



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

November 16, 2015

Cheryl Edward
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**RE: Hite Creek WQTC, KPDES No: KY0022420
Discharge Monitoring Report for October 2015.**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Hite Creek WQTC, for the month of October 2015.

There were no exceedances, discharges or bypasses to report this month.

There was one issue with effluent fecal for the third sampling period of the month. The sample was delivered to the laboratory; please see attached chain of custody (COC), which shows delivery and receipt. At this time MSD is unable to produce the results for the fecal Coliform sample. Currently MSD cannot confirm if the sample was lost or data is unable to be retrieved from the LIMS database. However, based on the existing data, the monthly and weekly averages for effluent fecal coliform were well within compliance with the KPDES permit requirements.

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

Sincerely,

Duane V. Wright
Process Supervisor, East Region

DVW/ Hite Creek. 10/15.

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit			
Permit #:	KY0022420	Permittee:	HITE CREEK WQTC MSD
Major:	Yes	Permittee Address:	5512 HITT LN LOUISVILLE, KY 40201
Permitted Feature:	001 External Outfall	Discharge:	001-2 MUNICIPAL WASTEWATER
Facility:		Facility Location:	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40201

Report Dates & Status			
Monitoring Period:	From 10/01/15 to 10/31/15	DMR Due Date:	11/28/15
Status:	NetDMR Validated		

Considerations for Form Completion
USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

Principal Executive Officer			
First Name:	Tony	Title:	Exec. Dir.
Last Name:	Parrott	Telephone:	502-540-6000

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	=	8									19 - mg/L	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	7 INST MIN									19 - mg/L	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7					=	8		12 - SU	01/01 - Daily	GR - GRAB		
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU	03/07 - Three Per Week	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	97	=	102	26 - lb/d		=	3	=	3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	1501 MO AVG	<=	2252 MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	6375	=	7405	26 - lb/d		=	197	=	229	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	7	=	8	26 - lb/d		=	0.2	=	0.3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	100 MO AVG	<=	150 MX WK AV	26 - lb/d		<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	736	=	766	26 - lb/d		=	23	=	24	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample	=						=	0.8	=	1	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.							<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.231	=	8.398	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample							=	2	=	2	13 - #/100mL	11/30 - 11 Per Month	GR - GRAB	
					Permit Req.							<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	70	=	87	26 - lb/d		=	2	=	3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	500 MO AVG	<=	751 MX WK AV	26 - lb/d		<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample	=	5903	=	6208	26 - lb/d		=	183	=	199	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample							=	99			23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample							=	98			23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85 MO MIN			23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI														

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments

Name	Type	Size
HC102015_MOR.pdf	pdf	63720
HC102015_COVER.pdf	pdf	61174
COCHiteCreek_Fecal.pdf	pdf	227557

Report Last Saved By

HITE CREEK WQTC MSD

User: kevin.ries@louisvillemsd.org	Date/Time: 2015-11-18 13:46 (Time Zone: -05:00)
Name: Kevin Ries	
E-Mail: kevin.ries@louisvillemsd.org	

DMR Copy of Record

Permit																			
Permit #:	KY0022420				Permittee:	HITE CREEK WQTC MSD				Facility:	HITE CREEK WQTC MSD								
Major:	Yes				Permittee Address:	5512 HITT LN LOUISVILLE, KY 40201				Facility Location:	5512 HITT LN LOUISVILLE, KY 40201								
Permitted Feature:	001 External Outfall				Discharge:	001-R REASONABLE POTENTIAL													
Report Dates & Status																			
Monitoring Period:	From 10/01/15 to 10/31/15				DMR Due Date:	11/28/15				Status:	NetDMR Validated								
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	Tony				Title:	Exec. Dir.				Telephone:	502-540-6000								
Last Name:	Parrott																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample					<	0.005			<	0.005	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI														
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample					=	173			=	173	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI														
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample					<	0.004			<	0.004	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample					=	0.201			=	0.201	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI														
Submission Note																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
Edit Check Errors																			
No errors.																			
Comments																			
Attachments																			
										Name	Type	Size							
										HC102015_COVER.pdf	pdf	61174							
Report Last Saved By																			
HITE CREEK WQTC MSD																			
User:	kevin.ries@louisvillemtd.org				Date/Time:	2015-11-18 13:42 (Time Zone: -05:00)													
Name:	Kevin Ries																		
E-Mail:	kevin.ries@louisvillemtd.org																		

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: October 2015
 KPDES PERMIT NUMBER KY0022420 PLANT CAPACITY 4.4 MGD RECEIVING STREAM HITE CREEK

DATE	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																
	TOTAL FLOW (MILLION GALLONS)	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	MLVSS X 1000	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)	Phosphorus mg/L	Cadmium, Total Recoverable	Hardness as CaCO3	Chromium, Hexavalent	Cyanide, Free (Amenable)	Mercury, Total Recoverable									
																								90 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS									% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000							
1	3.22			7.4	7.4	10.0		0.0	8.0		144		3	131		2	2.95	6.01	118	4.3	2.93	2.16	170					42	0.21		0.63															
2	4.28	36	36	7.6	7.6	20.0		0.0	7.8								3.17	4.42	131	4.5	2.78	2.05	150					135		2																
3	4.63			7.4	7.5	20.0		0.0	7.9								3.25	4.44	151	4.3	3.01	2.29	160					0																		
4	4.1			7.4	7.7	20.0		0.0	8.3		194		3	188		3	3.25	6.21	131	5.5	3.44	2.59	200					2.17	73	0	0.05															
5	4.19			7.3	7.6	20.0		0.0	8.1		172		3	160		3	2.82	7.16	96	5.1	2.91	2.06	180					85.2	0.42	2																
6	4.1	36	36	7.5	7.5	20.0		0.0	7.9								2.99	8.5	85	4.8	3.08	2.45	200					97.3		2																
7	3.78			7.3	7.5	20.0		0.0	8.0								3.14	6.63	125	4	3.5	2.67	200					102																		
8	3.87			7.9	7.5	25.0		0.0	8.2		224		3	187		2	3.18	6.25	118	5	3.1	2.33	200					1.69	69	102	0.16		0.64													
9	3.79	36	36	7.4	7.6	20.0		0.0	8.1								3.26	7.85	98.6	4.4	3.1	2.33	200					85.2		2																
10	3.62			7.4	7.6	20.0		0.0	8.3								3.12	7.16	105	4.4	3.15	2.76	200					54.9																		
11	3.76			7.6	7.7	15.0		0.0	8.5		224		3	187		2	3.3	6.04	125	4.1	3.16	2.35	200					0	0.2																	
12	3.98			7.3	7.7	15.0		0.0	8.4		240		3	193		2	3.35	6.16	131	5.2	3.39	2.49	200					84.3	0.12	2																
13	4.26	36	36	7.4	7.7	15.0		0.0	8.3								3.37	7.84	105	4.9	3.38	2.52	210					109		2		0.2	173													
14	4.09			7.3	7.5	20.0		0.0	8.3								3.4	6.91	118	5.2	3.27	2.43	200					109											0.004	0.01						
15	3.88			7.4	7.6	20.0		0.0	8.1		186		3	186		2	3.42	5.28	141	4.8	3.08	2.31	200					1.62	73	109	0.44		0.86													
16	3.68	36	36	7.3	7.5	20.0		0.0	8.3								3.55	4.88	145	4.7	2.93	2.23	200					110		2																
17	3.72			7.4	7.5	20.0		0.0	8.2								3.39	5.33	125	5	2.71	2.06	200					92.4																		
18	3.59			7.6	7.6	20.0		0.0	8.4		204		3	205		2	3.38	5.25	131	6	2.92	2.21	200					0	0.22																	
19	3.62			7.4	7.3	20.0		0.0	8.3		228		3	206		2	3.31	6.79	92	5.6	2.63	1.98	180					117	0.13	2																
20	3.78	36	36	7.5	7.3	20.0		0.0	8.4								2.85	7.7	88	5.9	2.86	2.15	180					86.4																		
21	3.79			7.9	7.6	20.0		0.0	8.3								3.23	6.12	118	4.3	3.02	2.31	200					6.3																		
22	3.83			7.2	7.5	15.0		0.0	8.5		188		3	201		2	3	4	151	4.9	2.94	2.22	180					1.86	70	106	0.16		1.02													
23	3.8	36	36	7.4	7.5	30.0		0.0	8.3								3.26	7.03	98.6	4.8	2.87	2.19	160					99.3		2																
24	3.97			7.6	7.6	25.0		0.0	8.1								2.99	4.71	158	5.4	3.12	2.28	180					43.5																		
25	4.24			7.4	7.5	15.0		0.0	8.1		175		3	191		2	2.84	6.26	105	5.3	2.86	2.14	160					0	0.24																	
26	4.19			7.6	7.6	20.0		0.0	8.5		188		3	156		2	2.9	5.11	138	4.7	2.94	2.19	190					86.7	0.11	2																
27	5.53	36	36	7.4	7.5	20.0		0.0	8.3								2.92	6.49	102	4.7	2.71	2.05	150					99.6		2																
28	8.4			7.5	7.9	20.0		0.0	8.9								2.89	10.5	55	4.8	2.36	1.77	150					91.8																		
29	6.24			7.4	7.7	20.0		0.0	8.5								2.27	8.46	66.5	5	2.35	1.7	150					48.9																		
30	4.8	36	36	7.3	7.5	20.0		0.0	8.5								1.76	7.72	75	4.9	2.43	1.93	150					44.1																		
31	4.43			7.3	7.6	20.0		0.0	8.7								1.83	9.8	52.6	5	2.11	1.44	140					44.1																		
Tot.	131	324	324														94.3												2190																	
Avg.	4.23	36	36	7.4	7.6	19.5			8.3		197		3	183		2	3.04	6.55	112	4.89	2.94	2.21	182					1.84	71.3	70.7	0.21	2	0.79	####	####	0.004	0.01									

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
40293 FLOW
37896 CBOD
33142 TSS

Earl Dunn OPERATOR
7626 CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS 0
SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-241-9310
PLANT TELEPHONE

Name of Client / WQTC: **Hite Creek WQTC**
 Address: **5512 Hitt Lane, Louisville, KY**
 Project Name: **Weekly KPDES sampling**
 Phone: _____
 PO#: _____
 Shipping method: Zip / UPS / Other: _____

Matrix: **Preservation:**
 GW - Ground Water
 WW - Wastewater HA - HCl
 S - Soil NA - NO3
 LS - liquid sludge SA - H2SO4
 SS - Solid Sludge SH - NaOH
 ST - Stormwater SS - Na2SO3
 O - Other: O - Other:

Container Type								Container Type:
P	P		P					Plastic - P
Preservation Type								Clear Glass - CG
								Amber Glass - AG
Analysis Requested								Reporting Limits:
TSS/CBOD	Ammonia	Phosphorus	Fecal	E-Coli	Nitrites/Nitrates	TKN		Normal : Y / N
								Other:

Sample ID / Location	No. of Cont.	Comp Start		Comp End		Grab		Vol (mL) Each	Matrix	Analysis Requested								Lims Number
		Date	Time	Date	Time	Date	Time			TSS/CBOD	Ammonia	Phosphorus	Fecal	E-Coli	Nitrites/Nitrates	TKN		
INE AUTO SAMPLER	3	10/19	730	10/20	730			1000		X	X							33969
EFF AUTO SAMPLER	4	10/19	745	10/20	745			1000		X	X							33970
EFF GRAB	2					10/20	800	100				X						33978 33980

Relinquished By: Allen Jackson
 Date / Time: 10/20/15 8:25

Received By: Allen Jackson

Relinquished By: [Signature]
 Date / Time: 10/20/15 9:14

Received By: _____

Relinquished By: _____
 Date / Time: _____

Received By: _____

Laboratory Receiving Only:

Sample Temperature on receipt: _____
 Sample Rec. by Lab in tact: Yes / No
 Rejection Code / Comments: _____

Field Parameters Only:

Sampler Initials: _____ Date/ Time: _____
 pH: _____
 Conductivity: _____ Comment: _____

Stamp: APPROVED OCT 20 2015 Laboratory Services