



MSD

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

August 27, 2008

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

RE: Cedar Creek Treatment Plant, KPDES No: KY0098540
Discharge Monitoring Report
July 2008

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek Wastewater Treatment Plant, KPDES No.: KY0098540 for the month of July 2008. Also attached are the Discharge Reports for July 2008 and a letter for a Bypass that occurred July 6, 2008.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7695.

Sincerely,

James E. Porter Jr.
Process Supervisor Central Region

JEP/Cedar Creek 0708.doc

Enclosures

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



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

ERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME MSD CEDAR CREEK STP
 ADDRESS C/O CEDAR CREEK STP
 8405 CEDAR CREEK RD
 LOUISVILLE KY 40211
 FACILITY MSD CEDAR CREEK STP
 LOCATION LOUISVILLE KY
 ATTN: DENNIS THOMASSON, SR METRO OPS

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

KY0098540			001 2		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
08	07	01	08	07	31

MAJOR (SUBR LV)
 F - FINAL
 NEW EXPANSION
 EFFLUENT
 *** NO DISCHARGE [] ***
 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)	*****	*****			7.9	*****	*****	(19)	φ	3/1	GOOD
00300 1 0 0	PERMIT REQUIREMENT	*****	*****	****	7.0	*****	*****			THREE / GRAB	
EFFLUENT GROSS VALUE				****	INST MIN					WEEK	
PH	*****	*****			6.8	*****	*****	(12)	φ	3/1	GOOD
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	****	6.0	*****	9.0			THREE / GRAB	
EFFLUENT GROSS VALUE				****	MINIMUM		MAXIMUM			WEEK	
SOLIDS, TOTAL SUSPENDED	4100	5464	(26)		*****	164	179	(19)	φ	3/1	GOOD
00530 0 0 0	PERMIT REQUIREMENT	REPORT	REPORT		*****	REPORT	REPORT			THREE / COMPOS	
RAW SEW/INFLUENT		MD AVG	MX WK AV	LBS/DY		MD AVG	MX WK AV	MG/L		WEEK	
SOLIDS, TOTAL SUSPENDED	51.99	76.89	(26)		*****	2.00	2.00	(19)	φ	3/1	GOOD
00530 1 0 0	PERMIT REQUIREMENT	1876	2815		*****	30	45			THREE / COMPOS	
EFFLUENT GROSS VALUE		MD AVG	MX WK AV	LBS/DY		MD AVG	MX WK AV	MG/L		WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	515	765	(26)		*****	19.6	26.3	(19)	φ	3/1	GOOD
00610 0 0 0	PERMIT REQUIREMENT	REPORT	REPORT		*****	REPORT	REPORT			THREE / COMPOS	
RAW SEW/INFLUENT		MD AVG	MX WK AV	LBS/DY		MD AVG	MX WK AV	MG/L		WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	2.28	4.63	(26)		*****	0.09	0.21	(19)	φ	3/1	GOOD
00610 1 1 0	PERMIT REQUIREMENT	250	375		*****	0.04	0.26			THREE / COMPOS	
EFFLUENT GROSS VALUE		MD AVG	MX WK AV	LBS/DY		MD AVG	MX WK AV	MG/L		WEEK	
PHOSPHORUS, TOTAL (AS P)	2.90	6.23	(26)		*****	0.15	0.39	(19)	φ	3/1	GOOD
00665 1 1 0	PERMIT REQUIREMENT	63	94		*****	1.0	1.5			THREE / COMPOS	
EFFLUENT GROSS VALUE		MD AVG	MX WK AV	LBS/DY		MD AVG	MX WK AV	MG/L		WEEK	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 H. J. SNODDEN JR.
 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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 James E. Port...

TELEPHONE		DATE		
502-540-6000		08	08	26
AREA CODE	NUMBER	YEAR	MO	DAY

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

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

ERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME MSD CEDAR CREEK STP
 ADDRESS C/O CEDAR CREEK STP
 8405 CEDAR CREEK RD
 LOUISVILLE KY 40211
 FACILITY MSD CEDAR CREEK STP
 LOCATION LOUISVILLE KY
 ATTENTION: DENNIS THOMASSON, SR METRO OPS

KY0098540
 PERMIT NUMBER

001 2
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL
 NEW EXPANSION
 EFFLUENT
 *** NO DISCHARGE [] ***
 NOTE: Read Instructions before completing this form.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
05	07	01	05	07	31

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	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 30050 I O O EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT 2.98 PERMIT REQUIREMENT MD AVG	6.15 REPORT DAILY MX	(03) MGD	*****	*****	*****	*****	*****	0	3/11	C/N
COLIFORM, FECAL GENERAL 74055 I O O EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT ***** PERMIT REQUIREMENT *****	*****	*****	*****	*****	3.00 200	3.00 400 #/	(13) 100ML	0	3/7	COMB
BOD, CARBONACEOUS 5 DAY, 20C 30082 O O O RAW SEW/INFLUENT	SAMPLE MEASUREMENT 2699 PERMIT REQUIREMENT MD AVG	3764 REPORT MX WK AV	(26) LBS/DY	*****	*****	105 MD AVG	137 REPORT MX WK AV	(19) MG/L	0	3/7	COMB
BOD, CARBONACEOUS 5 DAY, 20C 30082 I O O EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT 77.98 PERMIT REQUIREMENT MD AVG	115.84 938 MX WK AV	(26) LBS/DY	*****	*****	3.00 10	3.00 15	(19) MG/L	0	3/7	COMB
BOD, CARB-5 DAY, 20 DEG C, PERCENT REMOVAL 30091 K O O	SAMPLE MEASUREMENT 93.8 PERMIT REQUIREMENT MD MIN	*****	*****	*****	*****	*****	*****	(23) PER-CENT	0	1/01	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 31011 K O O	SAMPLE MEASUREMENT 96.5 PERMIT REQUIREMENT MD MIN	*****	*****	*****	*****	*****	*****	(23) PER-CENT	0	1/01	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 J. J. SHARPE JR
 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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 James E. Roth Jr.

TELEPHONE
 502-545-6000
 DATE
 08 26

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

NAME OF TREATMENT PLANT CEDAR CREEK WTP

COUNTY JEFFERSON

MONTH OF: July 2008

KPDES PERMIT NUMBER KY0098540

PLANT CAPACITY 7.5 MGD

RECEIVING STREAM CEDAR 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	GAL/DAY X 1000	MLSS X 1000	GAL/DAY X 1000	WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME		RAW			HAULED			NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)			
																									30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000					
1	1.75											267		2	100		3	1560	5040	350		5.4	2800	2135	300	260									0.06	3	
2	3.08			7.0	7.0	14.0						147		2	84		3	1530	6910	540		5.6	3000	2305	310	280									0.06	3	
3	2.08	3	3	6.8	6.9	10.0												1386	6620	500		5.2	2810	2235	310	290											
4	4.96																	1338		504		5.5			290	260											
5	3.61																	2110		450					300	260											
6	2.56											75		2	48		3	2084		650					300	270									0.06	3	
7	2.51			6.9	7.0	12.0											2080	7660	555		4	3085	2280	310	300												
8	4.62											191		2	135		3	1671	9640	450		3.6	2965	2235	310	290									0.06	3	
9	6.15			7.0	6.9	10.0						100		2	70		3	1405	6150	450		4.1	2770		300	270									0.06	3	
10	3.06	3	3	7.0	6.9	14.0						153		2	98		3	1326	5960	440		3.8	2745	2515	300	270									0.06	3	
11	2.81			6.9	7.0	12.0												1412	7040	390		3.8	2630	2095	290	260											
12	3.19																	1290		420		3.4			300	270											
13	4.23																	1329		400		2.9			300	260											
14	2.33																	1463	7010	476		2.6	3070	2260	320	300											
15	2.76											192		2	121		3	1573	5860	281		2.7	3040	1860	300	300									0.28	3	
16	2.68			6.7	6.8	10.0						57		2	53		3	1514	7640	720		4.3	2998	2014	300	290									0.28	3	
17	2.58	3	3	6.8	7.0	10.0						248		2	142		3	1564	5410	500		5.6	3205	2350	300	280									0.06	3	
18	2.39			6.6	6.9	12.0												1639	6020	480		5.2	3115	2330	300	280											
19	2.58																	1616		540		5.6			290	290											
20	2.99																	1647		720		4.5			300	290											
21	2.57																	1625	5960	400		4.4	2845	2145	300	280											
22	2.45											142		2	104		3	1704	6210	450		4.2	2885		300	270									0.06	3	
23	2.52			6.9	7.1	14.0						161		2	153		3	1709	5350	555		4.6	3120	2420	300	290									0.06	3	
24	3.19	3	3	7.0	7.0	10.0						234		2	154		3	1741	5630	600		4.4	2960	2310	300	310									0.06	3	
25	2.14			6.9	6.9	10.0												1701	6150	500		4	3570	2620	320	310											
26	2.67																	1749		500		4.6			330	300											
27	2.46																	1664		500		4.1			310	310											
28	3.41																	1543		500		4.4			320	300											
29	3.00																	1530	5990	600		4.6	3300	2405	310	300											
30	2.46																	1538	5810	600			3410	2490	320	290											
31	3.29	3	3															1326	6060	500		4.8	3270		300	300											
Tot.	93.08	15	15															49367																			
Avg.	3.00	3	3	6.9	7.0	11.5						8.5		164		2	105		3	1592	6387	500.7	4.354	3028	2278	304.5	284.8								0.09	3	

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
28596
15491
19546
FLOW CBOD TSS

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

PLANT TELEPHONE



MSD

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

July 8, 2008

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

Re: Bypass Report for the Cedar Creek WTP – KPDES Permit KY0098540

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 10:00 AM on July 08, 2008, referencing Work Order #804753 as a 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: A low level sensor failed on the UV system causing the system to shutdown and allowing treated wastewater to exit the plant. Approximately 338,437 gallons of treated wastewater discharged without disinfection.
- Period of noncompliance: Starting 09:00 AM on July 06, 2008 and stopping 01:30 PM on July 06, 2008.
- Steps taken or planned to reduce, eliminate and prevent recurrence: The maintenance department is repairing the system to prevent further recurrences.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7695, my cell phone at (502)-523-9957 or via email at jporter@msdlouky.org.

Sincerely,

James E. Porter Jr.
Process Supervisor-Operations

cc: Gary Levy, KDEP
Sean Ireland, EPA

eB File
Paula Purifoy, MSD





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

KPDES # KY0098540	Facility ID MSD0289	Treatment Plant Name CEDAR CREEK		Receiving Stream of Treatment Plant CEDAR CREEK	Region CENT				
Facility Type SPL Sewer Treatment Plant	Facility ID MSD0289	Facility Address 8605 CEDAR CREEK RD	If Pump Station, Name of Pump Station:	Receiving Stream CEDAR CREEK	Discharge to GROUND				
<u>Activity Code / Description</u> DISDW: DRY WEATHER DISCHARGE	<u>WO #</u> 804753	<u>Initiated</u> 07/06/08 08:00 AM	<u>Initiated By</u> ELDER	<u>Assigned To</u> SMITH	<u>Disch Status</u> REPAIRED - ISSUE RESOLVED	<u>Event Date</u> 07/06/08	<u>Problem</u> BYPASS AT TREATMENT PLANT	<u>Result</u> DISCHARGE TO WATERS OF THE US	<u>Completed</u> 07/06/08 01:30 PM

Spot Inspections:

Discharge Amount: 338,437 GAL
Cause: MECHANICAL FAILURE OF THE LOW LEVEL PROBE.
Clean Up: CLEANUP NOT POSSIBLE.
Control Zone: NOT POSSIBLE
Impact: INCOMPLETE UV TREATMENT
Repair: IMMEDIATE SHUTTING OF GATES TO STOP FLOW.TAKE 1 CHANNEL OUT OF SERVICE WITH FAILED DEVICE.ORDERED NEW DEVICE FOR REPAIRS TO SYSTEM

Notifications:

07/08/08 02:02 PM DISNOT Discharge notification email forwarded manually July 08, 2008 at 2:04 PM
08/14/08 11:17 AM DISPUB Notification made by permanent sign at effluent.