



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

March 7, 2011

Crystal Thompson
DMR Coordinator
200 Fair Oaks Lane
Frankfort, Kentucky 40601

RE: Hite Creek WQTC, KPDES No: KY0022420
Discharge Monitoring Report for February 2011

Dear Ms. Thompson

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Hite Creek WQTC, for the month of February 2011.

There were no bypass reports. Attached are the overflow reports for this month.

We had two exceedences in February maximum weekly average for Ammonia Nitrogen concentration and loading. We believe this was caused by a low Mean Cell Residence Time (MCRT) which inhibited nitrification. We were experiencing heavy scum on our plant clarifiers caused by filamentous bacteria (Nocardia). We gradually reduced the plant MCRT and fed chlorine to the plant RAS to alleviate the process problems associated with the filamentous bacteria. Unfortunately, when our MCRT was reduced to 5 days, we lost sufficient plant nitrification. Upon discovery of this, we increased the MCRT to > 10 days and reseeded our plant with RAS from another plant. Between 2/4/11 and 2/12/11, we seeded 117,900 gallons of RAS. Quality control testing indicated an improvement of plant nitrification about 1 week after we started these corrective actions. As of February 19, 2011, permitted Ammonia Nitrogen results indicated we were in full compliance.

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

Sincerely,

Richard Mills
Process Supervisor, East Region



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

NAME HITE CREEK WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
8405 CEDAR CREEK RD.
LOUISVILLE KY 40211
FACILITY HITE CREEK WQTC

KY0022420
PERMIT NUMBER

001 2
DISCHARGE NUMBER

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

LOCATION LOUISVILLE KY 40241
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
11	02	01		11	02	28

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			
OXYGEN, DISSOLVED (DO) 00300 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	9	*****	*****	(19) MG/L	0	1/1	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	7 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB
PH	SAMPLE MEASUREMENT	*****	*****	***	7.1	*****	7.6	(12) SU	0	1/1	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 G 0 0	SAMPLE MEASUREMENT	5060	5979	(26) LBS/DY	*****	181	201	(19) MG/L	0	3/7	CP
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0	SAMPLE MEASUREMENT	240	289	(26) LBS/DY	*****	9	12	(19) MG/L	0	3/7	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	1501 MO AVG	2252 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 G 0 0	SAMPLE MEASUREMENT	505	540	(26) LBS/DY	*****	18	22	(19) MG/L	0	3/7	CP
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 2 0	SAMPLE MEASUREMENT	165	437	(26) LBS/DY	*****	5	12.9	(19) MG/L	2	16/28	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	250 MO AVG	375 MX WK AV	(26) LBS/DY	*****	5 MO AVG	7.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0	SAMPLE MEASUREMENT	*****	*****	****	*****	0.5	0.7	(19) MG/L	0	3/7	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	****	*****	2.0 MO AVG	2.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
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	11	03	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.

See cover letter for explanation of exceedence.

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FACILITY HITE CREEK WQTC

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

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ATTN: DENNIS THOMASSON SR. METRO OPS

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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 50050 1 0 0	SAMPLE MEASUREMENT	3.95	11.70	(03) MGD	*****	*****	*****	***	0	CN	CN	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTINUOUS	
COLIFORM, FECAL GENERAL 74055 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	*****	49	162	(13) 100ML	0	3/7	GR	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB	
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0	SAMPLE MEASUREMENT	3410	3749	(26) LBS/DY	*****	123	143	(19) MG/L	0	3/7	CP	
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0	SAMPLE MEASUREMENT	127	152	(26) LBS/DY	*****	5	6	(19) MG/L	0	3/7	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	367 MO AVG	550 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0	SAMPLE MEASUREMENT	*****	*****	***	96	*****	*****	(23) CENT	0	1/28	CA	
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0	SAMPLE MEASUREMENT	*****	*****	***	95	*****	*****	(23) CENT	0	1/28	CA	
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
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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.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
CYANIDE, FREE (AMEN. TO CHLORINATION) 00722 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	0.005	0.005	(19) MG/L	0	1/28	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	COMPOS	
HARDNESS, TOTAL (AS CaCO3) 00900 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	215	215	(19) MG/L	0	1/28	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	COMPOS	
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	0.01	0.01	(19) MG/L	0	1/28	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	COMPOS	
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	0.003	0.003	(19) MG/L	0	1/28	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	COMPOS	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
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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 9 months and 5 years.							TELEPHONE		DATE		
H J SCHARDEIN EXECUTIVE DIRECTOR								502	540-6000	11	03	24
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME OF TREATMENT PLANT HITE CREEK WTP COUNTY JEFFERSON MONTH OF: February 2011
 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	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN	WASTED	MLVSS X 1000	MLSS X 1000	MLVSS X 1000	MLSS X 1000	30 MIN.	90 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	WATERBORN GALLONS X 1000	NITROGEN (mg/L)	FECAL COLIFORM (COCCUS/SPHORE)	Phosphorus (mg/L)	Cadmium, Total Recoverable	Hardness as CaCO3	Chromium, Hexavalent	Cyanide, Free (Ameslab)	Mercury, Total Recoverable
1	3.58			8.5	7.8	15.0	0.0		10.0		208	8	84	5	1.88	8.42	78.8	7.8	3.28	2.575	250							85.2	15.3	48	0.311	0.003	215	0.01	0.005		
2	5.00			7.8	7.4	13.0	0.0		9.9		188	4	117	3	1.84	14.08	48	8.2	3.09	2.39	230						104.7	12.3	4								
3	3.71			8.2	7.8	10.0	0.0		10.8		158	8	125	4	2.28	11.86	32.9	5.9	3.08	2.415	240						78.7		12								
4	3.19	36	36	7.4	7.5	13.0	0.0		11.5					1.77	9.44	46	7.1	3.295	2.575	240							84.7										
5	3.83			7.3	7.5	10.0	0.0		11.8					2.39	8.01	46	5.4	3.48	2.785	280							50.4										
6	3.45			7.3	7.5				11.8					2.32	10.72	32.9	3.5	3.26	2.59	280							50.4										
7	3.68			7.3	7.4	10.0	0.0		11.5					2.4	9.82	39.4	6.3	3.785	2.97	340					1.35	76	58.7	11.2									
8	3.73	36	36	7.4	7.2	13.0	0.0		12.5		151	7	113	4	1.87	10.29	38.2	5.4	3.5	2.79	300						48		24	0.748							
9	3.53			8.4	7.5	10.0	0.0		12.8		188	10	108	5	0.858	13.28	23	5.6	3.015	2.4	280						28.9		84								
10	3.02			8.7	7.4	13.0	0.0		10.3		189	10	135	4	1.54	14.48	23	2.9	3.235	2.585	300						37.8		2100								
11	3.37	36	36	7.3	7.3	13.0	0.0		10.7					0.825	12.88	28.3	6.8	3.535	2.81	340							38.2		14								
12	2.88			8.1	7.4	12.0	0.0		12.8					0.821	12.72	38.2	9.5	4.775	3.78	580							58.7		7.4								
13	2.77			8.0	7.3	13.0	0.0		12.0					2.08	13.94	25.5	9.2	3.89	2.91	400							18.9		9								
14	2.88			7.9	7.5	15.0	0.0		12.2					1.21	12.9	27	9.3	3.805	2.585	550							43										
15	2.85	36	36	7.2	7.4	15.0	0.0		11.0		233	8	184	8	1.118	12.32	29.8	8.3	3.715	2.955	400						50.4		180	0.537							
16	2.95			8.4	7.1	12.0	0.0		9.2		183	12	132	8	0.792	13.08	29.8	6.4	3.945	3.185	380					1.29	76	80.8		10							
17	2.88			7.7	7.1	13.0	0.0		9.2		188	18	134	7	0.887	12.92	29.8	6.7	3.735	2.985	350						55.9		600								
18	2.49	36	36	7.4	7.2	10.0	0.0		8.8					1.75	10.48	38.2	5.9	3.91	3.12	350							80.8		5.8								
19	2.19			7.5	7.2	15.0	0.0		10.5					1.77	10.95	38.2	8.3	3.92	3.145	350							88.2		3.5								
20	2.19			7.7	7.3	15.0	0.0		10.5					1.72	10.82	39.4	6.8	4.18	3.325	440									2.5								
21	4.92			7.8	7.5	10.0	0.0		10.4					2.27	14.3		7.3	4.01	3.18	350					1.78	77	50.4		2.1								
22	3.08	36	36	8.4	7.1	15.0	0.0		11.0		184	7	125	4	1.74	11	48	8.9	5.005	3.97	830						16.9		2.1	114	0.419						
23	2.77			7.3	7.2	15.0	0.0		9.5		184	4	148	3	2.48	11.94	38.2	5.4	4.345	3.515	400						59		0.5	36							
24	3.80			7.2	7.2	10.0	0.0		8.8		185	13	91	4	2.44	9.71	42.7	5.1	4.155	3.29	400						80.5		0.055	4							
25	9.55	36	36	7.1	7.3	16.0	0.0		9.7					2.58	14.24	19.7	8.5	2.725	2.15	220							87.4		1.8								
26	5.49			7.5	7.3	7.0	0.0		9.5					1.48	14.25	30	8.1	4.485	3.885	450							130.1		0.82								
27	5.49			7.1	7.3	8.0	0.0		12.2					2.84	14.2	30	8.3	3.77	2.88	400									0.87								
28	11.70			7.2	7.1	5.0	0.0		11.5					2.17	14.71	23	8.1	3.3	2.825	350							55.8		1.3								
29																																					
30																																					
31																																					
Tot.	110.494	252	252											49.89																							
Avg.	3.65	36	36	7.7	7.3	12.1			10.8		181	9	123	5	1.782	12.08	35.08	6.736	3.707	2.94	359.3					1.473	76.33	5.30	48	0.50	0.003	215.00	0.01	0.01			

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
37583 FLOW 23748 CBOD 28380 TSS

Earl Dunn OPERATOR 7628 CERT. NO.

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

502-241-9310 PLANT TELEPHONE



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

KPDES # KY0022420	Facility ID MSD0202	Water Quality Treatment Center HITE CREEK	Receiving Stream of Treatment Center HITE CREEK	Region EAST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	108958	7302 FLOYDSBURG RD		FLOYDS FORK	CATCH BASIN

<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>
DISREV: RAIN EVENT DISCHARGE	1211612	02/25/11 01:05 AM	ELDER	MILLS	DOCUMENTED	02/25/11	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	02/25/11 10:10 AM	

Spot Inspections:

Discharge Amount:	8,175 GAL
Cause:	RAIN EVENT IN AREA, LACK OF CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND THE AREA
Impact:	NO IMPACT OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

Notifications:

02/25/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 01:05 AM	DISPUB	TEMPORARY SIGNS POSTED AROUND THE AREA



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

KPDES # KY0022420 (Cont'd)	Facility ID MSD0202	Water Quality Treatment Center HITE CREEK	Receiving Stream of Treatment Center HITE CREEK	Region EAST
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Facility Type SLS Sewer Lift Station	Facility ID MSD1082-PS	Facility Address 7511 MEADOW STREAM CT	If Pump Station, Name of Pump Station: MEADOW STREAM	Receiving Stream FLOYDS FORK	Discharge to GROUND
--	----------------------------------	--	--	--	-------------------------------

<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>
DISREV: RAIN EVENT DISCHARGE	1213883	02/25/11 09:50 AM	SINGLETON	BROOKS	DOCUMENTED	01/03/05	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	02/25/11 03:30 PM	

Spot Inspections:

Discharge Amount	6,600 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND THE AREA
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

Notifications:

02/25/11 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 10:55 AM	DISPUB	TEMPORARY SIGNS POSTED