



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

August 18, 2010

Ms. Carolena Bentley
DMR Coordinator
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**Re: MSD Metro Operations
Shadow Wood WQTC; KPDES No.: KY0031810
Discharge Monitoring Reports –July 2010**

Dear Ms. Bentley

Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Shadow Wood WQTC; KPDES No.: KY0031810 for the month of July 2010.

There are no bypass reports or overflow reports for this month.

Although our Ammonia Nitrogen results are back in permit compliance, there are 3 exceedances. 2 BOD exceedances for the month of July. One exceedance was for BOD concentration of monthly average, and one exceedance for BOD concentration of daily maximum. And 1 exceedance for TSS concentration of daily maximum. The TSS exceedance occurred on July 15, 2010. Since the date of this exceedance to current date, all TSS permitted samples have been in compliance. Prior investigation efforts indicate that the source of the BOD problem was caused by lack of Oxygen in the polishing pond. On June 21, 2010, MSD installed an additional aerator in the polishing pond. In addition to this, 28,000 gallons were hauled from the bottom of the polishing pond in efforts to increase dissolved oxygen and establish nitrification in the polishing pond. We will continue to haul from the bottom of the polishing pond and maximize aeration until effluent BOD results and TSS results are back in permit compliance limits.

If you have any questions concerning the attached DMRs, please contact me at (502)587-5856.

Sincerely,

A handwritten signature in black ink that reads "Richard W. Mills". The signature is written in a cursive, flowing style.

Richard W. Mills
Process Supervisor, East Region



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

RWM/Shadow Wood 0710

Enclosures

cc: C. Roth (DOW Louisville)
T. Singleton
R. Shaw

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

NAME SHADOWWOOD WQTC
ADDRESS C/O JOHN KESSEL
1512 KITT LN
LOUISVILLE KY 40241
FACILITY SHADOWWOOD WQTC
LOCATION LOUISVILLE KY 40057
ATTN: MARION M GEE

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

KY0001810
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MINOR
(SUBR LV)

F - FINAL

JEFF

SANITARY WASTEWATER

EFFLUENT

*** NO DISCHARGE () ***

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

FROM

TO

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****		7	*****	*****	(17)	0	7/31	GR	
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	INST MIN	*****	*****	MG/L		WEEKLY	PRD	
PH	SAMPLE MEASUREMENT	*****	*****		6.6	*****	7.4	(12)	0	7/31	GR	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	5.0 MINIMUM	*****	7.0 MAXIMUM	SD		WEEKLY	PRD	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.5	7.4	(25)	*****	26	68	(17)	1	5/31	CP	
00500 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	21.3 30DA AVG	42.6 DAILY MX	LBS/DY	*****	30 30DA AVG	60 DAILY MX	MG/L		WEEKLY	UNFOS	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	0.04	0.06	(25)	*****	0.3	0.4	(17)	0	1/7	CP	
00610 1 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1.42 30DA AVG	2.84 DAILY MX	LBS/DY	*****	2 30DA AVG	4 DAILY MX	MG/L		WEEKLY	UNFOS	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****		*****	0.9	2.2	(17)	0	5/31	CP	
00640 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		WEEKLY	UNFOS	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.019	0.048	(03)	*****	*****	*****		0	CN	CN	
00080 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30DA AVG	REPORT INST MAX	MGD	*****	*****	*****	*****		CONTINUOUS	20	
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	*****		*****	2	2	(15)	0	1/7	GR	
74050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	200 30DA GED	400 7 DA GED	100ML		WEEKLY	PRD	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		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.			Richard Mills			TELEPHONE		DATE		
H.J. Scherlein Jr. Exec. Director								562 540-6000		10	08	26
TYPED OR PRINTED					SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA CODE	NUMBER	YEAR	MO	DAY

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

See cover letter for explanation of Exceedance.

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

NAME SHADOWWOOD WGTG

ADDRESS C/O JOHN KESSEL

5512 HITT LN

LOUISVILLE

FACILITY SHADOWWOOD WGTG

LOCATION LOUISVILLE

ATTN: MARION M GEE

KY 40241

KY 40059

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

KY00031810
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MINOR
(SUBR LV)

F - FINAL

SANITARY WASTEWATER

EFFLUENT

*** NO DISCHARGE ***

JEFF

Form Approved.
OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CO ₂ , CARBONATE/CO ₃ 35 DAY, 20C BOOBE 1 D O EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.72	2.9	(25)	*****	13	25	(19)	2	5/31	CP
	PERMIT REQUIREMENT	7.09 30DA AVG	14.2 DAILY MX	LBS/DY	*****	10 30DA AVG	20 DAILY MX	MG/L		WEEKLY	COMPS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

H. J. Schurdein
Exec. 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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Richard Mills

TELEPHONE

562 546-6600

AREA CODE NUMBER

DATE

10 08 26

YEAR MO DAY

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

See Cover letter for explanation of exceedance.

SHADOW WOOD		Report for	Jul-10		Tot. Exc.=	1 Violation		Conc.	
Tot. Flow=	0.593		Concentrations			Pounds			
Date	Flow	TSS	BOD	NH3	Fecal	TSS	BOD	NH3	T Phos
7/1/10	0.021	16	9	0.34	2	2.802	1.576	0.060	0.556
7/2/10	0.02								
7/3/10	0.022								
7/4/10	0.025								
7/5/10	0.026								
7/6/10	0.013								
7/7/10	0.014								
7/8/10	0.014	18	25	0.22	2	2.102	2.919	0.026	0.525
7/9/10	0.016								
7/10/10	0.018								
7/11/10	0.019								
7/12/10	0.006								
7/13/10	0.048								
7/14/10	0.015								
7/15/10	0.013	68	11	0.39	2	7.373	1.193	0.042	2.22
7/16/10	0.019								
7/17/10	0.027								
7/18/10	0.027								
7/19/10	0.024								
7/20/10	0.028	8				1.868			
7/21/10	0.018								
7/22/10	0.019	21	14	0.28	1	3.328	2.218	0.044	0.637
7/23/10	0.016								
7/24/10	0.022								
7/25/10	0.024								
7/26/10	0.018								
7/27/10	0.007								
7/28/10	0.012		7				0.701		0.368
7/29/10	0.012								
7/30/10	0.011								
7/31/10	0.019								
Average	0.019	26.20	13.20	0.31	1.68	3.49	1.72	0.04	0.86
Maximum	0.048	68.00	25.00	0.39	2.00	7.37	2.92	0.06	2.22
Exceed.	0	1	0	0	0	0	0	0	0