



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

November 17, 2010

Ms. Carolena Bentley
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

RE: Derek Guthrie WQTC, KPDES No: KY0078956
Discharge Monitoring Report
October 2010

Dear Ms. Bentley:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, for the month of October 2010.

Also included in this packet is an overflow report.

There were no exceedances, bypasses for DRG WQTC for the month of October.

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

Sincerely,

A handwritten signature in black ink, appearing to read "JK", is written over a white background.

John Kessel
Process Supervisor, West Region

JMK/West County 1010

Enclosures

cc: C. Roth
T. Singleton
R. Shaw



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

NAME DEREK R. GUTHRIE WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211
FACILITY DEREK R. GUTHRIE WQTC

KY0078956
PERMIT NUMBER

001 2
DISCHARGE NUMBER


MAJOR (SUBR LV)
F - FINAL JEFFE
MUNICIPAL WASTEWATER
EFFLUENT
[] No Discharge

LOCATION LOUISVILLE KY 40272

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
10	10	01		10	10	31

ATTN: DENNIS THOMASSON SR. METRO OPS

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	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			***	6			(19) MG/L	0	01/01	GR	
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	2	*****	*****	(19) MG/L		DAILY	GRAB	
EFFLUENT GROSS VALUE	MEASUREMENT			***	INST MIN							
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	47076	59739	(26) LBS/DY		357	461	(19) MG/L	0	01/01	CP	
00310 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		DAILY	COMPOS	
RAW SEW/INFLUENT	MEASUREMENT											
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2052	3252	(26) LBS/DY		15	25	(19) MG/L	0	01/01	CP	
00310 1 0 1	PERMIT MEASUREMENT	7506 MO AVG	11259 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		DAILY	COMPOS	
EFFLUENT GROSS VALUE	MEASUREMENT											
PH	SAMPLE MEASUREMENT			***	7.1		7.7	(12) SU	0	01/01	GR	
00400 1 0 0	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		DAILY	GRAB	
EFFLUENT GROSS VALUE	MEASUREMENT											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	33374	34946	(26) LBS/DY		251	267	(19) MG/L	0	01/01	CP	
00530 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		DAILY	COMPOS	
RAW SEW/INFLUENT	MEASUREMENT											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	964	1063	(26) LBS/DY		7	8	(19) MG/L	0	01/01	CP	
00530 1 0 1	PERMIT MEASUREMENT	7506 MO AVG	11259 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		DAILY	COMPOS	
EFFLUENT GROSS VALUE	MEASUREMENT											
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	3355	4569	(26) LBS/DY		25	35	(19) MG/L	0	01/01	CP	
00610 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		DAILY	COMPOS	
RAW SEW/INFLUENT	MEASUREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.							TELEPHONE		DATE		
H J SCHARDEIN EXECUTIVE DIRECTOR								502	540-6000	10	11	24
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

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

USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NAME DEREK R. GUTHRIE WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
 4522 ALGONQUIN PKWY
 LOUISVILLE KY 40211
FACILITY DEREK R. GUTHRIE WQTC

KY0078956
 PERMIT NUMBER

0012
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL WASTEWATER
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40272

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
FROM 10	10	01	TO	10	10	31

ATTN: DENNIS THOMASSON SR. METRO OPS

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 1	SAMPLE MEASUREMENT	787	855	(26) LBS/DY		6	7	(19) MG/L	0	01/01	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	3253 MO AVG	4879 MX WK AV	(26) LBS/DY	*****	20 MO AVG	30 MX WK AV	(19) MG/L		DAILY	COMPOS	
NITROGEN, KJELDAHL TOTAL (AS N) 00625 1 0 1	SAMPLE MEASUREMENT	976	993	(26) LBS/DY		7	8	(19) MG/L	0	05/31	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AVG	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		WEEKLY	COMPOS	
PHOSPHORUS, TOTAL (AS P) 00665 1 0 1	SAMPLE MEASUREMENT	269	298	(26) LBS/DY		2.0	2.3	(19) MG/L	0	01/07	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AVG	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		WEEKLY	COMPOS	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 G 0 0	SAMPLE MEASUREMENT	15.75	19.26	(03) MGD				***	0	CN	CN	
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	SAMPLE MEASUREMENT	16.01	19.88	(03) MGD				***	0	CN	CN	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN	
CHLORINE, TOTAL RESIDUAL 50060 1 0 0	SAMPLE MEASUREMENT			***			<0.010	(19) MG/L	0	01/01	GR	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	*****	0.019 DAILY MX	(19) MG/L		DAILY	GRAB	
COLIFORM, FECAL GENERAL 74055 1 0 0	SAMPLE MEASUREMENT			***		2	2	(13) 100ML	0	01/01	GR	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		DAILY	GRAB	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	H J SCHARDEIN EXECUTIVE DIRECTOR							TELEPHONE		DATE		
TYPED OR PRINTED								502	540-6000	10	11	24
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

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

USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

DISCHARGE MONITORING REPORT (DMR)

NAME DEREK R. GUTHRIE WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
 4522 ALGONQUIN PKWY
 LOUISVILLE KY 40211
FACILITY DEREK R. GUTHRIE WQTC

KY0078956
 PERMIT NUMBER

001 2
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL WASTEWATER
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 10	10	01	TO	10	10	31

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	REQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT			***	96			(23) CENT	0	01/31	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT			***	97			(23) CENT	0	01/31	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER						TELEPHONE		DATE				
H J SCHARDEIN EXECUTIVE DIRECTOR						502	540-6000	10	11	24		
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

DISCHARGE MONITORING REPORT (DMR)

NAME DEREK R. GUTHRIE WQTC MSD
 ADDRESS C/O CEDAR CREEK WQTC
 4522 ALGONQUIN PKWY
 LOUISVILLE KY 40211
 FACILITY DEREK R. GUTHRIE WQTC

KY0078956
 PERMIT NUMBER

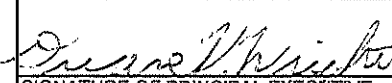
001 R
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 REASONABLE POTENTIAL
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40272
 ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	10	10	01	TO	10	10	31

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				
CHROMIUM ,HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT			***		<0.01	<0.01	(19) MG/L	0	01/31	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	COMPOS	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
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	PERMIT MEASUREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	 H J SCHARDEIN EXECUTIVE DIRECTOR							TELEPHONE		DATE		
TYPED OR PRINTED								502	540-6000	10	11	24
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)								AREA CODE	NUMBER	YEAR	MO	DAY

Name of Sewage Treatment Plant:

West County WTP

Jefferson

Month of:

October

2010

KPDES Permit Number:

KY0078956

Plant Capacity:

30 MGD

Receiving Stream:

Ohio River

Date	Total Flow (MG)	Raw Sewage		pH		Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge			Aeration Basin					Dig Sludge		Final							
		Grit Removed (cu ft)	Screenings (cu ft)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Million Gal/Day	MLSS mg/L X 1000	WAS	Gal/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	MLSS (mg/L) X 1000 #1	MLVSS (mg/L) X 1000 #1	30 min. Setts.	SVI	% Solids	Phosphorus (mg/L)	TKN (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Fecal Coliform Col./100ml		
1	15.24			7.5	7.3					6.0			262		4				413		11		1820				980	860	90.0	0.09				0.01	5.20	1		
2	15.93			7.4	7.3					6.0			214		7			663		17		2010					1110	850	80.0	0.07				0.01	5.40	2		
3	15.69			7.4	7.1					6.0			224		6			198		8		1960					1150	900	90.0	0.08				0.01	5.40	1		
4	16.11			7.5	7.4					6.0			214		7			411		11		1980					990	820	80.0	0.08				0.01	5.40	2		
5	15.55			7.4	7.2					6.0			254		4			389		12		2590					1170	980	70.0	0.06	1.62			0.01	5.30	1		
6	15.38			7.4	7.3					6.0			252		8			214		7		2040					1040	880	80.0	0.08				0.01	5.60	1		
7	15.92			7.6	7.3					6.0			238		8			210		10		1900					1020	790	70.0	0.07		7.00		0.01	5.60	3		
8	15.33			7.6	7.4					6.0			264		8			899		16		1970					1230	970	70.0	0.06				0.01	5.80	2		
9	15.17			7.5	7.1					6.0			256		2			194		9		1940					1080	910	80.0	0.07				0.01	5.60	1		
10	15.61			7.6	7.2					6.0			258		9			486		27		2030					1030	890	70.0	0.07				0.01	6.20	1		
11	15.91			7.5	7.4					6.0			232		11			195		18		1910					1030	880	70.0	0.07				0.01	7.70	5		
12	15.26			7.2	7.2					6.0			372		8			410		13		1920					1050	890	70.0	0.07	2.34	7.80		0.01	6.30	3		
13	15.60			7.4	7.4					6.0			226		9			557		48		2030					970	840	70.0	0.07				0.01	6.60	7		
14	16.11			7.6	7.5					6.0			264		10			483		43		1950					980	730	70.0	0.07				0.01	6.90	1		
15	15.52			7.4	7.6					6.0			246		7			795		18		1950					1050	860	70.0	0.07				0.01	6.10	6		
16	15.47			7.5	7.1					6.0			246		8			600		17		2060					950	710	70.0	0.07				0.01	6.20	5		
17	15.79			7.4	7.2					6.6			350		7			240		10		1960					1110	810	80.0	0.07				0.01	6.20	3		
18	15.85			7.4	7.2					6.0			246		7			486		16		2200					1070	920	90.0	0.08				0.01	6.30	1		
19	15.81			7.8	7.5					6.0			258		7			241		7		2120					1070	890	80.0	0.08	2.06	7.20		0.01	5.90	3		
20	15.43			7.5	7.4					6.0			246		6			353		9		2190					1080	930	90.0	0.08				0.01	5.80	1		
21	15.74			7.7	7.3					6.0			280		7			459		44		2240					1188	960	90.0	0.08				0.01	5.80	2		
22	15.29			7.6	7.4					6.0			276		7			308		33		2100					1260	970	90.0	0.07				0.01	5.90	2		
23	15.61			7.5	7.2					6.0			234		7			209		6		2230					1130	840	70.0	0.05				0.01	5.60	2		
24	16.05			7.5	7.2					6.0			256		7			218		8		2120					1230	930	80.0	0.07				0.01	5.80	1		
25	16.09			7.4	7.5					6.0			208		7			208		7		2210					1240	1000	80.0	0.06				0.01	5.80	2		
26	18.37			7.5	7.4					6.0			278		8			167		7		2220					1250	1040	80.0	0.06	1.94			0.01	5.80	1		
27	19.37			7.5	7.2					6.0			192		8			185		7		2760					1110	930	80.0	0.07			5.90	0.01	4.60	1		
28	17.44			7.5	7.4					6.0			190		8			172		9		2100					1110	810	80.0	0.07				0.01	4.90	4		
29	16.26			7.4	7.4					6.0			212		7			217		10		2150					2230	1740	80.0	0.04				0.01	5.60	1		
30	16.76			7.6	7.3					6.0			290		6			222		8		1880					1000	820	80.0	0.08				0.01	5.90	1		
31	16.62			7.7	7.7					6.0			232		8			261		12		2190					1150	950	80.0	0.07			7.60	0.01	6.10	5		
Total	495.40	0	0																		0.0		0.0															
Avg.	16.01			7.5	7.3					6.0			251		7						357		15				2088.1							1.99	7.10	0.01	5.84	2

Total Number of Sewer Connections: 0
 Residential Connections: _____
 Commercial Connections: _____
 Industrial Connections: _____
 Sewer Connections X 4 = 0

Industrial Waste Population Equivalent
152480 Flow 280382 BOD 159371 TSS

Operator: Paul Kustes
 Cert. #: #14555
 Phone #: 540-6042



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

KPDES # KY0078956	Facility ID MSD0277	Water Quality Treatment Center DEREK R. GUTHRIE	Receiving Stream of Treatment Center OHIO RIVER	Region WEST
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Facility Type SMH Sewer Manhole	Facility ID 10272	Facility Address 9903 DANIEL DR	If Pump Station, Name of Pump Station:	Receiving Stream LITTLE BEE LICK CREEK	Discharge to DITCH
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<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>
DISDW: DRY WEATHER DISCHARGE	1143224	10/03/10 09:39 AM	KIMBROUGH	KIMBROUGH	REPAIRED - ISSUE RESOLVED	10/03/10	ROOTS	UNAUTHORIZED DISCHARGE - WATERS	10/03/10 10:30 AM	MAIN

Spot Inspections:

Discharge Amount:	17 GAL
Cause:	OBSTRUCTION IN MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE INTO DITCH
Repair:	WORK ORDERS 1143228 AND 1143618 - ROOT CUT AND OPEN MAIN SEWER

Notifications:

10/03/10 09:39 AM	DISPUB	ADVISED CUSTOMER ON SITE
10/05/10 09:48 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov