



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

April 20, 2015

Cheryl Edwards  
DMR Coordinator  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

**Re: MSD Metro Operations**  
**Timber Lake WQTC; KPDES No.: KY 0043087**  
**Discharge Monitoring Report for March 2015**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Timber Lake WQTC; KPDES No.: KY0043087 for the month of March.

Included are the bypass and overflow reports for the month of March.

Due to the plant receiving stream flooding and surcharging our chlorine contact channel and effluent weir from March 15<sup>th</sup> through March 20<sup>th</sup>, we were unable to take composite samples during the second and third sampling period of March. However, we were able to obtain grab samples for effluent D.O. and pH. We resumed sampling during the fourth week of March.

If you have any questions concerning the attached DMRs, please contact me at (502) 540-6031.

Sincerely,

A handwritten signature in black ink, appearing to read "John Kessel", written over a horizontal line.

John Kessel  
Process Supervisor, West region

JK/ TimberLake 3/15

Enclosures

CC T. Singleton  
R. Shaw  
C.Roth



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

DMR Copy of Record

Permit

Permit #:

KY0043087

Major:

No

Permitted Feature:

001  
External Outfall

Permittee:

TIMBERLAKE WQTC MSD

Permittee Address:

5504 TIMBER RIDGE RD  
PROSPECT, KY 40059

Discharge:

001-2  
MUNICIPAL DISCHARGE

Facility:

TIMBERLAKE WQTC MSD

Facility Location:

5504 TIMBER RIDGE RD  
PROSPECT (JEFFERSON,KY), KY 40059

Report Dates & Status

Monitoring Period:

From 03/01/15 to 03/31/15

DMR Due Date:

04/28/15

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Greg

Last Name:

Hetizman

Title:

Exec Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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Code	Parameter	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
	Name					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 Gross0		--	Sample						=	7					19 - mg/L	0	26/30 - 26 Per Month	GR - GRAB
					Permit Req.						>=	7 INST MIN					19 - mg/L		01/07 - Weekly	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross0		--	Sample						=	6			=	8	12 - SU	0	26/30 - 26 Per Month	GR - GRAB
					Permit Req.						>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross0		--	Sample	=	11	=	12	26 - lb/d			=	15	=	16	19 - mg/L	0	02/30 - Twice Per Month	CP - COMPOS
					Permit Req.	<=	50 30DA AVG	<=	75 DAILY MX	26 - lb/d			<=	30 30DA AVG	<=	45 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross0		--	Sample								=	21	=	24	19 - mg/L	0	02/30 - Twice Per Month	CP - COMPOS
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross1		--	Sample															
					Permit Req.	<=	3.3 30DA AVG	<=	5 DAILY MX	26 - lb/d			<=	2 30DA AVG	<=	3 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI		9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period				
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross2		--	Sample	=	0.3	=	0.3	26 - lb/d			=	0.4	=	0.4	19 - mg/L	0	02/30 - Twice Per Month	CP - COMPOS
					Permit Req.	<=	8.3 30DA AVG	<=	12.5 DAILY MX	26 - lb/d			<=	5 30DA AVG	<=	7.5 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross0		--	Sample								=	0.6	=	0.6	19 - mg/L	0	02/30 - Twice Per Month	CP - COMPOS
					Permit Req.								<=	1 30DA AVG	<=	2 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross0		--	Sample	=	0.258	=	1.616	03 - MGD								0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon 30DA AVG		Req Mon INST MAX	03 - MGD									01/07 - Weekly	CN - CONTIN
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross0		--	Sample								<	0.01	<	0.01	19 - mg/L	0	26/30 - 26 Per Month	GR - GRAB
					Permit Req.								<=	.011 30DA AVG	<=	.019 DAILY MX	19 - mg/L		01/07 - Weekly	GR - GRAB
					Value NODI															

51040	E. coli	1 - Effluent Gross	0	--	Sample									=	8	=	59	13 - #/100mL	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.									<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL			
					Value NODI																
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	4.6	=	5	26 - lb/d	=	6	=	6	=	6	19 - mg/L	0	02/30 - Twice Per Month	CP - COMPOS	
					Permit Req.	<=	16.7 30DA AVG	<=	25 DAILY MX	26 - lb/d	<=	10 30DA AVG	<=	15 DAILY MX	<=	15 DAILY MX	19 - mg/L				
					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**

Name	Type	Size
T-lake_bypass_ltr.pdf	pdf	40662
T-LAKESTOPLTR03242015.pdf	pdf	43309
Timberlake_MOR_032015.pdf	pdf	31138
20153_Timberlake_OverflowReport.pdf	pdf	74519
Timberlake_Cover_032015.pdf	pdf	57247

**Report Last Saved By**

**TIMBERLAKE WQTC MSD**

User:kevin.ries@louisvillemasd.org

Name:Kevin Ries

E-Mail:kevin.ries@louisvillemasd.org

Date/Time:

2015-04-23 13:25 (Time Zone: -04:00)

Timberlake

Timberlake	Report for	Mar-15		Tot. Exc.=		0 (Influent data below.)											
Tot. Flow=	6.44832	Concentrations		Pounds													
Date	Flow	TSS	BOD	NH3	ECOLI	TSS	BOD	NH3	Tot. Phos.	Tot. N	TSS R	BOD R	D.O.	p.H.	TRC		
3/1/15	0.097	13	6	0.39		10.505	4.848	0.315	0.564	18.310	0.94	0.96	9.8	6.8	0.01		
3/2/15	0.083				1								10	6.9	0.01		
3/3/15	0.108												10	7.1	0.01		
3/4/15	0.220												10	6.5	0.01		
3/5/15	0.130												10	6.5	0.01		
3/6/15	0.108												9.1	6.7	0.01		
3/7/15	1.189												9	6.8	0.01		
3/8/15	0.762												10	6.9	0.01		
3/9/15	0.090												9.5	6.8	0.01		
3/10/15	0.073												10	7.1	0.01		
3/11/15	0.071												10	7.6	0.01		
3/12/15	0.081												10	7.7	0.01		
3/13/15	0.784												10	7.6	0.01		
3/14/15	1.616												7	6.1	0.01		
3/15/15																	
3/16/15																	
3/17/15																	
3/18/15																	
3/19/15																	
3/20/15																	
3/21/15	0.162												7.2	7.3	0.01		
3/22/15	0.095												7.1	7	0.01		
3/23/15	0.081												7.3	7.1	0.01		
3/24/15	0.087												7.5	7	0.01		
3/25/15	0.088	16	6	0.34		11.743	4.404	0.250	0.577	24.310	0.96	0.97	9.5	7.2	0.01		
3/26/15	0.097				59								9.3	7.4	0.01		
3/27/15	0.085												9.6	7.2	0.01		
3/28/15	0.082												9.5	7.1	0.01		
3/29/15	0.095												9.6	7.2	0.01		
3/30/15	0.079												9.7	6.2	0.01		
3/31/15	0.087												9.100	6.700	0.010		
Average	0.258	15	6	0.4	7.68	11	4.626	0.28	0.6	21.31	95%	96%	9.19	7	0.01		
Maximum	1.616	16	6	0.4	59.00	12	4.848	0.3	0.6	24.31			10.00	8	0.01		
Exceed.	5	0	0	0	0	0	0	0			0	0					
		0	0	0	0	0	0	0									



700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
www.msdlouky.org

March 24, 2015

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

**Re: Bypass Report for the: Timberlake WQTC- KPDES Permit: KY0043087**

Dear Mr. Roth:


This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on March 16, 2015, referencing Work Order 2325628 as a wet weather bypass. 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: UPDATE: This treatment facility is bypassing chlorine and disinfection treatment processes due to the Ohio River being in flood stage and completely submerging the facility's chlorine contact tank. All bypassed volume has received full treatment except for disinfection and dechlorination. Due to the levels of the River because of the flood stage, the bypass is ongoing. The bypass stopped at 2:00 pm on March 20, 2015. Approximately 364,000 gallons bypassed.
- Period of noncompliance: Starting 06:00 AM on March 16, 2015 and stopping 02:00 PM on March 20, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: The plant is scheduled to be eliminated before January 1, 2016..
- Additional comments: This bypass is still ongoing. Once the river elevation decreases and the chlorine contact is no longer submerged, we will submit a follow up letter with the bypassed volume and the end time for the bypass.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5856, my cell phone at (502)-396-9142 or via email at [duane.wright@louisvillemisd.org](mailto:duane.wright@louisvillemisd.org).

Sincerely,

  
Duane V. Wright  
Process Supervisor-Operations

cc: Courtney Seitz, KDEP  
Paula Purifoy, MSD





Report Selections: Period: 03/01/2015 00:00 thru 03/31/2015 23:59, treatment Plant: MSD0293 TIMBERLAKE, 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
KY0043087	MSD0293	TIMBERLAKE	HARRODS CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0293	5504 TIMBER RIDGE DR		HARRODS 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	2325628		3/16/15 6:00 am	MARKS JR	OPS BSHIFT EAST	BEYOND APPROVED DESIGN STORM	03/16/2015	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	03/20/15 02:00 PM	

**Discharge Reporting:**

Discharge Amount:	364,000 GAL
Cause:	Rain event caused River to rise causing contact chamber to be submerged under water
Clean Up:	Contractor cleaned CL2 tank
Control Zone:	temporary signs posted
Impact:	contact chamber under water
Repair:	Site found during rain event recon- will monitor & evaluate for repair
Public Notification:	MSD used temporary signs to warn public

**Notifications:**

3/16/15 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemisd.org, Sayre.Dennis@epamail.epa.gov'
3/16/15 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemisd.org, Sayre.Dennis@epamail.epa.gov'

**Total Facilities Printed: 2****Total Work Orders Printed: 2**



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www.msdlouky.org

March 17, 2015

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

**Re: Bypass Report for the: Timberlake WQTC- KPDES Permit: KY0043087**


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- Period of noncompliance: Starting 06:00 AM on March 16, 2015 and stopping AM on , 20 .
- Steps taken or planned to reduce, eliminate and prevent recurrence: The plant is scheduled to be eliminated before January 1, 2016..
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Sincerely,  
  
Duane V. Wright  
Process Supervisor-Operations

cc: Courtney Seitz, KDEP  
Paula Purifoy, MSD  
eB File





Initiated Mar 01, 2015 12:00 AM thru Mar 31, 2015 11:59 PM

Report Selections: Period: 03/01/2015 00:00 thru 03/31/2015 23:59, treatment Plant: MSD0293 TIMBERLAKE, 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
KY0043087	MSD0293	TIMBERLAKE	HARRODS CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SND Sewer Node	107555-T	8900 U S HIGHWAY 42		HARRODS 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	2333215		3/31/15 12:10 pm	SINGLETON	OPS BSHIFT CENTRAL	REPAIRED - ISSUE RESOLVED	04/08/2015	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	03/31/15 01:00 PM	

**Discharge Reporting:**

Discharge Amount:	250 GAL
Cause:	FORCE MAIN BREAK
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED
Impact:	SEWAGE OBSERVED
Repair:	CONTRACTOR REPAIRED LINE
Public Notification:	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA

**Notifications:**

4/11/15 1:01 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org'
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