



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

July 16, 2013

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

**Re: MSD Metro Operations
Lake of the Woods WQTC; KPDES No.: KY0044342
Discharge Monitoring Reports – June 2013**

Dear Ms. Edwards:

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Lake of the Woods WQTC; KPDES No.: KY0044342 for the month of June 2013.

Also attached are a bypass letter and overflow report.

There was one exceedence for total residual chlorine. On June 16, 2013, The sulfur dioxide regulator malfunctioned, which caused the effluent to receive no de-chlorination. The total residual chlorine reading was 2.2, which exceeds the effluent limits. De-chlorination tablets were added to the effluent until the regulator could be replaced. The details of the bypass are noted in the bypass letter dated June 18, 2013, referencing work order #1931518.

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

Sincerely,

Duane V. Wright
Process Supervisor Central Region

DVW/Lake of the Woods 06.13

Enclosures

cc: R. Shaw
T. Singleton



Beneficial Use of Louisville's Biosolids
www.louisvilllegreen.com

DMR Copy of Record

Permit			
Permit #:	KY0044342	Permittee:	LAKE OF THE WOODS WQTC MSD
Major:	No	Permittee Address:	11006 WALBRIDGE CT LOUISVILLE, KY 40299
Permitted Feature:	001 External Outfall	Discharge:	001-2 SANITARY WASTEWATER
Facility:		Facility Location:	LAKE OF THE WOODS WQTC MSD 11006 WALBRIDGE CT LOUISVILLE, KY 40299

Report Dates & Status			
Monitoring Period:	From 06/01/13 to 06/30/13	DMR Due Date:	07/28/13
Status:	NetDMR Validated		

Considerations for Form Completion

Principal Executive Officer			
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
00300	Oxygen, dissolved (DO)	1 - Effluent Gross	0	--	Sample	=	7				=	7				19 - mg/L	29/30 - 29 Per Month	GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI													
00400	pH	1 - Effluent Gross	0	--	Sample	=	7				=	8			12 - SU	27/30 - 27 Per Month	GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM		12 - SU	0	01/30 - Monthly	GR - GRAB	
					Value NODI													
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	1	=	1	26 - lb/d	=	6	=	6	19 - mg/L	01/30 - Monthly	CP - COMPOS	
					Permit Req.	<=	11 30DA AVG	<=	22 DAILY MX	26 - lb/d	<=	30 30DA AVG	<=	60 DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI													
00610	Nitrogen, ammonia total (as N)	1 - Effluent Gross	1	--	Sample	=	0.19	=	0.19	26 - lb/d	=	0.8	=	0.8	19 - mg/L	01/30 - Monthly	CP - COMPOS	
					Permit Req.	<=	1.47 30DA AVG	<=	2.94 DAILY MX	26 - lb/d	<=	4 30DA AVG	<=	8 DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI													
00665	Phosphorus, total (as P)	1 - Effluent Gross	0	--	Sample	=					=	1.5	=	1.5	19 - mg/L	01/30 - Monthly	CP - COMPOS	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS	
					Value NODI													
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.03	=	0.104	03 - MGD							99/99 - Continuous	
					Permit Req.		Req Mon 30DA AVG		Req Mon INST MAX	03 - MGD						0	05/07 - Weekdays	IN - INSTAN
					Value NODI													
X 50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample	=	0.083	=	2.2	19 - mg/L						01/01 - Daily	GR - GRAB	
					Permit Req.	<=	.011 30DA AVG	<=	.019 DAILY MX	19 - mg/L	2	01/30 - Monthly	GR - GRAB					
					Value NODI													
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample	=	10	=	10	13 - #/100mL						01/30 - Monthly	GR - GRAB	
					Permit Req.	<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	0	01/30 - Monthly	GR - GRAB					
					Value NODI													
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	1	=	1	26 - lb/d	=	4	=	4	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	11 30DA AVG	<=	22 DAILY MX	26 - lb/d	<=	30 30DA AVG	<=	60 DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					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 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
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

Comments
See cover letter for explanation of exceedances

Attachments		
Name	Type	Size
LOW_SO2_bypass06172013_.pdf	pdf	33790
LakeOwoods062013_cover.pdf	pdf	19233
LakeOwoods062013_MOR.pdf	pdf	22136

Report Last Saved By

LAKE OF THE WOODS WQTC MSD

User: wrightd

Date/Time:

2013-07-24 12:55 (Time Zone: -04:00)

Name: Duane Wright

E-Mail: duane.wright@louisvillemmsd.org

Lake of the Woods		Report for	Jun-13			Tot. Exc.=	0						
Tot. Flow=	0.921	Concentrations											
Date	Flow	TSS	BOD	NH3	Fecal	TSS	BOD	NH3	Tot. Phos.	D.O.	p.H.	TRC	
6/1/13	0.031									8.5	8.3	0.01	
6/2/13	0.029									8.6	8.4	0.01	
6/3/13	0.029	6	4	0.78		1.441	0.960	0.187	1.47	8.3	7.9	0.01	
6/4/13	0.024				10					8.3	7.8	0.01	
6/5/13	0.018									8.1	7.6	0.01	
6/6/13	0.023									8.3	7.6	0.01	
6/7/13	0.020									8.4	7.7	0.01	
6/8/13	0.021									8	7.2	0.01	
6/9/13	0.021									8.1	7.4	0.01	
6/10/13	0.024									8.2	6.8	0.01	
6/11/13	0.030									8	6.9	0.01	
6/12/13	0.027									7.8	6.5	0.01	
6/13/13	0.023									7.7	6.7	0.01	
6/14/13	0.020									8.4	7.1	0.01	
6/15/13	0.025									8.4	7.1	0.01	
6/16/13	0.023									8.4		2.2	
6/17/13	0.028									7.9	6.9	0.01	
6/18/13	0.056									7.8	7.7	0.01	
6/19/13	0.032									7.8	7.7	0.01	
6/20/13	0.024									7.9		0.01	
6/21/13	0.021									8.2		0.01	
6/22/13	0.019									7.8	7.4	0.01	
6/23/13	0.018										7.2	0.01	
6/24/13	0.019									7.7	7.2	0.01	
6/25/13	0.019									8.7	7.3	0.01	
6/26/13	0.037									7.9	6.5	0.01	
6/27/13	0.104									7.2	7.9	0.01	
6/28/13	0.062									7.5	8	0.01	
6/29/13	0.036									7.6	7.6	0.01	
6/30/13	0.030									7.7	7.4	0.01	
7/1/13													
Average	0.030	6	4	0.8	10.00	1	0.960	0.19	1.5	8.04	7	0.08	
Maximum	0.104	6	4	0.8	10.00	1	0.960	0.2	1.5	8.70	8	2.20	
Exceed.	3	0	0	0	0	0	0	0					



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June 18, 2013

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

Re: Bypass Report for the Lake of the Woods WQTC – KPDES Permit KY0044342

Dear Mr. Roth:


This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on June 16, 2013, referencing Work Order 1931518 as a dry 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: A malfunction of the sulfuer dioxide regulator caused the chemical to not feed properly . This resulted in the effluent not receiving dechlorination. Approximately 888 gallons received full lagoon treatment except for the dechlorination.
- Period of noncompliance: Starting 09:00 AM on June 16, 2013 and stopping 10:04 AM on June 16, 2013.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD personnel replaced regulator.

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.

Sincerely,



Duane V. Wright
Process Supervisor-Operations

cc: Courtney Seiz, KDEP
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD
eB File





Louisville and Jefferson County Metropolitan Sewer District
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June 19, 2013

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

Re: Bypass (Blending) Report for the Jeffersontown WQTC – KPDES Permit KY0025194

Dear Mr. Roth:

In accordance with 401 KAR 5:065, MSD is providing this letter as a written report of the bypass (blending) event that occurred at the Jeffersontown Water Quality Treatment Center (WQTC). The bypass started at 06:29 PM on June 17, 2013 and stopped at 05:26 AM on June 18, 2013.

Mitigation activities to minimize the extent and impact of the discharge included maximization of plant peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to blending with secondary effluent before receiving UV disinfection, and then being discharged through the permitted outfall. The cause of the bypass (blending) event was due to significant precipitation in the service area. The bypassed (blended) effluent entered Chenoweth Run at mile point 5.3.

In the table listed below is the total number of gallons of wastewater by calendar day that was bypassed (blended) around the secondary treatment of the Jeffersontown WQTC.

<u>Date</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Total Plant Flow (Vol)</u>	<u>Peak Plant Rate</u>	<u>Total Blended Flow (Vol)</u>
June 17 2013	06:29 PM	11:59 PM	4,298 MG	13.370 MGD	0.194534 MG
June 18 2013	12:00 AM	05:26 AM	5,275 MG	10.401 MGD	0.009092 MG

