERRYTOWNFLOYDS FORKCENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to
SMH Sewer Manhole 24012 1203 HEAFER RD CHENOWETH RUN,UPPER DITCH

Activity Code / Description WO# Ref No **Initiated By Disch Status** Initiated Assigned To **Event Date Problem** Result Completed Condition **DISREV:RAIN EVENT** 2141479 4/4/14 9:20 MARKS JR **OPS BSHIFT** BEYOND 04/12/2011 LACK OF UNAUTHORIZED 04/04/14 10:00 DISCHARGE CENTRAL **APPROVED** SYSTEM DISCHAGE - WATERS **DESIGN STORM** CAPACITY

Discharge Reporting:

Discharge Amount:	195,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	PERSONAL HYGIENE PRODUCTS, DEBRIS, SEWAGE & SOLIDS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	TEMPORARY SIGNS POSTED AROUND THE AFFECTED AREA

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'





DISREV

 KPDES #
 Facility ID
 Water Quality Treatement Center
 Receiving Stream of Treatment Center
 Region

 KY0036501
 MSD0209
 BERRYTOWN
 FLOYDS FORK
 CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD0073-LS	1812 N ENGLISH STATION RD	BERRYTOWN	FLOYDS FORK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT	2141467		4/4/14 9:00	MARKS JR	OPS BSHIFT	SUSPECTED	04/04/2014	LACK OF	UNAUTHORIZED	04/04/14 04:15	
DISCHARGE			am		CENTRAL			SYSTEM	DISCHAGE - WATERS	PM	
								CAPACITY			

Discharge Reporting:

Discharge Amount:	10,875 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	TEMPORARY SIGNS POSTED AROUND THE AFFECTED AREA

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'





DISREV

KPDES #Facility IDWater Quality Treatement CenterReceiving Stream of Treatment CenterRegionKY0036501MSD0209BERRYTOWNFLOYDS FORKCENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to
SPL Sewer Treatment Plant MSD0209 1203 HEAFER RD STREAM

Activity Code / Description WO# Ref No Condition Initiated **Initiated By Assigned To Disch Status Event Date Problem** Result Completed DISREV:RAIN EVENT 2141357 4/4/14 2:55 MARKS JR **OPS ASHIFT** DOCUMENTED 02/02/2011 BYPASS AT UNAUTHORIZED 04/04/14 04:45 DISCHARGE WQTC DISCHAGE - WATERS

Discharge Reporting:

Discharge Amount:	62,250 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOLIDS & DEBRIS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	TEMPORARY SIGNS POSTED DUE TO RAIN EVENT

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'





DISREV

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region

KY0036501 (Cont'd) MSD0209 BERRYTOWN FLOYDS FORK CENT

WO# **Initiated By Disch Status Problem** Condition Ref No <u>Initiated</u> **Assigned To Event Date Activity Code / Description** Result Completed 2141361 4/4/2014 **OPS ASHIFT** MARKS JR DOCUMENTED BYPASS AT **DISREV:RAIN EVENT** 02/02/2011 **UNAUTHORIZED** 04/03/14 04:45 DISCHARGE 2:55:00AM WQTC **DISCHAGE - WATERS** PM

Discharge Reporting:

Discharge Amount:	41,750 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'





DISREV

Facility ID KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Region MSD0209 CENT

KY0036501 (Cont'd)

BERRYTOWN

FLOYDS FORK

Activity Code / Description DISREV:RAIN EVENT DISCHARGE

WO# 2141473 Ref No

<u>Initiated</u> 4/4/2014 9:20:00AM

Initiated By OPS BSHIFT CENTRAL

Disch Status Assigned To MARKS JR

DOCUMENTED

Event Date 02/02/2011

Problem BYPASS AT WQTC

Result **UNAUTHORIZED DISCHAGE - WATERS**

Completed 04/04/14 10:00

PM

Condition

Discharge Reporting:

Discharge Amount:	190,000 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	
Clean Up:	MSD CLEANED & SANITIZED THE AREA	
Control Zone:	TEMPORARY SIGNS POSTED	
Impact:	DEBRIS & SOLIDS OBSERVED	
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR	
Public Notification:	TEMPORARY SIGNS POSTED AROUND THE AFFECTED AREA	

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'





DISREV

Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center KPDES# Region MSD0209

KY0036501 (Cont'd)

BERRYTOWN

FLOYDS FORK

CENT

Activity Code / Description DISREV:RAIN EVENT DISCHARGE

WO# Ref No 2141490

<u>Initiated</u> 4/4/2014 9:20:00AM

Initiated By OPS BSHIFT CENTRAL

Assigned To MARKS JR

Disch Status DOCUMENTED

Event Date 02/02/2011 **Problem** BYPASS AT WQTC

Result **UNAUTHORIZED DISCHAGE - WATERS**

Completed 04/04/14 04:45

PM

Condition

Discharge Reporting:

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Discharge Amount:	465 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	
Clean Up:	MSD CLEANED & SANITIZED THE AREA	
Control Zone:	TEMPORARY SIGNS POSTED	
Impact:	PERSONAL HYGIENE PRODUCTS, SEWAGE & SOLIDS OBSERVED	
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR	
Public Notification:	TEMPORARY SIGNS POSTED AROUND THE AFFECTED AREA	

Notifications:

4/4/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
4/4/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'

Total Facilities Printed: 3

Total Work Orders Printed:

6