



Huntsville, Alabama

Cover Memo

Meeting Type: City Council Regular Meeting Meeting Date	e: 4/24/2025 File ID: TMP-5431
<u>Department:</u> Water Pollution Control	
Subject:	Type of Action: Approval/Action
Resolution authorizing the City Council to review the Annua Reports and report same to Alabama Department of Environment	*
Resolution No.	
Finance Information: N/A	
Account Number: N/A	
City Cost Amount: \$0	
Total Cost: \$0	
Special Circumstances: N/A	
Grant Funded: N/A	
Grant Title - CFDA or granting Agency: N/A	
Resolution #: N/A	
Location: (list below) N/A	
Address: District: District 1 □ District 2 □ District 3 □ Dis	strict 4 \(\square \) District 5 \(\square \)
Additional Comments:	

Meeting Type: City Council Regular Meeting Meeting Date: 4/24/2025 File ID: TMP-5431

RESOLUTION NO. <u>25-</u>

WHEREAS, in order to maintain compliance with regulations promulgated by the Alabama Department of Environmental Management (ADEM), the Water Pollution Control Department for the City of Huntsville prepares a Municipal Water Pollution Prevention (MWPP) Annual Report for submission to ADEM by each of its six wastewater treatment plants; and

WHEREAS, ADEM requires City Council of Huntsville to review the MWPP Annual Reports and set forth any necessary actions to maintain effluent requirements contained in the City's National Pollutant Discharge Elimination System (NPDES) Permit and to prevent the bypass and overflow of raw sewage within the collection system or at the City's treatment plant; and

WHEREAS, the MWPP Annual Reports are scored, and the point total is used to determine if any remedial action is necessary for a sanitary sewer system facility; a score of seventy-one (71) is the threshold score requiring corrective action to be taken; the maximum points possible is 783; and

WHEREAS, Huntsville City Council has reviewed the MWPP Annual Reports for the City's six Waste Water Treatment Plants (WWTP), which are attached hereto as Exhibits A through F; and

WHEREAS, the reports reflect the following scores: Exhibit A – Western Area WWTP (0 points); Exhibit B – Aldridge Creek WWTP (0 points); Exhibit C – Big Cove WWTP (0 points), Exhibit D – Chase WWTP (0 points); Exhibit E – Magnolia Springs WWTP (38 points), and Exhibit F– Spring Branch WWTP (0 points); and

WHEREAS, the scores of the City's wastewater treatment plants all fall well below the threshold where ADEM would direct any remedial action.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that having reviewed the 2024 MWPP Annual Reports, the City Council hereby informs ADEM that the City's six wastewater treatment plants are in compliance with ADEM's sanitary sewer system regulations.

ADOPTED this the <u>24th</u> day of <u>April</u> , 202	25.
	President of the City Council City of Huntsville, Alabama
APPROVED this the <u>24th</u> day of <u>April</u> , 20	025.
	Mayor of the City of Huntsville, Alabama

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILIT	Y: WESTERN AREA WWTP	NPDES #:NPDES #:
MUNICIPALITY:	HUNTSVILLE	COUNTY: MADISON
CONTACT PERSON:	RANDALL STEWART Responsible Official DIRECTOR OF WATER POLLUT	ION CONTROL
	Title	
	Telephone #:	Fax #:
	Email Address: randall.stewart@hun	tsvilleal.gov
CHIEF OPERATOR:	MARK RITTMAN	
	Name Telephone #: 256-883-3719	256-883-3682 Fax #:
	Email Address: mark.rittman@hunts	
	Date: APRIL 1, 2025	
REVIEWED BY:		
	Consulting Engineer	
	Telephone #:	Fax #:
	Date:	

President of the City Council of the City of Huntsville, Alabama
Date:

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of 2024 (due **May 31**, 2025).

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

State of Alabama MWPP Annual Report Department of Environmental Management

Instructions to the Operator-in-Charge

- 1. Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet.
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD ₅ (CBOD ₅) Concentration (mg/l)	Column 3 Average Loading BOD₅ (CBOD₅) (lbs/day**)
January	14.11	86.57	10661.6
February	16.44	69.08	9144.3
March	16.93	80.75	10846.06
April	15.40	80.54	9998.63
May	18.12	57.21	8613.19
June	15.21	66.00	8615.35
July	12.94	66.36	7325.66
August	11.59	84.38	7935.71
September	10.51	85.00	7004.09
October	9.86	62.13	5200.28
November	9.59	56.75	4744.19
December	10.79	81.5	7576.20
Annual Avg.	13.46	73.02	7421.00

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow	Average Design BOD ₅ (CBOD ₅) Loading (lbs/day)
Design Criteria	20	33380
90% of the Design Criteria	18	30042

C.	How many time	es did the monthly flow	(Column 1) to the WWTP exceed 90% of design flow?
	1	(Check the approp	riate point total)
	0 - 4 = 0 pc	oints 5 or	more = 5 points
D.	How many time	es did the monthly flow (Check the approp	(Column 1) to the WWTP exceed the design flow?
	0 = 0 point	s	Ints \Box 3 – 4 = 10 points \Box 5 or more = 15 points
E.	exceed 90% o	es did the monthly B0 f the design loading?	DD_5 (CBOD ₅)* loading (lbs/day) (Column 3) to the WWTP
	0	(Check the approp	riate point total)
	■ 0 -1 = 0 po	ints	ints
F.	How many time exceed the des		DD ₅ (CBOD ₅)* loading (lbs/day) (Column 3) to the WWTP
	0	(Check the approp	oriate point total)
	0 = 0 points	☐ 1 = 10 points ☐ 2 =	=20 points
G,	Enter each poi	nt value marked for C	through F and enter the sum in the appropriate blank below.
	C points =	0	
	D points =	0	
	E points =	0	
	F points =	0	
TOT	AL POINTS VALI	IE EOD DADT 1	0
		rt 11: Summary Sheet	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

ADEM Form 417 07/15 m3 Page 5 of 17

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months 1-12	BOD₅ (CBOD₅) (mg/l) 25	TSS (mg/l) 30	NH ₃ -N (mg/l) 20	TKN (mg/l) N/A
(2) DMF	R Concentration				
<u>Qtr</u>	<u>Month</u>	$\begin{array}{c} BOD_5\\ (CBOD_5)\\ (mg/l) \end{array}$	TSS (mg/l)	NH ₃ -N (mg/l)	TKN (mg/l)
1	January	7.00	5.57	2.06	3.2
	February	5.85	5.08	0.61	4.15
	March	5.67	6.25	0,60	2.18
2	April	6.54	4.54	1.87	2.29
	May	7.71	5.71	1.55	2.16
	June	5.42	5.58	0.43	2.87
3	July	4.57	4.07	0.79	3.25
	August	6.00	3.62	0.43	2.17
	September	5.25	3.67	0.13	4.17
4	October	4.60	4.53	0.24	3.78
	November	3.92	3.08	0.09	4.98
	December	4.15	3.62	0.46	3.49
	Annual Avg.	5.56	4.61	0.77	3.22

B. List the monthly average permit limit and DMR loadings below.

(1) NPDES Permit Loading

Permit Limit	Months 1-12	BOD₅ (CBOD₅) (lbs/day) 4170	TSS (lbs/day) 5004	NH ₃ -N (lbs/day) 3336	TKN (lbs/day) N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH₃-N (lbs/day)	TKN (lbs/day)
1	January	892.95	713.0	329.93	534.64
	February	797.84	701.0	75.10	439.94
	March	783.26	882.0	88.35	294.29
2	April	816.28	572.0	240.07	321.08
	May	1181.71	880.0	238.24	292.86
	June	690.29	699.0	59.68	345.89
3	July	509.15	445.0	88.32	377.07
	August	573.77	354.0	42.34	239.73
	September	428.14	303.0	11.15	207.23
4	October	387.66	382.0	19.56	313.63
	November	328.91	258.0	7.82	434.38
	December	384.52	337.0	56.12	425.57
	Annual Avg.	647.87	543.83	104.72	352.19

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

No = 0 points		No	= 0	points
---------------	--	----	-----	--------

D.		he BOD_5 (CBOD $_5$) concentration (mg/l) and/or loading (lbs/day), a permit limit during four months of any two consecutive quarters? total.)
	No = 0 points	Yes = 121 points
E.		e effluent TSS concentration (mg/l) or loading (lbs/day) exceed the nthly average permit limit during two months of any two consecutive priate point total.)
	No = 0 points	Yes = 121 points
F		ne TSS concentration (mg/l) and/or loading (lbs/day) exceed the t during four months of any two consecutive quarters? (Check the
	No = 0 points	Yes = 121 points
G,	the product of 1.4 times t	NH_3 -N or TKN concentration (mg/l) and/or loading (lbs/day) exceed he monthly average permit limit during two months of any two ck the appropriate point total.)
	No = 0 points	Yes = 121 points
H.		her the NH_3 -N or TKN concentration (mg/l) and/or loading (lbs/day), a permit limit during four months of any two consecutive quarters? total.)
	No = 0 points	Yes = 121 points
l.	Enter each point value check	ked for C through H in the blanks below.
	C Points = 0	
	D Points = 0	
	E Points = 0	
	F Points = 0	
	G Points = 0	
	H Points = 0	
	EST INDIVIDUAL POINT VAL his value on Part 11: Summa	

ADEM Form 417 07/15 m3 Page 8 of 17

Facility	Name:

WESTERN	ARFA	MMTP
VVLOILIVIV	ハハレハ	****

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed?

2024

Subtract the above answer from the report year to determine age:

Age
$$0 = (2024) - (2024)$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

		Factor
X Mechanical Treatment Plant		2.0
Aerated Lagoon		1.5
Stabilization Pond		1.0
Other (Specify:	1	1.0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

$$\frac{2}{\text{(Factor)}} \times \frac{0}{\text{(Age)}} = \frac{0}{\text{TOTAL POINT VALUE FOR PART 3}}$$

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

Facility Name: WESTERN AREA WWTP

Part 4: Bypassing and Overflows

- How many bypass or overflow events of untreated wastewater occurred in the last year at the Α. WWTP due to heavy rain? How many bypass or overflow events of untreated wastewater occurred in the last year prior to B. the headworks of the WWTP due to heavy rain? ______0
- How many of the bypass or overflow events listed in Parts A and B have been corrected such C. that future bypass or overflow events at the same location due to heavy rain are not anticipated? _____0_
- Add together Answers A and B and subtract Answer C from that total. D.
 - A + B C = (Check the appropriate point total.) \square 1 = 5 points \square 2 = 10 points \square 3 = 15 points \blacksquare 0 = 0 points \square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points
- E. How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to equipment failure? (This includes clogged/broken lines or manholes.)_____0

 \square 8 =40 points \square 9 =45 points \square 10 =50 points \square 11 or more =100 points

- F. How many bypass or overflow events of untreated wastewater occurred in the last year due to equipment failure prior to the headworks of the WWTP? (This includes clogged/broken lines or manholes.)
- How many of the bypass or overflow events listed in Parts E and F have been corrected such G. that future bypass or overflow events at the same location due to the same equipment failure are not anticipated?
- Add together Answers E and F and subtract Answer G from that total. H.

E + F - G = 0 (Check the appropriate point total.)

- \square 1 = 5 points \square 2 = 10 points \square 3 = 15 points 0 = 0 points
- \square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points
- 8 = 40 points 9 = 45 points 10 = 50 points 11 or more = 100 points
- 1. Add point values checked in D and H and enter the total in the blank below.

TOTAL POINT VALUE FOR PART 4 Enter this value on Part 11: Summary Sheet.

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

Facility	Name:	WESTERN A	AREA WWTP					
<u>Part 5:</u>	Sludge C	Quantity and St	orage					
A.	Please provide information concerning sludge quantity, characteristics, and storage practices based on available data as requested on the MWPP Sewage Sludge Survey, ADEM Form 419.							
B.	available		or off-site? (i.e			er treatment facility hav acility operate without lan		
	(Check tl	he appropriate	point total.)					
	Greater t	than or equal t	o 4 months		X	= 0 points		
	Less that	n 4 months, bu	ıt greater than o	equal to 3 months		= 10 points		
	Less than 3 months, but greater than or equal to 2 months				= 20 points			
	Less than 2 months, but greater than or equal to 1 month					= 30 points		
	Less than one month				= 50 points			
Part 6:	Sludge D	Disposal Praction	ces and Sites					
Α.				actices and site info ne Survey, ADEM Fo		ised on available data a		
B.				facility have access posal? (Check the a		oproval for sufficient lan point total.)		
	36 or mo	re months	= 0 points					
	24 - 35 m	nonths	= 10 points					
	12 - 23 m	nonths	= 20 points					
	6 - 11 mg	onths	= 30 points					
	Less that	n 6 months	= 50 points					
		/ALUE FOR P on Part 11: Su	-	0				

ADEM Form 417 07/15 m3 Page 11 of 17

Facility Name: WESTERN AREA WWTP
Part 7: New Development
Are there any major new developments (industrial, commercial, or residential) in the last calendar year or anticipated in the next 2-3 years such that either flow or BOD_5 (CBOD $_5$) loadings to the sewage system could significantly increase? Estimate additional loadings below.
Design Design Design Population: $0 - \frac{7000}{1000}$ Flow: $0 - \frac{1}{1000}$ MGD BOD ₅ (CBOD ₅): $0 - \frac{700}{1000}$ lbs/day Equivalent (PE)
List industrial and/or residential developments.
New subdivisions with approximately 5,000 lots.
Industrial Usage will grow as well. Currently
under WWTP expansion.
Will the additional loading overload the plant? (Check the appropriate point total.)
■ No = 0 points
Enter the point total in the blank below.
TOTAL POINT VALUE FOR PART 7(highest point total = 121) Enter this value on Part 11: Summary Sheet.
Part 8: Operator Certification
Complete the Plant and Collection System Personnel Inventory, ADEM Form 441.

Do both the plant operator and collection system staffing comply with ADEM Administrative Code; Division 10, Operator Certification Program? (Check the appropriate point total.)

☐ No = 121 points Yes = 0 points

0 TOTAL POINT VALUE FOR PART 8 (highest point total = 121) Enter this value on Part 11: Summary Sheet

Facility	Name:	WESETRN	AREA W	WTP				
Part 9:	Financia	al Status						
A.		er-Charge Reve M costs being f					e expenses? If n	o, how
	Resider	ntial Minimum		0	Plus rate _	4.83	_/1,000 gal.	
	Industria	al Minimum		0	Plus rate _	4.83	_/1,000 gal.	
	Monthly	residential rat	e based or	n 6,000 gallor	ns usage \$		28.98	
B.		inancial resou ruction needs?		available to	pay for the	wastewater	improvements	and/or
	Adequate user charge system with A+ bond rating with Standard and Poors.							
C.	Please a	attach a rate sl	neet and th	ne most recer	nt audit, if avail	able.		
Part 10	: Subjec	tive Evaluation	1,					-
A,, [Describe	briefly the phy	sical and s	tructural con	ditions of the w	vastewater tre	eatment facility.	
	All con	crete and meta	l structures	are in good	condition. The	re currently e	exists no problem	ıs
	with pre	emature failure	due to cor	rosion or diff	erential settlin	g.		
В.		e the general c		-	•	ines, manhol	es, lift stations).	
								_

ADEM Form 417 07/15 m3 Page 13 of 17

What sewage system improvements does the community have planned for construction in the next 5 years?
New Process Train
New RAS/WAS Pump Station and Electrical Building
Headworks upgrade
What is the theoretical design life of the plant, and what is the estimated remaining useful life of the wastewater treatment facility?
Design life is 50 years. Remaining life is 50 years.
What problems, if any, over the last year have threatened treatment or conveyance within the system? None
 Yes. Funding is in place and studies are being conducted to ensure future funds. All projects
are approved in public forum.
low many days in the last year were there residential backups at any point in the collection ystem for any reason other than clogging of the lateral connection?
Does the plant have a written plan for preventive maintenance on major equipment items? If yes, escribe.
Yes. Electrical: Meg-Ohm, Amp Check. Mechanical: Lubrication of all bearings, seals, etc.
These tasks are preformed from preventative maintenance logs and tracked through

ADEM Form 417 07/15 m3 Page 14 of 17

1.	Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?
	(Check the appropriate response.) Yes No
\mathbf{J}_s	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?
	(Check the appropriate response.) Yes No
K.	Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plan construction or upgrading programs.
	Process train improvements as needed. \$250,000.00
	Pumping improvements as needed. \$250,000.00
L	List any additional comments. (Attach additional sheets if necessary.)
L.	\$200,000 was budgeted for routine repairs for this facility in FY24. These funds were
	allocated for various repairs including pump repairs, process equipment repairs and any other
	mechanical/electrical repairs needed. In addition, \$250,000.00 annually budgeted for the
	sanitary sewer collection system.

ADEM Form 417 07/15 m3 Page 15 of 17

Part 11: Summary Sheet

1. Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual V	alues		Maximum Possible
Part 1_	0	_points	80 points
Part 2_	0	_points	121 points
Part 3_	0	_points	40 points
Part 4 _	0	_points	200 points
Part 5_	0	_points	50 points
Part 6	0	_points	50 points
Part 7	0	_points	121 points
Part 8	0	_points	121 points
Total	0	_points	783 points

- 2. Check the facility type that best describes the plant's treatment and disposal of wastewater.
 - Mechanical plant with surface water discharge
 - Aerated Lagoon or stabilization pond with surface water discharge
 - ☐ Mechanical plant using land disposal of liquid wastes
 - Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- 3. Check the range that describes the action needed to address problems identified in the report.
 - 0 70 points Actions as Appropriate*
 - ☐ 71 120 points Departmental Recommendation Range*
 - ☐ 121 783 points Municipality Action Range*

4. Complete the *Municipal Water Pollution Prevention Resolution Form*, ADEM Form 418.

^{*}Other actions may be required by NPDES outside the scope of this report.

5.	In Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
	(Check the appropriate response.)
	If yes, provide a written explanation for this situation in the space below.

ADEM Form 417 07/15 m3 Page 17 of 17

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	acility Background Information:				
1.	Facility Information Name: Street Address: County:	WESTERN AREA 733 LANDESS CI MADISON			AL0049531 ENT PLANT
2.	Facility Contact Name: Title: Telephone: Permittee Name: Mailing Address:	RANDALL STEW DIRECTOR OF W 256-883-3719 CITY OF HUNTS' 1800 VERMONT	/ATER POLLL	JTION CONTE	ROL
	walling / laar coo.	HUNTSVILLE, AL			
Fa	acility Flow Information				
1.	Facility Wastewater Treatment Cap Avg. Daily Flow for 2024 Facility Design Capacity:		13.46 20.0	MGD MGD	
	Estimated Septage Quantity Handle Average Domestic Septage Average Commercial Semble Method of Septage Processing	nge: ptage: Vastewater for Trea	0	ptic Tank Syst gallons per gallons per	month
4.	Industrial: 50	_% _%	cribe: <u>Comme</u>	ercial	
5.	List type of wastewater treatment p PRIMARY CLARIFIER, 0 OXIDATION DITCH, SE	COARSE BUBBLE	AERATION A	ND EXTENDE	ED AIR
6.	Estimated sewage sludge wasting	rate at this facility		15189	lb/day dry weight gallons per day
7.	Estimated untreated sludge receive	ed from off site:	or	0	lb/day dry weight gallons per day
8.	Estimated percent solids of combine	ned sewage sludge	prior to treatm	nent:	70 %

9. List the sew	/age sludge treatment p	rocesses us	ed in prepar	ing sludge for final us	e or disposal:	
	N/A			Sludge Quanti ated pounds p	•	
	IN/A					
				ē <u> </u>		
				-		
10. Estimate ti	he total volume of sludg	e generated			2772	
				(dry	U.S. tons per	уеаг)
Sludge Dispos	al Methods					
1. Which of the	e following describes the	e current me				
		Approved	Current P by ADEM	ractices Quantity		Practices by ADEM
		Yes	No No	(dry U.S. tons/year)	Yes	No ADEM
a. 🗓 La	and Application, Bulk	100	110	tary o.o. tonoryour	<u>. 1 0 0</u>	110
	hipped					
0	Agriculture				0	
0	Forest		0		0	
0	Public Contact	0			0	
0	Lawn/Home Garden				0	
ьПі						
	and Application, agged/Other Container					
	Agriculture	0	0 8		- 0	П
	Forest	0			0	
	Public Contact	0	0		_	0
	Lawn/Home Garden	0	0		0	0
	Lawii/Home Garden	•			ш	_
c. x In	cineration	X	0	2772	X	
_						
	ubtitle D Landfill	0	0		0	0
	Disposal Only) ined Treatment Lagoon	ш	Ä		- "	u
	r Stabilization Pond		0			8
f. 🛭 U	nlined Lagoon or				=-/-	
S	tabilization Pond				_ 0	
g. 🛮 O	ther (Please Describe)		0		_: 0	0
2 If "f" was so	elected above and sludge	a is stored f	or 2 or more	Vears enter the dista	ance hetween	the
	al site and the property		01 2 01 111010	feet	ande between	
surface dispos	al site and the property	iii iC.	7	lect		
Pollutant Conc	entrations					
1. Enter the to	tal concentrations of the	following a	nalytes usin	g existing data. Do n		
	Concentration	Sar	nple	Sample	Detection	Level of
Analyte	(mg/kg or ppm)	Ту	pe	Date	Anal	ysis

ATTACHMENT 3

Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				
Ammonium-				
Nitrogen				
Nitrate-				
Nitrogen Total Kjeldahl				
Nitrogen				
1. Which class 40 CFR Part 5	vided for Sewage Sludges of pathogen reduction 03) Class A Alternative A1 - Time a Alternative A2 - Alkaline Alternative A3 - Analysi Alternative A4 - Analysi Alternative A5 - Proces	nd Temperature e Treatment s and Operation s Only ses to Further Reduce F		
0 C 0	class B Alternative B1 - Fecal C Alternative B2 - Proces	Coliform Count s to Significantly Reduce estion	ilization	☐ Anaerobic Digestion
	Alternative B3 - PSRP I leither or Unknown	Equivalent		

Vector Attraction Control
 □ Option 1 - Minimum 38% Reduction in Volatile Solids □ Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction □ Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction □ Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sludge □ Option 5 - Aerobic Processes plus Elevated Temperature □ Option 6 - Raised pH to 12 and Retained at 11.5 □ Option 7 - 75% Solids with no Unstabilized Solids □ Option 8 - 90% Solids with Unstabilized Solids □ Option 9 - Injection Below Land Surface □ Option 10 - Incorporation into Soil within 6 or 8 Hours □ Option 11 Covering Active Sewage Sludge Unit Daily □ None of the Above
Groundwater Monitoring
 If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes Yes, please submit a copy of the groundwater monitoring reports along with this survey. Also please provide the approximate depth to groundwater and the groundwater monitoring procedures used to obtain the data.)
Land Application of Sewage Sludge
Answer the following questions if sewage sludge is applied to land. 1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A
If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation N/A
If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors? N/A

Permittees that submitted the "Annual Report Review Form" for sludge to the EPA may submit a copy with the MWPP in lieu of Attachment 3.

		PLANT A	AND CO	LLECTIC	N SYSTE	M PER	SONNEL INVEN	TORY		
FACILITY	NAME:	City of H	Huntsville Western Area WWTP				PLANT	GRADE:	IV	
PERMIT N	NUMBER:	AL00495	31				- 0			
PLANT SI	JPERINTEN	DENT:	Mark Rittman					TEL.#	256-883-3719	
SYSTEM	MANAGER:		Randall S	Stewart				TEL.#	256-883-3719	
PLANT O	PERATORS:									
	N	AME			DE OR E STATUS	0	PERATOR NO.	I EXP.	DATE	
1. Mark Rittn					IV		C002451		30/26	
2, Randall C					IV		C004919		31/27	
3. Jorge Esti					IV		C008853		31/26	
									31/26	
4. Jeremy Lo					IV I		C003116	i i		
5. Noah Perr					IV		C009543	1	31/24	
6. Devin Smi					IV		C007990		08/31/25	
7. Cameron	Sloan				IV		C009897	9/3	50/25	
8. Timothy T	arpley				IV		C002279	9/30	0/2026	
9										
COLLECT	ION SYSTE	M OPERATO	RS:	·	79			:all		
1. Donald Br	own				ıc		C006081	10/3	31/26	
2. Dennis Ho	olt				С		C009619	09/	30/26	
3. Terrell Poi	indexter				С		C008173	07/3	31/25	
4. Sam Row	an				С		C009546	08/	31/26	
DESIGNA LABORAT MAINTEN	TED TRAINE	GRADE I-C GRADE I GRADE II GRADE IV EE(S)	80	RS./WK	1 4 6 2		AVERAGE NUMBER 1ST 2 2ND 1		EES PER SHIFT: START TIME 6:00 A 6:00 P	
OPERATO	OR SHIFTS N			ACH DAY: WED	THURS	FRI	SAT			
	SUN 12	MON 12	TUES 12	12	12	12	12			
1ST	1/	I Z	I Z							

ADEM USE ONLY

1. DOES PLANT OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

2. DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

YES	NO
ADEM FORM 44	1 8/02

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.5

(Submission #: HQ8-S7WJ-K0J3V, version 2)

Digitally signed by: AEPACS

Date: 2024.12.11 10:07:45 -06:00 Reason: Submission Data

Location: State of Alabama

Details

Submission Alias NPDES Sanitary Sewer Overflow (SSO) Event Report

SSO ID

SSO-00212177

Submission ID

HQ8-S7WJ-K0J3V

Form Input

General Instructions

All publicly or privately owned wastewater treatment plants holding an NPDES permit are required to provide immediate notification to the Alabama Department of Environmental Management (ADEM), county public health officials, the public, and any other affected entity such as public water systems as soon as possible upon becoming aware of any notifiable sanitary sewer overflow (SSO) events.

A "notifiable SSO", as defined in ADEM Admin. Code r. 335-6-6-.02(hh), is an overflow, spill, release or diversion of wastewater from a sanitary sewer system that either (1) reaches a surface water of the State or (2) may imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.

Immediate notification shall be provided within 24 hours of becoming aware of the event. This immediate notification may be made either verbally to the Department's SSO Hotline at (334) 274-4200 or electronically to the Department's Alabama Environmental Permitting and Compliance System (AEPACS) system. The follow-up report shall be submitted within five days of becoming aware of the SSO event using the Department's AEPACS system.

Special Note:

The Sanitary Sewer Overflow map allows users to see the locations of SSOs that have been reported to the Department. They are displayed on the map for 10 days after the SSO has ceased. The colors indicate the volume of the discharge.

Click on any dot on the map and a popup will display information about the SSO(s).

At the top of the popup that is displayed after clicking on a dot, there is a number that indicates the number of SSOs at that location. Users can cycle through them by clicking on the arrows at the top of the popup.

At the bottom of the popup is a link ("click for eFile") that will take users to SSOs reported from that facility. The eFile entries that appear are sorted by date from most recent to oldest and contain only SSO reports.

Users can zoom in and out by using the +/- buttons at the top left of the map, the scroll on their mouse, or by holding the Shift key down while clicking and dragging a box on the map to zoom in.

The Switch Basemap button at the top right of the page allows users to select a different basemap. Please also be aware that the SSOs reported to the Department will appear on a public map here.

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of Submit both the Initial 24-hour notification and 5-day report concurrently."

12/11/2024 10:07:44 AM Page 1 of 5

Indicate which of the following describes the status of this SSO notification/report: Submit the 5-day Report

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?

Yes

Permittee Information

Permit Number

AL0049531

Permittee

City of Huntsville

Facility/Site Information

Facility Name

Western Area WWTP

Facility County

Madison

Assigned SSO ID

Assigned SSO ID

SSO-00212177

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
12/09/2024	01:45 pm

Is the SSO on-going?

No

Date/Time SSO Event Stopped:

Date	Time		
12/09/2024	04:30 pm		

Did the SSO occur during wet weather?

No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?

Note:

If estimated volume discharged is known, the VALUE section should be completed. If you only select a RANGE, you should be aware that the estimated volume discharged will be considered to be the largest value of the range selected. Estimated volumes above 1,000,000 gallons must be entered as a VALUE.

Report Estimated Volume Discharged as

Range

Estimated Volume Discharged (Range)

750,000 < gallons <= 1,000,000

Indicate source of discharge event

Broken Line

County in which SSO occurred (check all that apply)

Limestone

You have selected a county that is not the same as the the facility county. If that is not correct, please change your selection.

Note

For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):

Map Help link

Latitude/Longitude of discharge

34.65039394765177,-86.8176048804556

Note

Please specify either the street address or location description for the discharge

Street Address

Alabama Highway 20

City

Madison

State

ΑL

ZIP Code

35756

Location Description

South side of I-565, near the cul-de-sac of Alabama Highway 20 service road and the entrance to the Beaverdam Nature Trail.

Known or suspected cause of the discharge

Ductile Iron Pipe Failure

Destination of discharge

Ground Absorbed

Other (Please Describe)

Please describe the �Other� destination(s) of the discharge:

Discharge reached the surface and contained within a bearm area where the discharge either was ground absorbed or evaporated.

Did the discharge reach a designated swimming water?

No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:

Ongoing (Monitoring results will be submitted to ADEM upon completion)

Was the affected area cleaned?

Yes

Was the affected area disinfected?

Yes

Are you aware of any other potential health or environmental impacts?

No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.

The cause of the SSO was a broken pipe. That section of pipe has been repaired. Affected area was sprayed with disinfectant and covered in lime. Excavation area will be seeded and covered with straw.

Please attach supporting information, if applicable:

NONE PROVIDED

Comment

NONE PROVIDED

Indicate efforts to notify public (check all that apply):

Placement of Signs

Date signs were placed:

12/10/2024

Indicate Other Officials Notified (check all that apply):

State Health Department Other (Please Describe)

State Health Department notification date:

12/10/2024

Please describe the �Other� officials notified:

U.S. Fish & Wildlife Service (per phone call and e-mail)

Other Officials Notification Date:

12/10/2024

Other States notified:

NONE PROVIDED

Were any public water supply intake locations affected?

No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

A pipe failure was the cause of this SSO. The pipe section was replaced and the affected area was cleaned/disinfected. We will continue to monitor the area to see if any further action is required.

Revisions

Revision	Revision Date	Revision By
Revision 1	12/10/2024 11:21 AM	Donald Brown
Revision 2	12/10/2024 1:47 PM	Donald Brown

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein, Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By

Randall Stewart on 12/11/2024 at 10:02 AM

12/11/2024 10:07:45 AM Page 5 of 5

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILIT	Y: ALDRIE	OGE CREEK WWTP	NPDES #:NPDES #:			
MUNICIPALITY:	HUNTSVILLE		COUNTY: MADISON			
CONTACT PERSON:	RANDALL S					
	<u> </u>	Responsible Official DIRECTOR OF WATER POLLUTION CONTROL				
	Title					
	Telephone #:	256-883-3719	Fax #:			
	Email Address	randall.stewart@hun	tsvilleal.gov			
CHIEF OPERATOR:	SKYLAR RE	NFROE				
office of Engloss.	Name					
	Telephone #:	256-883-3719	Fax #:			
	Email Address	skylar.renfroe@hunts	svilleal.gov			
	Date: April 1,	2025				
REVIEWED BY:			κ			
-	Consulting En	gineer				
	Telephone #:		Fax #:			
	Date:					

ADEM Form 417 07/15 m3 Page 1 of 17

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of $\frac{2024}{2025}$ (due **May 31**, $\frac{2025}{2025}$).

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

ADEM Form 417 07/15 m3 Page 2 of 17

State of Alabama MWPP Annual Report Department of Environmental Management

Instructions to the Operator-in-Charge

- 1. Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet,
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD ₅ (CBOD ₅) Concentration (mg/l)	Column 3 Average Loading BOD₅ (CBOD₅) (lbs/day**)
January	5.66	248.64	10424.7
February	5.95	161.46	7361.2
March	5.40	174.75	8152.1
April	4.60	252.38	9341.5
May	5.08	176.86	8058.6
June	4.47	204.25	6875.8
July	3.75	185.29	5756.0
August	3.33	172.85	4802.7
September	3.31	146.92	4122.4
October	3.37	167.07	5012.7
November	3.57	128.25	4165.8
December	4.10	184.46	6163.3
Annual Avg.	4.09	183.60	6686.4

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow	Average Design BOD₅ (CBOD₅) Loading (lbs/day)
Design Criteria	8.4	14020
90% of the Design Criteria	7.6	12618

C.	How many time 0	s did the monthly flow (C		exceed 90% of design flow?
	0 - 4 = 0 poi		pre = 5 points	
D.	How many time	s did the monthly flow (C (Check the appropriate	,	exceed the design flow?
	0 = 0 points	1 - 2 = 5 points	3 - 4 = 10 points	5 or more =15 points
E,		es did the monthly BOD₅ the design loading? (Check the appropriat		day) (Column 3) to the WWTP
	■ 0 -1 = 0 poir	nts 2 – 4 =5 points	5 or more =10 p	points
F,	exceed the desi	ign loading?		day) (Column 3) to the WWTP
	00	(Check the appropria		
	0 = 0 points] 1 = 10 points [] 2 = 20	points 3 = 30 points	☐ 4 =40 points ☐ 5 or more =50 points
G.	Enter each poin	t value marked for C thro	ough F and enter the su	m in the appropriate blank below.
	C points =	0		
	D points =	0		
	E points =	0		
	F points =	0		
	AL POINTS VALU r this value on Par	E FOR PART 1 t 11: Summary Sheet.	0	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months 1-12	BOD ₅ (CBOD ₅) (mg/l) 25	TSS (mg/l) 30	NH ₃ -N (mg/l) 20	TKN (mg/l) N/A
(2) DMF	R Concentration				
<u>Qtr</u>	<u>Month</u>	BOD ₅ (CBOD ₅) (mg/l)	TSS (mg/l)	NH ₃ -N (mg/l)	TKN (mg/l)
1	January	5.14	3.14	0.19	5.11
	February	3.92	2.23	0.54	8.16
	March	4.08	3.42	0.09	0.93
2	April	3.92	2.54	0.19	0.53
	' May	3.79	2.07	0.15	0.65
	June	3.00	2.08	0.09	0.61
3	July	2.50	2.29	0.09	1.29
	August	3.31	2.08	0.12	0.16
	September	3.50	2.17	0.11	4.52
4	October	2.80	2.73	0.10	9.05
	November	3.67	2.75	0.07	6.16
	December	4.00	4.00	0.15	2.56
	Annual Avg.	3.64	2.63	0.16	3.31

B. List the monthly average permit limit and DMR loadings below.

(1) NPDES Permit Loading

Permit Limit	Months 1-12	BOD₅ (CBOD₅) (lbs/day) 1751	TSS (lbs/day) 2101	NH₃-N (lbs/day) 1401	TKN (lbs/day) N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH ₃ -N (lbs/day)	TKN (lbs/day)
1	January	240.41	140.0	9.73	211.38
	February	197.7	112.0	22.04	368.17
	March `	199.96	154.0	4.36	64.69
2	April	164.34	105.0	8.22	19.23
	May	166.03	96.0	6.38	23.69
	June	106.51	78.0	3.31	12.31
3	July	79.43	72.0	2.85	31.09
	August	92.52	59.0	3.31	4.16
	September	97.13	60.0	2.96	119.50
4	October	83.62	83.0	2.89	321.53
	November	119.01	90.0	2.16	233.24
	December	134.88	132.0	4.63	98.85
	Annual Avg.	140.13	98.41	6.07	125.65

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

	No =	0	points	
--	------	---	--------	--

D.	exceed the r	oast year did t monthly average ppropriate point	he BOD_5 (CBOD $_5$) concentration (mg/l) and/or loading (lbs/day), a permit limit during four months of any two consecutive quarters? It total.)	
	■ No = 0 po	oints	Yes = 121 points	
E,	product of 1.	4 times the mor	e effluent TSS concentration (mg/l) or loading (lbs/day) exceed the onthly average permit limit during two months of any two consecutive priate point total.)	
	■ No = 0 po	oints	Yes = 121 points	
F _*	During the pmonthly averappropriate p	rage permit limi	he TSS concentration (mg/l) and/or loading (lbs/day) exceed the t during four months of any two consecutive quarters? (Check the	
	■ No = 0 po	oints	Yes = 121 points	
G.	During the past year did the NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day) extends the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)			
	■ No = 0 po	oints	Yes = 121 points	
H,	exceed the r	ast year did eith monthly average ppropriate point	ner the NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day) e permit limit during four months of any two consecutive quarters? t total.)	
	■ No = 0 po	oints	Yes = 121 points	
1.	Enter each p	oint value checl	ked for C through H in the blanks below.	
	C Points =	0		
	D Points = _	0		
	E Points = _	0		
	F Points =	0		
	G Points =	0		
	H Points = _	0		
	-			
HIGHE Enter	EST INDIVIDU this value on F	JAL POINT VAL Part 11: Summa	UE FOR PART 2 (C-H) 0 (HIGHEST POINT = 121) iry Sheet.	

ADEM Form 417 07/15 m3 Page 8 of 17

Fac	cility	Na	me:

ALDRIDGE CREEK WWTP

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed?

2024

Subtract the above answer from the report year to determine age:

Age
$$0 = (2024) - (2024)$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

		Factor
Mechanical Treatment Plant		2.0
Aerated Lagoon		1.5
Stabilization Pond		1.0
Other (Specify:	1	1 0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

$$\frac{2}{\text{(Factor)}} \times \frac{0}{\text{(Age)}} = \frac{0}{\text{TOTAL POINT VALUE FOR PART 3}}$$

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

:		NI.	
Faci	IITV.	ıvaı	me:

ALDRIDGE CREEK WWTP

Part 4: Bypassing and Overflows

A.	How many bypass o			ter occurred in the last year at the
B.	How many bypass o the headworks of the			er occurred in the last year prior to
C.		or overflow events		A and B have been corrected such ation due to heavy rain are no
D.	Add together Answei	rs A and B and subtr	act Answer C from tl	nat total,
	A + B - C =	0(Che	eck the appropriate p	point total.)
	0 = 0 points	☐ 1 = 5 points	☐ 2 =10 points	☐ 3 =15 points
	☐ 4 =20 points [5 =25 points	☐ 6 = 30 points	7 = 35 points
	☐ 8 =40 points [9 =45 points	☐ 10 =50 points	11 or more =100 points
E.				ter occurred in the last year at the sen lines or manholes.)0
F,	How many bypass o equipment failure pri manholes.)	ior to the headworks	untreated wastewat of the WWTP? (Th	er occurred in the last year due to is includes clogged/broken lines o
G.		r overflow events at	the same location of	E and F have been corrected such due to the same equipment failure
Н.	Add together Answei	rs E and F and subtr	act Answer G from t	nat total.
	E+F-G=	(Che	eck the appropriate p	point total.)
	0 = 0 points	☐ 1 = 5 points	2 =10 points	☐ 3 =15 points
	☐ 4 =20 points	5 =25 points	☐ 6 = 30 points	☐ 7 = 35 points
	☐ 8 =40 points	9 =45 points	☐ 10 =50 points	11 or more =100 points

Add point values checked in D and H and enter the total in the blank below.

TOTAL POINT VALUE FOR PART 4 ______0
Enter this value on Part 11: Summary Sheet.

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

Facility	Name: ALDRIDGE	CREEK WWTP					
Part 5:	Sludge Quantity and	Storage					
Α,	Please provide information concerning sludge quantity, characteristics, and storage practices based on available data as requested on the MWPP Sewage Sludge Survey, ADEM Form 419.						
B.	How many months of sludge storage capacity does the wastewater treatment facility available, either on-site or off-site? (i.e., How many months can the facility operate without spreading or disposing of sludge?)						
	(Check the appropriate	te point total.)					
	Greater than or equal	to 4 months	X	= 0 points			
	Less than 4 months, I	out greater than or equal to 3 months		= 10 points			
	Less than 3 months, I	out greater than or equal to 2 months		= 20 points			
	Less than 2 months, I	out greater than or equal to 1 month		= 30 points			
	Less than one month			= 50 points			
	Sludge Disposal Prac	tices and Sites					
Α.		ludge disposal practices and site informat PP Sewage Sludge Survey, ADEM Form 4		sed on available data as			
B.	How many months or years does the facility have access to and approval for sufficient land disposal sites to provide proper land disposal? (Check the appropriate point total.)						
	36 or more months	<pre>= 0 points</pre>					
	24 - 35 months	= 10 points					
	12 - 23 months	= 20 points					
	6 - 11 months	= 30 points					
	Less than 6 months	= 50 points					
	POINT VALUE FOR his value on Part 11: S						

ADEM Form 417 07/15 m3 Page 11 of 17

Facility	/ Name:	ALDRIDGE CR	REEK WWTP			
Part 7:	New De	velopment				
-1	calenda	r year or anticipa	ew developments (ind ated in the next 2-3 y stem could significantl	years such t	that either flow or B0	DD_5 (CBOD ₅)
	Design Populati Equivale	on: ent (PE)	Design Flow:	MGD	Design BOD ₅ (CBOD ₅):	lbs/day
	List indu	strial and/or resid	ential developments.			
	The cur	rent service arca is	s over 90% developed.			
	3					
		additional loading the appropriate po	overload the plant? pint total.)			
	No =	0 points	☐ Yes = 121 poin	nts		
1	Enter the	point total in the b	olank below.			
		VALUE FOR PAR on Part 11: Sumr		(highest	point total = 121)	
Part 8:	Operato	or Certification				

Complete the Plant and Collection System Personnel Inventory, ADEM Form 441.

Do both the plant operator and collection system staffing comply with ADEM Administrative Code; Division 10, Operator Certification Program? (Check the appropriate point total.)

Yes = 0 points

☐ No = 121 points

TOTAL POINT VALUE FOR PART 8

0 (highest point total = 121)

Enter this value on Part 11: Summary Sheet.

cility Name:	ALDRIDGE CR	REEK WWTP			
rt 9: Financia	l Status				
	r-Charge Revenu I costs being final				nce expenses? If no, ho
Yes					
-		0		4.83	
Residen	tial Minimum		Plus rate _		/1,000 gal.
Industria	ıl Minimum	0	Plus rate	4.83	/1,000 gal.
Monthly	residential rate ba	ased on 6,000 ga	llons usage \$		28.98
	nancial resource uction needs?	s are available	to pay for the	wastewate	er improvements and/
Adequat	te user charge syst	tem with A+ bone	d rating from Stan	dard and Po	oors.
Please a	attach a rate shee	t and the most re	cent audit, if avail	able.	
rt 10: Subject	tive Evaluation				
Describe	briefly the physica	al and structural o	conditions of the w	vastewater	treatment facility.
All cond	crete and metal str	ructures are in goo	od condition. The	re currently	exists no problems
with pre	mature failure du	e to corrosion or	differential settlin	g.	
	e the general condater intrusion for t			ines, manh	oles, lift stations).
-					

ADEM Form 417 07/15 m3 Page 13 of 17

	nat sewage system improvements does the community have planned for construction in the xt 5 years?
W	WTP and collection improvements will be determined from ongoing assessments.
	*
	nat is the theoretical design life of the plant, and what is the estimated remaining useful life of wastewater treatment facility?
De	esign life is 50 years. Remaining life is 50 years.
	nat problems, if any, over the last year have threatened treatment or conveyance within the stem?
-	one
_	
	ne community presently involved in formal planning for treatment facility upgrading? es. Funding is in place and studies are being conducted to ensure future funds. All projects
ar	e approved in public forum.
	many days in the last year were there residential backups at any point in the collection em for any reason other than clogging of the lateral connection?
	es the plant have a written plan for preventive maintenance on major equipment items? If yes, cribe.
Ye	es. Electrical: Meg-Ohm, Amp check. Mechanical: Lubrication of all bearings and seals, Etc.
Tł	nese tasks are preformed from preventative maintenance logs and tracked through
_	

ADEM Form 417 07/15 m3 Page 14 of 17

l.	Does this preventive maintenance program depict frequency of intervals, types of lubrication, and other preventive maintenance tasks necessary for each piece of equipment?
	(Check the appropriate response.) Yes No
J,	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?
	(Check the appropriate response.) Yes No
K.	Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plant construction or upgrading programs.
	Various Pumping Equipment \$50,000.00
	Headwork Screen Upgrades \$85,000.00
Lo	List any additional comments. (Attach additional sheets if necessary.)
L _i	\$100,000 was budgeted for the facility in FY2024. These funds were allocated for various
	repairs including pumps, process equipment and any other mechanical/electrical repairs needed
	In addition, \$200,000.00 annually budgeted for the collection system.

ADEM Form 417 07/15 m3 Page 15 of 17

Part 11: Summary Sheet

Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left 1. column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual \	/alue	<u>3</u>	Maximum Possible
Part 1_	0	_points	80 points
Part 2_	0	_points	121 points
Part 3_	_	_points	40 points
Part 4 _	0	_points	200 points
Part 5_		_points	50 points
Part 6_	Λ	_points	50 points
Part 7_	0	_points	121 points
Part 8_	0	_points	121 points
Total	0	_points	783 points

- 2. Check the facility type that best describes the plant's treatment and disposal of wastewater.
 - Mechanical plant with surface water discharge
 - Aerated Lagoon or stabilization pond with surface water discharge
 - ☐ Mechanical plant using land disposal of liquid wastes
 - Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- 3. Check the range that describes the action needed to address problems identified in the report.
 - 0 70 points

Actions as Appropriate*

71 - 120 points

Departmental Recommendation Range*

☐ 121 – 783 points Municipality Action Range*

4. Complete the Municipal Water Pollution Prevention Resolution Form, ADEM Form 418.

^{*}Other actions may be required by NPDES outside the scope of this report.

n Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
(Check the appropriate response.)
If yes, provide a written explanation for this situation in the space below.

ADEM Form 417 07/15 m3 Page 17 of 17

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	acility Background Information:		
1.	Facility Information Name:	Permit Number: AL005685 ALDRIDGE CREEK WASTEWATER TREATMENT PLANT	
	Street Address: County:	13331 MEMORIAL PARKWAY S MADISON	
	·	Whiteon	
2.	Facility Contact	DANDALL OTEMART	
	Name:	RANDALL STEWART DIRECTOR OF WATER POLLUTION CONTROL	
	Title: Telephone:	256-883-3719	
	Permittee Name:	CITY OF HUNTSVILLE	
	Mailing Address:	1800 VERMONT ROAD	
		HUNTSVILLE, AL 35802	
	- ilit. Flour Information		
	acility Flow Information	an ash.	
1.	Facility Wastewater Treatment Ca Avg. Daily Flow for 2024	· ·	
	Facility Design Capacity:		
2.		dled (Residuals Removed from Septic Tank Systems)	
	Average Domestic Septa		
	Average Commercial Se	eptage: 0 gallons per month	
3.	Method of Septage Processing		
	Mixed with Influent V	Wastewater for Treatment	
	Mixed with Sewage	Sludge	
	0		
4.	Estimated Percentage Contributing	ng Wastewater Flow	
	_	93 %	
	:	2 %	
	Other: 5	5 % Describe: Commercial	
5	List type of wastewater treatment p	process(es) utilized at this facility.	
J.		NDED AERATION OXIDATION DITCH, SECONDARY	
	CLARIFIER, CHLORINA		
		0000	
6.	Estimated sewage sludge wasting	all a same	-
		or gailons pe	day
7.	Estimated untreated sludge receiv	ved from off site: 0 lb/day dry	weight
		or gallons pe	r day
8.	Estimated percent solids of combi	pined sewage sludge prior to treatment:70	<u></u> %

9. List the sewage sludge treatment pr	rocesses us	sed in prepa	ring sludge for final use	e or disposal:	
N/A				ludge Quanti ted pounds p	-
N/A			-		
			-		
10. Estimate the total volume of sludge	e generated	ig.		424	
			(dry l	J.S. tons per	year)
Sludge Disposal Methods					
1. Which of the following describes the	e current me	ethod of sev	vage sludge disposal fo	or this facility:	
J		Current F		Proposed	Practices
		by ADEM	Quantity		by ADEM
.	<u>Yes</u>	<u>No</u>	(dry U.S. tons/year)	<u>Yes</u>	<u>No</u>
a. I Land Application, BulkShipped					
☐ Agriculture	0	0			0
☐ Forest	0	0			0
■ Public Contact	0	0		0	0
☐ Lawn/Home Garden	0	0		0	0
b Diana Annia tian					
b. I Land Application, Bagged/Other Container					
Agriculture	0	0			0
☐ Forest	0	0		0	
☐ Public Contact	П	0		0	
☐ Lawn/Home Garden		0		0	
c. x Incineration	X	0	424	х	О
c. x incineration	^	<u>u</u>	424	^	Ц
d. 🛘 Subtitle D Landfill					
(Disposal Only)				0	
e. I Lined Treatment Lagoon	n	п		n	п
or Stabilization Pond f. I Unlined Lagoon or	0				0
Stabilization Pond	0	0		0	0
g. I Other (Please Describe)	0	0		0	0
	===				
2. If "f" was selected above and sludge	e is stored f	or 2 or more	e years, enter the dista	nce between	the
surface disposal site and the property l	ine:		feet		
Pollutant Concentrations					
1. Enter the total concentrations of the	following a	nalytes usir	g existing data. Do no	t enter TCLP	results.
Concentration	Sar	mple	Sample	Detection	Level of
Analyte (mg/kg or ppm)	T\	/pe	Date	Anal	ysis

ATTACHMENT 3

			21			
Arsenic						
Cadmium						
Chromium						
Copper						
Lead						
Mercury						
Molybdenum	1					
Nickel						
Selenium						
Zinc						
Ammonium- Nitrogen						
Nitrate- Nitrogen						
Total Kjeldahl Nitrogen				и		
Treatment Provided for Sewage Sludge at the Facility 1. Which class of pathogen reduction does the sewage sludge meet at the facility? (As defined in 40 CFR Part 503) I Class A I Alternative A1 - Time and Temperature I Alternative A2 - Alkaline Treatment I Alternative A3 - Analysis and Operation I Alternative A4 - Analysis Only I Alternative A5 - Processes to Further Reduce Pathogens (PFRP) I Heat Drying I Thermophilic Aerobic Digestion I Pasteurization I Composting I Alternative A6 - PFRP Equivalent						
0	lass B Alternative B1 - Fecal (Alternative B2 - Proces	ss to Significantly Reduc estion		☐ Anaerobic Digestion		

Vector Attraction Control
 Option 1 - Minimum 38% Reduction in Volatile Solids Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sludge Option 5 - Aerobic Processes plus Elevated Temperature Option 6 - Raised pH to 12 and Retained at 11.5 Option 7 - 75% Solids with no Unstabilized Solids Option 8 - 90% Solids with Unstabilized Solids Option 9 - Injection Below Land Surface Option 10 - Incorporation into Soil within 6 or 8 Hours Option 11 Covering Active Sewage Sludge Unit Daily None of the Above
Groundwater Monitoring
 If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes In No In No
Land Application of Sewage Sludge
Answer the following questions if sewage sludge is applied to land. 1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A
If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation? N/A
If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors? N/A N/A

Permittees that submitted the "Annual Report Review Form" for sludge to the EPA may submit a copy with the MWPP in lieu of Attachment 3.

FACILITY NAME:	VTP		PLANT GRADE:		IV			
PERMIT NUMBER:	AL0056855					•11		
PLANT SUPERINTEND	DENT:	Skylar Renf	froe				_ TEL.#	(256)883-3719
SYSTEM MANAGER:		Randall Ste	wart				TEL,#	(256)883-3719
PLANT OPERATORS:			OD A	DE OB				
N/A	ME			DE OR E STATUS	O	PERATOR NO.	EXP	DATE
1 Skylar Renfroe			I	V		C009597	9/:	30/26
2 Grant Gordon				V		C009899	12/	/31/27
3 Michael Lloyd				V		C009539	4/:	30/27
4 Luke Ramsey			I	V		C009279	1/3	31/28
5 Matthew Towry				IV		C004468	8/3	31/27
6 Wesley Wheeler				IV		C002654	3/:	31/27
								 -
COLLECTION SYSTEM	M OPERATO	RS:						
I. Taylor Baker			į I	c		C009500	6/3	30/26
2. Perrin Cole				ic		C008863		31/28
3. Joshua Pence				ic		C004904	12	/31/25
<u></u>								
. Bryan Sharp				ic [C009238	9/:	30/25
Bryan Sharp		MANILU				C009238	9/	30/25
Bryan Sharp MANAGEMENT/SUPE	RVISOR	MAN H	RS./WK 40	NUMBER		C009238	9/	30/25
	RVISOR	MAN H	RS./WK	NUMBER		C009238	9/	30/25
MANAGEMENT/SUPE	GRADE I-C	MAN H	RS./WK	NUMBER				
MANAGEMENT/SUPE	GRADE I-C GRADE I	MAN H	RS./WK 40	NUMBER 1		C009238 AVERAGE NUMBER		
MANAGEMENT/SUPE	GRADE I-C GRADE I GRADE II	MAN H	RS./WK 40	NUMBER 1		AVERAGE NUMBER	OF EMPLOY	/EES PER SHIFT:
MANAGEMENT/SUPE	GRADE I-C GRADE I GRADE II GRADE III	MAN H	40 120	NUMBER 1 4		AVERAGE NUMBER	OF EMPLOY	
MANAGEMENT/SUPEI OPERATOR(S):	GRADE I-C GRADE I GRADE II GRADE III GRADE IV	MAN H	RS./WK 40	NUMBER 1		AVERAGE NUMBER	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPE	GRADE I-C GRADE I GRADE II GRADE III GRADE IV	MAN H	40 120	NUMBER 1 4		AVERAGE NUMBER 1ST 2 2ND 1	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPEROPERATOR(S): DESIGNATED TRAINE	GRADE I-C GRADE I GRADE II GRADE III GRADE IV	MAN H	40 120	NUMBER 1 4		AVERAGE NUMBER 1ST 2 2ND 1	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPEROPERATOR(S): DESIGNATED TRAINER LABORATORY	GRADE I-C GRADE I GRADE II GRADE III GRADE IV	MAN H	120 252	NUMBER 1 4 5		AVERAGE NUMBER 1ST 2 2ND 1	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPER OPERATOR(S): DESIGNATED TRAINER LABORATORY MAINTENANCE OTHER PLANT WORK	GRADE I-C GRADE II GRADE III GRADE IV EE(S)		RS./WK 40 120 252	NUMBER 1 4 5		AVERAGE NUMBER 1ST 2 2ND 1	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPER OPERATOR(S): DESIGNATED TRAINER LABORATORY MAINTENANCE OTHER PLANT WORK	GRADE I-C GRADE II GRADE III GRADE IV EE(S)	VORKED E/	252 120 ACH DAY:	NUMBER 1 4 5	FRI	AVERAGE NUMBER 1ST 2 2ND 1 3RD	OF EMPLOY	/EES PER SHIFT: START TIME 6
MANAGEMENT/SUPER OPERATOR(S): DESIGNATED TRAINER LABORATORY MAINTENANCE OTHER PLANT WORK	GRADE I-C GRADE II GRADE III GRADE IV EE(S)		RS./WK 40 120 252	NUMBER 1 4 5	FRI	AVERAGE NUMBER 1ST 2 2ND 1	OF EMPLOY	/EES PER SHIFT: START TIME 6

 2_{\circ} DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

ADEM FORM 441 8/02

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILITY	Y: BIG CO	VE WWTP	NPDES #:	AL0055042
MUNICIPALITY:	HUNTSVILLE		COUNTY:	MADISON
CONTACT PERSON:	RANDALL S Responsible C		UTION CONTRO	DL
	Title			
	Telephone #:	256-883-3719	Fax #: 256-	-883-3682
		randall.stewart@h		
CHIEF OPERATOR:	LYLE GILLII	LAND		
	Name Telephone #:	256-883-3719	Fax #: 256-	-883-3682
		lyle.gilliland@hu		
		1, 2025		
REVIEWED BY:	Conculting En	ainoor		
	Consulting En Telephone #:		Fax #:	
	Date:			

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of 2024 (due **May 31**, 2025).

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

ADEM Form 417 07/15 m3 Page 2 of 17

State of Alabama MWPP Annual Report Department of Environmental Management

Instructions to the Operator-in-Charge

- 1. Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD₅ (CBOD₅) Concentration (mg/l)	Column 3 Average Loading BOD ₅ (CBOD ₅) (lbs/day**)
January	4.31	170.17	5932.98
February	4.12	149.19	4853.50
March	4.15	141.71	5071.19
April	3.38	107.64	3004.50
May	3.72	125.30	3910.90
June	3.16	156.20	4011.50
July	2.94	139.22	3222.11
August	2.14	142.95	2417.27
September	1.91	128.43	1932.68
October	1.78	131.91	1915.28
November	2.08	93.95	1644.76
December	2.52	120.50	2457.46
Annual Avg.	3.06	133.93	3197.84

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow (MGD)	Average Design BOD₅ (CBOD₅) Loading (lbs/day)
Design Criteria	6.0	6676
90% of the Design Criteria	5.4	6008

ADEM Form 417 07/15 m3 Page 4 of 17

C.	How many times did the monthly flow (Column 1) to the WWTP exceed 90% of design flow?	
	0 (Check the appropriate point total)	
D.	How many times did the monthly flow (Column 1) to the WWTP exceed the design flow? O (Check the appropriate point total)	
	\blacksquare 0 = 0 points \Box 1 - 2 = 5 points \Box 3 - 4 = 10 points \Box 5 or more = 15 points	
E.	How many times did the monthly BOD $_5$ (CBOD $_5$)* loading (lbs/day) (Column 3) to the WWTP exceed 90% of the design loading?	
	0(Check the appropriate point total)	
	\blacksquare 0 -1 = 0 points \Box 2 - 4 = 5 points \Box 5 or more = 10 points	
F.	How many times did the monthly BOD_5 ($CBOD_5$)* loading (lbs/day) (Column 3) to the WWTP exceed the design loading?	
	0 (Check the appropriate point total)	
	■ 0 = 0 points	nts
G.	Enter each point value marked for C through F and enter the sum in the appropriate blank below.	
	C points =0	
	D points =0	
	E points =0	
	F points =0	
TO T	L DOINTS VALUE FOR BART 1	
	L POINTS VALUE FOR PART 1U this value on Part 11: Summary Sheet.	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

ADEM Form 417 07/15 m3 Page 5 of 17

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months 12-4 5-11	BOD₅ (CBOD₅) (mg/l) 25 10	TSS (mg/l) 30 30	NH ₃ -N (mg/l) 10 4	TKN (mg/l) N/A N/A
(2) DMF	R Concentration				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (mg/l)	TSS (mg/l)	NH₃-N (mg/l)	TKN (mg/l)
1	January	6.00	5.22	1.29	3.95
) ,	February	5.10	2.71	0.69	3.21
	March	4.48	2.86	0.65	1.91
2	April	4.41	2.68	0.10	2.74
	May	5.83	3.35	2.24	5.31
	June	4.75	3.15	0.90	6.87
3	July	3.52	2.87	0.40	8.79
	August	4.77	2.36	0.12	7.51
	September	5.95	4.00	0.28	7.21
4	October	4.87	5.52	0.15	5.94
	November	4.29	3.81	0.20	8.03
	December	5.27	2.86	0.30	3.33
	Annual Avg.	4.94	3.45	0.61	5.40

B. List the monthly average permit limit and DMR loadings below.

(1) NPDES Permit Loading

Permit Limit	Months 12-4 5-11	BOD₅ (CBOD₅) (lbs/day) 1251 500	TSS (lbs/day) 1501 1501	NH₃-N (lbs/day) 500 200	TKN (lbs/day) N/A N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH₃-N (lbs/day)	TKN (lbs/day)
1	January	225.48	235.0	51.03	137.37
	February	193.42	105.0	33.01	90.49
	March	158.10	101.0	24.93	96.21
2	April	125.94	75.0	2.87	79.52
	May	179.76	103.0	69.68	144.37
	June	123.87	93.0	25.72	148.40
3	July	87.35	79.0	10.22	167.88
	August	82.35	42.0	2.24	112.74
	September	91.51	63.0	3.95	106.43
4	October	71.27	79.0	2.21	84.22
	November	74.59	64.0	3.32	189.53
	December	114.15	63.0	8.42	81.48
	Annual Avg.	127.32	93.5	19.63	120.05

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

	No = 0	points	
--	--------	--------	--

D.	During the past year did the BOD_5 (CBOD ₅) concentration (mg/l) and/or loading (lbs/d exceed the monthly average permit limit during four months of any two consecutive quart (Check the appropriate point total.)					
	No = 0 points		☐ Yes = 121 points			
E,		es the mor	e effluent TSS concentration (mg/l) or loading (lbs/day) exceed the nthly average permit limit during two months of any two consecutive priate point total.)			
	No = 0 points		☐ Yes = 121 points			
F _{ac}		ermit limi	he TSS concentration (mg/l) and/or loading (lbs/day) exceed the t during four months of any two consecutive quarters? (Check the			
	No = 0 points		Yes = 121 points			
G.	the product of 1.	4 times t	NH_3 -N or TKN concentration (mg/l) and/or loading (lbs/day) exceeds the monthly average permit limit during two months of any two ck the appropriate point total.)			
	No = 0 points		Yes = 121 points			
H	During the past ye exceed the month (Check the approp	ly average	ner the NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day) e permit limit during four months of any two consecutive quarters? t total.)			
	No = 0 points		Yes = 121 points			
l.	Enter each point va	alue check	ked for C through H in the blanks below.			
	C Points =	0				
	D Points =	0				
	E Points =	0				
	F Points =	^				
	G Points =	0	==			
	H Points =	^				
		OINT VAL	UE FOR PART 2 (C-H)0 (HIGHEST POINT = 121) ry Sheet.			

ADEM Form 417 07/15 m3 Page 8 of 17

Facility	Name:

BIG COVE \	$\mathcal{N}\mathcal{N}TF$
------------	----------------------------

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed?

2024

Subtract the above answer from the report year to determine age:

Age
$$0 = (2024) - (2024)$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

	Factor
X Mechanical Treatment Plant	2.0
Aerated Lagoon	1.5
Stabilization Pond	1.0
Other (Specify:)	1.0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

-		N I	. 191
Fac	IIITV	ıvar	ne:

BIG COVE WWTP

Part 4: Bypassing and Overflows

A.	How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to heavy rain?
B.	How many bypass or overflow events of untreated wastewater occurred in the last year prior to the headworks of the WWTP due to heavy rain? 0
C.	How many of the bypass or overflow events listed in Parts A and B have been corrected such that future bypass or overflow events at the same location due to heavy rain are not anticipated?0
D.	Add together Answers A and B and subtract Answer C from that total.
	A + B - C = 0 (Check the appropriate point total.)
	\blacksquare 0 = 0 points \square 1 = 5 points \square 2 = 10 points \square 3 = 15 points
	\square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points
	☐ 8 =40 points ☐ 9 =45 points ☐ 10 =50 points ☐ 11 or more =100 points
E.	How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to equipment failure? (This includes clogged/broken lines or manholes.)0
F.	How many bypass or overflow events of untreated wastewater occurred in the last year due to equipment failure prior to the headworks of the WWTP? (This includes clogged/broken lines or manholes.)
G.	How many of the bypass or overflow events listed in Parts E and F have been corrected such that future bypass or overflow events at the same location due to the same equipment failure are not anticipated?0

H. Add together Answers E and F and subtract Answer G from that total.

E + F - G = 0 (Check the appropriate point total.) 0 = 0 points 1 = 5 points 2 = 10 points 3 = 15 points

 \square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points

 \square 8 =40 points \square 9 =45 points \square 10 =50 points \square 11 or more =100 points

I. Add point values checked in D and H and enter the total in the blank below.

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

Facilit	y Name: BIG COVE WWTP							
Part 5	5: Sludge Quantity and Storage							
Α.	Please provide information concerning sludge quantity, characteristics, and storage practices based on available data as requested on the MWPP Sewage Sludge Survey, ADEM Form 419.							
B.	How many months of sludge storage capacity does the wastewater treatment facility have available, either on-site or off-site? (i.e., How many months can the facility operate without land spreading or disposing of sludge?)							
	(Check the appropriate point total.)							
	Greater than or equal to 4 months	X	= 0 points					
	Less than 4 months, but greater than or equal to 3 months	s 🗌	= 10 points					
	Less than 3 months, but greater than or equal to 2 months	s 🗆	= 20 points					
	Less than 2 months, but greater than or equal to 1 month		= 30 points					
	Less than one month		= 50 points					
Part 6	S: Sludge Disposal Practices and Sites							
Α,	Please provide the sludge disposal practices and site in requested on the MWPP Sewage Sludge Survey, ADEM F		ased on available d	lata as				
B.	How many months or years does the facility have acce disposal sites to provide proper land disposal? (Check the			nt land				
	36 or more months = 0 points							
	24 - 35 months							
	12 - 23 months							
	6 - 11 months							
	Less than 6 months							
	L POINT VALUE FOR PART 60 this value on Part 11: Summary Sheet.							

ADEM Form 417 07/15 m3 Page 11 of 17

Facility	Name:

BIG COVE WWTP

Part 7: New Development

						nat either flow or Estimate additiona		
Pop	sign oulation: uivalent (PE)	3000	Design _Flow:	0.50	_MGD	Design BOD ₅ (CBOD ₅):_	600	_lbs/day
	industrial and/o							
Nev	w subdivisions v	with estima	ted 1500 lots					
4								
·								
	I the additional le eck the appropr			nt'?				
	No = 0 points	[Yes = 12	1 points				
Enter	r the point total	in the blank	_					
	INT VALUE FO value on Part 11		Sheet.	(h	ighest p	oint total = 121)		
Part 8: Op	erator Certificat	ion_						
Complete tl	he <i>Plant and Co</i>	ollection Sy	stem Person	nel Invento	ory, ADE	M Form 441		
Code	ooth the plant of	perator Ce	rtification Pro		taffing o	comply with ADE	M Admi	nistrative
	Yes = 0 points	[No = 121	points				
	OINT VALUE FO value on Part 11		Sheet.	(h	ighest p	oint total = 121)		

Are there any major new developments (industrial, commercial, or residential) in the last

Facility	Name:	BIG COVE	WWTP						
<u>Part 9:</u>	Financia	l Status							
A.	Are User-Charge Revenues sufficient to cover operation and maintenance expenses? If no, how are O&M costs being financed? <i>Include user charge rates</i> . Yes								
		tial Minimum		0	Plus rate	4.83	_/1,000 gal.		
		al Minimum residential rate	e based or		Plus rate _ s usage \$		_/1,000 gal. 28.98		
B. What financial resources are available to pay for the wastewater improvement reconstruction needs? Adequate user charge system with A+ bond rating with Standard and Poors.								ind/or	
C.	Please a	attach a rate sł	neet and th	ne most recen	t audit, if avail	able.			
Part 10): Subjec	tive Evaluation	[
Α. [All cond		structures	are in good c	ondition. The	re currently	eatment facility. exists no problems		
В.		e the general c				ines, manhol	les, lift stations).		

What sewage system improvements does the community have planned for construction in the next 5 years?							
Upgrades to process train equipment							
Upgrades to pumping equipment							
What is the theoretical design life of the plant, and what is the estimated remaining useful life of the wastewater treatment facility?							
Design life is 50 years. Remaining life is 50 years.							
NAME at a replaced if any area the last reach bare threatened treatment or conveyence within the							
What problems, if any, over the last year have threatened treatment or conveyance within the system?							
None							
s the community presently involved in formal planning for treatment facility upgrading?							
Yes. Funding is in place and studies are being conducted to ensure future funds. All projects							
are approved in public forum.							
low many days in the last year were there residential backups at any point in the collection ystem for any reason other than clogging of the lateral connection?							
Ooes the plant have a written plan for preventive maintenance on major equipment items? If yes, escribe.							
Yes. Electrical: Meg-Ohm, Amp check. Mechanical: Lubrication of all bearings, seals, etc.							
These tasks are preformed from preventative maintenance logs and tracked through							
department databases.							

ADEM Form 417 07/15 m3 Page 14 of 17

I.	Does this preventive maintenance program depict frequency of intervals, types of lubrication, and other preventive maintenance tasks necessary for each piece of equipment?						
	(Check the appropriate response.) Yes No						
J.	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?						
	(Check the appropriate response.) Yes No						
K.	Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plant construction or upgrading programs.						
	Screen Upgrade \$60,000.00						
	Pumping Equipment \$50,000.00						
	·						
L	List any additional comments. (Attach additional sheets if necessary.)						
	\$175,000 was budgeted for routine repairs to this facility in FY24. These funds were						
	allocated for various repairs including pump repairs, process equipment repairs and any other						
	mechanical/electrical repairs needed. In addition, approximately \$50,000.00 annually budgeted						
	for the sanitary sewer collection system.						

ADEM Form 417 07/15 m3 Page 15 of 17

Facilit	νN	ame
ı acılı	.y ıvı	anne

BIG COVE WWTP

Part 11: Summary Sheet

1. Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual Values			Maximum Possible
Part 1_	0	_points	80 points
Part 2_	0	_points	121 points
Part 3_	0	_points	40 points
Part 4 _	0	_points	200 points
Part 5_	0	_points	50 points
Part 6_	0	_points	50 points
Part 7		_points	121 points
Part 8_	0	_points	121 points
Total	0	_points	783 points

- 2. Check the facility type that best describes the plant's treatment and disposal of wastewater.
 - Mechanical plant with surface water discharge
 - Aerated Lagoon or stabilization pond with surface water discharge
 - Mechanical plant using land disposal of liquid wastes
 - Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- Check the range that describes the action needed to address problems identified in the report. 3.
 - 0 70 points

Actions as Appropriate*

71 - 120 points

Departmental Recommendation Range*

☐ 121 – 783 points Municipality Action Range*

Complete the Municipal Water Pollution Prevention Resolution Form, ADEM Form 418. 4.

^{*}Other actions may be required by NPDES outside the scope of this report.

In Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
(Check the appropriate response.)
If yes, provide a written explanation for this situation in the space below.

ADEM Form 417 07/15 m3 Page 17 of 17

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	cility Background Information:				
1.	Facility Information		Permit Nu	umber:	AL0055042
	Name:	BIG COVE WWTP			
	Street Address:	260 ROUNDBAR DI	₹		
	County:	MADISON			
2.	Facility Contact				
	Name:	Randall Stewart			
	Title:	DIRECTOR OF WA	TER POLLUT	TION CONT	ROL
	Telephone:	256-883-3719			
	Permittee Name:	CITY OF HUNTSVIL			
	Mailing Address:	1800 VERMONT RO			
		HUNTSVILLE, AL 3	5802		
Fa	cility Flow Information				
		•			
1.	Facility Wastewater Treatment Ca Avg. Daily Flow for 2024		3.06	MGD	
	<u> </u>		6.00	- MGD	
	Facility Design Capacity:	2	0.00	- IVIGD	
2.	Estimated Septage Quantity Handl	ed (Residuals Remov	ed from Sept	tic Tank Sys	items)
	Average Domestic Septa		0	gallons pe	
	Average Commercial Se		0	gallons pe	r month
	Ü		View en		
3.	Method of Septage Processing				
		Vastewater for Treatn	nent		
	Mixed with Sewage \$	Sludge			
	0				
4	Estimated Descritors Contributing	· Mastaustar Flour			
4.	Estimated Percentage Contributing				
	· · · · · · · · · · · · · · · · · · ·	5 %			
		<u> </u>		-:-1	
	Other: 5	_% Describ	oe: Commerc	ciai	
5	List type of wastewater treatment p	process(es) utilized at	this facility:		
٥.	OXIDATION DITCH, FIN			TION	
	OND THOU BUT ON, THE				*
	-				
6.	Estimated sewage sludge wasting	rate at this facility:	2	132	lb/day dry weight
			or		gallons per day
7.	Estimated untreated sludge receive	ed from off site:		0	lb/day dry weight
			or		gallons per day
0	Estimated percent solids of combine	and cowage divides to	ior to trootmo	ant.	70 %
O.	Estimated percent solids of compil	ieu sewaye siuuye pi	וטו נט נו במנווול	51 U.S.	10 /0

List the sewage sludge treatment properties.	ocesses us	еа п ргера		Sludge Quant eated pounds p	ity
N/A			-		
40. Estimate the total values of glude	o gonoratad		-	389	
10. Estimate the total volume of sludge	e generated		(dry	U.S. tons per	year)
Sludge Disposal Methods					
1. Which of the following describes the	e current me				
	Annroved	Current I by ADEM	Practices Quantity	•	l Practices I by ADEM
	Yes	No	(dry U.S. tons/year		No No
 a.		<u></u>			
☐ Agriculture		0		_ 0	
☐ Forest		0			
■ Public Contact		0		0	
Lawn/Home Garden	0	0		0	
b. I Land Application, Bagged/Other Container					
Agriculture		0			0
☐ Forest	0	0		0	0
☐ Public Contact		0		0	
☐ Lawn/Home Garden	0			0	
c. X Incineration	X		389	_ x	0
d. Subtitle D Landfill	11-11	_		-	_
(Disposal Only)				_ 0	0
e. I Lined Treatment Lagoon or Stabilization Pond	0	0		П	П
f. I Unlined Lagoon or	_	_	7	_	_
Stabilization Pond		0		_ 0	
g. I Other (Please Describe)	0	0	-	0	D
2. If "f" was selected above and sludge	e is stored f	or 2 or mor	e years, enter the dis	tance between	the
surface disposal site and the property	ine:		_feet		
Pollutant Concentrations					
1. Enter the total concentrations of the				not enter TCLF	results.
Concentration Analyte (mg/kg or ppm)		nple me	Sample Date	Detection	
Analyte I (mg/kg or nnm) I	1 1	/ DE	ı Dare	anai	VOID

ATTACHMENT 3

Arsenic						
Cadmium						
Chromium						
Copper						
Lead						
Mercury						
Molybdenum						
Nickel						
Selenium						
Zinc						
Ammonium-						
Nitrogen						
Nitrate- Nitrogen						
Total Kjeldahl						
Nitrogen						
Treatment Provided for Sewage Sludge at the Facility 1. Which class of pathogen reduction does the sewage sludge meet at the facility? (As defined in 40 CFR Part 503) Class A Alternative A1 - Time and Temperature Alternative A2 - Alkaline Treatment Alternative A3 - Analysis and Operation Alternative A4 - Analysis Only Alternative A5 - Processes to Further Reduce Pathogens (PFRP) Heat Drying Thermophilic Aerobic Digestion Pasteurization Gamma Ray Irradiation Beta Ray Irradiation Composting						
Alternative A6 - PFRP Equivalent						
 Class B Alternative B1 - Fecal Coliform Count Alternative B2 - Process to Significantly Reduce Pathogens (PSRP) Aerobic Digestion Air Drying Anaerobic Digestion Composting Lime Stabilization Alternative B3 - PSRP Equivalent Neither or Unknown 						

Vector Attraction Control
 Option 1 - Minimum 38% Reduction in Volatile Solids Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sludge Option 5 - Aerobic Processes plus Elevated Temperature Option 6 - Raised pH to 12 and Retained at 11.5 Option 7 - 75% Solids with no Unstabilized Solids Option 8 - 90% Solids with Unstabilized Solids Option 9 - Injection Below Land Surface Option 10 - Incorporation into Soil within 6 or 8 Hours Option 11 Covering Active Sewage Sludge Unit Daily None of the Above
Groundwater Monitoring
 If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes Yes No this survey. Also please provide the approximate depth to groundwater and the groundwater monitoring procedures used to obtain the data.)
Land Application of Sewage Sludge
Answer the following questions if sewage sludge is applied to land. 1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A
If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation? N/A
If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors? N/A
1417.7

* Permittees that submitted the "Annual Report Review Form" for sludge to the EPA may submit a copy with the MWPP in lieu of Attachment 3.

FACILITY NAME: BIG COVE WWTP			PLANT GRADE: IV				
PERMIT NUMBER: AI	_0055042					<u>=</u> :	
PLANT SUPERINTENDENT: Lyle Gilliland				TEL. # <u>256-883-3719</u>			
SYSTEM MANAGER: Randall Stewart					TEL. # 256-883-3719		
PLANT OPERATORS:	_						
NAME	=	î		DE OR E STATUS	0	PERATOR NO.	EXP DATE
				IV I		C000559	06/30/25
. Lyle Gilliland							
2. Kenneth Barecky				IV .		C006511	6/30/26
3. Joseph Goss				V		C006469	1/31/25
Don McIlhargey				V		C006803	09/30/25
Ben Thompson				V		C009896	12/31/27
6 Dustin Yarbrough				v		C004265	4/30/25
7							
COLLECTION SYSTEM C	PERATOR	S:					
. Christopher Beck				c		C008674	1/31/25
2. Mike Duffy				С		C000482	8/31/25
3. Michael Hall				С		C004613	1/31/2025
David Sloan				С		C008971	7/31/2026
MANAGEMENT/SUPERV	ISOR [MAN HI		NUMBER 1			
OPERATOR(S):	Journ L	Profit	0.1000				
GF	RADE I-C	6	0	4			
	GRADE I					AVERAGE NUMBE	R OF EMPLOYEES PER SHIFT:
	GRADE III					1ST 2	START TIME 6:00 AM
	RADE IV	20	00	6		2ND 1	6:00 PM
DESIGNATED TRAINEE(S	1					=======================================	
LABORATORY							
MAINTENANCE		4	0	2			
OTHER PLANT WORKER	s L						
OPERATOR SHIFTS NOF	204011 V 104	OBKED E/	VCH DVA:				
	MON	TUES	WED	THURS	FRI	SAT	
SUN		12	12	12	12	12	
1ST 12	12	14					

1. DOES PLANT OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

2. DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

X ADEM FORM 441 8/02

PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILITY	Y: CHASE	WWTP	NPDES #:	AL0057428
MUNICIPALITY:	HUNTSVILLE		COUNTY:	MADISON
CONTACT PERSON:	RANDALL S Responsible C		TION CONTRO	DL
	Title	050 000 0740	050	000 0000
	Telephone #:	256-883-3719	Fax #:	-883-3682
	Email Address	randall.stewart@hu	ntsvilleal.gov	
CHIEF OPERATOR:	LYLE GILLI	LAND		
	Name			
	Telephone #:	256-883-3719	Fax #:	-883-3682
	Email Address	lyle.gilliland@hunt	svilleal.gov	
	Date: APRIL	1, 2025		
REVIEWED BY:	Consulting En	ainaar		
	Consulting En			
	Telephone #:	3	Fax #:	
	Date:			

ADEM Form 417 07/15 m3 Page 1 of 17

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of 2024 (due **May 31**, 2025).

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

ADEM Form 417 07/15 m3 Page 2 of 17

State of Alabama MWPP Annual Report Department of Environmental Management

Instructions to the Operator-in-Charge

- 1... Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet.
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD ₅ (CBOD ₅) Concentration (mg/l)	Column 3 Average Loading BOD ₅ (CBOD ₅) (lbs/day**)
January	2.09	97.36	1785.43
February	2.10	94.00	1643.82
March	2.15	95.50	1843.14
April	1.83	124.08	2022.17
May	2.28	73.71	1448.47
June	1.40	101.08	1224.08
July	1.15	103.64	1015.15
August	1.10	119.69	1131.75
September	1.14	85.17	801.05
October	1.05	77.67	690.38
November	0.97	70.58	628.84
December	1.34	74.46	834.73
Annual Avg.	1.55	93.07	1255.75

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow (MGD)	Average Design BOD₅ (CBOD₅) Loading (lbs/day)
Design Criteria	4.0	6676
90% of the Design Criteria	3.6	6008

ADEM Form 417 07/15 m3 Page 4 of 17

C.	o de la companya de l	nthly flow (Column 1) to the WWTP exceed 90% of design flow?
	(Check the	e appropriate point total)
	0 - 4 = 0 points	5 or more = 5 points
D.,	Ů	nthly flow (Column 1) to the WWTP exceed the design flow? e appropriate point total)
		2 = 5 points $3 - 4 = 10$ points 5 or more = 15 points
E.	exceed 90% of the design lo	onthly BOD_5 (CBOD $_5$)* loading (lbs/day) (Column 3) to the WWTP ading?
	(Check the	e appropriate point total)
	■ 0 -1 = 0 points	- 4 =5 points
F	How many times did the mo exceed the design loading?	onthly BOD ₅ (CBOD ₅)* loading (lbs/day) (Column 3) to the WWTP
	(Check th	ne appropriate point total)
	■ 0 = 0 points	ts 2 = 20 points 3 = 30 points 4 = 40 points 5 or more = 50 points
G.	Enter each point value marke	ed for C through F and enter the sum in the appropriate blank below.
	C points =0	
	D points = 0	
	E points = 0	
	F points = 0	
	AL POINTS VALUE FOR PART this value on Part 11: Summa	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months 5-11 12-4	BOD ₅ (CBOD ₅) (mg/l) 20 25	TSS (mg/l) 30 30	NH ₃ -N (mg/l) 10 20	TKN (mg/l) N/A N/A
(2) DMF	R Concentration				
<u>Qtr</u>	<u>Month</u>	$\begin{array}{c} BOD_5\\ (CBOD_5)\\ & (mg/I) \end{array}$	TSS (mg/l)	NH ₃ -N (mg/l)	TKN (mg/l)
1	January	5.36	4.64	0.08	3.27
17	February	6.08	2.85	0.07	7.02
	March	4.83	4.17	0.10	2.67
2	April	4.46	2.85	0.09	3.43
	May	5.43	2.36	0.49	2.96
	June	5.33	2.50	0.40	2.19
3	July	4.36	2.43	0.11	2.89
	August	6.38	2.69	0.12	6.47
	September	4.17	2.08	0.16	6.40
4	October	4.87	2.33	0.15	6.08
	November	4.92	2.67	0.12	6.16
	December	4.92	2.38	0.32	4.32
	Annual Avg.	5.09	2.82	0.18	4.48

B. List the monthly average permit limit and DMR loadings below.

(1) NPDES Permit Loading

Permit Limit	Months 5-11 12-4	BOD₅ (CBOD₅) (Ibs/day) 667 834	TSS (lbs/day) 1000	NH ₃ -N (lbs/day) 333 667	TKN (lbs/day) N/A N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH ₃ -N (lbs/day)	TKN (lbs/day)
1	January	100.48	100.0	1.46	45.27
	February	108.31	51.0	1.27	114.87
	March	91.16	77.0	1.87	70.79
2	April	73.91	48.0	1.48	56.07
	May	106.09	46.0	8.33	47.05
	June	63.60	31.0	4.79	24.93
3	July	43.29	24.0	1.07	24.42
	August	61.85	26.0	1.13	62.54
	September	39.16	19.0	1.47	59.25
4	October	44.63	21.0	1.31	51.01
	November	43.64	25.0	1.10	76.50
	December	58.05	27.0	3.28	65.07
	Annual Avg.	69.51	41.25	2.38	58.15

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

No = 0 points	Yes = 121 points
INO - O DOURS	

D.	During the past year did the BOD_5 (CBOD $_5$) concentration (mg/l) and/or loading (lbs/day), exceed the monthly average permit limit during four months of any two consecutive quarters? (Check the appropriate point total.)		
	No = 0 points	Yes = 121 points	
E.		e effluent TSS concentration (mg/l) or loading (lbs/day) exceed the nthly average permit limit during two months of any two consecutive priate point total.)	
	No = 0 points	Yes = 121 points	
F _{so}	During the past year did t monthly average permit lim appropriate point total.)	he TSS concentration (mg/l) and/or loading (lbs/day) exceed the it during four months of any two consecutive quarters? (Check the	
	No = 0 points	Yes = 121 points	
G.	During the past year did the NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any two consecutive quarters? (Check the appropriate point total.)		
	No = 0 points	Yes = 121 points	
H.		ner the NH_3 -N or TKN concentration (mg/l) and/or loading (lbs/day), e permit limit during four months of any two consecutive quarters? t total.)	
	No = 0 points	☐ Yes = 121 points	
l.	Enter each point value chec	ked for C through H in the blanks below.	
	C Points =		
	D Points = 0		
	E Points =		
	F Points =0		
	G Points =		
	H Points =		
	EST INDIVIDUAL POINT VAL		

ADEM Form 417 07/15 m3 Page 8 of 17

		- (
Facility	Name:	

CHASE	WWTP
01111100	

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed?

2024

Subtract the above answer from the report year to determine age:

Age
$$0 = (2024) - (2024)$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

	Factor
XMechanical Treatment Plant	2.0
Aerated Lagoon	1.5
Stabilization Pond	1.0
Other (Specify:)	1.0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

$$\frac{2}{\text{(Factor)}} \times \frac{0}{\text{(Age)}} = \frac{0}{\text{TOTAL POINT VALUE FOR PART 3}}$$

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

			- (
Facil	litv	Name:	•

\sim $^{\circ}$	$\Lambda \subset \Box$	1000	T
$ \cup$ \square	ASE	VVV	vir

Enter this value on Part 11: Summary Sheet.

Part 4: Bypassing and Overflows

<u>urc</u>	. Bypassing and Cv	Ciliowo			
Α.	How many bypass WWTP due to hea	s or overflow events avy rain?	of untreated wastewa	ter occurred in the last year at the	
B.			of untreated wastewat avy rain?	er occurred in the last year prior to	
C.		s or overflow even		A and B have been corrected such ation due to heavy rain are not	
D.	Add together Ansv	vers A and B and sub	tract Answer C from t	hat total.	
	•		heck the appropriate		
	■ 0 = 0 points	1 = 5 points	☐ 2 =10 points	☐ 3 =15 points	
	☐ 4 =20 points	☐ 5 =25 points	☐ 6 = 30 points	7 = 35 points	
	☐ 8 =40 points	☐ 9 =45 points	☐ 10 =50 points	11 or more =100 points	
E.	How many bypass WWTP due to equ	s or overflow events uipment failure? (This	of untreated wastewa includes clogged/bro	ter occurred in the last year at the ken lines or manholes.) 0	
F _a	How many bypass or overflow events of untreated wastewater occurred in the last year due to equipment failure prior to the headworks of the WWTP? (This includes clogged/broken lines or manholes.)				
G.	that future bypass		at the same location	E and F have been corrected such due to the same equipment failure	
Н.	Add together Ansv	vers E and F and sub	tract Answer G from t	hat total.	
	E + F – G = ₋	(C	heck the appropriate	point total.)	
	0 = 0 points	☐ 1 = 5 points	☐ 2 =10 points	☐ 3 =15 points	
	☐ 4 =20 points	☐ 5 =25 points	☐ 6 = 30 points	7 = 35 points	
	☐ 8 =40 points	☐ 9 =45 points	10 =50 points	☐ 11 or more =100 points	
١.	Add point values checked in D and H and enter the total in the blank below.				
TO T A	L POINT VALUE FO	OR PART 4	0		

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

ADEM Form 417 07/15 m3 Page 10 of 17

Facility	Name: CHASE WW	ΛΤΡ		
Part 5:	Sludge Quantity and S	torage		
$A_{*_{i}}$		ation concerning sludge quantity, charac a as requested on the <i>MWPP</i> Sewage Slu		
B.		f sludge storage capacity does the was e or off-site? (i.e., How many months can of sludge?)		
	(Check the appropriate	e point total.)		
	Greater than or equal	to 4 months	X	= 0 points
	Less than 4 months, b	ut greater than or equal to 3 months		= 10 points
	Less than 3 months, b	ut greater than or equal to 2 months		= 20 points
	Less than 2 months, b	ut greater than or equal to 1 month		= 30 points
	Less than one month			= 50 points
Part 6:	Sludge Disposal Practi	ces and Sites		
A.		udge disposal practices and site informati PP Sewage Sludge Survey, ADEM Form 4		sed on available data as
B.		years does the facility have access to a e proper land disposal? (Check the appro		
	36 or more months	= 0 points		
	24 - 35 months	☐ = 10 points		
	12 - 23 months	= 20 points		
	6 - 11 months	= 30 points		
	Less than 6 months	= 50 points		
	_ POINT VALUE FOR F his value on Part 11: So	PART 60		

ADEM Form 417 07/15 m3 Page 11 of 17

Facility	Name:	CHASE WWTP				
Part 7:	New De	velopment				
	calenda	r year or anticipate	developments (indued in the next 2-3 year tem could significantly	ears such t	hat either flow or B	OD ₅ (CBOD ₅)
	Design Populati Equivale	on: ent (PE)	Design Flow:	MGD	Design BOD ₅ (CBOD ₅):	lbs/day
	List indu	ıstrial and/or reside	ntial developments.			
	Service	area is approximate	ely 85% developed.	_		
				<u></u>		
				 .		
		additional loading o the appropriate poir				
	■ No =	0 points	Yes = 121 points	S		
E	Inter the	point total in the bla	ank below.			
		VALUE FOR PART on Part 11: Summ		(highest p	point total = 121)	
Part 8	Operato	or Certification				,,
art o.	Sporate	2. COMMON				

Complete the Plant and Collection System Personnel Inventory, ADEM Form 441.

Do both the plant operator and collection system staffing comply with ADEM Administrative Code; Division 10, Operator Certification Program? (Check the appropriate point total.)

☐ No = 121 points Yes = 0 points

0 TOTAL POINT VALUE FOR PART 8 (highest point total = 121) Enter this value on Part 11: Summary Sheet.

Facility	Name: CHASE VVVVTP
Part 9:	Financial Status
A.	Are User-Charge Revenues sufficient to cover operation and maintenance expenses? If no, how are O&M costs being financed? <i>Include user charge rates</i> . Yes
	Residential Minimum0 Plus rate
В.,	What financial resources are available to pay for the wastewater improvements and/o reconstruction needs? Adequate user charge system with A+ bond rating with Standard and Poors.
C.	Please attach a rate sheet and the most recent audit, if available.
Part 10): Subjective Evaluation
Α. [Describe briefly the physical and structural conditions of the wastewater treatment facility. All concrete and metal structures are in good condition. There currently exists no problems with premature failure due to corrosion or differential settling.
В.	Describe the general condition of the sewer system (sewer lines, manholes, lift stations). Clear water intrusion for this facility is estimated at 15%.

	Vhat sewage system improvements does the community have planned for construction in the ext 5 years?
7	WWTP improvements will be determined through ongoing assessments.
	What is the theoretical design life of the plant, and what is the estimated remaining useful life of the wastewater treatment facility?
I –	Design life is 50 years. Remaining life is 50 years.
	Vhat problems, if any, over the last year have threatened treatment or conveyance within the ystem?
	None
_	
	the community presently involved in formal planning for treatment facility upgrading? Yes. Funding is in place and studies are being conducted to ensure future funds. All projects
a	are approved in public forum.
	ow many days in the last year were there residential backups at any point in the collection stem for any reason other than clogging of the lateral connection?
	es the plant have a written plan for preventive maintenance on major equipment items? If yes, scribe.
_	Yes. Electrical: Ohm-Meg, Amp check. Mechanical: Lubrication of all bearings, seals, etc.
<u></u>	These tasks are preformed from preventative maintenance logs and tracked through
	lepartment databases.

ADEM Form 417 07/15 m3 Page 14 of 17

ſ,	Does this preventive maintenance program depict frequency of intervals, types of lubrication, and other preventive maintenance tasks necessary for each piece of equipment?
	(Check the appropriate response.) Yes No
J <u>.</u>	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?
	(Check the appropriate response.) Yes No
K.	Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plant construction or upgrading programs.
	Head works Pumping \$100,000.00
L.	List any additional comments. (Attach additional sheets if necessary.)
L .	\$100,000 was budgeted for routine repairs to this facility in FY24. These funds were
	allocated for various repairs including pump repairs, process equipment repairs and any other
	mechanical/electrical repairs needed. In addition, approximately \$50,000.00 annually budgeted
	for the sanitary sewer collection system.

ADEM Form 417 07/15 m3 Page 15 of 17

Facility Name:	CHASE	WWTP

Part 11: Summary Sheet

1. Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual Values		Maximum Possible
0	_points	80 points
0	_points	121 points
0	_points	40 points
	_points	200 points
0	_points	50 points
0	_points	50 points
0	_points	121 points
0	_points	121 points
0	_points	783 points
	0 0 0 0 0	o points

- 2. Check the facility type that best describes the plant's treatment and disposal of wastewater.
 - Mechanical plant with surface water discharge
 - ☐ Aerated Lagoon or stabilization pond with surface water discharge
 - ☐ Mechanical plant using land disposal of liquid wastes
 - ☐ Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- 3. Check the range that describes the action needed to address problems identified in the report.
 - 0 70 points Actions as Appropriate*
 - ☐ 71 120 points Departmental Recommendation Range*
 - ☐ 121 783 points Municipality Action Range*

4. Complete the Municipal Water Pollution Prevention Resolution Form, ADEM Form 418.

^{*}Other actions may be required by NPDES outside the scope of this report.

5.	In Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
	(Check the appropriate response.)
	If yes, provide a written explanation for this situation in the space below.

ADEM Form 417 07/15 m3 Page 17 of 17

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	acility Background Information:			
1.	Facility Information		Permit Number:	AL0049531
	Name:	CHASE AREA W	WTP	
	Street Address:	909 WESS TAYLO	OR RD	
	County:	MADISON		
2.	Facility Contact	DANIDALL OTEM	A D.T.	
	Name:	RANDALL STEW		ITDOL
	Title:		ATER POLLUTION CON	TROL
	Telephone:	256-883-3719	W.1.E	
	Permittee Name:	CITY OF HUNTS		
	Mailing Address:	1800 VERMONT		
		HUNTSVILLE, AL	35802	
Fa	acility Flow Information			
	Facility Wastewater Treatment Ca	pacity		
٠.	Avg. Daily Flow for 2024		1.55 MGD	
	Facility Design Capacity	:	4.0 MGD	
		-	*	
2.	Estimated Septage Quantity Hand			
	Average Domestic Septa	age:		per month
	Average Commercial Se	ptage:	gallons	per month
2	Mathed of Contage Dynamics			
3 .	Method of Septage Processing Mixed with Influent V	Mastewater for Tres	atment	
	Mixed with Sewage		unone	
	_	Siduge		
	0			
4.	Estimated Percentage Contributing	g Wastewater Flow		
		5 %		
	-	5 %		
	Other:	% Desc	cribe	
		= ′°		<u> </u>
5.	List type of wastewater treatment	process(es) utilized	at this facility:	
	SCREENING GRIT REA	IOVAL, EXTENDE	D AERATION (OXIDATIO	N DITCH),
	FINAL CLARIFICATION	, CHLORINATION		
_			4.400	II. / I I '-I- /
6.	Estimated sewage sludge wasting	rate at this facility:	1403	lb/day dry weight
			or	gallons per day
7	Estimated untreated sludge receiv	ed from off site	Λ	lb/day dry weight
1.	Laminated unificated studge receiv	ed HOIH OII SILE.	or	gallons per day
			or	gallotis per day
8.	Estimated percent solids of combi	ned sewage sludge	prior to treatment:	70 %

9. List the sew	/age sludge treatment p	rocesses us	sed in prepar			
					Sludge Quanti ated pounds p	-
Y	N/A					
:				-		
<u> </u>				N (1		
			I-	9	050	
10. Estimate t	he total volume of sludg	e generated	11	(dry	256 U.S. tons per	year)
Sludge Dispos	al Methods					
	e following describes the	e current ma	ethod of sew	rage sludge disposal fo	or this facility:	
1. VVIIICH OF UP	e following describes the	e carrent me	Current P	_		Practices
			by ADEM	Quantity		by ADEM
п.		<u>Yes</u>	<u>No</u>	(dry U.S. tons/year)	<u>Yes</u>	<u>No</u>
	and Application, Bulk hipped					
	Agriculture	0	0		0	0
	Forest				0	0
0	Public Contact	0			П	
0	Lawn/Home Garden				0	0
ь Пі	and Application,					
	agged/Other Container					
	Agriculture					0
0	Forest				0	
0	Public Contact				0	
0	Lawn/Home Garden	0			0	0
c. X In	cineration	X	0	256	X	
d. 🛮 S	ubtitle D Landfill					
	Disposal Only)		0	<u>,</u>	0	0
OI	ined Treatment Lagoon r Stabilization Pond	0	0			0
	nlined Lagoon or tabilization Pond	П	0		0	П
	ther (Please Describe)	0	0			0
2 If "f" was se	elected above and sludg	e is stored f	or 2 or more	vears enter the dista	nce between	the
	al site and the property		0, 2 0, 111010	feet		
Pollutant Conc	entrations					
1. Enter the to	tal concentrations of the	following a	nalytes usin		t enter TCLP	results.
	Concentration		mple	Sample	Detection	
Analyte	(mg/kg or ppm)	T <u>)</u>	/pe	Date	Anal	ysis

ATTACHMENT 3

Arsenic						
Cadmium						
Chromium						
Copper						
Lead						
Mercury						
Molybdenum						
Nickel						
Selenium						
Zinc						
Ammonium- Nitrogen						
Nitrate-						
Nitrogen						
Total Kjeldahl Nitrogen						
1. Which class 40 CFR Part 5 0 C 0	ass A Alternative A1 - Time and Tempera Alternative A2 - Alkaline Treatment Alternative A3 - Analysis and Opera Alternative A4 - Analysis Only Alternative A5 - Processes to Furth	wage sludge meet at the facility? ture	(As defined in			
☐ Pasteurization ☐ Gamma Ray Irradiation ☐ Beta Ray Irradiation ☐ Composting ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐						
☐ Class B ☐ Alternative B1 - Fecal Coliform Count ☐ Alternative B2 - Process to Significantly Reduce Pathogens (PSRP) ☐ Aerobic Digestion ☐ Air Drying ☐ Anaerobic Digestion ☐ Composting ☐ Lime Stabilization ☐ Alternative B3 - PSRP Equivalent ☐ Neither or Unknown						

Vector Attraction Control

Groundwater Monitoring 1. If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes	 Option 1 - Minimum 38% Reduction in Volatile Solids Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sludge Option 5 - Aerobic Processes plus Elevated Temperature Option 6 - Raised pH to 12 and Retained at 11.5 Option 7 - 75% Solids with no Unstabilized Solids Option 8 - 90% Solids with Unstabilized Solids Option 9 - Injection Below Land Surface Option 10 - Incorporation into Soil within 6 or 8 Hours Option 11 Covering Active Sewage Sludge Unit Daily None of the Above
1. If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes	u None of the Above
performed at the site? Yes	Groundwater Monitoring
Answer the following questions if sewage sludge is applied to land. 1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A 2. If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation? N/A 3. If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?	performed at the site? ☐ Yes ☐ No ☐ No ☐ In the site? ☐ In the si
If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation? N/A If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?	Land Application of Sewage Sludge
N/A 3. If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?	1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site?
N/A 3. If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?	
neighbors?	
neighbors?	
N/A	
	N/A

Permittees that submitted the "Annual Report Review Form" for sludge to the EPA

may submit a copy with the MWPP in lieu of Attachment 3.

FACILITY	FACILITY NAME: CHASE AREA WWTP					PLANT G	RADE:	III	
PERMIT N	NUMBER:	AL005742	3				 :		
PLANT SI	JPERINTEN	DENT:	Lyle Gillilar	nd				TEL.#	256-883-3719
SYSTEM	Randali Stewart							TEL.#	256-883-3719
PLANT OF	PERATORS:								
	N/	AME			ADE OR E STATUS	(OPERATOR NO.	I EXP	. DATE
1. Lyle Gillila		····-			IV		C000559	06	/30/25
2. Terry Brow					IV		C006649		/31/25
					IV		C000230		30/25
3. Roy Morga					IV		0000230		00/20
									=======================================
7									
3,									
9									
D ₅									
	TION SYSTEM	M OPERATO	DRS:	Ť	. 1		0004042	1 4/	31/25
1. Jeb Aycoc					IC		C001642	1	
2. Johnathan					IC		C008971		31/26
3. Stan Patte	erson			IC IC		C007629		11.	11/30/25
4									
			MAN H	IRS./WK	NUMBER				
MANAGE	MENT/SUPE	RVISOR		40	1				
OPERATO	DR(S):			30	2				
		GRADE I-C	-	20	4				
		GRADE					AVERAGE NUMBER	OF EMPLO	EES PER SHIFT:
		GRADE I			-			-	
		GRADE II					1ST2	_]	START TIME 6:00 A
		GRADE IV	<u> </u>		-				
DECIGNA.	TED TRAINE	E(S)							
	ORY				-				
LABORAT	MAINTENANCE			40	2				
LABORAT MAINTEN			1						
LABORAT MAINTEN	ANCE LANT WORK	ERS							
LABORAT MAINTEN, OTHER PI	LANT WORK		WORKED E	ACH DAV					
LABORAT MAINTEN, OTHER PI			WORKED E	ACH DAY: WED	THURS	FRI	SAT		

PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

ADEM USE ONLY

 $1_{\tiny{\parallel}}\textsc{DOES}$ PLANT OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

2. DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

YES	NO
ADEM FORM 441	8/02

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILITY	MAGNO	OLIA SPRINGS WWTP	_NPDES#:_	AL0072435
MUNICIPALITY: H	UNTSVILLE		_ _COUNTY:	LIMESTONE
CONTACT PERSON:	RANDALL S			
	•	WATER POLLUTION C	ONTROL	
	Title			
	Telephone #:	256-883-3719	_Fax #:	383-3682
		randall.stewart@huntsv		
CHIEF OPERATOR:	MARK RITT	MAN		
	Name			
	Telephone #:	256-883-3719	_Fax #:	383-3682
	Email Address	mark.rittman@huntsvil	leal.gov	
	Date: April 1,	2025		
REVIEWED BY:				
	Consulting En	gineer		
	Telephone #:		_Fax #:	
	Date:			

ADEM Form 417 07/15 m3 Page 1 of 17

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of 2024 (due **May 31**, 2025).

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

State of Alabama MWPP Annual Report Department of Environmental Management

Instructions to the Operator-in-Charge

- 1. Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Facility Name:

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD₅ (CBOD₅) Concentration (mg/l)	Column 3 Average Loading BOD ₅ (CBOD ₅) (lbs/day**)
January	No	Discharge From	Site
February	No	Discharge From	Site
March	No	Discharge From	Site
April	No	Discharge From	Site
May	No	Discharge From	Site
June	No	Discharge From	Site
July	No	Discharge From	Site
August	No	Discharge From	Site
September	No	Discharge From	Site
October	No	Discharge From	Site
November	No	Discharge From	Site
December	No	Discharge From	Site
Annual Avg.	No	Discharge From	Site

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow	Average Design BOD₅ (CBOD₅) Loading (lbs/day)
Design Criteria	0.25	300
90% of the Design Criteria	0.23	270

ADEM Form 417 07/15 m3 Page 4 of 17

C.	How many times did the monthly flow (Column 1) to the WWTP exceed 90% of design flow? 0(Check the appropriate point total)	
	■ 0 - 4 = 0 points	
D.	How many times did the monthly flow (Column 1) to the WWTP exceed the design flow? O(Check the appropriate point total)	
E.	How many times did the monthly BOD_5 ($CBOD_5$)* loading (lbs/day) (Column 3) to the WWTP exceed 90% of the design loading?	
	(Check the appropriate point total)	
F _s	How many times did the monthly BOD_5 ($CBOD_5$)* loading (lbs/day) (Column 3) to the WWTP exceed the design loading?	
	0 (Check the appropriate point total)	
	0 = 0 points	oints
G.	Enter each point value marked for C through F and enter the sum in the appropriate blank below.	
	C points = 0	
	D points =0	
	E points = 0	
	F points = 0	
тот	POINTS VALUE FOR PART 1	
	nis value on Part 11: Summary Sheet.	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

ADEM Form 417 07/15 m3 Page 5 of 17

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

	<u>Months</u>	BOD₅ (CBOD₅) (mg/l)	TSS (mg/l)	NH₃-N (mg/l)	TKN (mg/l)
Permit Limit	12-4	25	30	10.6	N/A
	5-11	25	30	4.8	N/A

(2) DMR Concentration

<u>Qtr</u>	<u>Month</u>	$\begin{array}{c} BOD_5\\ (CBOD_5)\\ \underline{\qquad (mg/l)} \end{array}$	TSS (mg/l)	NH ₃ -N (mg/l)	TKN (mg/l)
1	January	No	Discharge	From	Site
	February	No	Discharge	From	Site
	March	No	Discharge	From	Site
2	April	No	Discharge	From	Site
_	May	No	Discharge	From	Site
	June	No	Discharge	From	Site
3	July	No	Discharge	From	Site
Ū	August	No	Discharge	From	Site
	September	No	Discharge	From	Site
4	October	No	Discharge	From	Site
-	November	No	Discharge	From	Site
	December	No	Discharge	From	Site
	Annual Avg.	No	Discharge	From	Site

B. List the monthly average permit limit and DMR loadings below.

(1) NPDES Permit Loading

Permit Limit	Months 12-4 11-5	BOD ₅ (CBOD ₅) (lbs/day) 52.1	TSS (lbs/day) 62.5 62.5	NH ₃ -N (lbs/day) 22.1 10.0	TKN (lbs/day) N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH ₃ -N (lbs/day)	TKN (lbs/day)
1	January	No	Discharge	From	Site
	February	No	Discharge	From	Site
	March	No	Discharge	From	Site
2	April	No	Discharge	From	Site
	May	No	Discharge	From	Site
	June	No	Discharge	From	Site
3	July	No	Discharge	From	Site
	August	No	Discharge	From	Site
	September	No	Discharge	From	Site
	•				

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

Discharge

Discharge

Discharge

Discharge

From

From

From

From

No = 0	points	[Yes =	121	points
140 - 0	politio	l l	163 -	121	points

No

No

No

Νo

Site

Site

Site

Site

4

October

November

December

Annual Avg.

Đ _e	During the past year did the BOD_5 (CBOD $_5$) concentration (mg/l) and/or loading (lbs/day exceed the monthly average permit limit during four months of any two consecutive quarters (Check the appropriate point total.)						
	No = 0 points	Yes = 121 points					
E,	During the past year did the effluent TSS concentration (mg/l) or loading (lbs/day) exceed product of 1.4 times the monthly average permit limit during two months of any two consequenters? (Check the appropriate point total.)						
	No = 0 points	Yes = 121 points					
F.	During the past year did the TSS concentration (mg/l) and/or loading (lbs/day) exceed monthly average permit limit during four months of any two consecutive quarters? (Check appropriate point total.)						
	No = 0 points	Yes = 121 points					
G.	the product of 1.4 times t	NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day) exceed the monthly average permit limit during two months of any two teck the appropriate point total.)					
	No = 0 points	Yes = 121 points					
H	During the past year did eith exceed the monthly average (Check the appropriate point	her the NH ₃ -N or TKN concentration (mg/l) and/or loading (lbs/day), e permit limit during four months of any two consecutive quarters? t total.)					
	No = 0 points	Yes = 121 points					
I.	Enter each point value chec	ked for C through H in the blanks below.					
	C Points =0	<u> </u>					
	D Points = 0						
	E Points = 0						
	F Points = 0						
	G Points = 0						
	H Points = 0						
	EST INDIVIDUAL POINT VAL						

ADEM Form 417 07/15 m3 Page 8 of 17

Facility	Name:

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed?

2005

Subtract the above answer from the report year to determine age:

Age
$$\frac{19}{} = (\frac{2024}{}) - (\frac{2005}{})$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

		Factor
X Mechanical Treatment Plant		2.0
Aerated Lagoon		1.5
Stabilization Pond		1.0
Other (Specify:	1	1 0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

Facility	Name:
1 acmity	I Vallic.

MAGNOLIA SPRINGS WWTP

Part 4: Bypassing and Overflows

Α.	How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to heavy rain?0
B.	How many bypass or overflow events of untreated wastewater occurred in the last year prior to the headworks of the WWTP due to heavy rain? 0
C.	How many of the bypass or overflow events listed in Parts A and B have been corrected such that future bypass or overflow events at the same location due to heavy rain are not anticipated? $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$

D.	Add together	Answers A and B and	I subtract Answer C from that total.
	A + B - C =	0	_(Check the appropriate point total.)
	ini and in		

■ 0 = 0 points	☐ 1 = 5 points	☐ 2 =10 points	☐ 3 =15 points
☐ 4 =20 points	☐ 5 =25 points	☐ 6 = 30 points	☐ 7 = 35 points
8 =40 points	☐ 9 =45 points	☐ 10 =50 points	11 or more =100 points

F.	How many b	ypass or	overflow	events	of untrea	ited wa	astewater	occurre	d in the	last yea	r due	to
	equipment fa	ailure prio	r to the h	neadwor	ks of the	WWT	P? (This	includes	clogged	l/broken	lines	or
	manholes.)		0									

G.	How many of the bypass or overflow events listed in Parts E and F have been corrected such
	hat future bypass or overflow events at the same location due to the same equipment failure
	are not anticipated?0

1.1	Add to gother Anguara F and F and subtract Anguar C from that total
П.	Add together Answers E and F and subtract Answer G from that total

$$E + F - G = 0$$
 (Check the appropriate point total.)

 $0 = 0$ points $1 = 5$ points $2 = 10$ points $3 = 15$ points $4 = 20$ points $5 = 25$ points $6 = 30$ points $7 = 35$ points

$$\square$$
 8 =40 points \square 9 =45 points \square 10 =50 points \square 11 or more =100 points

TOTAL POINT VALUE FOR PART 4 Enter this value on Part 11: Summary Sheet.

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

Facility	/ Name: __N	MAGNOLIA	SPRINGS WW	ТР							
Part 5:	Sludge Qu	antity and St	<u>orage</u>								
Α,	Please provide information concerning sludge quantity, characteristics, and storage practices based on available data as requested on the <i>MWPP Sewage Sludge Survey</i> , ADEM Form 419.										
B.	How many months of sludge storage capacity does the wastewater treatment facility have available, either on-site or off-site? (i.e., How many months can the facility operate without land spreading or disposing of sludge?)										
	(Check the appropriate point total.)										
	Greater tha	an or equal to	4 months			X	= 0 points				
	Less than 4 months, but greater than or equal to 3 months				hs		= 10 points				
	Less than 3	3 months, bu	t greater than or	equal to 2 montl	hs		= 20 points				
	Less than 2	2 months, bu	t greater than o	equal to 1 montl	h		= 30 points				
	Less than one month						= 50 points				
	Sludge Dis	posal Practic	ces and Sites								
A	Please provide the sludge disposal practices and site information based on available data as requested on the <i>MWPP Sewage Sludge Survey</i> , ADEM Form 419.										
B.	How many months or years does the facility have access to and approval for sufficient land disposal sites to provide proper land disposal? (Check the appropriate point total.)										
	36 or more	months	= 0 points								
	24 - 35 mo	nths	= 10 points								
	12 - 23 mo	nths	= 20 points								
	6 - 11 mon	ths	= 30 points								
	Less than 6	6 months	= 50 points								
		LUE FOR PA	ART 6 mmary Sheet.	0							

ADEM Form 417 07/15 m3 Page 11 of 17

Facility	/ Name:	MAGNOLIA SPR	INGS WWTP									
Part 7:	New Dev	velopment										
	Are there any major new developments (industrial, commercial, or residential) in the last calendar year or anticipated in the next 2-3 years such that either flow or BOD_5 (CBOD ₅) loadings to the sewage system could significantly increase? Estimate additional loadings below.											
	Design Population Equivale	on: nt (PE)	Design Flow:	<u></u>	_MGD	Design BOD₅ (CBOD₅):	lbs/day					
	List industrial and/or residential developments.											
	Service	Area is over 95% de	eveloped.									
	-											
	8											
	Will the additional loading overload the plant? (Check the appropriate point total.)											
	No =	0 points	☐ Yes = 12	1 points								
E	Enter the	point total in the bla	nk below.									
		VALUE FOR PART on Part 11: Summa		(f	nighest po	oint total = 121)						
Part 8:	Operato	or Certification										
Compl	ete the <i>Pi</i>	lant and Collection S	System Persoi	nnel Invento	ory, ADEI	VI Form 441.						
(Code; Div	the plant operator ision 10, Operator (e appropriate point	Certification Pr		staffing c	omply with ADEM	Administrative					
	Yes :	= 0 points	☐ No = 121	points								
		VALUE FOR PART on Part 11: Summa		(t	nighest po	oint total = 121)						

ADEM Form 417 07/15 m3 Page 12 of 17

are O&M costs being final Yes	nced? <u>Include u</u>	ser charge rates		
Residential Minimum	0	Plus rate _	4.83	/1,000 gal.
Industrial Minimum	0	Plus rate	5.68	/1,000 gal.
Monthly residential rate ba	ased on 6 000 da			28.98
,	-, 9-	J . ,		
What financial resource reconstruction needs?	s are available	to pay for the	wastewate	r improvements ar
Adequate user charge sys	tem with A+ Bon	nd Rating from Sta	ndard and P	oors.
Please attach a rate shee	et and the most re	ecent audit, if avail	able.	
0: Subjective Evaluation				
Describe briefly the physica	al and structural	conditions of the w	vastewater t	reatment facility.
All concrete and metal str	ructures are in go	od condition. The	re currently	exists no problems
with premature failure du	e to corrosion or	differential settlin	g.	
Describe the general cond	dition of the sewe	er system (sewer l	ines, manho	oles, lift stations),

ADEM Form 417 07/15 m3 Page 13 of 17

	t sewage system improvements does the community have planned for construction in the 5 years?
WW	TP improvements will be determined from ongoing assessments.
	t is the theoretical design life of the plant, and what is the estimated remaining useful life of
	rastewater treatment facility?
Desi	gn life is 50 years. Remaining life is 31 years.
Wha syste	t problems, if any, over the last year have threatened treatment or conveyance within the
Non	
the	community presently involved in formal planning for treatment facility upgrading?
Yes.	Funding is in place and studies are being conducted to ensure future needs. All projects
are a	pproved in public forum.
	nany days in the last year were there residential backups at any point in the collection for any reason other than clogging of the lateral connection?
oes i escri	the plant have a written plan for preventive maintenance on major equipment items? If yes be.
Yes.	Electrical: Meg-Ohm, Amp check. Mechanical: Lubrication of all bearings, seals, Etc.
Thes	e tasks are preformed from preventative maintenance logs and tracked through

ADEM Form 417 07/15 m3 Page 14 of 17

l.	Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?
	(Check the appropriate response.) Yes No
J _æ	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?
	(Check the appropriate response.)
K.	Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plan construction or upgrading programs.
	List any additional comments. (Attach additional sheets if necessary.)
	·

ADEM Form 417 07/15 m3 Page 15 of 17

Part 11: Summary Sheet

Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left 1. column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual \	/alue	<u>s</u>	Maximum Possible
Part 1_	0	_points	80 points
Part 2_	0	_points	121 points
Part 3_	38	points	40 points
Part 4 _	0	_points	200 points
Part 5_	0	_points	50 points
Part 6_	0	_points	50 points
Part 7_	0	_points	121 points
Part 8_	0	_points	121 points
Total	38	points	783 points

- Check the facility type that best describes the plant's treatment and disposal of wastewater. 2.
 - Mechanical plant with surface water discharge
 - Aerated Lagoon or stabilization pond with surface water discharge
 - Mechanical plant using land disposal of liquid wastes
 - Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- 3. Check the range that describes the action needed to address problems identified in the report.
 - 0 70 points

Actions as Appropriate*

- 71 120 points
- Departmental Recommendation Range*
- 121 783 points Municipality Action Range*

Complete the Municipal Water Pollution Prevention Resolution Form, ADEM Form 418. 4.

^{*}Other actions may be required by NPDES outside the scope of this report.

In Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
(Check the appropriate response.)
If yes, provide a written explanation for this situation in the space below.

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	acility Background Information:				
1.	Facility Information		Permit No	umber:	AL0072435
	Name:	Magnolia Sprin	gs WWTP		
	Street Address:	1910 Old Rail F	Road Bed Road		
	County:	Limestone			
^	Facility Contact				
2.	Facility Contact	DANDALLOTE	WADT		
	Name:	RANDALL STE	WATER POLLU	TION CONT	
	Title:	256-883-3719	- WATER POLLO	HON CONT	ROL
	Telephone: Permittee Name:	CITY OF HUN	TQ\/II I E		
	Mailing Address:	1800 VERMON			
	Mailing Address.	HUNTSVILLE,			
		TIONTOVILLE	AL 00002		
Fa	acility Flow Information				
1.	Facility Wastewater Treatment Ca	pacity			2
	Avg. Daily Flow for 2024	=	0	MGD	
	Facility Design Capacity:	<u> </u>	0.25	MGD	
2	Estimated Septage Quantity Handl	od (Posiduals P	emoved from Sen	tic Tank Sw	stoms)
۷.	Average Domestic Septa		0	gallons pe	
	Average Commercial Se		0	gallons pe	
	Average Commercial Se	plage	0	_ galloris po	i month
3.	Method of Septage Processing				
	Mixed with Influent V	Vastewater for T	reatment		
	Mixed with Sewage 9	Sludge			
	0				
4	Estimated Basestone Contribution	· Mastawater El	0.47		
4.	Estimated Percentage Contributing		OW		
		<u> </u> % %			
		-	escribe:		
	Other:	- ⁷⁰ Di	escribe:		
5.	List type of wastewater treatment p	orocess(es) utiliz	ed at this facility:		
	PRIMARY SCREENING	, AERATION, FI	NAL CLARIFICAT	ION, CHLO	RINATION
	0				
				•	
6.	Estimated sewage sludge wasting	rate at this facilit		0	_ lb/day dry weight
			or		gallons per day
7	Estimated untreated sludge receive	ed from off site:		0	lb/day dry weight
			or		gallons per day
			<u>-</u>		_ ,
8	Estimated percent solids of combine	ned sewage slud	lge prior to treatme	ent⊱	0 %

List the sewage sludge treatment process.			•	' Sludge Quant ated pounds ہ	ity
N/A			_v =		
			<u>-</u> e		
			- > > 		
10. Estimate the total volume of sludge	e generated	i :	- N	0	
	. 0		(dry	U.S. tons per	year)
Sludge Disposal Methods					
Which of the following describes the	e current me	ethod of sev	wage sludge disposal f	or this facility:	
3			Practices		l Practices
		by ADEM	Quantity		by ADEM
	<u>Yes</u>	<u>No</u>	(dry U.S. tons/year)	<u>Yes</u>	<u>No</u>
a. I Land Application, Bulk					
Shipped I Agriculture	0	П			0
☐ Forest	0	0		0	0
Public Contact	0	0		0	0
Lawn/Home Garden		0		0	Ö
Lawii/Home Garden				_	_
b. 🏻 Land Application,					
Bagged/Other Container	_	_			_
Agriculture				0	
☐ Forest				0	0
Public Contact		0		0	
Lawn/Home Garden					Ω
c. X Incineration	X	0	0	X	0
d. 🏿 Subtitle D Landfill					
(Disposal Only)		0		0	0
e. I Lined Treatment Lagoon					5.59
or Stabilization Pond		0		. 0	
f. Unlined Lagoon or	п	п		n	п
Stabilization Pond		0			0
g. I Other (Please Describe)	0	0	***	. 0	0
2. If "f" was selected above and sludge	is stored f	or 2 or mor	e years, enter the dista	nce between	the
surface disposal site and the property l			feet		
Pollutant Concentrations					
Enter the total concentrations of the	following a	nalytes usi	na existina data. Do na	nt enter TCLP	results
Concentration		nple	Sample	Detection	
Analyte (mg/kg.or.npm)		me	Date	Anal	

ATTACHMENT 3

Arsenic Cadmium Chromium			
Chromium			
Cannor			
Copper			
Lead			
Mercury			
Molybdenum			
Nickel			
Selenium			
Zinc			
Ammonium-			
Nitrogen			
Nitrate-			
Nitrogen			
Total Kjeldahl			
Nitrogen			
1. Which class of 40 CFR Part 503 Class of Class of Class of Class of Charles	8) ss A Ilternative A1 - Time a Ilternative A2 - Alkalina Ilternative A3 - Analysi Ilternative A4 - Analysi	nd Temperature e Treatment is and Operation is Only ses to Further Reduce F Thermoph on Gamma R	
0 A 0 A	Iternative B1 - Fecal C	s to Significantly Reduce estion	☐ Anaerobic Digestion

Vector Attraction Control
Vector Attraction Control Option 1 - Minimum 38% Reduction in Volatile Solids Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile Solids Reduction Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sludge Option 5 - Aerobic Processes plus Elevated Temperature Option 6 - Raised pH to 12 and Retained at 11.5 Option 7 - 75% Solids with no Unstabilized Solids Option 8 - 90% Solids with Unstabilized Solids Option 9 - Injection Below Land Surface Option 10 - Incorporation into Soil within 6 or 8 Hours Option 11 Covering Active Sewage Sludge Unit Daily None of the Above
u None of the Above
Groundwater Monitoring
 If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at the site? Yes (If yes, please submit a copy of the groundwater monitoring reports along with this survey. Also please provide the approximate depth to groundwater and the
groundwater monitoring procedures used to obtain the data.)
Land Application of Sewage Sludge
Answer the following questions if sewage sludge is applied to land. 1. If sewage sludge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A
If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation? N/A
3. If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?
N/A

Permittees that submitted the "Annual Report Review Form" for sludge to the EPA

may submit a copy with the MWPP in lieu of Attachment 3.

TAGILITI NAIVIL.	FACILITY NAME: Magnolia Springs WWTP				PLANT (GRADE:	II	
PERMIT NUMBER:	AL007243	35						
PLANT SUPERINTEN	IDENT:	Mark Rittma	an				TEL.#	256-883-3719
SYSTEM MANAGER:		Randil Stew						256-883-3719
PLANT OPERATORS	:							
N	IAME			DE OR E STATUS	OF	PERATOR NO.	EXP	DATE
1. Mark Rittman				IV		C002451	3/3	31/26
Randall Stewart				IV		C002344	7/3	31/24
3.								
4								 -
5								
6,								
7							1	
8							331	
9							-	
0								
COLLECTION SYSTE	M OPERAT	ORS:		167			80	
1								
2.								
3.								
4								
		MAN HI	RS./WK	NUMBER				
	ERVISOR	40		2				
MANAGEMENT/SUPE		6-21-7618	S VIESS					
MANAGEMENT/SUPE OPERATOR(S):	GRADE I-							
		-С				AVERAGE NUMBEF	OF EMPLOY	'EES PER SHIFT:
	GRADE I- GRADE GRADE	.C					_	
	GRADE I- GRADE GRADE GRADE	C				18T	_	YEES PER SHIFT:
OPERATOR(S):	GRADE I- GRADE GRADE GRADE I	C					_	
	GRADE I- GRADE GRADE GRADE I	C				1ST 2ND	_	
OPERATOR(S): DESIGNATED TRAIN LABORATORY MAINTENANCE	GRADE I- GRADE GRADE GRADE I GRADE I	C				1ST 2ND	_	
OPERATOR(S): DESIGNATED TRAIN LABORATORY	GRADE I- GRADE GRADE GRADE I GRADE I	C				1ST 2ND	_	
OPERATOR(S): DESIGNATED TRAIN LABORATORY MAINTENANCE	GRADE I- GRADE GRADE I GRADE I EE(S)	CC EI	ACH DAY:			1ST 2ND	_	
OPERATOR(S): DESIGNATED TRAIN LABORATORY MAINTENANCE OTHER PLANT WOR	GRADE I- GRADE GRADE I GRADE I EE(S)	CC EI	ACH DAY: WED	THURS	FRI	1ST 2ND	_	
DESIGNATED TRAIN LABORATORY MAINTENANCE OTHER PLANT WOR	GRADE I- GRADE GRADE I GRADE I EE(S) KERS	WORKED EA		THURS		1ST 2ND 3RD	_	
DESIGNATED TRAIN LABORATORY MAINTENANCE OTHER PLANT WOR OPERATOR SHIFTS SUN	GRADE I- GRADE GRADE I GRADE I EE(S) KERS	WORKED EA		THURS		1ST 2ND 3RD	_	

1. DOES PLANT OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

2. DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

YES

ADEM FORM 441 8/02

NO

PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

ANNUAL REPORT

SUBMITTED BY:

TREATMENT FACILIT	Y: SPRING	G BRANCH WWTP	NPDES #: _	AL0058394
MUNICIPALITY:	HUNTSVILLE		COUNTY:	MADISON
CONTACT PERSON:	RANDALL S	TEWART		
	Responsible (
	DIRECTOR	WATER POLLUTION	N CONTROL	
	Title			
	Telephone #:	256-883-3719	Fax #:	883-3682
		randall.stewart@hun		
CHIEF OPERATOR:	WESLEY BA	NUGH		
	Name			
	Telephone #:	256-883-3719	Fax #:	883-3682
	Email Address	wes.baugh@hunts	villeal.gov	
	Date: April 1,	2025		
REVIEWED BY:				
	Consulting En	gineer		
	Telephone #:		Fax #:	
	Date:			

MWPP Annual Report Information Source List

The following information will be needed to complete the compliance maintenance report that covers the calendar year of 2024 (due **May 31**, 2025

- Part 1 A. The average plant influent flow for each month (million gallons per day/MGD) during the year.
 - B. The average plant influent BOD (CBOD) for each month (mg/l and lb/day) in the year.
 - C. The plant's average design flow (MGD) and design BOD (CBOD) loading (lbs/day).
- Part 2 A. The monthly average permit and DMR effluent concentration for BOD (CBOD), TSS, NH3-N, and/or TKN in mg/l for the year
 - B. The monthly average effluent limits and DMR loading for BOD (CBOD), TSS, NH3-N, and/or TKN in lbs/day for the year
- Part 3 The age of the treatment plant defined as the number of years since the last major reconstruction to increase the organic or hydraulic capacity of the plant. The last calendar year minus the year the new construction was brought on-line.
- Part 4 Bypass and overflow information. This is the number of bypass or overflow events of untreated wastewater due to heavy rain or equipment failure whether intentional or inadvertent from all collection systems tributary to the treatment facility.
- Part 5 A. Describe the characteristics and quantity of sludge generated.
 - B. If sludge is landspread, how many months of sludge storage does the plant have? This should include on-site and off-site storage from the treatment plant. The digestor capacity may be used in the calculation.
- Part 6 A. Sludge Disposal Method
 - B. The number of approved land disposal sites for sludge available, and how many months or years these disposal sites will these be available for use.
- Part 7 The number of sewer extensions installed in the community last year, the design population, design flow, and design BOD (CBOD) for each sewer extension.
- Part 8 Operator Certification
- Part 9 Financial Status
- Part 10 Subjective Evaluation
- Part 11 Summary Sheet

ADEM Form 417 07/15 m3 Page 2 of 17

Instructions to the Operator-in-Charge

- 1. Complete all sections of the MWPP Report to the best of your ability.
- 2. Parts 1 through 8 contain questions for which points will be generated. These points are intended to communicate to the Department and the governing body or owner the actions necessary to prevent effluent violations. Enter the point totals from Parts 1 through 8 on Part 11: Summary Sheet.
- 3. Add the point totals on Part 11: Summary Sheet.
- 4. Submit the MWPP Report to the governing body and the consulting engineer and owner for review and approval.
- 5. The governing body should pass a resolution which contains the following points:
 - a. The resolution should acknowledge the governing body or owner has reviewed the MWPP Report.
 - b. The resolution should indicate what actions will be taken to prevent effluent violations.
 - c. The resolution should provide any other information the governing body or owner deems appropriate.
- 6. The MWPP Report and the resolution must be submitted by May 31st to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.

ADEM Form 417 07/15 m3 Page 3 of 17

Part 1: Influent Loading/Flows

A. List the average monthly volumetric flows and BOD₅ (CBOD₅) loadings received at your facility during the last calendar year.

<u>Month</u>	Column 1 Average Monthly Flowrate (MGD)	Column 2 Average Monthly BOD ₅ (CBOD ₅) Concentration (mg/l)	Column 3 Average Loading BOD₅ (CBOD₅) (lbs/day**)
			22 (25 22
January	23.81	118.57	22635.39
February	24.51	112.92	20460.53
March	23.09	118.92	24142.41
April	18.08	143.62	24095.01
May	24.26	107.64	22218.39
June	16.01	167.67	21315.54
July	14.75	134.29	16560.35
August	13.36	188.08	21638.28
September	15.35	143.25	18359.96
October	14.66	149.00	18679.26
November	15.10	136.33	18114.07
December	16.42	140.23	17626.40
Annual Avg.	18.28	138.38	17263.86

^{**} As reported on NPDES Discharge Monitoring Reports (DMRs) and as required by EPA's NPDES Self-Monitoring System, User Guide, March 1985.

B. List the average design flow and average design BOD₅ (CBOD₅) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	Average Design Flow	Average Design BOD₅ (CBOD₅) Loading (lbs/day)
Design Criteria	41.0	68429
90% of the Design Criteria	36.9	61586
S	=	-

C,	How many times did the monthly flow (Column 1) to the WWTP exceed 90% of design flow? (Check the appropriate point total)	
	0 - 4 = 0 points $$ 5 or more = 5 points	
D.	How many times did the monthly flow (Column 1) to the WWTP exceed the design flow? (Check the appropriate point total)	
Ė,	How many times did the monthly BOD_5 ($CBOD_5$)* loading (lbs/day) (Column 3) to the WWTP exceed 90% of the design loading?	
	0 (Check the appropriate point total)	
F.	How many times did the monthly BOD_5 ($CBOD_5$)* loading (lbs/day) (Column 3) to the WWTP exceed the design loading?	
	0 (Check the appropriate point total)	
	■ 0 = 0 points	nts
G.	Enter each point value marked for C through F and enter the sum in the appropriate blank below.	
	C points =0	
	D points =0	
	E points =0	
	F points = 0	
TOT	AL POINTS VALUE FOR PART 1	
	this value on Part 11: Summary Sheet.	

*To obtain equivalent BOD_5 loading for comparison with design loading for those permittees using influent $CBOD_5$, divide annual average $CBOD_5$, loading in lbs/day from Part 1, A by 0.7.

Part 2: Effluent Quality/Plant Performance

A. List the monthly average permit limits for the facility in the blanks below and the average monthly effluent DMR BOD₅, (CBOD₅) TSS, NH₃-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months 1-12	BOD ₅ (CBOD ₅) (mg/l) 25	TSS (mg/l) 30	NH ₃ -N (mg/l) 20	TKN (mg/l) N/A
(2) DMF	R Concentration				
<u>Qtr</u>	<u>Month</u>	$\begin{array}{c} BOD_5\\ (CBOD_5)\\ (mg/l) \end{array}$	TSS (mg/l)	NH₃-N (mg/l)	TKN (mg/l)
1	January	6.86	8.36	1.07	9.36
	February	6.77	5.92	2.40	4.41
	March	7.75	11.75	1.95	3.99
2	April	10.62	10.85	5.7	3.08
	May	9.07	7.57	4.44	3.95
	June	9.17	8.58	3.95	6.55
3	July	6.71	6.43	2.89	6.38
	August	4.85	2.54	0.26	2.98
	September	4.67	5.33	2.03	6.41
4	October	5.47	5.80	2.57	7.10
	November	7.17	5.75	1.92	7.34
	December	6.85	7.08	0.55	4.54
	Annual Avg.	7.16	7.16	2.26	5.51

B. List the monthly average permit limit and DMR loadings below,

(1) NPDES Permit Loading

Permit Limit	Months 1-12	BOD₅ (CBOD₅) (Ibs/day) 8548	TSS (lbs/day) 10258	NH ₃ -N (lbs/day) 6838	TKN (lbs/day) N/A
(2) DMF	R Loading				
<u>Qtr</u>	<u>Month</u>	BOD₅ (CBOD₅) (lbs/day)	TSS (lbs/day)	NH ₃ -N (lbs/day)	TKN (lbs/day)
1	January	1504.21	2375.0	176.86	1593.91
·	February	1457.56	1291.0	437.12	768.07
	March	1612.78	2344.0	393.96	1354.74
2	April	1753.50	1791.0	647.73	435.66
	May	1988.90	1740.0	936.94	710.25
	June	1147.37	1054.0	890.05	761.94
3	July	809.40	760.0	323.00	738.47
	August	550.85	292.0	31.38	310.15
	September	597.09	673.0	266.85	787.25
4	October	685.98	725.0	315.69	855.76
	November	974.61	785,0	269.32	1143.15
	December	903.31	955.0	72.48	671.83
	Annual Avg.	1165.46	1232.08	398.49	844.27

C. During the past year did the BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) exceed the product of 1.4 times the monthly average permit limit during two months of any consecutive quarters? (Check the appropriate point total.)

1	No = 0 points	Yes = 121 points
---	---------------	------------------

D.	During the past year did t exceed the monthly average (Check the appropriate point	he BOD₅ (CBOD₅) concentration (mg/l) and/or loading (lbs/day) e permit limit during four months of any two consecutive quarters? :total.)
	No = 0 points	Yes = 121 points
E,		e effluent TSS concentration (mg/l) or loading (lbs/day) exceed the othly average permit limit during two months of any two consecutive priate point total.)
	No = 0 points	Yes = 121 points
F _{av}	During the past year did the monthly average permit limit appropriate point total.)	ne TSS concentration (mg/l) and/or loading (lbs/day) exceed the t during four months of any two consecutive quarters? (Check the
	No = 0 points	Yes = 121 points
G,	the product of 1.4 times t	$\mathrm{NH_{3}}\text{-}\mathrm{N}$ or TKN concentration (mg/l) and/or loading (lbs/day) exceeds the monthly average permit limit during two months of any two ck the appropriate point total.)
	No = 0 points	Yes = 121 points
H.		ner the NH_3 -N or TKN concentration (mg/l) and/or loading (lbs/day) e permit limit during four months of any two consecutive quarters? total.)
	No = 0 points	Yes = 121 points
1.	Enter each point value check	ked for C through H in the blanks below.
	C Points =0	
	D Points = 0	
	E Points = 0	
	F Points =0	
	G Points =0	
	H Points =0	
	EST INDIVIDUAL POINT VAL his value on Part 11: Summa	

Facil	litv	Nai	me:

SPRING	BRANCH	WWTP
01 1 (1140		****

Part 3: Age of the Wastewater Treatment Facility

Subtract the above answer from the report year to determine age:

Age = (Last Calendar year) - (Answer to A)
$$Age \qquad 0 \qquad = \qquad (\underline{\qquad 2024 \qquad }) - (\underline{\qquad 2024 \qquad })$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

	Factor
Mechanical Treatment Plant	2.0
Aerated Lagoon	1.5
Stabilization Pond	1.0
Other (Specify:)	1.0

C. Multiply the factor listed next to the type of the facility your community employs by the age of your facility to determine the total point value for Part 3:

$$\frac{2.0}{\text{(Factor)}} \times \frac{0}{\text{(Age)}} = \frac{0}{\text{TOTAL POINT VALUE FOR PART 3}}$$

Enter the above value on Part 11: Summary Sheet. If the total point value exceeds 40, enter 40 on Part 11: Summary Sheet.

Facility Name: SPRING BRANCH WWTP

Part 4: Bypassing and Overflows

Enter this value on Part 11: Summary Sheet.

Α.	How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to heavy rain?
B.	How many bypass or overflow events of untreated wastewater occurred in the last year prior to the headworks of the WWTP due to heavy rain?
C.	How many of the bypass or overflow events listed in Parts A and B have been corrected such that future bypass or overflow events at the same location due to heavy rain are not anticipated?
D.	Add together Answers A and B and subtract Answer C from that total.
	A + B - C = (Check the appropriate point total.)
	\blacksquare 0 = 0 points \Box 1 = 5 points \Box 2 = 10 points \Box 3 = 15 points
	\square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points
	 ☐ 8 =40 points ☐ 9 =45 points ☐ 10 =50 points ☐ 11 or more =100 points
E.	How many bypass or overflow events of untreated wastewater occurred in the last year at the WWTP due to equipment failure? (This includes clogged/broken lines or manholes.)0_
F.	How many bypass or overflow events of untreated wastewater occurred in the last year due to equipment failure prior to the headworks of the WWTP? (This includes clogged/broken lines or manholes.)
G.	How many of the bypass or overflow events listed in Parts E and F have been corrected such that future bypass or overflow events at the same location due to the same equipment failure are not anticipated?
H.	Add together Answers E and F and subtract Answer G from that total.
	E + F - G = (Check the appropriate point total.)
	\blacksquare 0 = 0 points \Box 1 = 5 points \Box 2 = 10 points \Box 3 = 15 points
	\square 4 =20 points \square 5 =25 points \square 6 = 30 points \square 7 = 35 points
	☐ 8 =40 points ☐ 9 =45 points ☐ 10 =50 points ☐ 11 or more =100 points
l.	Add point values checked in D and H and enter the total in the blank below.
TOTAL	POINT VALUE FOR PART 4

All bypass or overflow events that have occurred in the last year (for any reason) must be individually reported with this MWPP report.

Facility	y Name:	SPRING BR	ANCH WWTP			
Part 5	: Sludge Q	uantity and St	<u>orage</u>			
A.			ation concerning sludge as requested on the <i>MV</i>			es, and storage practices urvey, ADEM Form 419.
B.	available,		or off-site? (i.e., How m			er treatment facility have cility operate without land
	(Check th	ne appropriate	point total.)			
	Greater th	han or equal to	4 months		Х	= 0 points
	Less than	n 4 months, bu	t greater than or equal to	3 months		= 10 points
	Less than	n 3 months, bu	t greater than or equal to	2 months		= 20 points
	Less than	n 2 months, bu	t greater than or equal to	1 month		= 30 points
	Less than	n one month				= 50 points
Part 6:	: Sludge D	isposal Practio	ces and Sites			
Α			dge disposal practices a P Sewage Sludge Survey			sed on available data as
В.,	How mar	ny months or sites to provide	years does the facility he proper land disposal? (0	nave access to a Check the approp	nd ap riate	oproval for sufficient land point total.)
	36 or mor	re months	= 0 points			
	24 - 35 m	onths	= 10 points			
	12 - 23 m	onths	= 20 points			
	6 - 11 mo	onths	= 30 points			
	Less than	n 6 months	= 50 points			
		/ALUE FOR P. on Part 11: Su	ART 60 mmary Sheet.	_		

ADEM Form 417 07/15 m3 Page 11 of 17

Facility	Name:

SPRING BRANCH WWTP

Part 7: New Development

				hat either flow or BOD₅ (CBOD₅) Estimate additional loadings below.
	Design Population: Equivalent (PE)	Design Flow:	MGD	Design BOD_5 (CBOD ₅):lbs/day
	List industrial and/or resident	ial developments.		
	Service Area is over 90% dev	veloped.	1	
			•	
	Will the additional loading ove (Check the appropriate point			
	No = 0 points	☐ Yes = 121 points		
E	Enter the point total in the blan	nk below.		
	. POINT VALUE FOR PART 7 his value on Part 11: Summar		(highest p	point total = 121)
Part 8:	Operator Certification			
Comple	ete the <i>Plant and Collection</i> S	ystem Personnel Inver	ntory, ADE	M Form 441.
	Do both the plant operator a Code; Division 10, Operator C Check the appropriate point to	ertification Program?	staffing	comply with ADEM Administrative
	Yes = 0 points	☐ No = 121 points		
	. POINT VALUE FOR PART 8 his value on Part 11: Summar		(highest p	point total = 121)

Are there any major new developments (industrial, commercial, or residential) in the last

Facility	/ Name:	SPRING BRA	NCH WWTP				
Part 9	Financia	l Status					
Α.			ues sufficient to co anced? <i>Include us</i>			nce expenses? If no	o, how
	Yes						
		tial Balininas una	0	Diverse	4.83	/4 000 gal	
		tial Minimum Il Minimum	0	Plus rate Plus rate	5.68	/1,000 gal. /1,000 gal.	
			pased on 6,000 gal			28.98	
What financial resources are available to pay for the wastewater improreconstruction needs? Adequate user charge system with A+ Bond Rating from Standard and Poors.				and/or			
О.	Please a	ittach a rate shee	et and the most red	cent audit, if avail	able.		
Part 1	0: Subject	tive Evaluation					
۹. ۱			cal and structural c			treatment facility.	S
	with pre	mature failure du	ue to corrosion or c	lifferential settling	g.		
3.		_	ndition of the sewer		ines, manho	oles, lift stations).	
	-						

What sewage sysnext 5 years?	sewage system improvements does the community have planned for construction in the years?				
WWTP and collec	tion system improvements will be determined from ongoing assessments.				
×					
What is the theore the wastewater tre	tical design life of the plant, and what is the estimated remaining useful life o				
Design life is 50 y	ears. Remaining life is 50 years.				
3					
What problems, if system?	any, over the last year have threatened treatment or conveyance within the				
None					
7					
• .	esently involved in formal planning for treatment facility upgrading? place and studies are being conducted to ensure future needs. All projects				
are approved in pu	blic forum.				
	the last year were there residential backups at any point in the collection on other than clogging of the lateral connection?				
Does the plant have describe.	a written plan for preventive maintenance on major equipment items? If yes				
Yes. Electrical: N	Meg-Ohm, Amp check. Mechanical: Lubrication of all bearings, seals, Etc.				
These tasks are pro	eformed from preventative maintenance logs and tracked through				
department databa	Ses.				

ADEM Form 417 07/15 m3 Page 14 of 17

Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?
(Check the appropriate response.) Yes No
Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assessed properly?
(Check the appropriate response.)
Describe any major repairs or mechanical equipment replacement made in the last year and include the approximate cost for those repairs. Do not include major treatment plan construction or upgrading programs.
Electrical Improvements \$100,000.00
Digester Top \$750,000.00
·
List and different accounts. (Attack additional about if necessary)
List any additional comments. (Attach additional sheets if necessary.)
\$500,000.00 was budgeted for this facility in FY2024. These funds were allocated for various
repairs including pumps, process equipment and any other mechanical/electrical repairs needed.
In addition, \$300,000.00 annually budgeted for the collection system.

ADEM Form 417 07/15 m3 Page 15 of 17

Part 11: Summary Sheet

Enter in the values from Parts 1 through 8 in the left column below. Add the numbers in the left 1... column to determine the MWPP Report point total the wastewater system generated for the previous calendar year.

Actual V	'alues	<u>i</u>	Maximum Possible
Part 1_	0	_points	80 points
Part 2_	0	_points	121 points
Part 3_	0	_points	40 points
Part 4 _	0	_points	200 points
Part 5_	0	_points	50 points
Part 6_	0	_points	50 points
Part 7_	0	_points	121 points
Part 8_	0	_points	121 points
Total	0	_points	783 points

- 2. Check the facility type that best describes the plant's treatment and disposal of wastewater.
 - Mechanical plant with surface water discharge
 - Aerated Lagoon or stabilization pond with surface water discharge
 - Mechanical plant using land disposal of liquid wastes
 - Aerated Lagoon or stabilization pond using land disposal of liquid wastes
- Check the range that describes the action needed to address problems identified in the report. 3.
 - 0 70 points

Actions as Appropriate*

- 71 120 points
- Departmental Recommendation Range*
- ☐ 121 783 points Municipality Action Range*

Complete the Municipal Water Pollution Prevention Resolution Form, ADEM Form 418. 4.

^{*}Other actions may be required by NPDES outside the scope of this report.

In Question 1, do any of the actual point values in the left column equal the maximum possible points in the right column?
(Check the appropriate response.)
If yes, provide a written explanation for this situation in the space below.
8

ADEM Form 417 07/15 m3 Page 17 of 17

ALABAMA POTW'S SEWAGE SLUDGE SURVEY *

Fa	cility Background Information;				
1.	Facility Information		Permit No	umber:	AL0058394
	Name:	SPRING BRANCH	WASTEWAT	ER TREATME	ENT PLANT
	Street Address:	1800 VERMONT R	ROAD		
	County:	MADISON			
2.	Facility Contact				
	Name:	RANDALL STEWA	ART		
	Title:	DIRECTOR OF WA		TION CONTR	OL
	Telephone:	256-883-3719			
	Permittee Name:	CITY OF HUNTSV	ILLE		
	Mailing Address:	1800 VERMONT R	ROAD		
	-	HUNTSVILLE, AL	35802		
Fa	cility Flow Information				
1.	Facility Wastewater Treatment Ca				
	Avg. Daily Flow for 2024		18.28	_MGD	
	Facility Design Capacity		41.0	_MGD	
2.	Estimated Septage Quantity Hand	led (Residuals Remo	oved from Sep	tic Tank Syste	ems)
	Average Domestic Sept		300000	gallons per	
	Average Commercial Se		100000	gallons per	
	3			_	
3.	Method of Septage Processing				
	Mixed with Influent \		ment		
	Mixed with Sewage	Sludge			
	۵				
1	Estimated Percentage Contributing	n Wastewater Flow			
⊶.		5 %			
		5 %			
		_	ribe: Commer	cial Flow	
	otter.	7.00	100. <u>COMMING</u>	5,0,1,1,0,1,	
5.	List type of wastewater treatment	process(es) utilized a	at this facility:		
	PRIMARY CLARIFIER,	FINE BUBBLE AERA	ATION, SECO	NDARY CLAF	RIFIER,
	CHLORINATION				
_		((() t - # 11%	4.	4400	lle/day des voialet
6.	Estimated sewage sludge wasting	rate at this facility:		1129	lb/day dry weight
			or		gallons per day
7.	Estimated untreated sludge receiv	ed from off site:		0	lb/day dry weight
			or		gallons per day
			8-		- •
8.	Estimated percent solids of combi	ned sewage sludge	prior to treatme	ent:	

9. List the sewage sludge treatment p	10000000 40	in propar	S	ludge Quanti ted pounds p	-
N/A			,		
10. Estimate the total volume of sludg	e generated	10		2031	
To. Zolimato ino total volume of claus	gomerates		(dry l	J.S. tons per	year)
Cludes Disposed Mathods					
Sludge Disposal Methods					
Which of the following describes th	e current me	etnod of sew Current P		or this facility: Proposed	
	Approved	by ADEM	Quantity	Approved	
	Yes	<u>No</u>	(dry U.S. tons/year)	Yes	<u>No</u>
a. I Land Application, Bulk					
Shipped ☐ Agriculture	0	0		0	0
☐ Forest	0	0		0	0
☐ Public Contact	0	0			
Lawn/Home Garden				0	0
 b. I Land Application, Bagged/Other Container 					
Agriculture	0	0			
☐ Forest		0		0	0
Public Contact		0			
Lawn/Home Garden	0			0	0
a ve Incinoration	x	0	2031	x	П
c. x Incineration	^	ı'.		^	ы
d. 🏿 Subtitle D Landfill					_
(Disposal Only)		0			0
e. I Lined Treatment Lagoon or Stabilization Pond	0	0			П
f. I Unlined Lagoon or	\ 	_	·	_	
Stabilization Pond		0			0
g. I Other (Please Describe)					0
2. If "f" was selected above and sludg	e is stored f	or 2 or more	vears, enter the dista	nce between	the
surface disposal site and the property			feet		

Pollutant Concentrations					
1. Enter the total concentrations of the	e following a	nalytes usin	g existing data. Do no	t enter TCLF	results.
Concentration		nple	Sample	Detection	Level of
Analyte (mg/kg or ppm)	T)	/pe	Date	Anal	ysis

Arsenic		
Cadmium	n	
Chromium	m	
Copper		
Lead		
Mercury		
Molybdenu	num	
Nickel		
Selenium	1	
Zinc		
Ammonium	um-	
Nitrogen		
Nitrate-		1
Nitrogen		
Total Kjelda Nitrogen	idani	
	☐ Class A ☐ Alternative A1 - Time and Temperature ☐ Alternative A2 - Alkaline Treatment ☐ Alternative A3 - Analysis and Operation ☐ Alternative A4 - Analysis Only ☐ Alternative A5 - Processes to Further Reduce Pathogens (PFRP) ☐ Heat Drying ☐ Thermophilic Aerobic Digestion ☐ Pasteurization ☐ Gamma Ray Irradiation ☐ Composting ☐ Alternative A6 - PFRP Equivalent	eat Treatment eta Ray Irradiation
	☐ Class B ☐ Alternative B1 - Fecal Coliform Count ☐ Alternative B2 - Process to Significantly Reduce Pathogens (PSRP) ☐ Aerobic Digestion ☐ Air Drying ☐ A ☐ Composting ☐ Lime Stabilization ☐ Alternative B3 - PSRP Equivalent ☐ Neither or Unknown	naerobic Digestion
	ttraction Control Option 1 - Minimum 38% Reduction in Volatile Solids Option 2 - Anaerobic Processes, with Bench-Scale Demonstration of Volatil Option 3 - Aerobic Processes, with Bench-Scale Demonstration of Volatile S Option 4 - Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested S Option 5 - Aerobic Processes plus Elevated Temperature	Solids Reduction

=	
	N/A
3. If sewage slu	udge is land applied in bulk form, briefly describe the nature of any complaints filed from
	N/A
2. If sewage slu	udge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation?
	wing questions if sewage sludge is applied to land. udge is land applied in bulk form, what type of crop or other vegetation is grown on this site? N/A
Land Application	n of Sewage Sludge
© Ye	s (If yes, please submit a copy of the groundwater monitoring reports along with
If disposal preperformed at the	ractice is surface disposal or land application, is groundwater monitoring required or
Groundwater Mo	onitoring
[] Op [] Op [] Op [] Op	otion 6 - Raised pH to 12 and Retained at 11.5 bition 7 - 75% Solids with no Unstabilized Solids bition 8 - 90% Solids with Unstabilized Solids bition 9 - Injection Below Land Surface bition 10 - Incorporation into Soil within 6 or 8 Hours bition 11 Covering Active Sewage Sludge Unit Daily ane of the Above

* Permittees that submitted the "Annual Report Review Form" for sludge to the EPA may submit a copy with the MWPP in lieu of Attachment 3.

FACILITY NAME: Spring	Branch WWTP		PLANT G	GRADE: <u>IV</u>
PERMIT NUMBER: AL005	8394			
PLANT SUPERINTENDENT:	Wesley Ba	ugh		TEL # _256-883-3719
SYSTEM MANAGER:	Randall Ste	ewart		TEL # <u>256-883-3719</u>
PLANT OPERATORS:				
NAME		GRADE OR TRAINEE STATUS	OPERATOR NO.	EXP. DATE
Wesley Baugh		IV	C006624	8/31/25
Trenton Anton		IV	C009231	11/30/26
Kason Furnas		IV	C006203	7/31/25
Michael Loyd		IV	C009539	4/30/27
Barrie Livingston		IV	C000295	8/31/2025
DeAngelo Smith		IV	C009239	4/30/27
7 Jacob Swaim		IV	C010216	6/30/27
8				
COLLECTION SYSTEM OPER				
		1 . 1		1
		IC	C007609	10/31/25
Randall Goode		IC	C009529	7/31/26
2 Randall Goode 3 Greg Fine		IC IC	C009529 C009232	7/31/26 7/31/26
2 Randall Goode 3 Greg Fine		IC	C009529	7/31/26
2 Randall Goode 3 Greg Fine 4 Langley Pullen		IC IC	C009529 C009232	7/31/26 7/31/26
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR		IC IC	C009529 C009232	7/31/26 7/31/26
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S):	₹ 40	IC IC IC IC	C009529 C009232	7/31/26 7/31/26
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD	₹ 40	IC IC IC IRS./WK NUMBER	C009529 C009232 C009597	7/31/26 7/31/26
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA	R 40 E I-C 40 ADE I DE II	IC IC IC IRS./WK NUMBER	C009529 C009232 C009597 AVERAGE NUMBER	7/31/26 7/31/26 9/30/26 8 OF EMPLOYEES PER SHIFT:
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA GRA GRA	E I-C 40 ADE I DE II	IC IC IC IRS./WK NUMBER 1	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA GRAI GRAI GRAI	E I-C 40 ADE I DE II	IC IC IC IRS./WK NUMBER	C009529 C009232 C009597 AVERAGE NUMBER	7/31/26 7/31/26 9/30/26 8 OF EMPLOYEES PER SHIFT:
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA GRA GRA	E I-C 40 ADE I DE II	IC IC IC IRS./WK NUMBER 1	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
Randall Goode Greg Fine Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA GRA GRAI GRAI GRAI GRAI GRAI GRAI GRAI DESIGNATED TRAINEE(S)	R 40 E I-C 40 ADE I DE II DE III DE IV 252	IC IC IC IRS./WK NUMBER 1 4	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRA GRAI GRAI GRAI GRAI DESIGNATED TRAINEE(S) LABORATORY	R 40 E I-C 40 ADE I DE II DE III DE IV 252 80 80 31	IC IC IC IRS./WK NUMBER 1 4	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRAC GRAC GRAC GRAC GRAC GRAC GRAC GRAC	R 40 E I-C 40 ADE I DE II DE III DE IV 252 80 80 31	IC IC IC IRS./WK NUMBER 1 4 7 2 2 1	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
OPERATOR(S): GRAD GRA GRAI GRAI GRAI GRAI DESIGNATED TRAINEE(S) LABORATORY MAINTENANCE OTHER PLANT WORKERS	R 40 E I-C 40 ADE I DE II DE III DE IV 252 80 80 31	IC IC IC IRS./WK NUMBER 1 4 7 2 2 1	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A
2 Randall Goode 3 Greg Fine 4 Langley Pullen MANAGEMENT/SUPERVISOR OPERATOR(S): GRAD GRAC GRAC GRAC GRAC GRAC GRAC GRAC GRAC	R 40 40 40 40 40 40 40	IC IC IC IRS./WK NUMBER 1 4 7 2 2 1 ACH DAY:	C009529 C009232 C009597 AVERAGE NUMBER 1ST 10 2ND 1	7/31/26 7/31/26 9/30/26 R OF EMPLOYEES PER SHIFT: START TIME 6:00A

PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

ADEM USE ONLY

1. DOES PLANT OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

2. DOES COLLECTION SYSTEM OPERATOR STAFFING COMPLY WITH DIVISION 10 OF ADEM ADMINISTRATIVE CODE?

YES	NO
ADEM FORM 441	8/02

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.5

(Submission #: HQ3-99K6-V9YT8, version 1)

Digitally signed by: AEPACS

Date: 2024.04.30 15:04:42 -05:00 Reason: Submission Data Location: State of Alabama

Details

Submission Alias NPDES Sanitary Sewer Overflow (SSO) Event Report

SSO ID

SSO-00210241

Submission ID

HQ3-99K6-V9YT8

Form Input

General Instructions

All publicly or privately owned wastewater treatment plants holding an NPDES permit are required to provide immediate notification to the Alabama Department of Environmental Management (ADEM), county public health officials, the public, and any other affected entity such as public water systems as soon as possible upon becoming aware of any notifiable sanitary sewer overflow (SSO) events.

"notifiable SSO", as defined in ADEM Admin. Code r. 335-6-6-.02(hh), is an overflow, spill, release or diversion of wastewater ...om a sanitary sewer system that either (1) reaches a surface water of the State or (2) may imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.

Immediate notification shall be provided within 24 hours of becoming aware of the event. This immediate notification may be made either verbally to the Department's SSO Hotline at (334) 274-4200 or electronically to the Department's Alabama Environmental Permitting and Compliance System (AEPACS) system. The follow-up report shall be submitted within five days of becoming aware of the SSO event using the Department's AEPACS system.

Special Note:

The Sanitary Sewer Overflow map allows users to see the locations of SSOs that have been reported to the Department. They are displayed on the map for 10 days after the SSO has ceased. The colors indicate the volume of the discharge.

Click on any dot on the map and a popup will display information about the SSO(s).

At the top of the popup that is displayed after clicking on a dot, there is a number that indicates the number of SSOs at that location. Users can cycle through them by clicking on the arrows at the top of the popup.

At the bottom of the popup is a link ("click for eFile") that will take users to SSOs reported from that facility. The eFile entries that appear are sorted by date from most recent to oldest and contain only SSO reports.

Users can zoom in and out by using the +/- buttons at the top left of the map, the scroll on their mouse, or by holding the Shift key down while clicking and dragging a box on the map to zoom in.

The Switch Basemap button at the top right of the page allows users to select a different basemap. `lease also be aware that the SSOs reported to the Department will appear on a public map here.

Processing

If you are able to complete all of the information in the first submittal, please indicate the status of Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:

Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event? Yes

Permittee Information

Permit Number

AL0058394

Permittee

City of Huntsville Water Pollution Control

Facility/Site Information

Facility Name

Spring Branch WWTP

Facility County

Madison

Assigned SSO ID

Assigned SSO ID

SSO-00210241

SSO Event - Information

Date/Time SSO Event Started:

Date/Title 300 Event office.			
Date	Time		
04/30/2024	09:01 am		

Is the SSO on-going?

No

Date/Time SSO Event Stopped:

Date	20	Time
04/30/2024	12:17 pm	

Did the SSO occur during wet weather?

Yes

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?

Note:

If estimated volume discharged is known, the VALUE section should be completed. If you only select a RANGE, you should be

Report Estimated Volume Discharged as

Range

Estimated Volume Discharged (Range)

1,000 < gallons <= 10,000

indicate source of discharge event

Manhole

County in which SSO occurred (check all that apply)

Madison

Note

For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):

Map Help link

Latitude/Longitude of discharge

34.72351696755152,-86.6423753892752

Note

Please specify either the street address or location description for the discharge

Street Address

1201 John Wright Drive

City

Huntsville

State

AL

ZIP Code

35805

Location Description

Manhole just west of John Wright Drive

Known or suspected cause of the discharge

Inflow/Infiltration during a heavy rain event.

Destination of discharge

Other (Please Describe)

Please describe the �Other� destination(s) of the discharge:

Private Pond on UAH Campus.

Did the discharge reach a designated swimming water?

No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:

Not Performed

Was the affected area cleaned?

Yes

Nas the affected area disinfected?

Yes

Are you aware of any other potential health or environmental impacts?

No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.

Area was cleaned and disinfected. SSES work is ongoing to determine source of inflow.

lease attach supporting information, if applicable:

NONE PROVIDED

Comment

NONE PROVIDED

Indicate efforts to notify public (check all that apply):

Placement of Signs

Date signs were placed:

04/30/2024

Indicate Other Officials Notified (check all that apply):

County Health Department Other (Please Describe)

County Health Department notification date:

04/30/2024

Please describe the �Other� officials notified:

Storm Water Authority

Other Officials Notification Date:

04/30/2024

Other States notified:

NONE PROVIDED

Nere any public water supply intake locations affected?

No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

Area was clean and disinfected. SSES work is ongoing to determine source of inflow.

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By

Randall Stewart on 04/30/2024 at 2:58 PM

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.5

(Submission #: HQ5-RCXR-W8HHZ, version 1)

Digitally signed by: AEPACS

Date: 2024.08.09 10:04:50 -05:00 Reason: Submission Data Location: State of Alabama

Details

Submission Alias NPDES Sanitary Sewer Overflow (SSO) Event Report

SSO ID

SSO-00211848

Submission ID

HQ5-RCXR-W8HHZ

Form Input

General Instructions

All publicly or privately owned wastewater treatment plants holding an NPDES permit are required to provide immediate notification to the Alabama Department of Environmental Management (ADEM), county public health officials, the public, and any other affected entity such as public water systems as soon as possible upon becoming aware of any notifiable sanitary sewer overflow (SSO) events.

A "notifiable SSO", as defined in ADEM Admin. Code r. 335-6-6-.02(hh), is an overflow, spill, release or diversion of wastewater from a sanitary sewer system that either (1) reaches a surface water of the State or (2) may imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.

Immediate notification shall be provided within 24 hours of becoming aware of the event. This immediate notification may be made either verbally to the Department's SSO Hotline at (334) 274-4200 or electronically to the Department's Alabama Environmental Permitting and Compliance System (AEPACS) system. The follow-up report shall be submitted within five days of becoming aware of the SSO event using the Department's AEPACS system.

Special Note:

The Sanitary Sewer Overflow map allows users to see the locations of SSOs that have been reported to the Department. They are displayed on the map for 10 days after the SSO has ceased. The colors indicate the volume of the discharge.

Click on any dot on the map and a popup will display information about the SSO(s).

At the top of the popup that is displayed after clicking on a dot, there is a number that indicates the number of SSOs at that location. Users can cycle through them by clicking on the arrows at the top of the popup.

At the bottom of the popup is a link ("click for eFile") that will take users to SSOs reported from that facility. The eFile entries that appear are sorted by date from most recent to oldest and contain only SSO reports.

Users can zoom in and out by using the +/- buttons at the top left of the map, the scroll on their mouse, or by holding the Shift key down while clicking and dragging a box on the map to zoom in.

The Switch Basemap button at the top right of the page allows users to select a different basemap. Please also be aware that the SSOs reported to the Department will appear on a public map here.

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

8/9/2024 10:04:50 AM Page 1 of 5

If you are able to complete all of the information in the first submittal, please indicate the status of Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:

Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?

Permittee Information

Permit Number

AL0058394

Permittee

City of Huntsville Water Pollution Control

Facility/Site Information

Facility Name

Spring Branch WWTP

Facility County

Madison

Assigned SSO ID

Assigned SSO ID

SSO-00211848

SSO Event - Information

Date/Time SSO Event Started:

Date	Time	
08/08/2024	10:00 am	

Is the SSO on-going?

No

Date/Time SSO Event Stopped:

Date	Time	
08/08/2024	01:35 pm	

Did the SSO occur during wet weather?

No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?

Note:

If estimated volume discharged is known, the VALUE section should be completed. If you only select a RANGE, you should be aware that the estimated volume discharged will be considered to be the largest value of the range selected. Estimated volumes above 1,000,000 gallons must be entered as a VALUE.

Report Estimated Volume Discharged as

Range

Estimated Volume Discharged (Range)

1,000 < gallons <= 10,000

Indicate source of discharge event

Manhole

County in which SSO occurred (check all that apply)

Madison

Note

For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):

Map Help link

Latitude/Longitude of discharge

34,776675526799146,-86.59233350507313

Note

Please specify either the street address or location description for the discharge

Street Address

3813 Lakeview Drive

City

Huntsville

State

AL

ZIP Code

35810

Location Description

Manhole in the NW corner of the property located at 3813 Lakeview Drive.

Known or suspected cause of the discharge

A fallen tree damaged the manhole and discharge pipe.

Destination of discharge

Creek or River

Provide the first named creek or river that receives the flow.

Pinhook Creek

Did the discharge enter an unnamed tributary prior to entering the first named creek or river listed above?

No

Did the discharge reach a designated swimming water?

No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:

Not Performed

Was the affected area cleaned?

Yes

Was the affected area disinfected?

Yes

Are you aware of any other potential health or environmental impacts?

No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.

Sewer line was plugged and the necessary repairs have been made. Area was cleaned and disinfected.

Please attach supporting information, if applicable:

NONE PROVIDED

Comment

NONE PROVIDED

Indicate efforts to notify public (check all that apply):

Placement of Signs

Date signs were placed:

08/08/2024

Indicate Other Officials Notified (check all that apply):

County Health Department Other (Please Describe)

County Health Department notification date:

08/09/2024

Please describe the Other officials notified:

Storm Water Authority

Other Officials Notification Date:

08/09/2024

Other States notified:

NONE PROVIDED

Were any public water supply intake locations affected?

No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

The necessary repairs have been made and the area was cleaned and disinfected.

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By

Randall Stewart on 08/09/2024 at 9:58 AM