# **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:

January 10, 2018

#### PART 1: INFLUENCE FOW LOADINGS (all blants)

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)
1.043	X	139	x 8.34 =	1,209
1.965	x	100	x 8.34 =	1,639
2.916	x	95	x 8.34 =	2,310
1.764	x	121	x 8.34 =	1,780
1.910	x	118	x 8.34 =	1,880
1.880	x	111	x 8.34 =	1,740
3.029	X	86	x 8.34 =	2,173
3.623	x	98	x 8.34 =	2,961
2.366	x	86	x 8.34 =	1,697
3.713	X	92	<b>x</b> 8.34 =	2,849
1.683	X	150	x 8.34 =	2,105
1.772	x	78	x 8.34 =	1,153

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

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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 correspoding point total. Write the point total in the box below at the right.

 months
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12

 points
 0
 0
 0
 0
 5
 5
 5
 5
 5
 5
 5

Write 0 or 5 in the C point total box 5 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.

months points 

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

months points 

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

months (10)points 

Write 0, 10, 20, 30, 40 or 50 in the F point total box 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: 35 (max = 80)

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

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## PART 2: EFELUENT QUALITY/PEANT PERFORMANCE L

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 2016	2	3
December 2016	4	2
January 2017	4	4
February 2017	5	2
March 2017	6	3
April 2017	4	2
May 2017	4	2
June 2017	4	5
July 2017	4	4
August 2017	5	3
September 2017	3	2
October 2017	2	3

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

	Permit Limit		90% of Permit Limit
BOD, mg/l	30.0	x 0.90 =	27.0
TSS, mg/l	30.0	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 correspoding point total. Write the point total in the box below at the right.

months  $(\mathbf{0})$ points (0)

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

months  $(\mathbf{0})$ points  $(\mathbf{0})$ 

Write 0, 5, or 10 in the ii point total box 0 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 correspoding point total. Write the point total in the box below at the right.

months points 

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.

months points 

Write 0, 5, or 10 in the iv point total box 0 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:** 0 (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 and exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?						
	√ Check one box. Yes X No	If Yes, Please describe:					
ii.	At any time in the past year was there a "failure" of a Biom 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 p substance?	ermit limit for a toxic					
	√ Check one box. Yes X No	If Yes, Please describe:					

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# PART BY AGE OF THE WASTEWATER TREATMENT FACILITY.

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

Enter Age in Part C below.

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

X Mechanical Treatment Plant (trickling filter, activated sludge, etc...)
Specify Type: Activated Sludge

Aerated Lagoon 2.0
Stabilization Pond 1.5
Other
Specify Type: 1.0

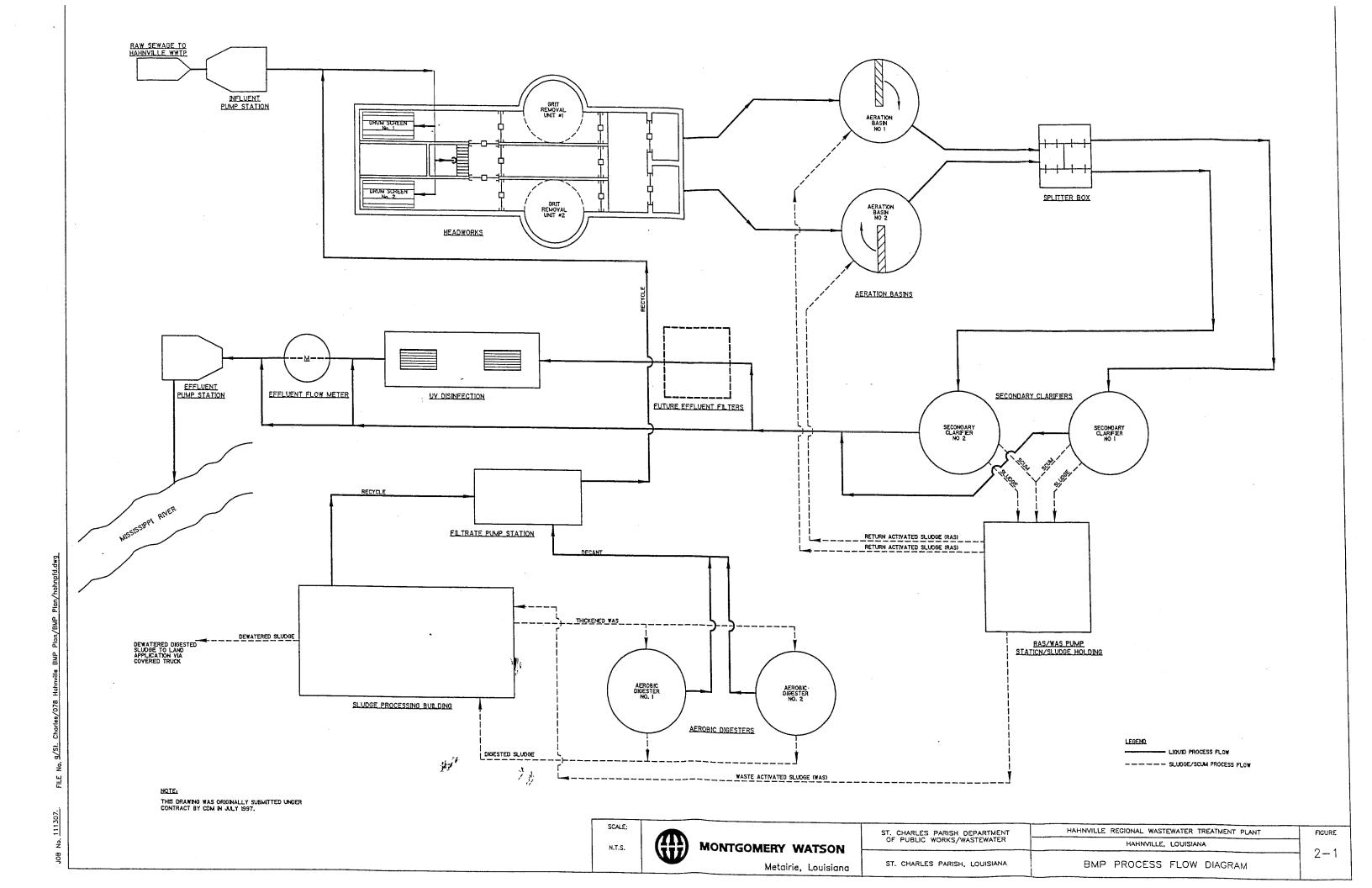
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

**TOTAL POINT VALUE FOR PART 3 =** 

$$\frac{2.5}{Factor} \times \frac{17}{Age} = 42.5 \text{ (max = 50)}$$

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.



F	
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	REGOVAS AND IB		

(	List the n discharge	umber of times of untreated or	in the la	st year then letely treat	re was an ed wastev	overflow, l	oypass or heavy ra	unpermi in:	tted
_	23	√ Check or	ne box.	<u> </u>	0 points 5 points 10 points		3 = 15  p 4 = 30  p 5  or mon	oints	oints
I	List the n were with	umber of bypas ning the collecti	ses, ove on syste	rflows or u m and the r	npermitte number at	d discharge the treaten	es shown in ment plant	in A (i) t	hat
	Co	llection System	•	9		Treatmen	t Plant:	14	4
C	discharge	umber of times of untreated or he treatment pla	incomp	letely treate	ed wastev	ater due to	equipme	nt failure	tted
-	16	√ Check or	ne box.		0 points 5 points		3 = 15  p $4 = 30  p$	oints	-14
				☐ 2 = 1	10 points	LX	or mo	re = ou p	oints
I	List the n	umber of bypas ning the collection	ses, ove	rflows or u	npermitte	d discharge	s shown i	in <b>B</b> (i) tl	
I v	List the n were with	umber of bypas ing the collection	ses, over on system	rflows or u m and the r	npermitte number at	d discharge the treaten	es shown i nent plant	in B (i) tl	nat
S	List the n were with Co.	umber of bypas	ses, over	rflows or use and the result of the result o	npermitte number at — e city/villa	d discharge the treaten Treatmen	es shown inent plant	in B (i) th	nat
S	List the n were with Co.	umber of bypas ling the collection llection System whether the bypa	ses, over on system :asses can munities	rflows or use and the result of the result o	npermitte number at 	d discharge the treaten Treatmen age/town se c	es shown inent plant	in B (i) th	nat 2
S	List the n were with Co. Specify we contract of	umber of bypas ling the collection llection System whether the bypa	ses, over on system :asses can munities	rflows or use and the results of the	npermitte number at e city/villa istricts, et ver Sys	d discharge the treaten Treatmen age/town se c	es shown in the shown in the shown is the shown in the sh	in B (i) the second sec	nat 2
S	List the n were with  Co. Specify we contract of	umber of bypas ning the collection llection System whether the bypa or tributary com	ses, over on system : asses can munities cked for	rflows or use and the restriction and the restriction the restriction of the restriction	npermitte number at e city/villa istricts, et ver Sysind place t	d discharge the treatment reatment age/town second tem	es shown in the plant the Plant: the box be	in B (i) the second of the sec	nat 2 m
S C L	List the n were with  Co. Specify we contract of  Add the p  Also en	umber of bypas ning the collection llection System whether the bypa or tributary com- point values chec erson responsibled discharges to	ses, over on system : asses can munities cked for TOTA or 100, w le (name o State a	ne from the sysanitary de City Seven A and B and AL POINT Chichever is and title) and Federal	e city/villa istricts, et ver System place to the steem of the steem o	d discharge the treatment reatment rege/town second tem he total in the for PAI the point cating overflo	es shown in the plant the box better	elow.  100 (masses or	nat 2 m

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#### PARTS SEUDGESTORAGEANDIDISHOSAIESTIES

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 0

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 0

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	ern	ait.	#

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PΑ	RIG NEW DEVE	LOPMENT :		
A.	Please provide the followere installed during to	owing information he last year.	for the total	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 oth in the past year, such the significantly increased	nat either flow or po	oved into thollutant load	e community or expanded production ings to the sewerage system were
	√ Check one box.	Yes = 15	points	$\boxed{X}$ No = 0 points
	If Yes, Please describe	•		
	List any new pollutants None	:		
	W. T.			
C.	Is there any developme 2-3 years, such that eith significantly increase?	nt (industrial, commer flow or pollutan	mercial or re at loadings to	sidential) anticipated in the next the sewerage system could
	√ Check one box.	Yes = 15	points	No = 0 points
	If Yes, Please describe:			
	List any new pollutants None	you anticipate:		
D.	Add together the point	value checked in B	and C and n	place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: 0

 $\boxed{0 \quad (\text{max} = 30)}$ 

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

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PΑ	KILZ-JÖRBRATO	RIGERICIEIGA		DENCIO	ATION CHEER, C
A.	What was the name of the operator-in-charge for the reporting year?				
		Name	2:	Herman	Cortez
В.	What is his or her certif		<del>!</del> :	17-2	208
C.	What level of certificati	on is the operator-in	ı-charge requi	red to have to	o operate the
	wastewater treatment fa	icility? Level Required	<i>l</i> :	١١	/
D.	What is the level of cer	tification of the oper	ator-in-charge	?	
		Level Certified	l:		<b>V</b>
E.	Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?				rade level
	$\sqrt{\text{Check one box.}}$	X Yes = 0 po	ints	☐ No	= 50 points
	Wri	te 0 or 50 in the E po	oint total box	0 E Po	oint Total
F.	Has the operator-in-chayear?	rge maintained recen	tification requ	irements du	ring the reporting
	√ Check one box.	X Yes		☐ No	
G.	How many hours of corlast two calendar years?	tinuing education h	as the operator	r-in-charge c	ompleted over the
	√ Check one box.	$\boxed{\chi}$ > 12 hours	= 0 points	<u> </u>	hours = 50 points
	Writ	e 0 or 50 in the G po	oint total box	0 G P	oint Total
Н.	Is there a written policy treatment plant employe	regarding continuin	g education ar	n training for	wastewater
	$\sqrt{\text{Check one box.}}$	X Yes		☐ No	
	***************************************	is outlined in the, Plant O&M M			Plant Emergency y Manual.
I.	What percentage of the paid for:	continuing education	n expenses of	the operator-	-in-charge were
	By the permittee?	100%	By the ope	erator?	0%
J.	Add together the E and				
		TOTAL POINT	VALUE FO	R PART 7:	$\boxed{0  \text{(max = 100)}}$
	Also enter this value				

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T/V	KI MEHIDINAN CIPALE	Nuise ile		
A.	Are User-Charge Revenue	es sufficient t	to cover ope	ration and maitenance expenses?
	√ Check one box.	X Yes	☐ No	If No, How are O&M costs financed?
				venues are sufficient to cover ance expenses.
B.	What financial resources cand reconstruction needs?	lo you have ε	wailable to p	pay for your wastewater improvements
	DEQ loans, g	rants, gen	eral fund	and new ad valorem tax.

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Parity: Subjective exaltration is a second continue to the continue of the con	X.
	<b>SE</b>

			A CONTRACTOR		
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.				
ü.	Describe what lift station work has been done in the last year.				
	Pulled all pumps, inspected wet wells, control p concerning lift stations. New pumps ar		valves		
iii.	What collection system improvements does the community have under construction for the next 5 years?				
	New force mains, and rehab gravity lines.				
В.	If you have ponds please answer the following questions:	√ Check o	ne box.		
i. ii.	Do you have duckweed buildup in the ponds? 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 Yes	∐ No		
iv.	Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? Do you excersise all of your valves? Are your control manholes in good structural shape? Do you maintain at least 3 feet of freeboard in all of your	☐ Yes	☐ No		
v. vi. vii.		Yes Yes	No No		
	ponds? Do you visit your pond system at least weekly?	Yes Yes	No No		

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c.	Treatment Plants
i.	Have the influent and effluent flow meters been calibrated in the last year?
	X Yes  No (√ Check one box.)
	10-23-17
	Influent flow meter calibration date(s) Effluent 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 for treatment facility upgrade?
	√ Check one box.  Yes  No If Yes, Please describe:

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D.	Preventive Maintenance				
i.	Does your plant have a written plan for preventive maintenance on major equipment items?				
	√ Check one box.	X Ye	s No	If Yes, Please describe:	
	The Department's BMP as well as the manufactures manuals detailing PM and the Plant O&M Manual.				
ii.	Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?				
		X Yes	s No		
iii.	Are these preventive main recorded and filed so futur	tenance ta e mainten	sks, as well as equi ance problems can	pment problems, being be assured properly?	
		X Yes	s 🔲 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.	X Yes	S No	If Yes, Please describe:	
	Ordinance 85-8-8 imposes BOD, TSS, pH, Oil and Grease, COD, and Metals limits on discharges. All limits correspond to average domestic strength domestic waste.				
ii.	Has it been necessary to en	ıforce?			
	√ Check one box.	X Yes	No No	If Yes, Please describe:	
İ	We require all come	ercial an	d industrial use	ers to abide by these limits.	
iii.	Any additional comments additional sheets if necessar	about you ury.)	r treatment plant or	collection system? (Attach	
	I				

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## POINT CALCULATION TABLE

Part 1: Influent Flow/Loadings	Actual Values 35	<b>Maximum</b> 80 points
Part 2: Effluent Quality / Plant Performance	0	100 points
Part 3: Age of WWTF	42.5	50 points
Part 4: Overflows and Bypasses	100	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:	177.5	