LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



Facility Name:

St. Charles Parish Council Hahnville Wastewater Treatment Plant

LPDES Permit Number:

LA 0073521

Agency Interest (AI) Number:

AI 43357

Address:

Post Office Box 302

Hahnville, Louisiana 70057

Parish:

St. Charles

(Person Completing Form) Name:

Angela Troxler

Title:

Laboratory Coordinator

Date Completed:

December 3, 2018

EART ENNEEDENTEREOW POADINGS TOUGHERS

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)
1.094	x	135	x 8.34 =	1,232
1.561	x	143	x 8.34 =	1,862
1.971	x	119	x 8.34 =	1,956
2.086	x	90	x 8.34 =	1,566
1.763	x	102	x 8.34 =	1,500
2.063	x	109	x 8.34 =	1,875
1.226	x	139	x 8.34 =	1,421
1.637	x	111	x 8.34 =	1,515
1.739	X	91	x 8.34 =	1,320
1.784	x	66	x 8.34 =	982
2.117	x	72	x 8.34 =	1,271
1.965	x	52	x 8.34 =	852

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:	2.30	x 0.90 =	2.07
Design BOD, lb/day:	2,945	x 0.90 =	2,650.5

								re	rm11 #:		AUU	73521	1	
C.	(WW	11) V	COOU 3	s did th 90% of the poi	UCSIETI	L TIOW (Unici	e the m	umher	af mai	ewater	treatm of the c	ent fac	cility oding
•	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	0	0	0	5	5	5	5	5	5	. 5	5
								5 in the				0	Ţ	int Total
D.	CHOIC	many rethe nutrate the	THOCK	did the	e mont ths and	hly flo d corre	ow (Co espond	lumn l ing poi) to the nt total	Ww.	TF exc te the p	ceed the	e desig tal in t	n flow? he box
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	5	5	10	10	15	15	15	15	15	15	15	15
					Write	0, 5, 1	0 or 1:	in the	D poir	nt total	box	0	D Poi	nt Total
E.	Or diff	resign.	. IUguij	did the 1g? Cir e box b	rere me	: num	er or a	ding (C nonths	Column and co	3) to i	the WV ending	WTF ex point to	ceed Sotal. V	90% Vrite
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	5	5	5	10	10	10	10	10	10	10	10
					W	rite 0, :	5,or 10) in the	E poin	t total	box	0	E Poir	nt Total
F.	acsign	TOAUM,	g: Ci	did the rcle the x belov	numo	erorn	nonths	ling (C and co	olumn rrespo	3) to tinding	he WV point t	VTF ex otal. V	ceed th	he ne
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	10	20	30	40	50	50	50	50	50	50	50	50
			W	rite 0,	10, 20	, 30, 4(or 50	in the	F poin	t total	box	0	F Poin	t Total
G.	Add to	gether	each p	oint to	tal for	C thro	ugh F	and pla	ce this	sum i	n the b	ox belo	ow at t	he right.

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

TOTAL POINT VALUE FOR PART 1: 0 (max = 80)

PARTE ENDURATION OF THE PARTE O

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)
November 2017	3	3
December 2017	4	3
January 2018	4	2
February 2018	5	2
March 2018	3	2
April 2018	3	2
May 2018	6	4
June 2018	4	3
July 2018	5	2
August 2018	4	3
September 2018	4	3
October 2018	2	3

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

	90% of Permit Limit		
BOD, mg/l	30.0	x 0.90 =	27.0
TSS, mg/l	30.0	x 0.90 =	27.0

~	~	· -	<u>.</u>			_		Per	rmit #:	$\lfloor L \rfloor$	A 007	73521	1	
C.	Conti	nuous I	Jischa	rge to	Surfac	e Wate	er.		1					
, i.	Circle	many me the number below	mber o	of mon	ths and	ent BC	D (Co orrespo	lumn 1 oding p) excee	d 90% tal. W	of the	e perm e point	it limit total i	s? n
	months points	0	1 0	2 10	3 20	4 30	5 40	6 40	7 40	8 40	9 40	10 40	11 40	12 40
				Wri	te 0, 1	0, 20,	30 or 4	10 in th	e i poin	t total	box	0	i Poin	t Total
ii.	How number at the	many m er of mo right.	onths onths	did the and cor	e efflue respon	ent BO ading p	D (Co.	lumn 1 otal. W) excee rite the	d pern point	oit lim total i	its? Ci	ircle th	e ow
	months	(0)	1 5	2	3	4	5	6	7	8	9	10	11	12
	points	(0)	5	2 5	10	10	10	10	10	10	10	10	10	10
iii.	the bo	many mo	aber o	f mont right.	efflue	nt TSS	S (Colu	ımn 2)	ii poin exceed oint tota	90% (of the i	nermit	l limits?	t Total
	months points	0	1 0	2 10	3 20	4	5	6	7	8	9	10	11	12
	Pouns		v	10	4 U	30	40	40	40	40	40	40	40	40
									ii point		i			ıt Total
iv.	How n numbe at the r	nany mo r of mor ight.	onths on ths a	lid the	efflue espon	nt TSS ding po	(Colu	mn 2) (tal. Wi	exceed rite the	permi point (t limits total in	s? Circ	ele the ex belo	w
	months	Q	1	. 2	3	4	5	6	7	8	9	10	11	12
	points	(0)	5	2 5	3 10	4 10	10	10	10	10	10	10	10	10
					Wri	te 0, 5,	or 10	in the i	v point	total (oox [0	iv Poin	t Total
v.	Add to	gether e	ach p	oint tot	al for	i throu	gh iv a	ınd plac	ce this s	sum in	the bo	ox belo	w at th	e right.

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

TOTAL POINT VALUE FOR PART 2: 0 (max = 100)

	Permit #:	LA0073521
D.	Other Monitoring and Limitations	
i.	At any time in the past year was there and exceedance of a pollutants such as: ammonia-nitrogen, phosphorus, pH, tota coliform?	permit limit for other Il residual chlorine, or fecal
	√ Check one box. X Yes No	If Yes, Please describe:
	There was a fecal coliform violation in June du of sampling equipment.	ie to improper cleaning
ii.	At any time in the past year was there a "failure" of a Biome Toxicity) test of the effluent?	onitoring (Whole Effluent
	√ Check one box. Yes X No	If Yes, Please describe:
iii.	At any time in the past year was there an exceedance of a pesubstance?	ermit limit for a toxic
	√ Check one box. Yes X No	f Yes, Please describe:

BARLS: ACEORICE WASHIMATER BATMENT FACILITY

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

 $\begin{array}{rcl}
 & 2000 \\
\hline
 & Current Year & - Answer to A & = Age in years \\
\hline
 & 2018 & 2000 & 18
\end{array}$

Enter Age in Part C below.

B. $\sqrt{\text{Check}}$ the type of treatment facility that is employed.

			FACTOR:
<u>X</u>	Mechanical Treatment Placetrickling filter, activated		2.5
	sludge, etc) Specify Type:	Activated Sludge	
	Aerated Lagoon		2.0
	Stabilization Pond		1.5
	Other Specify Type:		1.0

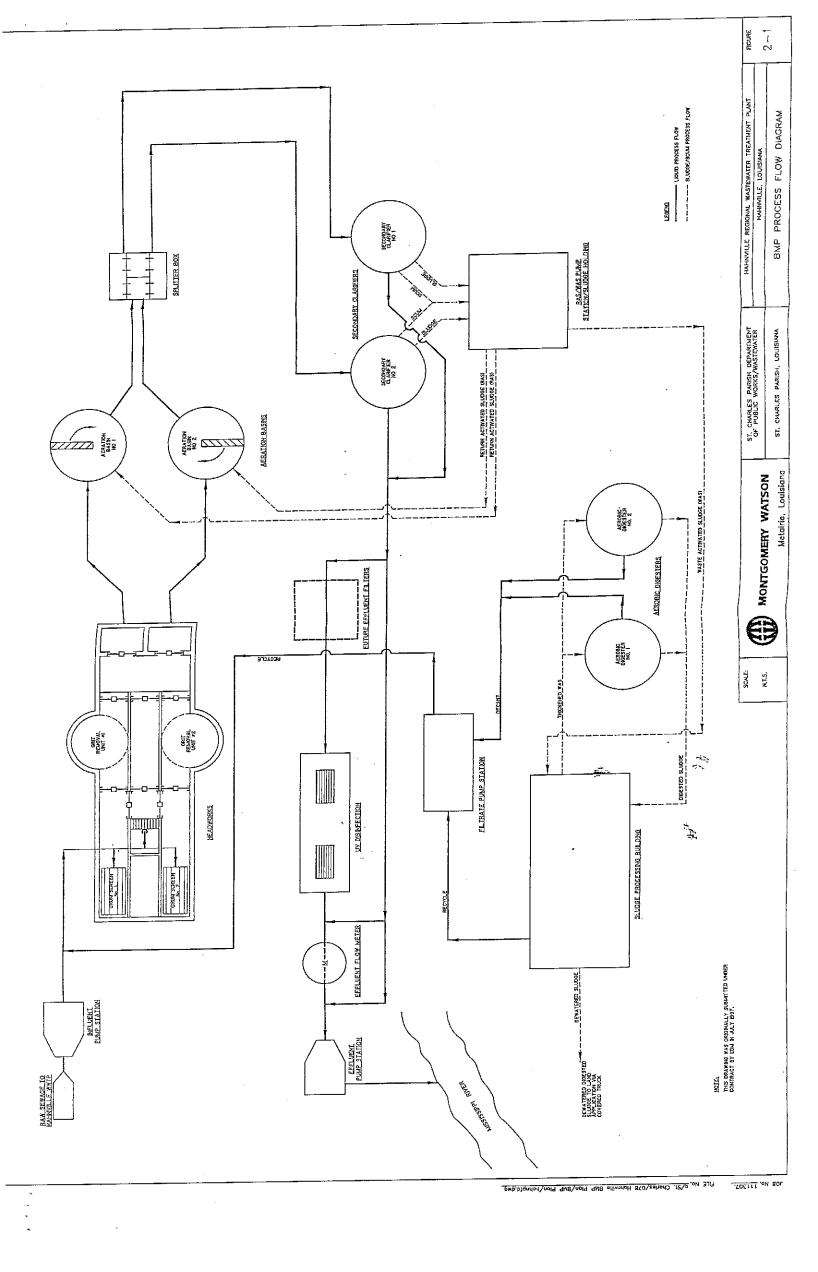
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{Factor} \times \frac{18}{Age} = 45 \text{ (max = 50)}$$

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.



Permit #:	LA0073521
	<u></u>

ĒΑ	RUZE OVERFEONS AND BYPASSESS AS A PART OF THE PROPERTY					
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:					
	3					
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 treatement plant					
	Collection System: 1 Treatment Plant: 2					
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:					
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 treatement plant					
	Collection System: 14 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					
	City 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: 65 (max = 100)					
	Also enter this value or 100, whichever is less, on the point calculation table on page 16.					
Е.	List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities: L. J. Brady, Assistant Director of Wastewater					
	Describe the procedure for gathering, compiling and reporting: Overflows, bypasses and unpermitted discharges are submitted by the operator and reported to the appropriate agencies (SPOC, DEQ and EPA).					

PARTS SEEDGESTORAGEAND DISTERAGESE

A. Sludge Storgage

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.

months <2 2 3 4-5 6 points 50 30 20 10

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

months <2 6-11 12-23 24-35 26 points 50 30 20 10

Write 0, 10, 20, 30 or 40 in the B point total box 0 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: 0 (max = 100)

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

$P_{\rho r}$	mit	ж.

LA 0073521

A.	Please provide the foll were installed during t	owing information fo he last year.	r the tot	al of all sewer line extensions which	
	Design Population:	17,000			
	Design Flow:	2.3	— MGD	•	
	Design BOD:	30-45	mg/l		
В.	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 p	oints	\overline{X} No = 0 points	
	If Yes, Please describe	·			
			<u> </u>		
C.	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?				
	\lor Check one box.	Yes = 15 pc	oints	X No = 0 points	
	If Yes, Please describe:				
			· · · · · · · · · · · · · · · · · · ·		
					
	List any new pollutants None	you anticipate:			
D.	Add together the point	value checked in B an	ıd C and	place the sum in the box below.	
		TOTAL POINT	VALUE	E FOR PART 6: $0 (max = 30)$	

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

Permit #:	LA0073521

CONTRACTOR OF THE CATTON AND LEDGE CATTONS What was the name of the operator-in-charge for the reporting year? A. Name: Herman Cortez В. What is his or her certification number: 17-208 Cert.#: What level of certification is the operator-in-charge required to have to operate the C. wastewater treatment facility? Level Required: D. What is the level of certification of the operator-in-charge? IV Level Certified: Was the operator-in-charge of the report year certified at least at the grade level Ε. required in order to operate this plant? $\sqrt{\text{Check one box.}}$ X Yes = 0 points No = 50 points Write 0 or 50 in the E point total box E Point Total Has the operator-in-charge maintained recertification requirements during the reporting F. \vee Check one box. X Yes ☐ No G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years? √ Check one box. \times > 12 hours = 0 points < 12 hours = 50 pointsWrite 0 or 50 in the G point total box G Point Total Is there a written policy regarding continuing education an training for wastewater H. treatment plant employees? √ Check one box. X Yes ☐ No Training is outlined in the Department BMP, Plant Emergency Explain: Procedures, Plant O&M Manual, and the Safety Manual. What percentage of the continuing education expenses of the operator-in-charge were I. paid for: By the permittee? 100% By the operator? Add together the E and G point vaules and place the sum in the box below at the right. J. 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.

Permit #:	LA0073521
	<u> </u>

PAI	TEXTENNAMETATES TATUS LEGISLES DE L'ARTICLES
A.	Are User-Charge Revenues sufficient to cover operation and maitenance expenses?
	√ Check one box. X Yes No If No, How are O&M costs financed?
	At present time the User-Charge Revenues are sufficient to cover operation and maintenance expenses.
В.	What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?
	DEQ loans, grants, general fund and new ad valorem tax.

Permit #:	LA0073521

Yes

THE STATE OF THE PERSON NAMED IN COLUMN TWO	
A STATE OF THE PARTY OF THE PAR	ENDER THE PERSON OF THE PARTY O
A TOO KIND YOUR AND THE WAY	ASUBIECTEVENEZVALEDATION
	化物类 化光线 化光线 化二氯化物 医乳球菌科 医甲基酚 法法 医乳体 医乳体 经过的产品 化二氯化铵 电电话 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基
大大型的人,在1000年中中的社会工作的中心工作的工作。	

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

Clean and camera lines. Rehabilitate manholes. Repair broken lines. Locate and number manholes. GIS. Replaced force mains.

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

viii. Do you visit your pond system at least weekly?

Pulled all pumps, inspected wet wells, control panels and all valves concerning lift stations and replace as necessary. New pumps and controls.

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

New force mains, and rehab gravity lines.

B. If you have ponds please answer the following questions: √ Check one box. Do you have duckweed buildup in the ponds? Yes Πo Do you mow the dikes regularly (at least monthly), to the waters edge? Yes No iii. Do you have bushes or trees growing on the dikes or in the ponds? Yes No Do you have excess sludge buildup (> 1foot) on the bottom iv. of any of your ponds? Yes No Do you excersise all of your valves? Yes No vi. Are your control manholes in good structural shape? Yes No vii. Do you maintain at least 3 feet of freeboard in all of your Yes No

	· · · · · · · · · · · · · · · · · · ·			
	Permit #:	LA0073521		
. C.	Treatment Plants			
i.	Have the influent and effluent flow meters been calibrated i	n the last year?		
	Yes X No (V Check one box.)			
	10-23-17 Influent flow meter calibration date(s) Effluent	10-23-17 nt flow meter calibration date(s)		
ii.	What problems, if any, have been experienced over the last year that have threatened treatment?			
	None			
iii.	Is your community presently involved in formal planning fo	r treatment facility upgrade?		
	√ Check one box. Yes X No	f Yes, Please describe:		
	·			

	· ·			
	Permit #:	LA0073521		
D.	Preventive Maintenance			
i.	Does your plant have a written plan for preventive maintenance on major equipment items?			
	√ Check one box. X Yes No	If Yes, Please describe:		
	The Department's BMP as well as the manufa PM and the Plant O&M Ma	ctures manuals detailing nual.		
ii.	Does this preventive maintenance program depict frequency lubrication and other preventive maintenance tasks necessar equipment?	of intervals, types of y for each piece of		
iii.	Are these preventive maintenance tasks, as well as equipmer recorded and filed so future maintenance problems can be as	nt problems, being sured properly?		
Ε.	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. X Yes No 1	f Yes, Please describe:		
	Ordinance 85-8-8 imposes BOD, TSS, pH, Oil Metals limits on discharges. All limits correspo strength domestic waste	nd to average domestic		
ii.	Has it been necessary to enforce?			
	√ Check one box.	Yes, Please describe:		
:	We require all comercial and industrial users to	o abide by these limits.		
iii.	Any additional comments about your treatment plant or colle additional sheets if necessary.)	ction system? (Attach		

Permit #: LA 0073521

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: Influent Flow/Loadings	0	80 points
Part 2: Effluent Quality / Plant Performance	0	100 points
Part 3: Age of WWTF	45	50 points
Part 4: Overflows and Bypasses	65	100 points
Part 5: Ultimate Disposition of Sludge	0	100 points
Part 6: New Development	0	30 points
Part 7: Operator Certification Training	0	100 points
TOTAL POINTS:	110	