LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



	St. Charles Parish Council			
Facility Name:	Destrehan Wastewater			
·	Treatment Plant			
LPDES Permit Number:	LA	0073539	NO.	

Agency Interest (AI) Number:	AI 39862
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Address:

Hahnville, Louisiana 70057

Post Office Box 302

Parish: St. Charles

(Person Completing Form) Name: Angela Troxler

Title: Laboratory Coordinator

Date Completed: November 30, 2020

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)
2.956	X	130	x 8.34 =	3,205
2.934	X	133	x 8.34 =	3,254
3.894	X	94	x 8.34 =	3,053
3.86	X	78	x 8.34 =	2,511
2.612	X	95	x 8.34 =	2,069
2.419	X	85	x 8.34 =	1,715
3.258	X	138	x 8.34 =	3,750
4.18	x	143	x 8.34 =	4,985
4.952	x	78	x 8.34 =	3,221
3.361	x	66	x 8.34 =	1,850
2.715	x	63	x 8.34 =	1,427
2.378	x	79	x 8.34 =	1,567

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:
 6.0 $x \cdot 0.90 =$ 5.4

 Design BOD, lb/day:
 7,506 $x \cdot 0.90 =$ 6,755

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	2710070000

										L		Control Control Control		
C.	(WW)	ΓF) ex	ceed 90	0% of (design	flow?	Circle	the nu) to the umber of the rig	of mon	water t	treatme	ent faci orrespo	ility
	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
									C poir			0	J	nt Total
D.	Circle	nany n the nu at the	ımber o	did the of mon	e mont ths and	hly flo	w (Col spondi	umn 1 ng poi) to the	: WWT . Write	F exce the p	eed the oint to	design tal in th	n flow? ne 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, 10	0 or 15	in the	D poir	nt total	box	0	D Poir	nt Total
E.	of the	design	nonths loadin	ıg? Ci	rcle the	e numb	er of n	ling (C nonths	Column and co	3) to to	he WV nding _l	VTF ex point to	ceed 9	00% 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 poir	ıt total	box	0	E Poin	ıt Total
F.	How no design point t	loadir	ig? Ci	rcle the	e numb	er of n	nonths	ling (C and co	Column orrespo	3) to the standing place of the standing of th	he WV point to	VTF ex otal. V	ceed the Vrite 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	0 or 50) in the	F poin	it total	box	0	F Poin	t Total
G.	Add to	gether	each p	oint to	tal for	C thro	ugh F	and pla	ace this	s sum i	n the b	ox bel	ow at t	he right

TOTAL POINT VALUE FOR PART 1: $0 \pmod{80}$

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)
November 2019	3		2
December 2019	5		2
January 2020	2		1
February 2020	2		2
March 2020	4		2
April 2020	2		3
May 2020	5		1
June 2020	3		1
July 2020	2		1
August 2020	2		1
September 2020	3		2
October 2020	1		2

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

C.	Continuous	Discharge to	Surface	Water
C.	Commuous	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.

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

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 points

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: $0 \pmod{max} = 100$

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 Lin	nitations	L			
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.	Toxicity) test of the efflue	ent?		onitoring (Whole Effluent		
	√ Check one box.	Yes	X No	If Yes, Please describe:		
iii.	At any time in the past ye substance?	ar was there a	n exceedance of a p	permit limit for a toxic		
	√ Check one box.	Yes	X No	If Yes, Please describe:		

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

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

$$\begin{array}{rcl}
 & 2000 \\
\hline
 & Current Year & - Answer to A & = Age in years \\
\hline
 & 2020 & 2000 & 20
\end{array}$$

Enter Age in Part C below.

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

			FACTOR:
<u>X</u>	Mechanical Treatmer (trickling filter, activation)		2.5
	sludge, etc) Specify Type:	Activated Sludge	
Commission of the Commission o	Aerated Lagoon		2.0
Marting to Associate Associates	Stabilization Pond		1.5
www.commonweal	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 =

$$\frac{2.5}{Factor} \times \frac{20}{Age} = \boxed{50} \text{ (max = 50)}$$

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:
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: 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:
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: 11 Treatment Plant: 1
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: 60 (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:
	David deGeneres, 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).

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PART 5: SLUDGE STORAGE AND DISPOSAL SITES

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

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: $0 \pmod{max} = 100$

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

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. 44.000 Design Population: Design Flow: **MGD** 30-45 Design BOD: 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 points X No = 0 points If Yes, Please describe: List any new pollutants: None Is there any development (industrial, commercial or residential) anticipated in the next C. 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase? √ Check one box. Yes = 15 pointsX 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 t	he operator-in-charge	for the repor		
		Name:		Herman C	ortez
В.	What is his or her certif			17-20	8
C.	What level of certificati	on is the operator-in-c	harge requir	ed to have to o	operate the
	wastewater treatment fa	cility? <i>Level Required:</i>		IV	
D.	What is the level of cert	-	or-in-charge	?	
		Level Certified:	J	11.7	
E.	Was the operator-in-charequired in order to ope	arge of the report year rate this plant?	certified at le	east at the gra	de level
	$\sqrt{\text{Check one box.}}$	\mathbf{X} Yes = 0 poin	ts	No =	50 points
	Wri	te 0 or 50 in the E poin	it total box	0 E Poir	nt Total
F.	Has the operator-in-chayear?	rge maintained recertif	fication requ	irements durir	ng the reporting
	√ Check one box.	X Yes		☐ No	
G.	How many hours of corlast two calendar years?	tinuing education has	the operator	-in-charge con	npleted over the
	\lor Check one box.	$\boxed{\chi}$ > 12 hours =	0 points	< 12 h	ours = 50 points
	Writ	e 0 or 50 in the G poir	it total box	0 G Poir	nt Total
Н.	Is there a written policy treatment plant employe	regarding continuing ees?	education an	training for w	vastewater
	$\sqrt{\text{Check one box.}}$	X Yes		☐ No	
	MOTOR AND ADDRESS OF THE PARTY	is outlined in the	<u> </u>		•
	Procedure	s, Plant O&M Ma	nual, and	the Safety	Manual.
I.	What percentage of the paid for:				-
	By the permittee?	100%	By the ope	rator?	0%
J.	Add together the E and				
		TOTAL POINT V	VALUE FO	R PART 7:	0 (max = 100)
	Also enter this value	or 100, whichever is le			

PART 8: FINANCIAL STATUS

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 ad valorem tax.		

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PART 9: SUBJECTIVE EVALUATION

A.	Collection System Maintenance			
i.	Describe what sewer system maintenance work has been done in the last year.			
	Clean and camera lines. Rehabilitate manholes Locate and number manholes. GIS. Repla	-		
ii.	Describe what lift station work has been done in the last year.			
	Pulled all pumps, inspected wet wells, control per concerning lift stations and replace as necessary controls.	•		
iii.	What collection system improvements does the community have under construction for the next 5 years?			
	New lift stations, upgrade lift stations, new fore gravity lines.	ce mains, and rehab		
В.	If you have ponds please answer the following questions:	√ Check one 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 No		
iv.	Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?	Yes No		
\mathbf{v}_{ullet}	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 ponds?	Yes No		
viii.	Do you visit your pond system at least weekly?	Yes No		

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C.	Treatment Plants	
i.	Have the influent and effluent flow meters been calibrated in	n the last year?
	X Yes	
	10/27/2020	10/27/2020
		nt flow meter calibration date(s)
ii.	What problems, if any, have been experienced over the last treatment?	year that have threatened
	UV system is being replaced and Bleach (Hypo added to the effluent for disinfection until work	
iii.	Is your community presently involved in formal planning fo	or treatment facility upgrade?
	√ Check one box. Yes X No	If Yes, Please describe:

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D.	Preventive Maintenance			
i.	Does your plant have a writems?	Does your plant have a written plan for preventive maintenance on major equipment tems?		
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:
			ll as the manufa e Plant O&M Ma	actures manuals detailing anual.
ii.	Does this preventive main lubrication and other prevequipment?	entive mainte	enance tasks necessa	y of intervals, types of ry for each piece of
iii.	Are these preventive main recorded and filed so future	X Yes Attenance tasks The maintenance	No s, as well as equipmed problems can be a	ent problems, being assured properly?
		X 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.	X Yes	☐ 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 e	nforce?		
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:
	We require all com	ercial and	industrial users	to abide by these limits.
iii.	Any additional comments additional sheets if necess	about your tr ary.)	reatment plant or col	llection system? (Attach

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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	50	50 points
Part 4: Overflows and Bypasses	60	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	