



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

January 12, 2017

Cheryl Edwards  
300 Sower Blvd., 3rd Floor  
Frankfort, Kentucky 40601

**RE: Hite Creek WQTC, KPDES No: KY0022420  
Discharge Monitoring Report for December 2016.**

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 December 2016.

Also attached are a discharge report and the last quarter biomonitoring DMR.

There were no exceedances or bypasses.

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

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright  
Process Supervisor, East Region

DVW/ Hite Creek. 12/16.

Enclosures

Cc: V. Graves  
R. Shaw



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

**DMR Copy of Record**

<b>Permit</b>			
<b>Permit #:</b>	<b>KY0022420</b>	<b>Permittee:</b>	Hite Creek WQTC MSD
<b>Major:</b>	Yes	<b>Permittee Address:</b>	700 W Liberty St Louisville, KY 40203
<b>Permitted Feature:</b>	001 External Outfall	<b>Discharge:</b>	<b>001-2</b> MUNICIPAL WASTEWATER
<b>Facility:</b>		<b>Facility Location:</b>	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40285

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 12/01/16 to 12/31/16</b>	<b>DMR Due Date:</b>	<b>01/28/17</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

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

<b>Principal Executive Officer</b>			
<b>First Name:</b>	James A.	<b>Title:</b>	Exec. Dir.
<b>Last Name:</b>	Parrott	<b>Telephone:</b>	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	=	9									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	=	312	=	477	26 - lb/d		=	7	=	9	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	=	7602	=	9404	26 - lb/d		=	183	=	231	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	2	--	Sample	=	141	=	220	26 - lb/d		=	3	=	6	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	250 MO AVG	<=	375 MX WK AV	26 - lb/d		<=	5 MO AVG	<=	7.5 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	=	926	=	1193	26 - lb/d		=	23	=	26	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	2	--	Sample	=	0.6	=	0.7	19 - mg/L					19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.	<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L					19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.819	=	11.688	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	=	24	=	42	13 - #/100mL					13 - #/100mL	03/07 - Three Per Week	GR - GRAB		
					Permit Req.	<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL					13 - #/100mL	03/07 - Three Per Week	GR - GRAB		
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	198	=	286	26 - lb/d		=	5	=	7	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	=	3684	=	4239	26 - lb/d		=	93	=	120	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	=	95								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	=	96								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
201612HCWQTCOverflowReport.pdf	pdf	96733
HC122017_COVER.pdf	pdf	48472
HC122016_MOR.pdf	pdf	56212

**Report Last Saved By**

**Hite Creek WQTC MSD**

User: kevin.ries@louisvillemsd.org	Date/Time: 2017-01-12 10:40 (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:	700 W Liberty St Louisville, KY 40203				Facility Location:	5512 HITT LN LOUISVILLE, KY 40285								
Permitted Feature:	001 External Outfall				Discharge:	001-R REASONABLE POTENTIAL													
Report Dates & Status																			
Monitoring Period:	From 12/01/16 to 12/31/16				DMR Due Date:	01/28/17				Status:	NetDMR Validated								
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	James A.				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.													01/30 - Monthly	CP - COMPOS
					Value NODI														
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample					=	129			=	129	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.													01/30 - Monthly	CP - COMPOS
					Value NODI														
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample					<	0.005			<	0.005	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.													01/30 - Monthly	CP - COMPOS
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample					<	0.00025			<	0.00025	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.													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					
HC122017_COVER.pdf										pdf				48472					
Report Last Saved By																			
Hite Creek WQTC MSD																			
User:	kevin.ries@louisvillemtd.org				Date/Time:	2017-01-12 10:36 (Time Zone: -05:00)													
Name:	Kevin Ries																		
E-Mail:	kevin.ries@louisvillemtd.org																		

## DMR Copy of Record

Permit			
Permit #:	KY0022420	Permittee:	Hite Creek WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-Y METALS/BIOMONITORING/QUARTERLY
Facility:		Facility Location:	HITE CREEK WQTC MSD 5512 HITT LN LOUISVILLE, KY 40285

### Report Dates & Status

Monitoring Period:	From 10/01/16 to 12/31/16	DMR Due Date:	01/28/17	Status:	NetDMR Validated
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### Considerations for Form Completion

### Principal Executive Officer

First Name:	James A.	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
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.072	=	0.072	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.														
					Value NODI														
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.														
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.002	=	0.002	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.														
					Value NODI														
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1	2G - tox chronic	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.														
					Value NODI														
71901	Mercury, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.00000161	<	0.00000161	19 - mg/L	0	01/90 - Quarterly	GR - GRAB	
					Permit Req.														
					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
HC122017_COVER.pdf	pdf	48472

### Report Last Saved By

#### Hite Creek WQTC MSD

User:	kevin.ries@louisvillemisd.org	Date/Time:	2017-01-12 10:36 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemisd.org		

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: December 2016  
 KPDES 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	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	MAST ED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	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					
																											GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS									METRAWN GALLONS X 1000				
1	4.126			7.5												1.08	7	85		4.4	2.7	2.3	150							56.7	2.8													
2	3.884	36	36	7.5												1.09	13	46		4.3	2.8	2.5	150							63.0		8												
3	3.783			7.4												0.96	11	56		4.3	2.8	2.4	150							81.4														
4	3.541			7.5												0.86	12	43		4.5	2.5	2.2	150							0.0	5.1													
5	3.978			7.6												1.07	14	39		5.3	2.5	2.0	200							69.3	6.2	353												
6	5.738			7.4												2.03	14	39		5.8	2.6	2.2	200							63.0		27												
7	5.182	36	36	7.5												2.51	9	85		5.7	3.2	2.5	200							69.3														
8	4.542			7.5												2.40	8	66		6.8	3.0	2.6	200							63.0	5.6		0.612											
9	4.137			7.5												2.43	9	66		6.5	3.2	2.7	200							63.0		28												
10	4.056			7.5												2.29	10	53		6.5	3.1	2.6	200							69.3														
11	3.649	36	36	7.4												2.39	6	95		6.2	3.7	3.1	210							0.0	5.3				0.00025	129								
12	4.926			7.5												2.47	10	0		5.4	3.4	2.8	240						1.04	79	69.3	7	6					0.005	0.005					
13	4.838			7.5												2.57	8	0		5.7	2.8	2.3	200							69.3		208												
14	4.827	36	36	7.5												2.44	9	59		5.2	3.4	2.7	210							63.0														
15	4.299			7.5												2.36	8	56		6.1	2.9	2.3	220							71.6	3				0.632									
16	3.962			7.5												2.41	8	56		5.6	2.9	2.4	210						0.83	80	63.0		2											
17	5.166			7.4												2.50	5	59		3.3	3.6	2.8	270							31.5														
18	11.69	36	36	7.7												3.49	4	53		6.8	1.2	9.3	100						0.0	3.7														
19	6.66			7.6												3.54	9	63		6.8	3.5	2.8	300							18.9	0.44	118												
20	5.704			7.5												3.67	7	66		3.2	3.3	2.6	270							89.5		3												
21	5.157	36	36	7.5												3.36	8	63		3.6	3.3	2.6	270							89.5														
22	4.925			7.5												3.37	8	66		3.6	3.6	3.0	300							89.5	0.56				0.666									
23	4.913			7.4												3.49	8	66		3.6	3.3	2.7	290							75.6		190												
24	5.443			7.6												3.39	10	66		4.6	4.2	3.3	350							37.8														
25	4.235	36	36	7.7												3.71	6	79		6.8	3.6	2.8	350							0.0														
26	4.502			7.6												3.53	7	72		5.5	3.4	2.7	300						1.34	75	63.0	0.73												
27	5.15			7.5												3.55	8	66		4.1	3.6	2.8	310							0.0	0.82	23												
28	4.384	36	36	7.4												2.52	9	72		4.6	4.2	3.3	400							0.0		4												
29	4.245			7.5												2.46	10	59		5.3	3.7	3.0	350							107.1														
30	3.82			7.4												2.41	10	56		5	3.6	2.7	350							100.8														
31	3.917			7.4												2.15	11	66		5	3.7	2.8	350							0.0														
Tot.	149.4	288	288													78.5	275	1814				88.63								1637														
Avg.	4.819	36	36	7.5												2.532	8.87	58.52		5.165	3.20	2.859	246.8						1.07	78	52.82	3.44	24	0.62	0.000250	129.00	0.005	0.01						

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
 45892 FLOW  
 21887 CBOD  
 35069 TSS

Curtis E. Otto OPERATOR  
 26265 CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ SEWERED POPULATION

502-241-9310 PLANT TELEPHONE

Report Selections: Period: 12/01/2016 00:00 thru 12/31/2016 23:59, treatment Plant: MSD0202 HITE CREEK, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022420	MSD0202	HITE CREEK	HITE CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	116490	9810 U S HIGHWAY 42		HUNTING CREEK	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2657894		12/18/2016	ROTTET JR	HUDGINS JR	REPAIRED - ISSUE RESOLVED	12/18/2016	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	12/18/16 04:53 AM	

**Discharge Reporting:**

Discharge Amount:	3,150 GAL
Cause:	MOTOR FAILURE ON ONE PUMP, THE OTHER STOPPED UP WITH DEBRIS
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS
Impact:	SEWAGE
Repair:	PULLED GOOD PUMP AND REMOVED DEBRIS
Public Notification:	TEMPORARY SIGNS UP

**Notifications:**

12/18/16 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
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Total Facilities Printed: 1

Total Work Orders Printed: 1