



JIM STRICKLAND
MAYOR

DIVISION OF PUBLIC WORKS



MAYNARD C. STILES WASTEWATER TREATMENT PLANT

TENNESSEE

April 12, 2024

Certified Mail No. 9589 0710 5270 0944 4461 07
Return Receipt Requested

Attn.: Mr. Kyle Mabry, Manager TDEC
Memphis Field Office
Tennessee Department of Conservation and Environment
8383 Wolf Lake Drive
Bartlett, TN 38133

RE: MC Stiles WWTF Monthly Operational Report (MOR) for March 2024
MC Stiles WWTF Monthly Overflow Report for March 2024
Reporting Requirement Cover letter for CMOM, First Quarter 2024

Dear Mr. Mabry:

Enclosed are copies of the documents referenced above.

Note that we submitted the March 2024 DMR for M.C. Stiles WWTF electronically via the NetDMR system. Note the full First Quarter FOG Report is attached to the March 2024 NetDMR. If you have any questions concerning these reports, please contact me at (901) 636-4335.

Sincerely,

Joseph Schmittou
Process Manager

Enclosures

cc: Scott Morgan, Sr. Environmental Administrator
Donald Hudgins, Wastewater Treatment Facilities Administrator
Derek McElroy, Plant Manager

City of Memphis



TENNESSEE

PAUL A. YOUNG
MAYOR



DIVISION OF PUBLIC WORKS

MAYNARD C. STILES WASTEWATER TREATMENT PLANT

April 12, 2024

Certified Mail No. 9589 0710 5270 0944 4452 78
Return Receipt Requested

Attn.: Ms. Jessica Murphy
Compliance Review Section
Tennessee Department of Conservation and Environment
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

**RE: MC Stiles WWTF Monthly Operational Report (MOR) for March 2024
MC Stiles WWTF Monthly Overflow Report for March 2024
Reporting Requirement for CMOM, First Quarter 2024**

Dear Ms. Murphy:

Enclosed are the documents referenced above. During the month of **March 2024**, the M.C. Stiles WWTF had no permit violations.

Note that we submitted the March 2024 DMR for M.C. Stiles WWTF electronically via the NetDMR system. Note the full First Quarter FOG Report is attached to the March 2024 NetDMR. If you have any questions concerning these reports, please contact me at (901) 636-4335.

Sincerely,

Joseph Schmittou
M.C. Stiles WWTF Operations Manager

cc: Scott Morgan, Sr. Environmental Administrator
Donald Hudgins, Wastewater Treatment Facilities Administrator
Derek McElroy, Plant Manager
Kyle Mabry, TDEC Memphis Field Office, Manager

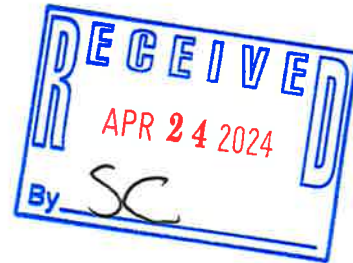


PAUL YOUNG
MAYOR

DIVISION OF PUBLIC WORKS

April 10, 2024

Robert G. O'Dette, M.S., P.E. BCEE / WEF FELLOW
Division of Water Resources
Tennessee Department of Environment and Conservation
William R. Snodgrass Tennessee Tower, 11th Floor.
312 Rosa L. Parks Avenue
Nashville, TN 37243-1102



RE: Reporting Requirement for MOM, First Quarter 2024

Mr. Odette:

In compliance with the reporting requirements set forth by the State of Tennessee, the following summary is submitted. This summarizes the activities of the City of Memphis Food Establishment Wastewater Discharge Program for the period of January 1, 2024 through March 31, 2024


At the conclusion of this reporting period there were 4008 total food establishments in our database. A total of 216 of these were closed (out of business), leaving 3792 active food establishments.

▪ Total Facility Inspections	1142
▪ Total NOV's	2
▪ Total NOV's this year	2
▪ NOV's per 100 FE inspected.....	0.09%
▪ Total Citations issued	1
▪ Total Permits	139
▪ Follow-Up inspections	20
▪ SSO Hangers Distributed	397
▪ Total Active Facilities Permitted as of March 31, 2024,.....	3792

Any questions may be directed to me at 901-636-8118.

Sincerely,

Bret Donaldson B.S., P.M.C. 

Robert Dodson
Administrator Wastewater Collection Facilities 

Cc. Scott Morgan
Christopher Morrical
Kyle Mabry

DATE	RECEIVING STREAM ANALYSES																FINAL 'A'				FINAL 'B'				RE-AIR 'A'		RE-AIR 'B'		SLUDGE DISPOSAL						
	BOD		S.S.		SETT S		D.O.		pH		TEMP		FECAL		NH ₄		MLSS	SVI	DISSOLVE D OXYGEN	F/M	MLSS	SVI	DISSOLVE D OXYGEN	F/M	0.001 X MLSS	DISSOLVE D OXYGEN	0.001 X MLSS	DISSOLVE D OXYGEN							
	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW	ABOVE	BELOW																			
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73			
1																	4,520	61	4.3	0.77	6,890	38	3.6	0.66	22.1	2.7	10.3	4.0							
2																	3,440	81	3.7	1.03	3,070	94	4.6	1.52	13.7	0.9	8.7	3.7							
3																	4,420	64	4.3	0.55	3,830	84	5.1	0.83	12.3	1.0	10.2	3.3							
4																	4,130	67	5.5	0.96	3,050	106	5.5	1.71	11.4	1.8	7.1	4.1							
5																	3,340	67	4.3	1.09	2,910	91	5.0	1.64	10.6	1.3	6.6	4.1							
6																	3,470	78	3.3	1.03	2,790	97	5.9	1.67	11.0	1.3	8.0	3.8							
7																	3,390	80	3.1	1.19	3,070	91	4.7	1.73	11.0	2.8	8.1	5.0							
8																	3,280	80	2.6	0.95	3,240	85	2.8	1.27	11.0	2.8	9.5	4.0							
9																	2,670	94	2.5	0.81	3,060	96	2.5	0.93	8.6	2.5	7.9	3.3							
10																	2,600	88	5.4	0.91	3,140	84	6.2	0.99	9.0	1.3	8.5	4.3							
11																	2,480	88	6.7	1.23	3,120	85	6.8	1.28	9.0	3.3	6.9	5.0							
12																	2,440	96	5.4	0.67	3,480	85	6.1	0.61	7.9	3.0	7.1	3.5							
13																	3,100	84	1.9	1.13	3,640	86	4.6	1.26	11.2	1.0	7.0	1.9							
14																	3,530	76	2.2	1.06	3,990	78	2.6	1.24	12.1	3.0	8.4	3.0							
15																	2,280	78	4.9	1.35	3,150	76	7.1	1.29	12.1	0.7	9.0	1.6							
16																	2,740	66	7.0	0.80	3,630	82	7.3	0.80	14.1	1.6	7.4	4.8							
17																	3,030	78	6.1	0.79	3,185	89	5.4	1.00	10.7	4.2	7.6	5.3							
18																	3,105	81	6.6	1.31	3,290	78	7.5	1.63	11.6	2.9	6.7	5.3							
19																	2,760	79	6.9	0.95	3,030	82	7.4	1.14	10.6	1.6	6.9	6.0							
20																	3,150	78	6.7	1.23	3,120	79	6.7	1.64	11.7	4.8	8.7	6.5							
21																	3,100	80	5.0	1.05	3,520	78	6.2	1.22	11.6	1.2	8.4	2.6							
22																	3,038	81	4.2	1.22	3,350	82	4.3	1.45	10.9	3.4	9.5	3.3							
23																	3,169	76	5.6	0.91	3,625	80	4.8	1.05	10.6	4.1	8.5	4.5							
24																	3,100	80	6.3	1.12	3,240	104	6.2	1.41	9.7	1.8	9.5	3.7							
25																	2,740	88	4.7	1.45	3,840	88	2.4	1.37	10.5	5.1	10.6	3.0							
26																	2,370	60	7.1	2.18	3,100	80	6.5	2.20	12.1	3.3	13.0	1.0							
27																	2,940	65	1.8	1.25	4,010	73	1.8	1.14	13.2	0.7	10.9	0.8							
28																	3,590	64	2.7	1.10	4,140	75	3.5	1.24	12.5	5.1	10.6	5.2							
29																	3,550	67	3.9	0.51	3,720	78	5.2	0.63	12.7	0.7	11.8	1.6							
30																	2,680	89	4.9	0.74	3,420	79	5.6	0.75	10.3	3.3	8.6	4.7							
31																	2,590	86	4.5	0.94	2,830	86	3.9	1.12	9.2	3.4	7.2	4.5							
TOT																	96,742	2,400	144	32.3	107,480	2,589	168	38.4	355	77	269	117.4							
AVE																	3,121	77	4.6	1.04	3,467	84	5.1	1.24	11.4	2.5	8.7	3.8							
MAX																	4,520	96	7.1	2.18	6,890	106	7.5	2.20	22.1	5.1	13.0	6.5							
MIN																	2,280	60	1.8	0.51	2,790	38	1.8	0.61	7.9	0.7	6.6	0.8							

QUANTITY OF WET SLUDGE GENERATED:
117,000,000 GALLONS/MONTH

QUANTITY OF WET SLUDGE DISPOSED OF:
1,148,994 GALLONS/MONTH

%SOLIDS: **15.44**

WEIGHT OF SLUDGE (DRY) GENERATED:
4,423 METRIC TONS/MONTH

WEIGHT OF SLUDGE (DRY) DISPOSED OF:
671 METRIC TONS/MONTH

$\left(\frac{\text{GALLONS} \times 8.34}{2205}\right) \times \left(\frac{\% \text{ SOLIDS}}{100}\right) = \text{METRIC TONS}$

VOLATILE SOLIDS REDUCTION*:
*FROM WASTE SLUDGE TO DISPOSAL
52.3

ULTIMATE METHOD OF DISPOSAL:
Surface Disposal

DIGESTER DETENTION TIME: **1 year**
Anaerobic Disposal

LIST DAILY SLUDGE DATA IN COLUMNS TO LEFT

*UNIT OPERATIONS-- THE ANALYSIS BELOW SHOULD BE PERFORMED WHERE APPLICABLE

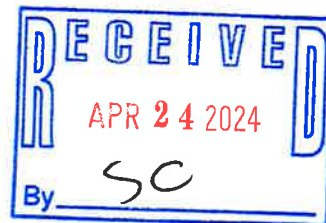
AERATION OR REAERATION
SUSPENDED SOLIDS (MLSS)
SLUDGE VOLUME INDEX (SVI)
DISSOLVED OXYGEN (DAILY AVERAGE)
TEMPERATURE
SLUDGE AGE, FOOD TO MICROORGANISM RATIO
OR MEAN CELL RESIDENCE TIME

AEROBIC DIGESTER
SUSPENDED SOLIDS (MLSS)
SETTLEABLE SOLIDS (1000 ML)
DISSOLVED OXYGEN (DAILY AVERAGE)
TEMPERATURE
PERCENT VOLATILE SOLIDS

RECEIVED
APR 24 2024
By SC

ANAEROBIC DIGESTER
TEMPERATURE
pH
VOLATILE ACIDS
ALKALINITY
PERCENT VOLATILE SOLIDS (OF SLUDGE)

SLUDGE HANDLING
HOURS OPERATED
VOLUME OF SLUDGE REMOVED
POUNDS OF WET SLUDGE PRODUCED
MOISTURE CONTENT



JIM STRICKLAND
MAYOR

DIVISION OF PUBLIC WORKS

TENNESSEE

To: Derek McElroy
North Plant

From: Jason Simpson *Jason Simpson*

Date: April 11, 2024

Subject: Sanitary Sewer Overflows – March 2024

The following report is for the March 2024 reporting period for your plant. Note: There were ten (10) Sanitary Sewer Overflows:

- Sanitary Sewer Overflows* (10)
- With Stream Affiliation(T+U) (3 of the above 10)
- Building Backups (1)
- Bypass (0)
- Wet Weather Overflows(T) (1)

* In the past, the generic term "overflow," rather than the NPDES permitted definition was used referring to releases from the sewer system. "Sanitary Sewer Overflows" in this report continue to include known and suspected instances of overflows as defined in the NPDES Permit and do not include other releases.

Investigations of overflows have and continue to involve response to citizen complaints and other reports of potential overflows to determine if overflow is occurring, visual evaluations (e.g., walking sewer lines, driving along collection system locations), implementation of the City's CSAP program, and increased maintenance/inspection at known problematic areas. In addition to the corrective action and preventative maintenance identified in the attachment, corrective action has and continues to entail cleaning of the sewer system where the overflow has occurred, increased inspection and/or maintenance at the overflow sight, as well as rehabilitation work (e.g., implementation of the City's IRP). Some of these activities may occur after the submission of the monthly report and, regardless of the timing, serve to prevent future or possible overflows.

Attachments (1)

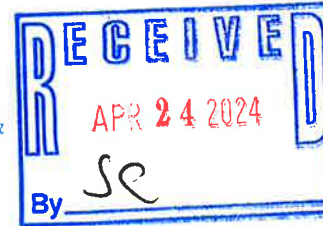
C: Don Hudgins
Robert Dodson
File

NTP OVERFLOW REPORT

Mar-24

DIVISION OF PUBLIC WORKS

DEPARTMENT OF ENVIRONMENTAL MAINTENANCE & INSPECTION



Start Date 3/1/2024
End Date 3/31/2024

ADDRESS	PM	RECEIVED	COMPLAINT	DISPTGHED	Overflow	PROBLEM	GALLONS	LOCATION	ACTION	INVESTIGATION/CORRECTIVE ACTION	COMPLETED	DURATION
3563 Coleman Ave		3/1/2024, 3:32 PM	MH O/F	3/1/2024, 3:32 PM		PAPER/DEBRIS	300	M/L	FLUSHED	FLUSHED EAST 200FT PAER AND DEBRIS CLEAR 234-AT	3/1/2024, 4:30 PM	1
4389 Oaks Royal Dr		3/5/2024, 2:48 PM	MH O/F	3/5/2024, 2:48 PM		GREASE	780	M/L	FLUSHED	CLEARED MANHOLE SOUTH 300FT AND NORTH PASSED ADDRESS SPOKE 237-JH	3/5/2024, 5:15 PM	2.6
149 Union Ave		3/5/2024, 7:45 PM	MH O/F	3/5/2024, 7:45 PM		GREASE/RAGS	540	M/L	FLUSHED	flushed 300ft north through property grease and regs 237-jh	3/5/2024, 8:30 PM	1.8
8259 Byre Hollow Cv		3/8/2024, 7:34 AM	MH O/F	3/8/2024, 7:34 AM	Yes	HEAVY ROOTS/GREASE	870	M/L	FLUSHED	WAS A OVERFLOW- CLEARED IT RUNNING IT 200 FEET EAST THROUGH PROPERTY, HEAVY ROOTS & GREASE. SENT PICTURES TO JASON. WAS A OVERFLOW. 225-JCT	3/8/2024, 10:30 AM	2.9
2570 Kirby Whitten Rd		3/10/2024, 6:51 AM	MH O/F	3/10/2024, 6:51 AM		GREASE/RAGS	1280	M/L	FLUSHED	CLRD O/F AT 2815 COUNTRY GREEN RD IN REAR 1250 EAST GREASE RAGS TOOK CARE OF OVERFLOW ASSISTED BY 208 TOOK PIC SPOKE	3/10/2024, 11:00 AM	4.2
Highway 51 & Stage		3/12/2024, 2:16 PM	MH O/F	3/12/2024, 2:16 PM	Yes	GREASE/DEBRIS	6300	M/L	FLUSHED	CLEARED MANHOLE FLUSHING IT BACK WEST 300 FEET. GREASE & DEBRIS. ALSO TAKING CARE OF THE OVERFLOW. ASSISTED BY 226 216 REPAIR OPERATOR AND GARY ON THE LOW-BOY. 216 HAS THE PICTURES. 221-EH	3/13/2024, 11:15 AM	21
5589 Bleckburg Dr		3/22/2024, 11:17 AM	MH O/F	3/22/2024, 11:17 AM		HEAVY GREASE/ROOTS	450	M/L	FLUSHED	OVERFLOW IN FIELD -CLEARED IT RUNNING IT BACK NORTH 300 FEET. HEAVY GREASE & ROOTS. SENT 205 PICTURES. 235-PV	3/22/2024, 12:45 PM	1.5
1214 E Brown Ave		3/26/2024, 10:53 AM	MH O/F	3/26/2024, 10:53 AM		HEAVY GREASE/DEBRIS	330	M/L	FLUSHED	CLEARED IT. DOUBLE STOPPAGE. FLUSHING 150 FEET EAST, & 300 FEET WEST. HEAVY GREASE & DEBRIS. I & I CAME OUT. 218 GOT PICTURES. 220 CD. OVERFLOW.	3/26/2024, 12:00 PM	1.1
924 Ayers St		3/26/2024, 12:33 PM	B	3/26/2024, 12:33 PM		GREASE	100	M/L	FLUSHED	OVERFLOW BASEMENT- AT LEE & AYERS. ON LEE SIDE FLUSH EAST 3 FEET. HIT A HARDSPOT. SET-IT UP TO BE TELEVISED ON THE LEE SIDE. SEE WHAT WE ARE HITTING> GOT PICTURES. 221-EH	3/26/2024, 2:45 PM	2.2
35 Chickasaw Cv		3/25/2024, 9:30 PM			Rainfall Event 1	FLOODED	19259			SARP10 metered constructed overflow	3/26/2024, 1:42 AM	4.2
805 Claybrook		3/25/2024, 9:20 PM			Rainfall Event 1	FLOODED	129871			SARP10 metered constructed overflow	3/26/2024, 12:14 AM	2.9
714 N Main St		3/27/2024, 8:50 PM	MH O/F	3/27/2024, 8:50 PM		GREASE/RAGS	3570	M/L	FLUSHED	WAS A OVERFLOW- FLUSH MAINLINE IN REAR OF 710 MAIN STREET 100 FEET NORTH. GREASE & RAGS. 226 WAS ON SCENE. GOT PICTURES.	3/28/2024, 9:45 AM	11.9

Note: Previous monthly reports over-reported the number of "overflows." The 2011 NPDES permit definition of SSO was appealed, thus leaving in place the preceding 2000 NPDES standard. That standard provides that multiple discharge occurrences within a single rainfall event are considered a single sanitary sewer overflow event. The number of SSOs herein and in the DMR are counted in accordance with such permit requirement. The consent decree provides an alternative means of counting "unpermitted discharge events".