



Metropolitan Sewer District

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

December 20, 2012

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 November 2012**

Dear Ms. Edwards:

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Timber Lake WQTC; KPDES No.: KY0043087 for the month of November 2012.

There were three exceedences for CBOD this month. At this time, we are not certain of the cause of the elevated CBOD results. Our process control data of this plant indicated the pounds was not calculating properly indicating MCRT days the same as sludge age. Corrections to the calculations on our process control spreadsheet have been made. MSD's laboratory personnel are currently investigating their CBOD testing process. As a precaution, we cleaned the chlorine contact tank, replaced sampler tubing and container.

There was one exceedence for phosphorus this month. We are experiencing elevated influent Total Phosphorus concentrations in excess of 30mg/l. We have optimized the sodium aluminate chemical usage at this time. We have already conducted sampling sewer lines upstream of Timberlake WQTC to identify the source of elevated Total Phosphorus. We will continue to do so until a source is found.

Also attached is a bypass letter and an overflow report.

If you have any questions concerning the attached DMRs, please contact me at (502) 587-5832.

Sincerely,

Richard Mills
Process Supervisor of Metro Operations
RM/ Timber Lake 11/12
Enclosures

cc: T. Singleton/ R. Shaw



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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: CEDAR CREEK WQTC
ADDRESS: 8405 CEDAR CREEK RD
LOUISVILLE, KY 40211
FACILITY: TIMBERLAKE WQTC MSD
LOCATION: TIMBER RIDGE DR HWY 42
PROSPECT, KY 40059

KY0043087	001-2
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 40211
MINOR (SUBR LV) JEFFE
MUNICIPAL DISCHARGE
External Outfall

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2012	TO 11/30/2012

ATTN: DENNIS THOMASSON, SR METRO OPS

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oxygen, dissolved (DO) 00300 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	8	*****	*****		0	1/1	GR
	PERMIT REQUIREMENT				7 INST MIN			mg/L		Weekly	GRAB
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	8	*****	9		0	1/1	GR
	PERMIT REQUIREMENT				6 MINIMUM		9 MAXIMUM	SU		Weekly	GRAB
Solids, total suspended 00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	9	27		*****	13	37		0	1/7	CP
	PERMIT REQUIREMENT	50 30DA AVG	75 DAILY MX	lb/d	*****	30 30DA AVG	45 DAILY MX	mg/L		Weekly	COMP24
Nitrogen, total 00600 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	26	33		0	1/7	CP
	PERMIT REQUIREMENT				*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
Nitrogen, ammonia total (as N) 00610 1 1 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	3.3 30DA AVG	5 DAILY MX	lb/d	*****	2 30DA AVG	3 DAILY MX	mg/L		Weekly	COMP24
Nitrogen, ammonia total (as N) 00610 1 2 Effluent Gross	SAMPLE MEASUREMENT	0.5	0.9		*****	0.7	1.1		0	1/7	CP
	PERMIT REQUIREMENT	8.3 30DA AVG	12.5 DAILY MX	lb/d	*****	5 30DA AVG	7.5 DAILY MX	mg/L		Weekly	COMPOS
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	1	6		1	1/30	CP
	PERMIT REQUIREMENT	*****	*****	*****	*****	1 30DA AVG	2 DAILY MX	mg/L		Weekly	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>Greg C. Hartman</i> Executive Director TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Richard W. Mills</i> SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE
			502-540-6000	12-12-2012	
			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Parameter 00610 - 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.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: CEDAR CREEK WQTC
ADDRESS: 8405 CEDAR CREEK RD
LOUISVILLE, KY 40211
FACILITY: TIMBERLAKE WQTC MSD
LOCATION: TIMBER RIDGE DR HWY 42
PROSPECT, KY 40059
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0043087	001-2
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 40211
MINOR (SUBR LV) JEFFE
MUNICIPAL DISCHARGE
External Outfall

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2012	TO 11/30/2012

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.083	0.100		*****	*****	*****	*****	0	ENT	ENT
	PERMIT REQUIREMENT	Reg. Mon. 30DA AVG	Reg. Mon. INST MAX	MGD	*****	*****	*****	*****		Weekly	CONTIN
Chlorine, total residual 50060 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	40.010	40.010		0	1/1	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	.011 30DA AVG	.019 DAILY MX	mg/L		Weekly	GRAB
E. coli 51040 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	5	33		0	1/7	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	130 30DA GEO	240 7 DA GEO	#/100mL		Weekly	GRAB
BOD, carbonaceous, 05 day, 20 C 80082 1 0 Effluent Gross	SAMPLE MEASUREMENT	8.5	21		*****	11	26		2	8/30	CP
	PERMIT REQUIREMENT	16.7 30DA AVG	25 DAILY MX	lb/d	*****	10 30DA AVG	15 DAILY MX	mg/L		Weekly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Greg C. Heitzman Executive Director TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		Richard W. Mills		12-12-2012
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY
		502-540-6000		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Parameter 00610 - 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.

Timberlake

Timberlake	Report for	Nov-12				Tot. Exc.=		Pounds		
Tot. Flow=	2.480	Concentrations				3				
Date	Flow	TSS	BOD	NH3	ECOLI	TSS	BOD	NH3	Tot. Phos.	Tot. N
11/1/12	0.068									
11/2/12	0.079									
11/3/12	0.090									
11/4/12	0.087	37	8	0.67		26.853	5.806	0.486	5.780	33.210
11/5/12	0.073				33					
11/6/12	0.070									
11/7/12	0.082									
11/8/12	0.079									
11/9/12	0.074									
11/10/12	0.090									
11/11/12	0.100	4	14	0.45		3.343	11.702	0.376	0.963	26.010
11/12/12	0.091				16					
11/13/12	0.081									
11/14/12	0.073									
11/15/12	0.079									
11/16/12	0.082									
11/17/12	0.085									
11/18/12	0.087	4	20	0.5		2.897	14.485	0.362	0.846	22.610
11/19/12	0.090				1					
11/20/12	0.073									
11/21/12	0.091								0.375	
11/22/12	0.088								0.428	
11/23/12	0.095								0.302	
11/24/12	0.092								0.329	
11/25/12	0.098	5	26	1.1		4.072	21.172	0.896	0.463	21.910
11/26/12	0.081				1					
11/27/12	0.081		4				2.703			
11/28/12	0.076		11				6.974		0.340	
11/29/12	0.076		4				2.530		0.360	
11/30/12	0.069		4				2.293		0.250	
Average	0.083	12.50	11.38	0.68	4.79	9.29	8.46*	0.53	0.95	25.94
Maximum	0.100	37.00	26.00	1.10	33.00	26.85	21.17	0.90	5.78	33.21
Exceed.	0	0	2	0	0	0	0	0	1	0



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

November 13, 2012

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 November 12, 2012, referencing Work Order 1591713 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 November 12, 2012, Timberlake #2 clarifier bypassed solids. This bypass was caused by a clog in the plant return activated sludge (RAS) line. Approximately 1000 gallons bypassed secondary treatment. However, it did receive full disinfection and dechlorination treatment. Plant design flow is 0.200 mgd. Total daily flow was 0.092 mgd. Maximum peak flow during duration of bypass was 0.131 mgd.
- Period of noncompliance: Starting 11:25 AM on November 12, 2012 and stopping 11:35 AM on November 12, 2012.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD staff stopped flow to plant #2 and unclogged the RAS line.
- Timberlake WQTC is scheduled to be eliminated by December 31, 2015.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5832, my cell phone at (502)-396-4422 or via email at richard.mills@louisvillemsd.org.

Sincerely, *Richard Mills*

Richard W. Mills
Process Supervisor-Operations

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





Report Selections: Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0043087	Facility ID MSD0293	Water Quality Treatment Center TIMBERLAKE	Receiving Stream of Treatment Center HARRODS CREEK	Region EAST
-----------------------------	-------------------------------	---	--	-----------------------

Facility Type SPL Sewer Treatment Plant	Facility ID MSD0293	Facility Address 5504 TIMBER RIDGE DR	If Pump Station, Name of Pump Station:	Receiving Stream HARRODS CREEK	Discharge to GROUND
---	-------------------------------	---	---	--	-------------------------------

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	1591713	11/12/12 11:25 AM	SINGLETON	OPS BSHIFT EAST	REPAIRED - ISSUE RESOLVED	11/12/12	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATER S	11/12/12 11:35 AM	

Spot Inspections:

Discharge Amount:	1,000 GAL
Cause:	SLUDGE RETURN BLOCKED
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS PLACED
Impact:	NO IMPACT OBSERVED
Repair:	SHUT OFF FLOW TO PLANT UNTIL SLUDGE RETURN REPAIRED

Notifications:

11/12/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
11/12/12 11:25 AM	DISPUB	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA

Total Facilities Printed: 3
Total Work Orders Printed: 3