

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION



Facility Name:

City of Hammond/South Slough
Wetland Wastewater
Assimilation Project

LPDES Permit Number:

LA0032328

Agency Interest (AI) Number:

19578

Address:

1801 Natchez St.

Hammond, LA 70401

Parish:

Tangipahoa

(Person Completing Form) Name:

H. Nathan Levy III

Title:

Contract Lab manager

Date Completed:

4/1/2024

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.
2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.
3. Add up the point totals.
4. Submit the Environmental Audit to the governing body or owner for review and approval.
5. The governing body must pass a resolution which contains the following items:
 - a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.
 - b. This resolution must indicate specific actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.
 - c. The resolution should provide any other information the governing body deems appropriate.

PART 1: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

	Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)		Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
1	10.93	x	61	x 8.34 =	5561
2	10.31	x	47.5	x 8.34 =	4084
3	3.15	x	71.3	x 8.34 =	1873
4	4.25	x	225	x 8.34 =	7975
5	4.02	x	134	x 8.34 =	4493
6	4.30	x	270	x 8.34 =	9683
7	4.24	x	202	x 8.34 =	7143
8	3.26	x	94.7	x 8.34 =	2575
9	4.94	x	180	x 8.34 =	7416
10	4.94	x	123	x 8.34 =	5068
11	2.78	x	101	x 8.34 =	2342
12	9.03	x	88.9	x 8.34 =	6695

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:	7.33	x 0.90 =	6.597
Design BOD, lb/day:	9608	x 0.90 =	8647.2

C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box 0 C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box 10 D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the E point total box 0 E Point Total

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box 10 F Point Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: 20 (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
January 2023	13	15.9
February 2023	20.5	17.6
March 2023	26.4	31.6
April 2023	28.6	17.4
May 2023	24	19.4
June 2023	19.6	22.6
July 2023	21.7	19.4
August 2023	23.5	21.1
September 2023	30.4	32.9
October 2023	23.5	21.1
November 2023	20.4	21
December 2023	25.1	17.9

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
January 1 to August 15	BOD, mg/l 30	x 0.90 =	27.0
	TSS, mg/l 90	x 0.90 =	81.0

	Permit Limit		90% of Permit Limit
August 15 to December 31	BOD, mg/l 30	x 0.90 =	27.0
	TSS, mg/l 30	x 0.90 =	27.0

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C. Continuous Discharge to Surface Water.

- i.** How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box 10 i Point Total

- ii.** How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box 5 ii Point Total

- iii.** How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box 0 iii Point Total

- iv.** How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box 5 iv Point Total

- v.** Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: 20 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

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D. Other Monitoring and Limitations

- i.** At any time in the past year was there an exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box.

Yes

No

If Yes, Please describe:

From January 1 until August 15, the Total Residual Chlorine limit was 0.1 mg/L. When the new permit was issued effective August 15, the limit was lowered to 0.033mg/L. After the effective date, August & September had violations. The monitoring for October had five violations, November had only two violations, and December had zero. During the months of June, July, and August, a copper solution of approximately 5% was introduced to the headworks to treat for a algae bloom. The treatment was successful however, the copper in the effluent increased significantly to 2.7 and 6.0 lb/day in August and September respectively.

- ii.** At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box.

Yes

No

If Yes, Please describe:

- iii.** At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box.

Yes

No

If Yes, Please describe:

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PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

$$\begin{array}{rcccl}
 & & & & 2023 \\
 & & & & \hline
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 \hline
 2023 & & 2023 & & 0 \\
 \hline
 \end{array}$$

Enter Age in Part C below.

B. Check the type of treatment facility that is employed.

FACTOR:

<input type="checkbox"/>	Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: _____	2.5
<input checked="" type="checkbox"/>	Aerated Lagoon	2.0
<input type="checkbox"/>	Stabilization Pond	1.5
<input type="checkbox"/>	Other Specify Type: _____	1.0

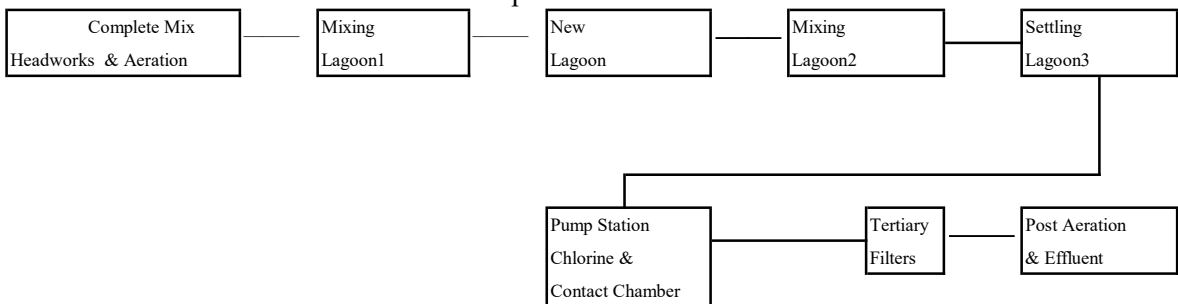
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2}{\text{Factor}} \times \frac{0}{\text{Age}} = \boxed{0} \text{ (max = 50)}$$

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.



PART 4: OVERFLOWS AND BYPASSES**A.**

- i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

2 √ Check one box. 0 = 0 points 3 = 15 points
 1 = 5 points 4 = 30 points
 2 = 10 points 5 or more = 50 points

- ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were withing the collection system and the number at the treatment plant

Collection System: 2 Treatment Plant: 0

B.

- i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

0 √ Check one box. 0 = 0 points 3 = 15 points
 1 = 5 points 4 = 30 points
 2 = 10 points 5 or more = 50 points

- ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were withing the collection system and the number at the treatment plant

Collection System: 0 Treatment Plant: 0

- C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc...

Sewer System _____

- D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 10 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

- E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Guy Palermo Water & Sewer Superintendent

Describe the procedure for gathering, compiling and reporting: City Hall receives a call to identify an overflow. Information is verified by Hammond Staff. A Overflow report is created by Guy Palermo or Lacy Landrum. Report is then submitted to LA DEQ. These reports are attached in net DMR for approval of Administration then posting to net DMR for review by LDEQ.

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PART 5: SLUDGE STORAGE AND DISPOSAL SITES

A. Sludge Storage

How many months of sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<2	2	3	4-5	>6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 40 in the A point total box A Point Total

B. For how many months does your facility have access to (and approval for) sufficient land disposal sites to provide proper land disposal?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<2	6-11	12-23	24-35	>36
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 40 in the B point total box B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

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PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 29,200

Design Flow: 7.33 MGD

Design BOD: 300 mg/L

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants:

None

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

None

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

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PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Vernon Banks

B. What is his or her certification number:

Cert.#: 16-335

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Class 4

D. What is the level of certification of the operator-in-charge?

Level Certified: Class 4

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. Yes = 0 points No = 50 points

Write 0 or 50 in the E point total box E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. Yes No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. > 12 hours = 0 points < 12 hours = 50 points

Write 0 or 50 in the G point total box G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. Yes No

Explain: All operators must become certified to level required within reasonable time frame. City pays for all operator training and educational hours

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100 % By the operator? 0 %

J. Add together the E and G point vaules and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. Yes No *If No, How are O&M costs financed?*

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

In addition to sewer connection, impact and treatment fees, the city has sales tax funds, federal American Rescue Plan Act funds, Water Sector Program grant funds, and Pontchartrain Restoration Program grant funds established for water and sewer revenues and expenses. A user fee collected montly along with water/sewer monthly collections are revenue sources. The Sales Tax Fund is available for construction projects, but discouraged to ensure that the water and sewer revenues adequately fund water and sewer projects and routine operations and maintenance.

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

- i. Describe what sewer system maintenance work has been done in the last year.

Ongoing, routine Sewer System Evaluation Survey (SSES) and cleaning/TV lines to find intrusions. Lining of existing pipes in several subdivisions, downtown, and SLU area. Ongoing \$675k rehabilitation of collection system (I/I work) in older area of city. New Head Works upgraded with new force mains

- ii. Describe what lift station work has been done in the last year.

Continuous repairs and maintenance of infrastructure is done as needed.
Upgraded Lift Stations #35 Blackburn & #24 Mooney.
Installed new Lift Station, #57 Mississippi Street

- iii. What collection system improvements does the community have under construction for the next 5 years?

Continue Inflow and infiltration on the collection system is ongoing. Upgrading Lift Station #51 Haeidd, #39 Stein Rd, #22 Woodbridge, #45 Elmwood Loop, #42 Woodscale, and #42 Airport

B. If you have ponds please answer the following questions:

√ Check one box.

- | | | |
|---|---|--|
| i. Do you have duckweed buildup in the ponds? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| ii. Do you mow the dikes regularly (at least monthly), to the waters edge? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| iii. Do you have bushes or trees growing on the dikes or in the ponds? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| v. Do you excersise all of your valves? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| vi. Are your control manholes in good structural shape? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| vii. Do you maintain at least 3 feet of freeboard in all of your ponds? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| viii. Do you visit your pond system at least weekly? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

Yes No (✓ Check one box.)

NA

Influent flow meter calibration date(s)

September, 2023

Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

Insufficient Aeration, short-circuiting of influent to effluent discharged due to high flow
Algae growth due to high heat & drought required excess chlorination

iii. Is your community presently involved in formal planning for treatment facility upgrade?

✓ Check one box. Yes No *If Yes, Please describe:*

No current community election in 2023

D. Preventive Maintenance

i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box. Yes No *If Yes, Please describe:*

Standard Operational Procedures

ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

 Yes No

iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

 Yes No

E. Sewer Use Ordinance

i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box. Yes No *If Yes, Please describe:*

Ordinance is posted for public viewing available on the City of Hammond Website. Copy is attached.

ii. Has it been necessary to enforce?

√ Check one box. Yes No *If Yes, Please describe:*

Prairie Foods (formerly) Dairy Processing Plant, and North Oak Hospital

iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

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POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: <i>Influent Flow/Loadings</i>	<u>20</u>	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	<u>20</u>	100 points
Part 3: <i>Age of WWTF</i>	<u>0</u>	50 points
Part 4: <i>Overflows and Bypasses</i>	<u>10</u>	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	<u>0</u>	100 points
Part 6: <i>New Development</i>	<u>0</u>	30 points
Part 7: <i>Operator Certification Training</i>	<u>0</u>	100 points

TOTAL POINTS:

50

ATTACHMENT 3

City of Hammond MWPP RESOLUTION

Resolved that the City of Hammond, LA informs the Louisiana Department of Environmental Quality that the following actions were taken by the City Council of the The City of Hammond.

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.
2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA0032328.

(Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

- a. Ongoing Lift Station Upgrades
- b. Lift Station Additions as needed
- c. Continuing INI & SSESS
- d. Installing Baffles in Cell #3

Passed by a majority/unanimous (circle one) vote of the _____
on _____ (date).

CLERK