MSD

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

May 17, 2007

Mr. David Morgan, Director
Environmental & Public Protection Cabinet
Division of Water
14 Reilly Road
Frankfort, KY 40601

Re: **Morris Forman Wastewater Treatment Plant (MFWTP)**
KPDES Permit No. KY0022411

Dear Mr. Morgan:

In accordance with the provisions of the KPDES Permit referenced above, the monthly operating report (KNREPC DOW-15) and the monthly Discharge Monitoring Report (DMR) for the reporting period April 1 to April 30, 2007 are enclosed. All permit requirements were met for the month of April, 2007.

Should you have any questions, please contact me at (502) 540-6793.

Sincerely,

Alex E. Novak

Alex E. Novak
Operations Manager

paw

MFDMR0407.doc

Enclosures

cc: Louisville Regional Office, EPPC
G. Harrison, EPPC
A. Freeman, EPA, Region IV
A. Vicory, ORSANCO

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME MSD MORRIS FORMAN STP
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211-2497
FACILITY MSD MORRIS FORM STP
LOCATION LOUISVILLE KY 40211
ATTN: ALEX E NOVAK, OPER MGR

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

KY0022411 — PERMIT NUMBER
001 1 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	07	04	01	TO	07	04	30

MAJOR
(SUBR LV)
F - FINAL
MUNICIPAL DISCHARGE
EFFLUENT
*** NO DISCHARGE | | ***

Form Approved.
OMB No. 2040-0004

JEFFE

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******		6.0	******	******	(19)	0		
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	****** **** ****		2 INST MIN	******	******	MG/L		DAILY	GRAB
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	25,518	30,395	(26)	******	26	28	(19)	4		
00310 E 0 0 SEC/BIOL PRCS CMPLT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	30 MO AVG	45 MX WK AV	MG/L		DAILY	COMPOS
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	287,131	336,018	(26)	******	260	291	(19)	0		
00310 G 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
PH	SAMPLE MEASUREMENT	******	******		6.4	******	7.0	(12)	0		
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	****** **** ****		6.0 MINIMUM	******	9.0 MAXIMUM	SU		DAILY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	16,541	20,586	(26)	******	17	18	(19)	0		
00530 E 0 0 SEC/BIOL PRCS CMPLT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	30 MO AVG	45 MX WK AV	MG/L		DAILY	COMPOS
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	301,441	359,041	(26)	******	274	313	(19)	0		
00530 G 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	8,195	8,950	(26)	******	8.7	10.4	(19)	0		
00610 E 0 0 SEC/BIOL PRCS CMPLT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	20 MO AVG	30 MX WK AV	MG/L		DAILY	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H. J. SCHARDEIN, 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

TELEPHONE		DATE		
502	540-6000	07	05	16
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
G - INFLUENT
E - SECONDARY EFFLUENT
1 - FINAL EFFLUENT

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME MSD MORRIS FORMAN STP
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211-2497
FACILITY MSD MORRIS FORM STP
LOCATION LOUISVILLE KY 40211
ATTN: ALEX E NOVAK, OPER MGR

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

Form Approved.
OMB No. 2040-0004

KY0022411 — PERMIT NUMBER
001 1 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	07	04	01	TO	07	04	30

MAJOR
(SUBR LV)
F - FINAL
MUNICIPAL DISCHARGE
EFFLUENT
*** NO DISCHARGE [ ] ***
JEFFE

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
NITROGEN, AMMONIA TOTAL (AS N) 00610 9 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	8345	9147	(26)	******	8.7	9.4	(19)	0		
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	******	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 E 0 0 SEC/BIOL PRCS CMPLT	SAMPLE MEASUREMENT	117.8	204.2	(03)	******	******	******		0		
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	****** ****	****		CONTINUOUS	CONTIN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	0.010	0.010	(19)	0		
	PERMIT REQUIREMENT	******	****** ****	****	******	0.019 MO AVG	0.019 DAILY MX	MG/L		DAILY	GRAB
COLIFORM, FECAL GENERAL 74055 1 2 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	172	350	(13)	3		
	PERMIT REQUIREMENT	******	****** ****	****	******	1000 30DA GEO	2000 #/ 7 DA GEO	100ML		DAILY	GRAB
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******		90	******	******	(23)	0		
	PERMIT REQUIREMENT	******	****** ****	****	85 MO MIN	******	****** PER-	CENT		ONCE/ MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******		94	******	******	(23)	0		
	PERMIT REQUIREMENT	******	****** ****	****	85 MO MIN	******	****** PER-	CENT		ONCE/ MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H. J. SCHARDEIN, 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

TELEPHONE: AREA CODE 502 | NUMBER 540-6000

DATE: YEAR 07 | MO 05 | DAY 16

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
G - INFLUENT
E - SECONDARY EFFLUENT
I - FINAL EFFLUENT

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME MSD MORRIS FORMAN STP
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211-2497
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved.
OMB No. 2040-0004

KY0022411	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	07	04	01	TO	07	04	30

MAJOR
(SUBR LV)
F - FINAL JEFFE
SECONDARY BYPASS
EFFLUENT
*** NO DISCHARGE [ ] ***

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			
BOD, 5-DAY (20 DEG. C) 00310 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	******	******		******	157	208	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	33	38	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	******	******		******	101	114	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	33	50	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	******	******		******	9.1	10.3	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	7.7	8.7	(19)	0		
	PERMIT REQUIREMENT	******	****** **** ****		******	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	38.28	65.60	(03)	******	******	******		0		
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	MGD	******	******	****** **** ****			WHEN DISCHG	CONTIN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
H. J. SCHARDEIN, JR. EXECUTIVE DIRECTOR	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	502	540-6000	07	05	16
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

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

MONITORING DURING PERIODS OF SECONDARY BYPASS IN addition TO REGULAR MONITORING.
1 - FINAL EFFLUENT
F - SECONDARY BYPASS AFTER PRIMARY TREATMENT

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KENTUCKY MONTH OF April
KPDE8 PERMIT NO. KY0022411 PLANT CAPACITY - 105 MGD RECEIVING STREAM - OHIO RIVER

	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (M/L)		TSS (mg/L)		TS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			RETURN SLUDGE			AERATION BASIN					ACTIVE		CHLORINATION			FINAL EFFLUENT	
DATE	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	raw	final	final	raw	prim. final	final	FLOW MG	TSS g/L	TVSS g/L	D.O mg/L	MLSS g/L	MLVSS g/L	SET	SVI	Sludge Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours
4/1	125.5	125.5	0.0	48	69	7.4	6.8	9.5	0.3	280	11			8.1	244	210	11	12.3	11.9	10.1	15.5	3.7	3.2	207	56	1.04	0.31	2.56	0.010	105	12	24.00
4/2	118.3	118.3	0.0	48	69	7.4	6.9	17.0	0.1	372	14			8.7	369	195	10	12.5	11.6	9.8	16.3	3.3	2.7	201	60	1.01	0.35	2.41	0.010	70	12	24.00
4/3	152.2	120.1	32.1	48	70	7.4	6.8	23.0	0.2	442	31			7.8	313	205	33	12.3	12.7	10.6	11.8	2.9	2.4	223	78	0.93	0.31	4.25	0.010	58	10	24.00
4/4	199.5	129.8	69.7	48	66	7.4	6.8	11.0	0.1	228	33			9.4	256	240	50	12.3	12.4	10.1	16.2	2.5	2.1	192	77	1.01	0.27	4.64	0.010	223	7	24.00
4/5	139.9	139.0	0.9	48	63	7.3	6.8	15.0	0.1	306	22			9.8	352	180	17	12.3	13.4	10.9	16.1	2.6	2.2	184	70	0.89	0.23	2.50	0.010	74	9	24.00
4/6	124.5	124.5	0.0	48	62	7.4	6.8	8.0	0.1	258	16			7.6	252	170	13	12.8	13.6	11.1	13.4	2.8	2.3	218	80	0.89	0.26	2.47	0.010	380	9	24.00
4/7	112.8	112.8	0.0	48	61	7.6	6.9	9.5	0.1	306	14			8.8	252	155	11	12.5	12.7	10.5	18.0	2.8	2.4	237	84	0.90	0.31	3.87	0.010	210	9	11.10
4/8	89.2	89.2	0.0	48	61	7.5	6.9	14.0	0.1	310	13			9.3	221	141	9	12.8	10.7	9.0	19.2	3.8	3.2	213	58	0.90	0.26	3.48	0.010	222	14	0.00
4/9	88.7	88.7	0.0	48	64	7.5	7.0	9.5	0.1	276	16			10.0	221	126	10	12.4	10.1	8.6	19.9	2.9	2.5	200	70	0.88	0.30	1.27	0.010	278	11	0.00
4/10	87.4	87.4	0.0	48	66	7.5	6.9	18.0	0.1	310	15			9.5	297	131	11	12.2	11.8	9.7	19.7	2.7	2.3	204	76	0.87	0.34	1.31	0.010	107	17	0.00
4/11	179.8	115.8	64.0	48	64	7.4	6.9	5.0	0.7	202	57			10.4	165	137	42	12.3	11.9	9.6	19.2	2.4	1.9	181	76	0.84	0.35	3.68	0.010	255	13	0.00
4/12	141.2	128.5	12.7	48	62	7.4	6.9	8.5	0.1	266	24			12.9	189	102	17	12.3	12.1	9.6	19.6	2.3	1.8	157	69	0.75	0.29	3.31	0.010	184	7	0.00
4/13	100.6	100.6	0.0	48	63	7.5	6.9	9.5	0.1	278	14			9.2	232	121	15	12.2	9.8	7.8	18.5	3.0	2.5	168	58	0.73	0.25	1.26	0.010	1650	12	0.00
4/14	246.2	126.1	120.1	48	61	7.4	7.0	9.5	0.9	180	70			8.6	212	98	55	12.0	10.9	8.8	19.5	3.0	2.4	170	57	0.59	0.28	5.80	0.010	1250	6	0.00
4/15	175.5	131.7	43.8	48	61	7.5	7.0	5.0	0.1	99	23			8.2	115	107	32	12.4	9.4	7.9	15.8	2.2	1.9	168	76	0.76	0.33	5.22	0.010	230	4	13.30
4/16	162.4	136.1	26.3	48	61	7.6	7.0	4.5	0.1	137	28			9.8	200	132	36	12.5	9.4	7.4	18.5	2.2	1.7	165	75	0.83	0.29	2.68	0.010	173	6	24.00
4/17	160.2	136.5	23.7	48	65	7.4	7.0	7.5	0.1	220	25			9.7	285	150	36	12.4	11.9	9.6	16.9	2.4	2.0	175	73	0.79	0.28	2.51	0.010	450	6	24.00
4/18	155.2	137.1	18.1	48	64	7.4	6.9	18.0	0.1	398	24			7.9	343	197	34	12.4	13.1	10.6	14.8	2.5	2.1	178	72	0.78	0.28	3.28	0.010	128	7	24.00
4/19	144.3	141.6	2.7	48	61	7.5	6.8	12.0	0.1	328	22			7.6	292	183	14	12.3	14.5	11.7	13.1	2.8	2.3	196	69	0.80	0.23	3.00	0.010	143	8	24.00
4/20	137.9	137.9	0.0	49	66	7.4	6.9	11.0	0.1	326	16			7.4	295	193	14	12.5	9.6	8.0	12.6	2.8	2.4	173	61	0.82	0.27	2.63	0.010	54	10	24.00
4/21	129.2	129.2	0.0	54	65	7.4	7.0	13.0	0.1	394	13			6.9	280	156	11	12.4	12.3	10.3	13.6	3.4	2.7	201	64	0.83	0.34	2.67	0.010	106	9	24.00
4/22	115.6	115.6	0.0	54	66	7.4	6.9	6.0	0.1	130	14			8.4	163	131	9	12.5	11.1	9.1	14.8	3.4	2.8	193	57	0.83	0.33	2.41	0.010	30	10	24.00
4/23	112.8	112.8	0.0	54	69	7.2	6.9	12.0	0.1	306	16			8.1	340	172	11	12.4	10.1	8.2	13.7	3.4	2.9	218	64	0.84	0.36	2.03	0.010	78	12	24.00
4/24	117.2	117.2	0.0	54	71	7.3	6.4	15.0	0.1	320	18			6.8	308	197	13	12.3	13.8	11.6	10.9	2.9	2.4	201	70	0.88	0.39	2.02	0.010	137	12	24.00
4/25	104.2	104.2	0.0	54	71	7.4	6.8	13.0	0.1	436	20			7.1	433	227	18	12.4	12.1	10.1	11.8	2.8	2.4	203	74	0.92	0.39	1.96	0.010	145	13	8.00
4/26	195.5	122.5	73.0	54	70	7.2	6.9	9.5	0.6	310	50			6.0	236	177	47	12.4	14.3	11.9	11.7	2.8	2.4	188	68	0.89	0.32	4.75	0.010	188	8	0.00
4/27	136.4	125.9	10.5	54	69	7.5	6.8	8.0	0.1	222	24			8.4	237	133	21	11.3	14.4	12.0	13.4	2.8	2.4	184	66	0.84	0.27	3.80	0.010	176	9	0.00
4/28	99.6	99.6	0.0	54	70	7.3	6.9	5.0	0.1	204	18			6.7	212	160	14	10.5	14.1	11.6	11.3	3.0	2.4	194	67	0.83	0.26	1.84	0.010	270	12	0.00
4/29	90.6	90.6	0.0	54	68	7.4	6.8	8.0	0.1	174	15			8.3	218	167	13	12.6	10.9	9.2	15.2	3.9	3.2	206	54	0.76	0.33	1.68	0.010	181	14	0.00
4/30	90.6	90.6	0.0	57	71	7.4	6.8	12.0	0.1	202	17			7.7	280	204	15	12.3	13.5	11.2	13.5	3.0	2.4	212	72	0.75	0.33	1.87	0.010	214	13	0.00
Total	4033.0	3535.4	497.6															368.8								25.380	9.110					392.40
Average	134.4	117.8	16.6	50	66	7.4	6.9	10.9	0.2	274	23			8.5	260	163	21	12.3	12.0	9.9	15.5	2.9	2.4	194	68	0.846	0.304	2.91	0.010	172	10	13.10

SEWER CONNECTIONS 136584 TIMES 4 = 546336 SEWER POPULATION

IND. WASTER POPULATION EQ

CUSTOMERS	404
FLOW	733664
BOD	1170613
TSS	916166

Authorized Agent Richard Balardi Certification No. 4663

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Apr-07

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	132.2	56.07	49.25	18.89
Tanks in Service	4.00	7.00	8.00	3.00
Surface Area (Ft.2)	77000.00	60550.00	69200.00	25950.00
Volume (MG)	8.33	6.20	7.09	2.66
Weir Length (Ft.)	2860.00	2509.50	2868.00	1075.50
Avg. Weir Overflow (GPD/Ft)	46228.74	22341.71	17172.03	17564.90
Avg. Settling Rate (GPD/Ft2)	1717.07	1042.88	796.34	822.99
Avg. Detention Time	1.51	2.65	3.45	3.38

AERATION TANKS	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	59.63	55.11	21.36
Avg. Detention Time (Hours)	1.69	1.83	2.36

CHLORINE CONTACT CHAMBERS	
Contact Chambers in Use	2.00
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.42

Remarks: BY-PASS REPORTS (See Attached)

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
000000	MSD0000	NO PLANT-GOES TO STREAM/RIVER	NONE	

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD0303-FP	342 W MAIN ST	4TH STREET FLOOD PS	OHIO RIVER	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISDW: DRY WEATHER DISCHARGE	658403	04/18/07 05:47 AM	GARY HUMPHREY	PUMPED DUE TO COE MANUAL	DISCHARGE TO WATERS OF THE US	04/20/07 04:30 PM

Spot Inspections:

Discharge Amount:	4,674,000 GAL
Cause:	STATION PLACED IN FLOOD PUMPING PER USACE FLOOD PLUMPING PROTOCOLS TO AVOID FLOODING AND PROPERTY DAMAGE
Clean Up:	CLEANUP NOT FEASIBLE DUE TO LOCATION OF THIS OVERFLOW.
Control Zone:	CONTROL ZONE SETUP IS NOT FEASIBLE DUE TO THE LOCATION OF THIS OVERFLOW
Impact:	NO VISUAL OBSERVATION POSSIBLE SINCE THE STATIONS PUMPS ARE UNDERWATER
Repair:	THIS OVERFLOW WAS DUE TO MSD COMPLIANCE WITH USACOE FLOOD PUMPING PROTOCOLS TO AVOID FLOODING AND PROPERTY DAMAGE.

Notifications:

04/18/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	01260	268 LAURIE VALLEE			

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISDW: DRY WEATHER DISCHARGE	655764	04/12/07 11:00 AM	TERRY RICHARDSON	OBSTRUCTION-NOT GREASE / ROOTS	DISCHARGE TO WATERS OF THE US	04/12/07 01:19 PM

Spot Inspections:

Discharge Amount:	50 GAL
Cause:	A SIX FOOT (4 X 4)WOODEN FENCE POLE INSIDE THE MAIN SEWER CHANNEL.
Clean Up:	MSD FLUSHED AND BAGED UP THE SEWAGE .
Control Zone:	CAUTION SIGNS AND DOOR CARDS WERE PLACED .
Impact:	SEWAGE WAS AROUND THE MANHOLE AND DRAINAGE DITCH LINE.
Repair:	WORK ORDER # 655757 - ROOT CUT THE MAIN SEWER.

Notifications:

04/12/07 01:00 PM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	08935-SM	1001 BRECKENRIDGE LN		MIDDLE FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657770	04/14/07 11:15 AM	MICHAEL GRIFFITH	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	04/14/07 10:15 PM

Spot Inspections:

Discharge Amount:	367,804 GAL
Cause:	HEAVY RAIN
Clean Up:	RAIN EVENT RELATED - CLEANUP NOT FEASIBLE
Control Zone:	RAIN EVENT RELATED - PERMANENT SIGNS POSTED
Impact:	THE MAJORITY OF THIS OVERFLOW CONSISTED PRIMARILY OF STORWATER WITH SOME SEWAGE: MANY AREA CREEKS LEFT THEIR BANKS
Repair:	RAIN EVENT RELATED - THIS SITE IS IN MSD CAPITAL PLAN FOR ABATEMENT

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	18471	3107 DELL BROOKE AVE		SOUTH FORK BEARGRASS CREEK	CATCH BASIN

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657735	04/14/07 11:56 AM	WILLIAM BRIGHT	PUMPED OVERFLOW	DISCHARGE TO WATERS OF THE US	04/14/07 04:26 PM

Spot Inspections:

Discharge Amount:	432,000 GAL
Cause:	SET PUMP TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT.
Clean Up:	MSD CLEANED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD SET BARRICADES AND TEMPORARY SIGNS ON THE PUMPS
Impact:	THE MAJORITY OF THIS OVERFLOW CONSISTED PRIMARILY OF STORM WATER WITH SOME SEWAGE
Repair:	THIS LOCATION IS IN MSD'S CAPITAL ABATEMENT PROGRAM

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	21153	4522 CORDOVA RD		UPPER SINKING FORK	CATCH BASIN

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657741	04/14/07 12:38 PM	WILLIAM BRIGHT	PUMPED OVERFLOW	DISCHARGE TO WATERS OF THE US	04/14/07 04:50 PM

Spot Inspections:

Discharge Amount:	364,400 GAL
Cause:	SET PUMP TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT.
Clean Up:	MSD CLEANED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD SET BARRICADES AND TEMPORARY SIGNS ON THE PUMPS
Impact:	MAJORITY OF WATER PUMPED CONSISTED PRIMARILY OF STORM WATER WITH SOME SEWAGE
Repair:	THIS LOCATION IS IN MSD'S CAPITAL ABATEMENT PROGRAM

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	21156	4601 STONEHENGE DR		UPPER SINKING FORK	CATCH BASIN

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657746	04/14/07 01:00 PM	WILLIAM BRIGHT	PUMPED OVERFLOW	DISCHARGE TO WATERS OF THE US	04/14/07 05:15 PM

Spot Inspections:

Discharge Amount:	408,000 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD CLEANED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD SET BARRICADES AND TEMPORARY SIGNS ON THE PUMPS
Impact:	THE MAJORITY OF THIS OVERFLOW CONSISTED PRIMARILY OF STORM WATER WITH SOME SEWAGE
Repair:	THIS LOCATION IS IN MSD'S CAPITAL ABATEMENT PROGRAM

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	27005	1012 ALTA CIR		MIDDLE FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657768	04/14/07 11:45 AM	MICHAEL GRIFFITH	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	04/14/07 03:40 PM

Spot Inspections:

Discharge Amount:	108,000 GAL
Cause:	HEAVY RAIN
Clean Up:	RAIN EVENT RELATED - CLEANUP NOT FEASIBLE
Control Zone:	RAIN EVENT RELATED - PERM. SIGNS POSTED
Impact:	OVERFLOW TO WATERS OF US DURING RAIN EVENT
Repair:	RAIN EVENT RELATED - THIS SITE IS IN MSD CAPITAL PLAN FOR ABATEMENT

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	44397	4000 FINCASTLE RD		SOUTH FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	653942	04/03/07 08:00 PM	DWIGHT MITCHELL	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	04/04/07 07:11 AM

Spot Inspections:

Discharge Amount:	5,940 GAL
Cause:	HEAVY RAIN
Clean Up:	RAIN EVENT RELATED - CLEANUP NOT FEASIBLE.
Control Zone:	THE MAGNITUDE OF THE STORM DID NOT ALLOW CONTROL ZONE SETUP.
Impact:	OVERFLOW TO WATERS OF US DURING RAIN EVENT
Repair:	RAIN EVENT RELATED - THIS SITE IS IN MSD CAPITAL PLAN FOR ABATEMENT

Notifications:

04/03/07 01:00 PM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657737	04/14/07 07:30 AM	DWIGHT MITCHELL	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	04/15/07 06:54 AM

Spot Inspections:

Discharge Amount:	6,210 GAL
Cause:	HEAVY RAIN
Clean Up:	RAIN EVENT RELATED - CLEANUP NOT FEASIBLE
Control Zone:	RAIN EVENT RELATED - TEMPORARY SIGNS PLACED & DOOR HANGERS POSTED.
Impact:	OVERFLOW TO WATERS OF US DURING RAIN EVENT
Repair:	RAIN EVENT RELATED - THIS SITE IS IN MSD CAPITAL PLAN FOR ABATEMENT

Notifications:

04/14/07 07:30 AM	MSD PLACED DOOR HANGERS @ 4000,4001,4002,4004,4006,4008,3980,3978,3976,3974,3972,3975,3977 & 3979 FINCASTLE RD.
04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	48682	4545 TAYLORSVILLE RD			

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISDW: DRY WEATHER DISCHARGE	658401	04/17/07 06:10 PM	WILLIAM ATTEBURY	ROOTS	DISCHARGE TO WATERS OF THE US	04/17/07 09:00 PM

Spot Inspections:

Discharge Amount:	100 GAL
Cause:	MAIN SEWER BACKUP DUE TO ROOTS IN LINE
Clean Up:	MSD WASHED DOWN AREA WITH FLUSHER
Control Zone:	MSD PLACED SIGNS ALONG DRAINAGE DITCH
Impact:	SEWER OVERFLOWED OUT OF MANHOLE AND INTO DRAINAGE DITCH
Repair:	WORK ORDER #658498 - MSD ROOT CUT MAIN SEWER 300 FEET TO GET THE MAIN SEWER OPEN

Notifications:

04/17/07 12:59 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov

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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0022411 (Cont'd)	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD0023-PS	501 MOCKINGBIRD VALLEY RD	MELLWOOD AVENUE	MUDDY FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Problem	Resolution	Completed
DISREV: RAIN EVENT DISCHARGE	657771	04/14/07 01:00 PM	NOBLE MARKS JR	LACK OF SYSTEM CAPACITY	DISCHARGE TO WATERS OF THE US	04/14/07 04:25 PM

Spot Inspections:

Discharge Amount:	1,500 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	AREA RAKED, DEBRIS HAULED, WET WELL HAULED UNTIL THE LEVEL WAS UNDER CONTROL.
Control Zone:	SIGNS POSTED PUBLIC NOTIFIED
Impact:	NO VISUAL IMPACT OBSERVED IN RECIEVING WATERS.
Repair:	WET WELL AT PUMP STATION HAULED UNTIL THE LEVEL UNDER CONTROL.

Notifications:

04/14/07 01:00 AM	Email notification of unauthorized discharge sent to Harkins.John@epamail.epa.gov and eppc.ert@ky.gov