



MSD

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

December 20, 2007

Ms. Kathy Thurman
Kentucky Division of Water
14 Reilly Road
Frankfort, Kentucky 40601

RE: Hite Creek Wastewater Treatment Plant, KPDES No: KY0022420
Discharge Monitoring Report for November.

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) report for the Hite Creek Wastewater Treatment Plant, for the month of November 2007.

Also included is the 4th quarter Biomonitoring result.

If you have any questions concerning the attached DMR's, please contact me at (502)241-9093.

Sincerely,

John Kessel
Process Supervisor, East Region

JMK/ Hite Creek.1107

Enclosures

cc: C. Roth(DOW Louisville)
E. Brady
T. Singleton
P. Burgin
R. Shaw



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

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

NAME MSD HITE CREEK STP
ADDRESS C/O LOUISVILLE/JEFF CO MSD

1522 ALCONQUIN PKWY.

LOUISVILLE

KY 40211-2497

FACILITY MSD HITE CREEK STP

LOCATION LOUISVILLE

KY 40201

ATTN: ALEX E NOVAK, OPER MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)KY0022420
PERMIT NUMBER001 2
DISCHARGE NUMBER

MAJOR

(SUBR LV)

F - FINAL

MUNICIPAL WASTEWATER
EFFLUENT

*** NO DISCHARGE 1 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)		*****	*****		7.3	*****	*****	(19)		3/2	Cb
DO300 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	7 INST MIN	*****	*****	MG/L		THREE/GRAB WEEK	
EFFLUENT GROSS VALUE		*****	*****		7.5	*****	7.9	(12)		3/2	Cb
DO400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		THREE/GRAB WEEK	
EFFLUENT GROSS VALUE		*****	*****		*****	255.33	292.67	(19)		3/2	Cb
SOLIDS, TOTAL SUSPENDED	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		THREE/COMPOS WEEK	
DO500 1 0 0	SAMPLE MEASUREMENT	107	339	(26)	*****	4.75	7.67	(19)		3/2	Cb
RAW SEW/INFLUENT	PERMIT REQUIREMENT	1501 MD AVG	2252 MX WK AV	LBS/DY	*****	30 MD AVG	45 MX WK AV	MG/L		THREE/COMPOS WEEK	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	579	627	(26)	*****	18.41	21.30	(19)		3/2	Cb
DO600 1 0 0	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		THREE/COMPOS WEEK	
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5	8	(26)	*****	0.13	0.16	(19)		3/2	Cb
NITROGEN, AMMONIA TOTAL (AS N)	PERMIT REQUIREMENT	250 MD AVG	375 MX WK AV	LBS/DY	*****	5 MD AVG	7.5 MX WK AV	MG/L		THREE/COMPOS WEEK	
DO610 1 2 0	SAMPLE MEASUREMENT	*****	*****		*****	0.41	0.90	(19)		3/2	Cb
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		WEEKLY/COMPOS	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Alex Novak

115 S. 2nd St.

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

TELEPHONE

DATE

502
AREA CODE291 4693
NUMBER07
YEAR12
MO20
DAY

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

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

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

NAME

MSD HITE CREEK STP

ADDRESS C/O LOUISVILLE/JEFF CO MSD

4522 ALDONQUIN PKWY

LOUISVILLE

KY 40211-2497

FACILITY MSD HITE CREEK STP

LOCATION LOUISVILLE

KY 40201

ATTN: ALEX E NOVAK, OPER MGR

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

KY0022420

PERMIT NUMBER

001 2

DISCHARGE NUMBER

MAJOR

(SUBR LV)

F - FINAL

MUNICIPAL WASTEWATER
EFFLUENT

*** NO DISCHARGE 1 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.823	6.860	(03)	*****	*****	*****		0	1	C/L
50000 1 0 0	PERMIT REQUIREMENT	REPORT MD AVG	REPORT DAILY MX	MSD	*****	*****	*****	*****		CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	7	28	(13)	0	1/2	C/L
COLORIM. FECAL GENERAL	PERMIT REQUIREMENT	*****	*****	*****	*****	200	400	#/ 30DA GED 7 DA GED 100ML		THREE/DRAW WEEK	
74015 1 0 0	SAMPLE MEASUREMENT	5473	6438	(26)	*****	171.75	210.0	(19)	0	1/2	Cup
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MD AVG	REPORT MX WK AV	MG/L		THREE/COMPOS WEEK	
500. CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	73	164	(26)	*****	2.21	2.33	(19)	0	1/2	C-p
50012 5 0 0	PERMIT REQUIREMENT	500 MD AVG	751 MX WK AV	LBS/DY	*****	10 MD AVG	15 MX WK AV	MG/L		THREE/COMPOS WEEK	
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****		98.6%	*****	*****	(23)	0	1/30	C-1
500. CARBONACEOUS 05 DAY, 20C	PERMIT REQUIREMENT	*****	*****	*****	85 MD AVG	*****	*****	PER-CENT		ONCE/ CALCTD MONTH	
50012 1 0 0	SAMPLE MEASUREMENT	*****	*****		98.1%	*****	*****	(23)	0	1/30	C-1
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	85 MD MIN	*****	*****	PER-CENT		ONCE/ CALCTD MONTH	
500. CARB-5 DAY, 20 DEG C, PERCENT REMVL	SAMPLE MEASUREMENT										
50011 1 0 0	PERMIT REQUIREMENT										
PERCENT REMOVAL	SAMPLE MEASUREMENT										
SOLIDS, SUSPENDED PERCENT REMOVAL	PERMIT REQUIREMENT										
51011 1 0 0	SAMPLE MEASUREMENT										
PERCENT REMOVAL	PERMIT REQUIREMENT										
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.				TELEPHONE		DATE			
2000 B. Smith 115 S. Main						502 1211 9645		07 12 20			
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)

USE MD AVG FOR BOD/ISS REMV; REPT IN MINIMUM COLUMN.

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

NAME MSD HITE CREEK STP
 ADDRESS C/O LOUISVILLE/JEFF CO MSD
 4522 ALBONQUIN PKWY
 LOUISVILLE KY 40211-2497
 FACILITY MSD HITE CREEK STP
 LOCATION LOUISVILLE KY 40201
 ATTN: ALEX E NOVAK, OPER MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR LV)

F - FINAL

METALS/BIO-MONITORING/QUARTERLY
 EFFLUENT

*** NO DISCHARGE 1 1 ***

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			
TOTAL RECOVERABLE	SAMPLE MEASUREMENT	*****	*****		*****	0.0182	0.0582	(19)	0	1/2	Comp
01094 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L			OTRLY COMPOS
EFFLUENT GROSS VALUE											
LEAD	SAMPLE MEASUREMENT	*****	*****		*****	<0.005	<0.005	(19)	0	1/2	Comp
TOTAL RECOVERABLE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L			OTRLY COMPOS
01114 1 0 0											
EFFLUENT GROSS VALUE											
COPPER	SAMPLE MEASUREMENT	*****	*****		*****	<0.002	<0.002	(19)	0	1/2	Comp
TOTAL RECOVERABLE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L			OTRLY COMPOS
01119 1 0 0											
EFFLUENT GROSS VALUE											
TOXICITY, FINAL CONC	SAMPLE MEASUREMENT	*****	*****		*****	*****	<1.0	(26)	0	1/2	Comp
TOXICITY UNITS	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.00 CHRONIC	OTRLY COMPOS			
01403 1 0 0							DAILY MX TOXCTY				
EFFLUENT GROSS VALUE											
MERCURY	SAMPLE MEASUREMENT	*****	*****		*****	0.0000000019	0.000000011	(19)	0	1/2	Comp
TOTAL RECOVERABLE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L			OTRLY GRAB
717(1 1 0 0											
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Exec Director

115 Schenck

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

[Signature]

TELEPHONE

502 241-6095

DATE

07 12 00

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

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

NAME MSD HITE CREEK STP
 ADDRESS C/O LOUISVILLE/JEFF CO MSD
 4522 ALGONQUIN PKWY
 LOUISVILLE KY 40211-2497
 FACILITY MSD HITE CREEK STP
 LOCATION LOUISVILLE KY 40201
 (ATTN: ALEX E NOVAK, OPER MGR)

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

KY0022420
 PERMIT NUMBER

001 R
 DISCHARGE NUMBER

MAJOR
 (SUBR LV)
 F - FINAL

Form Approved.
 OMB No. 2040-0004

JEFF E

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	11	01		07	11	30

FROM

REASONABLE POTENTIAL
 EFFLUENT

*** NO DISCHARGE 1 1 ***

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CYANIDE FREE (AMEN TO CHLORINATION)	SAMPLE MEASUREMENT	*****	*****		*****	.01	.01	(19)	0	1/2	Cup
00712 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		ONCE/MONTH	COMPOS
EFFLUENT GROSS VALUE											
HARDNESS, TOTAL (AS CaCO3)	SAMPLE MEASUREMENT	*****	*****		*****	214	214	(19)	0	1/2	Cup
00910 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		ONCE/MONTH	COMPOS
EFFLUENT GROSS VALUE											
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT	*****	*****		*****	.01	.01	(19)	0	1/2	Cup
01002 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		ONCE/MONTH	COMPOS
EFFLUENT GROSS VALUE											
CADMIUM TOTAL RECOVERABLE	SAMPLE MEASUREMENT	*****	*****		*****	.0002	.0002	(19)	0	1/2	Cup
01112 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		ONCE/MONTH	COMPOS
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Exec Director
 H. J. Sander
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA CODE

NUMBER

YEAR

MO

DAY

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

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: November 2007
 KPDES PERMIT NUMBER KY0022420 PLANT CAPACITY 4.4 MGD RECEIVING STREAM HITE CREEK

KPDOS PERMIT NUMBER				KY0022420				PLANT CAPACITY				4.4 MGD				RECEIVING STREAM				HITE CREEK																			
DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLABLE SOLIDS (mg/L)		DISSOLVED OXYGEN (mg/L)		SUSPENDED SOLIDS (mg/L)		5 DAY CBOD (mg/L)		ACTIVATED SLUDGE		AERATION BASIN				SLUDGE HANDLING				FINAL															
		GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME 30 MIN.	60 MIN.	RAW		HAULED		NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)	Phosphorus mg/L	Cadmium, Total Recoverable	Hardness as CaCO3	Chromium, Hexavalent	Cyanide, Free (Amenable)	Mercury, Total Recoverable		
																		GAL/DAY X 1000	MLSS X 1000							GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% VOLATILE SOLIDS WITHDRAWN GALLONS X 1000										
1	3.84			7.3		18.0		0.0				225		4	203		2	1.77	10.28	101.9	5.7	3.92		170						37.8	0.1	1							
2	3.23	36	36	7.6	7.6	20.0		0.0		9.0								2.1	8.55	98.6	4.8	3.895		180						107.1									
3	3.51			7.1		15.0		0.0										2.36	8.53	39.4	6.7	3.58		200															
4	3.41			7.2		20.0		0.0				235		4	184		3	2.3	7.64		6.2	4.61		200						37.8	0.1	21							
5	3.74			7.4	7.9	15.0		0.0		7.8		268		3	243		2	1.79	15.62	82.1	3.5	4.43	3	200				0.45	52	94.5	0.1	52							
6	3.76	36	36	7.3	7.7	15.0		0.0		7.2								2.14	13.84	98.6	4.1	4.57		200						201.6									
7	3.55			7.6	7.6	16.0		0.0		10.5								2.18	10.84	98.6	4.7	3.91		200						56.7									
8	4.31			7.5		15.0		0.0				220		4	128		2	1.23	10.58	98.6	4.1	3.615		200						94.5	0.1	3							
9	3.23	36	36	7.3	7.7	15.0		0.0		8.4								1.15	13.9	78.8	4.4	3.885		200						94.5									
10	3.24			7.7		12.0		0.0										1.2	12.06	42.7	8.2	3.95		190						6.3									
11	3.39			7.3		14.0		0.0				210		3	153		2	1.31	8.62		5.8	4.505		210						25.2	0.1	83							
12	2.88			7.5	7.5	15.0		0.0		9.2		234		4	159		2	1.4	15.76		65.7	4	4.555		190					88.2	0.1	87							
13	3.78	36	36	7.3	7.8	13.0		0.0		7.3								1.09	13.34	78.8	3.7	4.395	3.03	210					1.02	64	107.1								
14	3.89			7.5		13.0		0.0										1.18	13.93	85.4	4.2	4.125		200						119.7									
15	3.53			7.8		13.0		0.0				210		4	145		3	1.18	12.51	65.7	5.2	3.575		170						94.5	0.1	1							
16	3.1	36	36	7.3	7.6	16.0		0.0		7.8								1.21	14.64	65.7	5.1	3.355		150						50.4									
17	3.03			7.2		14.0		0.0										1.21	7.32	48	7	3.02		150															
18	3.15			7.0		15.0		0.0				308		4	191		2	1.24	8.62		7	3.53		170						6.3	0.28	3							
19	3.27			8.2	7.7	18.0		0.0		7.7		276		4	220		2	1.17	8.6	101.9	5.1	4.185		200						126	0.1	3							
20	3.41	36	36	7.4	7.5	17.0		0.0		7.6								1.06	10.5	98.6	3.8	3.575		170						119.7									
21	4.87			7.6		15.0		0.0										1.14	8.62	65.7	3.6	4.185		110						100.8									
22	4.44			7.4		12.0		0.0										1.05	14.47	65.7	6.4	3.27		150															
23	3.9	36	36	8.3		18.0		0.0										1.24	9.7	65.7	5.4	2.995		150						37.8									
24	3.33			7.6		18.0		0.0										1.15	6.06	39.4	5.8	2.93		130						107.1									
25	3.67			7.4		17.0		0.0				444		8	188		2	1.14	8.49	39.4	6.3	3.245		140						31.5	0.1	3							
26	6.86			8.2	7.8	13.0		0.0		8.0		268		8	119		2	2	9.8	65.7	3.2	3.045	2.225	150				1.1	68	113.4	0.28	3							
27	5.4	36	36	7.9	7.8	10.0		0.0		8.4		166		7	128		3	1.75	8.33	98.6	5.7	2.895		150						126	0.1	3							
28	4.85			7.3	7.7	17.0		0.0		8.7								2.85	9.84		5.2	2.835		150						44.1									
29	4.19			7.4		15.0		0.0										2.38	8.93		6.6	3.43		150						63									
30	4.13	36	36	7.3		19.0		0.0										2.37	8.09	59.2	6.4	3.715		170						6.3									
31																																							
Tot.	114.7	324	324															47.14												2098									
Avg.	3.823	36	36	7.5	7.7	15.4				8.3		255		5	172		2	1.571	10.47	73.86	5.263	3.724	2.752	173.7				0.857	61.33	77.7	0.13	7				0.01	0.01		

RESIDENTIAL COMMERCIAL INDUSTRIAL
 TOTAL NUMBER OF SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION
 SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

INDUSTRIAL WASTE POPULATION EQUIVALENT
 36410 FLOW 32212 CBOD 38767 TSS

EARL DUNN 7626
 OPERATOR CERT. NO.
 502-241-9310
 PLANT TELEPHONE