

**CITY OF HOOVER**  
**CITY COUNCIL**  
**MINUTES**  
**APRIL 20, 2020**

The City Council of the City of Hoover met in regular session on this date at 6:00 PM, via teleconference/video conference, following publication and posting pursuant to Alabama Law. Council President Gene Smith called the meeting to order and the City Clerk called the roll with the following:

**Members Present:** Gene Smith, Council President  
John Greene, Council Pro-Tem  
John Lyda, Council Member  
Casey Middlebrooks, Council Member  
Derick Murphy, Council Member  
Curt Posey, Council Member  
Mike Shaw, Council Member

**Other Officials Present:** Mayor Frank V. Brocato  
Phillip Corley, City Attorney  
April Danielson, Assistant City Attorney  
Rod Evans, Assistant City Attorney  
Jason Cope, Technology Director  
Wendy Dickerson, City Clerk  
Allan Rice, City Administrator

Wendy Dickerson, Hoover City Clerk, led the invocation.

Mr. Posey led the Pledge of Allegiance.

**MINUTES**

The minutes of the April 6, 2020, regular meeting was presented for approval.

**MOTION:** Motion to dispense with the reading of the minutes of the April 6, 2020, (Regular Meeting) and approve them as presented was by Mr. Lyda and second by Dr. Middlebrooks. Mr. Smith called for a roll call vote.

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	

Motion carried.

The motion carried approving the minutes of the April 6, 2020, (Regular Meeting).

### **ANNOUNCEMENTS AND GUEST RECOGNITION**

- The Mayor is hearing great things about opening up the country. The openings will be based on the health, safety, and welfare of the people. A task force will be established in the City for discussion about re-opening. Councilman Lyda has accepted an appointment on the task force. He stated that we want our citizens and employees safe.
- The Mayor stated that Mr. Rice will explain the financial report.

Mr. Rice stated went over the financial plan. He stated that the Council asked that the City reach the goal of reducing the budget by \$15 million now. He stated that the City is actively trying to reach that goal. He stated to get to the \$15 million, that it will affect the capital budget the most.

Discussion ensued on the financial plan. A copy of the financial plan is attached to the summary.

Mr. Smith asked if there was any more reports or recognitions from the Council. There being none, Mr. Smith moved forward to the regular agenda.

### **Regular Agenda**

#### **PAYMENT OF BILLS**

**MOTION** Motion to approve the payment of bills was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith asked if there were any questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving the payment of bills.

#### **RESOLUTION NUMBER 6232-20**

**A RESOLUTION APPROVING AN ALCOHOL LICENSE, 1537 MONTGOMERY HIGHWAY, H A PLATINUM, LLL D/B/A H A PLATINUM FOOD MART, HAIDER BHARWANI, EXECUTIVE(S).**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6232-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith opened the floor for a public hearing.

Ms. Azemeen Bharwani stated that she very excited to get the business started.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6232-20.

### **RESOLUTION NUMBER 6233-20**

**A RESOLUTION APPROVING AN ALCOHOL LICENSE, 1063 AMBER DRIVE, RARE HOSPITALITY INTERNATIONAL, INC. D/B/A LONGHORN STEAKHOUSE 5626, COLLEN LYONS, JOSEPH KERN, AND WILLIAM WHITE, III, EXECUTIVE(S).**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6233-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6233-20.

**RESOLUTION NUMBER 6234-20**

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN AGREEMENT WITH MEDPRO US INC. D/B/A MEDPRO.**

**RESOLUTION NUMBER 6235-20**

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN AGREEMENT WITH STRYKER MEDICAL.**

Mr. Corley stated that the agreements need to be reviewed by Counsel and the Fire Chief would like the agreements to be continued until the next meeting.

**MOTION** Motion to continue Resolution Number 6234-20 and Resolution Number 6235-20 to the May 4, 2020, was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes-
Mr. Smith – yes	Motion carried.

Motion carried continuing Resolution Number 6234-20 and Resolution Number 6235-20 to the May 4, 2020, meeting.

**RESOLUTION NUMBER 6236-20**

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE AN AGREEMENT WITH ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6236-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Cope stated that this agreement is a renewal of the current mapping software. The funding would be for \$55,000 in lieu of the previous year of \$50,000, for a \$5,000 increase.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6236-20.

### **RESOLUTION NUMBER 6237-20**

#### **A RESOLUTION ACCEPTING PUBLIC IMPROVEMENTS WITHIN PUBLIC RIGHT-OF-WAY.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6237-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith stated that the bond amount and the application has a \$500 difference.

Mr. Reeves stated that the bond amount is to be \$48,500.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6237-20.

**RESOLUTION NUMBER 6238-20**

**A RESOLUTION AUTHORIZING THE MAYOR TO FILL A CERTAIN  
VACANT EMPLOYEE POSITION.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6238-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Rice stated that a current employee filled the position that the Council approved. The Resolution will allow for the filling of the new position in payroll.

Discussion ensued about filling the position. Discussion, also, ensued about other open positions.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6238-20.

**RESOLUTION NUMBER 6239-20**

**A RESOLUTION AUTHORIZING THE BIRMINGHAM WATER WORKS  
TO INSTALL FIRE HYDRANTS.**

Mr. Murphy stated that he abstains from the vote.

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6239-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – abstain
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6239-20.

### **RESOLUTION NUMBER 6240-20**

#### **A RESOLUTION INFORMING THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OF ACTIONS REGARDING THE MUNICIPAL WATER POLLUTION PREVENTION PROGRAM FOR THE INVERNESS WASTEWATER TREATMENT PLANT.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6240-20 was made by Mr. Lyda and seconded by Mr. Greene.

Mr. Smith opened the floor for a public hearing.

Mr. Reeves explained the reports.

A copy of the report is attached to the summary.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6240-20.

### **RESOLUTION NUMBER 6241-20**

#### **A RESOLUTION INFORMING THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OF ACTIONS REGARDING THE MUNICIPAL WATER POLLUTION PREVENTION PROGRAM FOR THE RIVERCHASE WASTEWATER TREATMENT PLANT.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6241-20 was made by Mr. Lyda and seconded by Mr. Greene.

A copy of the report is attached to the summary.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6241-20.

### **RESOLUTION NUMBER 6242-20**

#### **A RESOLUTION AMENDING THE BUDGET FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2020.**

Mr. Corley read the summary of the Resolution.

**MOTION** Motion to approve Resolution Number 6242-20 was made by Mr. Lyda and seconded by Mr. Greene.

Discussion ensued on the budget amendments.

Mr. Smith opened the floor for a public hearing.

There being no one to address the Council, Mr. Smith closed the floor for the public hearing.

Mr. Smith asked if there were any other questions from the Council or audience. There being none, Mr. Smith called for the question with a roll call vote, as follows:

Mr. Greene – yes	Mr. Lyda – yes
Dr. Middlebrooks – yes	Mr. Murphy – yes
Mr. Posey – yes	Mr. Shaw – yes
Mr. Smith – yes	Motion carried.

Motion carried approving Resolution Number 6242-20.

### **COMMENTS/QUESTIONS**

Mr. Shaw stated that this meeting went very smoothly and thanked Mr. Cope.

Mr. Greene stated that he commends the Firemen at Station 5, who completed the roof.

Mr. Smith asked about Council items that will need to be on the Council Agenda in the future.

Discussion ensued about Council meetings and items.

Mr. Smith stated that he is opening the meeting to comments and questions.

Mr. Smith asked if there was anything else from the Council.

There being no further business, the meeting was adjourned at 7:02 p.m.

## City of Hoover COVID19 Financial Plan

**UPDATE**

4/20/2020

Objectives	
1. Forecast <b>expected lost revenue</b> in current budget year.	\$8,000,000 to \$15,000,000
a. Identify <b>midpoint</b> dollar amount. b. Identify <b>funds currently available</b> to apply to revenue shortfall. c. Identify <b>cuts to current operating budget</b> to apply to shortfall. d. Identify potential <b>cuts to capital projects</b> (requires City Council approval)	\$11,500,000
2. Protect financial health and stability of the city.	
3. Provide highest possible level of services to the public.	
4. Maintain status as municipal employer of choice.	

Control Measures	Amount	Notes
1. Operating (already enacted)		
a. Eliminate travel	\$236,000	All travel eliminated
b. Critical purchases only <i>(executive review)</i>		All requisitions now at executive review
c. Other cuts from operating budget	\$1,400,000	Currently \$1,156,642 (83%)
d. Savings from unfilled positions	\$736,861	↑ \$107,551
e. Savings from cancelled events	\$717,858	↑ \$25,199
f. Savings from OT reductions	\$501,000	Round 1 (estimated)
1. Capital		
a. Eliminate new vehicle purchases	\$500,000	All vehicle purchases eliminated
b. Capital project closeouts	\$227,917	↑ \$50,538
c. Move some capital projects to ESCO	\$294,860	
d. Savings from (potential) cancelled capital projects	\$5,546,722	See Updated List
e. Unallocated capital funds	\$3,000,000	
<b>Current Total</b>	<b>\$13,161,218</b>	↑ \$1,994,681

## Capital Projects for Potential Cancellation

4/20/2020

TRCRT1 West Hoover Traffic Study	\$	346,946.00
SIGBRA Braddock Drive Signal Upgrade	\$	158,550.00
SIGDEO Deo Dara Signal Upgrade	\$	40,320.00
SIGFIN Finley Intersection Signal Install	\$	110,724.00
SIGVAL Valleydale Signal Improvements	\$	59,983.00
TRACLM Traffic Calming Devices	\$	50,000.00
MUNLAN Municipal Complex Sidewalk	\$	197,213.00
SIDEAL Alford Ave Sidewalk	\$	474,799.00
BLPARK Bluff Park Pavilion	\$	163,272.00
SLPARK Star Lake Improvements	\$	339,904.00
FS2RF Fire Station 2 Roof	\$	100,000.00
FS4RF Fire Station 4 Roof	\$	195,000.00
MDMRWD Marywood Drainage	\$	185,000.00
LANDAC Moss Rock Preserve Land Purchase	\$	500,000.00
SIDE15 Hwy 150 Sidewalk	\$	686,658.00
RADUPG Radio Flash Upgrades	\$	58,000.00
POLRAD Tower Relocation	\$	40,806.00
LIFPAK Cardiac Monitors	\$	50,833.00
SCBA Compressor	\$	10,500.00
PROCHG Sub Regs Zoning	\$	31,010.00
SCANVA Scanning Services	\$	11,542.00
BIPLAN Bike Ped Plan	\$	18,755.00
EDNAIN Edna Rd Land	\$	1,000,000.00
INVGRE Inverness Greenway Project	\$	230,589.00
MDWIST 2854 Wisteria Drive Ditch	\$	27,687.00
POLERE Hwy 31 Light Pole Replacement	\$	162,735.00
GTPARK Georgetown Park Improvements	\$	100,000.00
INVPRK Inverness Park Improvements	\$	150,542.00
ALDIMP Aldridge Gardens Improvements	\$	45,354.00
<b>TOTAL</b>	\$	5,546,722.00

# MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

## ANNUAL REPORT

SUBMITTED BY:

**TREATMENT FACILITY:** Inverness WWTP NPDES #: AL0025852

**MUNICIPALITY:** City of Hoover COUNTY: Shelby

**CONTACT PERSON:** Phil McGraw  
Responsible Official  
Civil Engineer  
Title

Telephone #: 205-444-7637 Fax #: 205-444-7745

Email Address: phil.mcgraw@hooveralabama.gov

**CHIEF OPERATOR:** Michael McCary  
Name

Telephone #: 205-988-9669 Fax #: 205-988-9656

Email Address: michael.mccary@clearwatersol.com

Date: March 23, 2019

**REVIEWED BY:** N/A  
Consulting Engineer

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 2019 (due **May 31, 2020**).

- 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 digester 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

***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 31<sup>st</sup> to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.**

Facility Name: Inverness WWTP

**Part 1: Influent Loading/Flows**

A. List the average monthly volumetric flows and BOD<sub>5</sub> (CBOD<sub>5</sub>) loadings received at your facility during the last calendar year.

<u>Month</u>	<u>Column 1 Average Monthly Flowrate (MGD)</u>	<u>Column 2 Average Monthly BOD<sub>5</sub> (CBOD<sub>5</sub>) Concentration (mg/l)</u>	<u>Column 3 Average Loading BOD<sub>5</sub> (CBOD<sub>5</sub>) (lbs/day**)</u>
January	1.095	70.6	681.5
February	1.259	72.7	744.4
March	0.957	77.0	682.0
April	1.078	66.4	530.0
May	0.844	85.9	614.1
June	0.843	83.5	576.5
July	0.790	104.0	678.0
August	0.847	119.2	854.1
September	0.835	149.8	1041.0
October	0.829	135.2	955.8
November	0.787	175.7	1160.0
December	0.847	206.7	1439.0
<b>Annual Avg.</b>	0.918	112.2	829.7

\*\* 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 BOD<sub>5</sub> (CBOD<sub>5</sub>) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	<u>Average Design Flow MGD</u>	<u>Average Design BOD<sub>5</sub> (CBOD<sub>5</sub>) Loading (lbs/day)</u>
Design Criteria	1.200	2102
90% of the Design Criteria	1.080	1892

C. How many times did the monthly flow (Column 1) to the WWTP exceed 90% of design flow?  
\_\_\_\_\_ 2 \_\_\_\_\_ (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?  
\_\_\_\_\_ 1 \_\_\_\_\_ (Check the appropriate point total)

0 = 0 points       1 - 2 = 5 points       3 - 4 = 10 points       5 or more = 15 points

E. How many times did the monthly BOD<sub>5</sub> (CBOD<sub>5</sub>)\* loading (lbs/day) (Column 3) to the WWTP exceed 90% of the design loading?  
\_\_\_\_\_ 0 \_\_\_\_\_ (Check the appropriate point total)

0 - 1 = 0 points       2 - 4 = 5 points       5 or more = 10 points

F. How many times did the monthly BOD<sub>5</sub> (CBOD<sub>5</sub>)\* loading (lbs/day) (Column 3) to the WWTP exceed the design loading?  
\_\_\_\_\_ 0 \_\_\_\_\_ (Check the appropriate point total)

0 = 0 points       1 = 10 points       2 = 20 points       3 = 30 points       4 = 40 points       5 or more = 50 points

G. Enter each point value marked for C through F and enter the sum in the appropriate blank below.

C points = \_\_\_\_\_ 0 \_\_\_\_\_

D points = \_\_\_\_\_ 5 \_\_\_\_\_

E points = \_\_\_\_\_ 0 \_\_\_\_\_

F points = \_\_\_\_\_ 0 \_\_\_\_\_

TOTAL POINTS VALUE FOR PART 1 \_\_\_\_\_ 5 \_\_\_\_\_

Enter this value on Part 11: Summary Sheet.

\*To obtain equivalent BOD<sub>5</sub> loading for comparison with design loading for those permittees using influent CBOD<sub>5</sub>, divide annual average CBOD<sub>5</sub>, loading in lbs/day from Part 1, A by 0.7.

Facility Name: Inverness WWTP (Outfall 001)

**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 BOD<sub>5</sub>, (CBOD<sub>5</sub>) TSS, NH<sub>3</sub>-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
		Dec-April	4.0	30.0	1.0

(2) DMR Concentration

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
1	January	No Discharge	No Discharge	No Discharge	No Discharge
	February				
	March				
2	April				
	May				
	June				
3	July				
	August				
	September				
4	October				
	November				
	December				
<b>Annual Avg.</b>		No Discharge	No Discharge	No Discharge	No Discharge

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

(1) NPDES Permit Loading

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
		Dec-April	40.0	300.0	10.0

(2) DMR Loading

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
1	January	No Discharge	No Discharge	No Discharge	No Discharge
	February				
	March				
2	April				
	May				
	June				
3	July				
	August				
	September				
4	October				
	November				
	December				
<b>Annual Avg.</b>		No Discharge	No Discharge	No Discharge	No Discharge

C. During the past year did the BOD<sub>5</sub> (CBOD<sub>5</sub>) 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

Facility Name: Inverness WWTP (Outfall 003)

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 BOD<sub>5</sub>, (CBOD<sub>5</sub>) TSS, NH<sub>3</sub>-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
	HCR	15.0	30.0	3.0	8.0

(2) DMR Concentration

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
1	January				
	February	1.04	1.2	0.5	0.8
	March	1.06	2.6	0.8	1.1
2	April				
	May				
	June				
3	July				
	August				
	September				
4	October				
	November				
	December				
<b>Annual Avg.</b>		1.05	1.9	0.6	1.0

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

(1) NPDES Permit Loading

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
	HCR	Report	Report	Report	Report

(2) DMR Loading

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
1	January				
	February	52.87	61.2	30.8	47.5
	March	30.2	57.0	27.0	35.2
2	April				
	May				
	June				
3	July				
	August				
	September				
4	October				
	November				
	December				
<b>Annual Avg.</b>		41.5	59.1	28.9	41.4

C. During the past year did the BOD<sub>5</sub> (CBOD<sub>5</sub>) 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

Facility Name: Inverness WWTP (Outfall 002)

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 BOD<sub>5</sub>, (CBOD<sub>5</sub>) TSS, NH<sub>3</sub>-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
	ALL	15.0	30.0	3.0	10.0

(2) DMR Concentration

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
1	January	1.7	2.0	0.6	0.9
	February	1.0	3.6	0.1	0.1
	March	2.3	2.1	2.1	3.7
2	April	1.4	2.6	0.5	1.0
	May	2.5	6.3	2.4	9.3
	June	1.3	2.2	0.5	1.1
3	July	1.5	1.9	0.7	2.3
	August	1.8	3.0	0.6	0.9
	September	1.5	2.6	1.5	3.1
4	October	1.0	2.1	1.0	1.8
	November	1.1	2.0	1.36	1.6
	December	1.9	1.8	2.4	5.6
<b>Annual Avg.</b>		1.6	2.7	1.1	2.6

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

(1) NPDES Permit Loading

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
	ALL	Report	Report	Report	Report

(2) DMR Loading

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
1	January	16.2	20.5	9.2	12.0
	February	7.2	25.9	0.2	0.7
	March	16.4	15.4	15.3	27.9
2	April	12.3	20.9	5.1	9.2
	May	18.2	45.0	16.9	67.4
	June	8.8	14.7	3.6	7.5
3	July	9.7	12.1	4.6	14.2
	August	12.3	20.5	4.3	5.7
	September	10.7	18.3	10.3	21.6
4	October	7.0	15.7	7.0	11.9
	November	7.4	13.6	9.16	10.9
	December	13.5	13.0	16.2	38.9
<b>Annual Avg.</b>		11.6	19.6	8.5	19.0

C. During the past year did the BOD<sub>5</sub> (CBOD<sub>5</sub>) 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

D. During the past year did the BOD<sub>5</sub> (CBOD<sub>5</sub>) 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 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

F. During the past year did the TSS 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

G. During the past year did the NH<sub>3</sub>-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. During the past year did either the NH<sub>3</sub>-N or TKN 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

I. Enter each point value checked 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 \_\_\_\_\_

HIGHEST INDIVIDUAL POINT VALUE FOR PART 2 (C-H) 0 (HIGHEST POINT = 121)  
Enter this value on Part 11: Summary Sheet.

Facility Name: Inverness WWTP

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed? 2001

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

$$\text{Age} = (\text{Last Calendar year}) - (\text{Answer to A})$$

$$\text{Age } \underline{18} = (\underline{2019}) - (\underline{2001})$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

	Factor
<u>X</u> 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:

$$\frac{2.0}{\text{(Factor)}} \times \frac{18}{\text{(Age)}} = \underline{36} \quad \text{TOTAL POINT VALUE FOR PART 3}$$

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: Inverness 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? 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? N/A (0)

D. Add together Answers A and B and subtract Answer C from that total.  
A + B - C = 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  
 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.) 0

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  
 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

I. 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: Inverness WWTP

Part 5: Sludge Quantity and Storage

- 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. 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?) > 4 months

(Check the appropriate point total.)

- Greater than or equal to 4 months  = 0 points
- Less than 4 months, but greater than or 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

TOTAL POINT VALUE FOR PART 5 0  
Enter this value on Part 11: Summary Sheet.

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Part 6: Sludge Disposal Practices and Sites

- A. Please provide the sludge disposal practices and site information based on available data as requested on the *MWPP Sewage Sludge Survey*, 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 months  = 10 points
- 12 - 23 months  = 20 points
- 6 - 11 months  = 30 points
- Less than 6 months  = 50 points

TOTAL POINT VALUE FOR PART 6 0  
Enter this value on Part 11: Summary Sheet.

Facility Name: Inverness 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<sub>5</sub> (CBOD<sub>5</sub>) loadings to the sewage system could significantly increase? Estimate additional loadings below.

Design Population: \_\_\_\_\_ No \_\_\_\_\_ Design Flow: \_\_\_\_\_ MGD Design BOD<sub>5</sub> (CBOD<sub>5</sub>): \_\_\_\_\_ lbs/day Equivalent (PE)

List industrial and/or residential developments.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Will the additional loading overload the plant?  
(Check the appropriate point total.)

No = 0 points                       Yes = 121 points

Enter the point total in the blank below.

TOTAL POINT VALUE FOR PART 7 0 (highest point total = 121)  
Enter this value on Part 11: Summary Sheet.

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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.)

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.

Facility Name: Inverness WWTP

**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? ***Include user charge rates.***

No. Shortfalls in funding for O and M expenses are made up for through the City's fund balance.

Residential Minimum                   N/A                   Plus rate           \$6.12           /1,000 gal.

Industrial Minimum                   N/A                   Plus rate           N/A           /1,000 gal.

Monthly residential rate based on 6,000 gallons usage \$                                   36.72                                  

B. What financial resources are available to pay for the wastewater improvements and/or reconstruction needs?

Impact and user fees.

C. Please attach a rate sheet and the most recent audit, if available.

Not available

**Part 10: Subjective Evaluation**

A. Describe briefly the physical and structural conditions of the wastewater treatment facility.

The Inverness WWTP was reconstructed in 2001 and is excellent condition. The facility continues to be well maintained.

B. Describe the general condition of the sewer system (sewer lines, manholes, lift stations).

The collection system is in good condition. An I/I rehab project was constructed in 2015.

C. What sewage system improvements does the community have planned for construction in the next 5 years?

None

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D. What is the theoretical design life of the plant, and what is the estimated remaining useful life of the wastewater treatment facility?

The Inverness WWTP was reconstructed in 2001 and, with continued proper maintenance, should remain operational indefinitely.

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E. What problems, if any, over the last year have threatened treatment or conveyance within the system?

None

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F. Is the community presently involved in formal planning for treatment facility upgrading?

No

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G. How many days in the last year were there residential backups at any point in the collection system for any reason other than clogging of the lateral connection? 0

H. Does the plant have a written plan for preventive maintenance on major equipment items? If yes, describe.

Yes; Preventative maintenance is based upon requirements/recommendations outlined in the O and M manuals and managed through computer software.

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- 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.

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Replaced the pumps at the Inverness Apartments pump station (\$39,424)

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- L. List any additional comments. (Attach additional sheets if necessary.)

None

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Facility Name: Inverness 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.

<u>Actual Values</u>	<u>Maximum Possible</u>
Part 1 <u>0</u> points	80 points
Part 2 <u>0</u> points	121 points
Part 3 <u>36</u> points	40 points
Part 4 <u>0</u> points	200 points
Part 5 <u>0</u> points	50 points
Part 6 <u>0</u> points	50 points
Part 7 <u>0</u> points	121 points
Part 8 <u>0</u> points	121 points
Total <u>34</u> 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\*

**\*Other actions may be required by NPDES outside the scope of this report.**

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

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.)  Yes  No

If yes, provide a written explanation for this situation in the space below.

N/A

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9. List the sewage sludge treatment processes used in preparing sludge for final use or disposal:

Liquid sludge is pumped to sand beds for drying prior to disposal at the Shelby County Highway 70 Landfill

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Sludge Quantity  
(untreated pounds per day)  
3700# actual weight

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10. Estimate the total volume of sludge generated:

675T actual weight  
(dry U.S. tons per year)

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Sludge Disposal Methods

1. Which of the following describes the current method of sewage sludge disposal for this facility?

	Current Practices		Quantity (dry U.S. tons/year)	Proposed Practices	
	Approved by ADEM			Approved by ADEM	
	Yes	No		Yes	No
a. <input type="checkbox"/> Land Application, Bulk Shipped	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Agriculture	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Forest	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Public Contact	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lawn/Home Garden	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
b. <input type="checkbox"/> Land Application, Bagged/Other Container	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Agriculture	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Forest	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Public Contact	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lawn/Home Garden	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
c. <input type="checkbox"/> Incineration	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
d. <input checked="" type="checkbox"/> Subtitle D Landfill (Disposal Only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>675T actual weight</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. <input type="checkbox"/> Lined Treatment Lagoon or Stabilization Pond	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
f. <input type="checkbox"/> Unlined Lagoon or Stabilization Pond	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
g. <input type="checkbox"/> Other (Please Describe)	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
			_____		
			_____		
			_____		

2. If "f" was selected above and sludge is stored for two (2) or more years, enter the distance between the surface disposal site and the property line: \_\_\_\_\_ N/A \_\_\_\_\_ feet

\* NOT REQUIRED BY RECEIVING LANDFILL  
 NOR BY STATE PERMIT

**Pollutant Concentrations:**

1. Enter the total concentrations of the following analytes using existing data. **Do not enter TCLP results.**

Analyte	Concentration (mg/kg or ppm)	Sample Type	Sample Date	Detection Level Of Analysis
Arsenic	*			
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				
Ammonium-Nitrogen				
Nitrate-Nitrogen				
Total Kjeldahl Nitrogen				

2. Enter the estimated or determined percent solids of the sewage sludge when sampled for the above analysis: \_\_\_\_\_\*\_\_\_\_\_%

**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 – Process to Further Reduce Pathogens (PFRP)

Heat Drying     Thermophilic Aerobic Digestion     Heat Treatment

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:

1. If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at this site?  Yes\*  No

\*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  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
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?  
N/A  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

FACILITY NAME: City of Hoover - Inverness WWTP

PLANT GRADE: 3

PERMIT NUMBER: AL0025852

PLANT SUPERINTENDENT: Michael McCary

TEL. # 205-988-9669

SYSTEM MANAGER: Phil McGraw, P.E.

TEL. # 205-444-7637

PLANT OPERATORS:

	NAME	GRADE OR TRAINEE STATUS	OPERATOR NO.	EXP. DATE
1.	Michael McCary	4	C003220	3/31/2020
2.	Doyle Grimes	4	C001090	9/30/2020
3.	Barry Woodard	4	C002793	11/30/2021
4.				
5.				
6.				
7.				
8.				
9.				
10.				

COLLECTION SYSTEM OPERATORS:

1.	James Jones	1-C	C008326	9/30/2022
2.	David Combs	1-C	C009090	12/31/2021
3.	Nick Hammock	1-C	C008332	11/30/2022
4.	Keith Acreman	Trainee		

	MAN HRS./WK	NUMBER
MANAGEMENT/SUPERVISOR	20	2
OPERATOR(S):		
GRADE I-C	20	3
GRADE I		
GRADE II		
GRADE III		
GRADE IV	40	2
DESIGNATED TRAINEE(S)	20	1
LABORATORY	20	1
MAINTENANCE	20	2
OTHER PLANT WORKERS		

AVERAGE NUMBER OF EMPLOYEES PER SHIFT:

1ST	7	START TIME	7:00
2ND	on-call		
3RD	on-call		

OPERATOR SHIFTS NORMALLY WORKED EACH DAY:

	SUN	MON	TUES	WED	THURS	FRI	SAT
1ST	X	X	X	X	X	X	X
2ND							
3RD							

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

# MUNICIPAL WATER POLLUTION PREVENTION (MWPP)

## ANNUAL REPORT

SUBMITTED BY:

**TREATMENT FACILITY:** Riverchase WWTP NPDES #: AL0041653

**MUNICIPALITY:** City of Hoover **COUNTY:** Jefferson

**CONTACT PERSON:** Phil McGraw  
Responsible Official  
Civil Engineer  
Title

Telephone #: 205-444-7637 Fax #: 205-444-7745

Email Address: phil.mcgraw@hooveralabama.gov

**CHIEF OPERATOR:** Michael McCary  
Name

Telephone #: 205-988-9669 Fax #: 205-988-9656

Email Address: michael.mccary@clearwatersol.com

Date: March 18, 2020

**REVIEWED BY:** N/A  
Consulting Engineer

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 2019 (due **May 31, 2020**).

- 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 digester 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

***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 31<sup>st</sup> to Municipal Section, Water Division, ADEM, P.O. Box 301463, Montgomery, AL 36130-1463.**

Facility Name: Riverchase WWTP

**Part 1: Influent Loading/Flows**

A. List the average monthly volumetric flows and BOD<sub>5</sub> (CBOD<sub>5</sub>) loadings received at your facility during the last calendar year.

<u>Month</u>	<u>Column 1 Average Monthly Flowrate (MGD)</u>	<u>Column 2 Average Monthly BOD<sub>5</sub> (CBOD<sub>5</sub>) Concentration (mg/l)</u>	<u>Column 3 Average Loading BOD<sub>5</sub> (CBOD<sub>5</sub>) (lbs/day)**</u>
January	1.229	122.3	1343
February	1.879	92.5	1352
March	1.461	83.9	966
April	1.517	101.8	1120
May	1.099	108.0	889
June	1.029	105.0	831
July	0.942	139.0	1075
August	0.989	134.0	1079
September	0.875	138.0	979
October	0.992	133.0	1099
November	1.065	140.0	1249
December	1.423	176.0	1959
<b>Annual Avg.</b>	1.208	122.8	1162

\*\* 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 BOD<sub>5</sub> (CBOD<sub>5</sub>) loading for the facility below. If you are not aware of these design quantities, contact your consulting engineer.

	<u>Average Design Flow MGD</u>	<u>Average Design BOD<sub>5</sub> (CBOD<sub>5</sub>) Loading (lbs/day)</u>
Design Criteria	3.000	5200
90% of the Design Criteria	2.700	4680

- 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)  
 0 = 0 points     1 – 2 = 5 points     3 – 4 =10 points     5 or more =15 points
- E. How many times did the monthly BOD<sub>5</sub> (CBOD<sub>5</sub>)\* loading (lbs/day) (Column 3) to the WWTP exceed 90% of the design loading?  
 \_\_\_\_\_(Check the appropriate point total)  
 0 -1 = 0 points     2 – 4 =5 points     5 or more =10 points
- F. How many times did the monthly BOD<sub>5</sub> (CBOD<sub>5</sub>)\* loading (lbs/day) (Column 3) to the WWTP exceed the design loading?  
 \_\_\_\_\_ (Check the appropriate point total)  
 0 = 0 points     1 = 10 points     2 =20 points     3 =30 points     4 =40 points     5 or more =50 points
- 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

TOTAL POINTS VALUE FOR PART 1                   0                    
 Enter this value on Part 11: Summary Sheet.

\*To obtain equivalent BOD<sub>5</sub> loading for comparison with design loading for those permittees using influent CBOD<sub>5</sub>, divide annual average CBOD<sub>5</sub>, loading in lbs/day from Part 1, A by 0.7.

Facility Name: Riverchase WWTP

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 BOD<sub>5</sub>, (CBOD<sub>5</sub>) TSS, NH<sub>3</sub>-N and/or TKN concentration produced by the facility during the last calendar year.

(1) NPDES Permit Concentration

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
		May-Nov	4.0	30.0	1.0
	Dec-April	10.0	30.0	2.0	4.0

(2) DMR Concentration

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (mg/l)	TSS (mg/l)	NH <sub>3</sub> -N (mg/l)	TKN (mg/l)
1	January	1.1	2.5	1.1	1.52
	February	1.2	5.6	0.5	1.94
	March	1.6	3.7	0.9	1.60
2	April	1.04	3.3	0.3	0.97
	May	1.6	2.0	0.1	0.60
	June	0.9	2.1	0.022	0.70
3	July	2.8	4.5	0.6	1.0
	August	0.8	1.66	0.1	0.5
	September	1.3	2.68	0.1	0.6
4	October	0.8	0.89	0.1	0.5
	November	1.2	2.06	0.03	0.2
	December	1.8	2.2	0.4	0.66
<b>Annual Avg.</b>		1.3	2.8	0.4	0.9

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

(1) NPDES Permit Loading

Permit Limit	Months	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
	May-Nov	100	750	25.0	50.0
Dec-April	250	750	50.0	100.0	

(2) DMR Loading

Qtr	Month	BOD <sub>5</sub> (CBOD <sub>5</sub> ) (lbs/day)	TSS (lbs/day)	NH <sub>3</sub> -N (lbs/day)	TKN (lbs/day)
1	January	11.1	27.8	8.5	12.59
	February	20.1	104.0	5.9	24.6
	March	16.7	55.2	7.7	13.5
2	April	11.5	37.2	3.0	9.35
	May	14.0	19.3	1.2	5.6
	June	7.1	16.6	0.2	5.8
3	July	21.8	35.4	4.3	7.7
	August	6.4	14.14	1.1	3.6
	September	9.4	19.39	0.5	4.4
4	October	6.8	7.22	0.4	3.5
	November	10.2	17.89	0.3	2.0
	December	19.1	25.1	3.7	7.23
<b>Annual Avg.</b>		12.8	31.6	3.1	8.3

C. During the past year did the BOD<sub>5</sub> (CBOD<sub>5</sub>) 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



Facility Name: Riverchase WWTP

Part 3: Age of the Wastewater Treatment Facility

A. What year was the wastewater treatment plant constructed or last reconstructed? 2008

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

$$\text{Age} = (\text{Last Calendar year}) - (\text{Answer to A})$$

$$\text{Age } \underline{11} = (\underline{2019}) - (\underline{2008})$$

Enter Age in Part C below.

B. Check the type of treatment facility employed.

	Factor
<u>X</u> 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:

$$\frac{2.0}{\text{(Factor)}} \times \frac{11}{\text{(Age)}} = \underline{22} \quad \text{TOTAL POINT VALUE FOR PART 3}$$

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: Riverchase 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? 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? N/A (0)

D. Add together Answers A and B and subtract Answer C from that total.  
A + B - C = \_\_\_\_\_ (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  
 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.) 0

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  
 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

I. 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: Riverchase WWTP

Part 5: Sludge Quantity and Storage

- 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. 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?) > 4 months

(Check the appropriate point total.)

- Greater than or equal to 4 months  = 0 points
- Less than 4 months, but greater than or 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

TOTAL POINT VALUE FOR PART 5 0

Enter this value on Part 11: Summary Sheet.

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Part 6: Sludge Disposal Practices and Sites

- A. Please provide the sludge disposal practices and site information based on available data as requested on the *MWPP Sewage Sludge Survey*, 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 months  = 10 points
- 12 - 23 months  = 20 points
- 6 - 11 months  = 30 points
- Less than 6 months  = 50 points

TOTAL POINT VALUE FOR PART 6 0

Enter this value on Part 11: Summary Sheet.

Facility Name: Riverchase 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<sub>5</sub> (CBOD<sub>5</sub>) loadings to the sewage system could significantly increase? Estimate additional loadings below.

Design Population:       No       Design Flow:                      MGD Design BOD<sub>5</sub> (CBOD<sub>5</sub>):                      lbs/day  
Equivalent (PE)

List industrial and/or residential developments.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Will the additional loading overload the plant?  
(Check the appropriate point total.)

No = 0 points                       Yes = 121 points

Enter the point total in the blank below.

TOTAL POINT VALUE FOR PART 7       0       (highest point total = 121)  
Enter this value on Part 11: Summary Sheet.

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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.)

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.

Facility Name: Riverchase WWTP

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? ***Include user charge rates.***

No. Shortfalls in funding for O and M expenses are made up through the City's sewer fund  
balance.

Residential Minimum	<u>N/A</u>	Plus rate	<u>\$6.12</u>	/1,000 gal.
Industrial Minimum	<u>N/A</u>	Plus rate	<u>N/A</u>	/1,000 gal.
Monthly residential rate based on 6,000 gallons usage \$			<u>36.72</u>	

B. What financial resources are available to pay for the wastewater improvements and/or reconstruction needs?

Impact and user fees.

C. Please attach a rate sheet and the most recent audit, if available.

Not available.

Part 10: Subjective Evaluation

A. Describe briefly the physical and structural conditions of the wastewater treatment facility.

The Riverchase WWTP was upgraded from July 2007 through February 2009 and is in  
excellent condition. The facility continues to be well maintained.

B. Describe the general condition of the sewer system (sewer lines, manholes, lift stations).

The collection system is in good condition.

C. What sewage system improvements does the community have planned for construction in the next 5 years?

Discussions are still ongoing while researching the best approach to reduce effluent phosphorous.

D. What is the theoretical design life of the plant, and what is the estimated remaining useful life of the wastewater treatment facility?

The Riverchase WWTP was upgraded to new condition within the last eleven years and, with continued proper maintenance, should remain operational indefinitely.

E. What problems, if any, over the last year have threatened treatment or conveyance within the system?

None

F. Is the community presently involved in formal planning for treatment facility upgrading?

Consideration is being given as to how best to reduce effluent phosphorous concentrations.

G. How many days in the last year were there residential backups at any point in the collection system for any reason other than clogging of the lateral connection? None

H. Does the plant have a written plan for preventive maintenance on major equipment items? If yes, describe.

Yes; Preventative maintenance is based upon requirements/recommendations outlined in the O and M manuals and managed through computer software.

- 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.

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Replaced the pumps at the Riverchase #7 pump station (\$16,090)

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- L. List any additional comments. (Attach additional sheets if necessary.)

None

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Facility Name: Riverchase 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.

<u>Actual Values</u>	<u>Maximum Possible</u>
Part 1 <u>0</u> points	80 points
Part 2 <u>0</u> points	121 points
Part 3 <u>22</u> points	40 points
Part 4 <u>0</u> points	200 points
Part 5 <u>0</u> points	50 points
Part 6 <u>0</u> points	50 points
Part 7 <u>0</u> points	121 points
Part 8 <u>0</u> points	121 points
Total <u>20</u> 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\*

**\*Other actions may be required by NPDES outside the scope of this report.**

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

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.)  Yes  No

If yes, provide a written explanation for this situation in the space below.

N/A

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## E2 Receipt

Here is your report submission receipt. [Click here to print.](#)

**Submission ID: 232182**  
**Submission Date: 2/14/2019 11:53:51 AM**  
**Submission IP Address: 24.179.4.131**

**Submitted by: Phillip McGraw**  
Hoover City Of Riverchase Wwtp  
100 Municipal Lan  
Hoover, AL 35216  
205-444-7637  
[phil.mcgraw@hooveralabama.gov](mailto:phil.mcgraw@hooveralabama.gov)

### Report Detail

**SSO Event Report**  
**Facility Name** Hoover City Of Riverchase Wwtp  
**Permit Number** AL0041653  
**Date/Time SSO Began** 2/11/2019 4:30:00 PM  
**Date/Time SSO Stopped** 2/13/2019 2:00:00 PM

### Attachment Detail

#### Online Attachments

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Thank you for using E2 system!

Report User:  
PMcG0001

SSO ID:  
11920

Print Date:  
2/14/2019

\* require for  
submission

require for  
completion

Report Form

Facility Name:

Hoover City Of Riverchase Wwtp

Permit Number:

AL0041653

\* Date/Time SSO Began:

2/11/2019 4:30:00 PM

\* Is SSO currently ongoing?

Yes  No

Date/Time SSO Stopped:

2/13/2019 2:00:00 PM

Did the SSO occur during wet weather?

Yes  No

Was the SSO caused by an extreme weather event (e.g. hurricane)?

Yes  No

Report Estimated Volume as

Value  Range

Estimated Volume

between 250000.00 and 499999.99 gal

Was the Department notified within 24 hours?  
(If report online, verbal notification is not required)

Yes  No

Date/Time of

2/12/2019 11:00:00 AM

Notification:

Method of

Verbal/Telephone  Electronic via eSSO  Other

notification:

Source of Discharge Event:

(check all that apply)

manhole  lift station  broken line

cleanout  treatment plant  other

\* Location of Discharge(address,etc)  
(not required if " Lat/Long of Discharge " is reported)

Between the Jefferson County Cahaba River WWTP at 3900 Veona Daniels Drive and the Cahaba River.

\* Lat/Long of Discharge  
(not required if " Location of Discharge " is reported)

Latitude: 33.369555

Longitude: -86.789836

Known or Suspected Cause of Discharge

The bank of the river eroded during a heavy rain which uprooted a tree and broke line.

Ultimate Destination of Discharge  
(check all that apply)

ground absorbed

creek or river (Provide name) Cahaba River (136)

Un-named Tributary

storm drain

- drainage ditch
- backup into building/residence
- other (describe)

Did the Discharge reach swimming water?

- Yes  No  Unknown

Monitoring of the Receiving Water (i.e. visual survey or water quality sampling) Is

- complete  ongoing  not necessary

Was the affected area

Cleaned?  Yes  No Disinfected?  Yes  No

Are you aware of any other potential health or environmental impacts

No  Yes If Yes, please describe:

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

Pipeline was relocated away from the river bank to avoid any problems associated with future erosion issues.

Indicate Efforts to Notify Public (check all that apply)

press release

\*

placement of signs

other

\* Date Public Was Notified: **2/13/2019**

notice not required because:

Indicate Other Officials Notified (check all that apply)

County Health Department

\* Date Other Officials Were Notified: **2/12/2019**

State Health Department

other

\* Date Other Officials Were Notified: **2/13/2019**

notice not required because:

Other States:

Were any public water supply intake

- Yes  No

locations  
affected?

Facility SSO Report ID

N/A

**General Comment**

General  
Report  
Comment  
and  
Explanation

Although any spill is undesirable, the repairs were made with great urgency and during less than optimal weather conditions.





Daniel White, P.E.  
Deputy Director Environmental Services Department  
Jefferson County Commission  
716 Richard Arrington Jr. Blvd. N., Suite A300  
Birmingham, AL 35203  
Direct 205.214.8610

33.369555  
-86.789836



9. List the sewage sludge treatment processes used in preparing sludge for final use or disposal:

Liquid sludge is pumped to sand beds for drying prior to disposal at the Shelby County Highway 70 Landfill

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Sludge Quantity  
(untreated pounds per day)  
4390# actual weight

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799T actual weight  
(dry U.S. tons per year)

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10. Estimate the total volume of sludge generated:

Sludge Disposal Methods

1. Which of the following describes the current method of sewage sludge disposal for this facility?

	Current Practices		Quantity (dry U.S. tons/year)	Proposed Practices	
	Approved by ADEM			Approved by ADEM	
	Yes	No		Yes	No
a. <input type="checkbox"/> Land Application, Bulk Shipped	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Agriculture	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Forest	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Public Contact	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lawn/Home Garden	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
b. <input type="checkbox"/> Land Application, Bagged/Other Container	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Agriculture	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Forest	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Public Contact	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lawn/Home Garden	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
c. <input type="checkbox"/> Incineration	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
d. <input checked="" type="checkbox"/> Subtitle D Landfill (Disposal Only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>799T actual weight</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. <input type="checkbox"/> Lined Treatment Lagoon or Stabilization Pond	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
f. <input type="checkbox"/> Unlined Lagoon or Stabilization Pond	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
g. <input type="checkbox"/> Other (Please Describe)	<input type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
			_____		
			_____		
			_____		

2. If "f" was selected above and sludge is stored for two (2) or more years, enter the distance between the surface disposal site and the property line: \_\_\_\_\_ N/A \_\_\_\_\_ feet

Pollutant Concentrations:

1. Enter the total concentrations of the following analytes using existing data. **Do not enter TCLP results.**

Analyte	Concentration (mg/kg or ppm)	Sample Type	Sample Date	Detection Level Of Analysis
Arsenic	*			
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				
Ammonium-Nitrogen				
Nitrate-Nitrogen				
Total Kjeldahl Nitrogen				

2. Enter the estimated or determined percent solids of the sewage sludge when sampled for the above analysis: \_\_\_\_\_\* \_\_\_\_\_%

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 – Process to Further Reduce Pathogens (PFRP)

Heat Drying     Thermophilic Aerobic Digestion     Heat Treatment

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:

1. If disposal practice is surface disposal or land application, is groundwater monitoring required or performed at this site?  Yes\*  No

\*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

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2. If sewage sludge is land applied in bulk form, what is the nitrogen requirement for this crop or vegetation?

N/A

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3. If sewage sludge is land applied in bulk form, briefly describe the nature of any complaints filed from neighbors?

N/A

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## PLANT AND COLLECTION SYSTEM PERSONNEL INVENTORY

FACILITY NAME: City of Hoover - Riverchase WWTP

PLANT GRADE: 3

PERMIT NUMBER: AL0041653

PLANT SUPERINTENDENT: Michael McCary

TEL. # 205-988-9669

SYSTEM MANAGER: Phil McGraw, P.E.

TEL. # 205-444-7637

PLANT OPERATORS:

	NAME	GRADE OR TRAINEE STATUS	OPERATOR NO.	EXP. DATE
1.	Michael McCary	4	C003220	3/31/2020
2.	Brian Miller	4	C000285	11/30/2019
3.	William Cox	4	C008120	11/31/2022
4.				
5.				
6.				
7.				
8.				
9.				
10.				

COLLECTION SYSTEM OPERATORS:

1.	James Jones	1-C	C008326	9/30/2022
2.	David Combs	1-C	C009090	12/31/2021
3.	Nick Hammock	1-C	C008332	11/30/2022
4.	Keith Acreman	Trainee		

	MAN HRS./WK	NUMBER
MANAGEMENT/SUPERVISOR	20	2
OPERATOR(S):		
GRADE I-C	20	3
GRADE I		
GRADE II		
GRADE III		
GRADE IV	40	2
DESIGNATED TRAINEE(S)	20	1
LABORATORY	20	1
MAINTENANCE	20	2
OTHER PLANT WORKERS		

AVERAGE NUMBER OF EMPLOYEES PER SHIFT:

1ST	7	START TIME	7:00
2ND	on-call		
3RD	on-call		

OPERATOR SHIFTS NORMALLY WORKED EACH DAY:

	SUN	MON	TUES	WED	THURS	FRI	SAT
1ST	X	X	X	X	X	X	X
2ND							
3RD							

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