LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



St. Charles Parish Council

Pacility Name: Destrehan Wastewater

Treatment Plant

LPDES Permit Number: LA 0073539

Agency Interest (AI) Number: Al 39862

Address: Post Office Box 302

Hahnville, Louisiana 70057

Parish: St. Charles

(Person Completing Form) Name: Angela Troxler

Title: Laboratory Coordinator

Date Completed: November 19, 2015

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)
2.234	X	62	x 8.34 =	1,155
2.073	x	89	x 8.34 =	1,538
2.586	X	176	x 8.34 =	3,795
3.581	x	243	x 8.34 =	7,257
3.051	x	161	x 8.34 =	4,096
3.951	x	136	x 8.34 =	4,481
4.479	x .	145	x 8.34 =	5,416
4.22	x	143	x 8.34 =	5,032
3.618	x	134	x 8.34 =	4,043
2.9	x	172	x 8.34 =	4,159
2.409	x	200	x 8.34 =	4,018
2.691	x	177	x 8.34 =	3,972

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 0.90 =	5.4
Design BOD, lb/day:	7,506	x 0.90 =	6,755

									n					
								Per	mit #:	\mathbf{L}_{A}	1007	3539		
c.	(WWI	F) exc	eed 90	% of c	lesign i	flow?	Circle	the nu) to the mber o the rig	f mon	water t	reatme	ent faci errespo	lity ding
	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
						Write	0 or 5	in the	C poin	it total	box	0	C Poir	nt Total
D,	How n Circle below	the nur	mber o	did the f mon	month ths and	aly flor corres	w (Col spondir	umn 1 ng poi) to the nt total.	WWT Write	F exce the p	eed the	design	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	or 15	in the	D poin	t total	box	0	D Poi	nt Total
E.	How n of the the poi	design	loadın	g? Cii	cle the	numb	er of n	ling (C nonths	column and co	3) to to	he WV nding	VTF ex point to	ceed 9 otal. V	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
					Wı	rite 0, :	5,or 10	in the	E poin	t total	box	0	E Poir	ıt Total
F.	How n design point t	loadin	g? Cii	cle the	numb	er of n	nonths	ling (C and co	Column orrespo	3) to to	he WV point t	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	t total	box	0	F Poin	ıt Total
G.	Add to	gether	each p	oint to	tal for	C thro	ugh F	and pl	ace this	sum i	n the t	ox bel	ow at t	he righ
					тот	AL PC	INT V	VALU	E FOR	PAR	т 1:	0	(max	= 80)

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

PART 2 EFECTENT QUALITY APLANT 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)
October 2014	4
November 2014	2
December 2014	3
January 2015	2
February 2015	2
March 2015	2
April 2015	3
May 2015	2
June 2015	3
July 2015	2
August 2015	2
September 2015	2

Average Monthly TSS (mg/l)
3
2
2
2 2
4
2
2
1
2
2
3
2

Column 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
•			

12 40

Ç.	Contin	iuous L	/15CHa	age to	Surraci	e wate	1.						
i.	Circle	nany m the nu x belov	mber o	of mon	ths and	ent BO I the co	D (Col	umn 1 ding p) exceed oint to	ed 90% tal. W	of the	permi point	t limits? total in
	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
													_

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	0	1	2	3	4	5	6	7	8	9	10	11	12
points		5	5	10	10	10	10	10	10	10	10	10	10
				Wı	ite 0, 5	5, or 10) in the	ii poir	it total	box	0	ii Poir	nt Total

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

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	0	1	2 10	3 20	4 30	5 40	6 40	7 40	8 40	9 40	10 40	11 40	12 40	
			Write	0, 10,	, 20, 30	or 40	in the	iii poir	nt total	box	0	iii Poi	nt 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	0))	1 5	2 5	3 10	4 10	5 10	6 10	7 10	8 10	9 10	10 10	11 10	12 10	
					Wr	rite 0, 5	, or 10	in the	iv poir	it total	box	0	iv Poi	nt Tota	1

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 Lin	nitations		
i.	At any time in the past ye pollutants such as: ammo coliform?	ear was there a nia-nitrogen, j	and exceedance of a phosphorus, pH, tot	permit limit for other al residual chlorine, or fecal
	√ Check one box.	Yes	X No	If Yes, Please describe:
ii.	At any time in the past ye Toxicity) test of the efflu		a "failure" of a Bion	nonitoring (Whole Effluent
	√ Check one box.	Yes	X No	If Yes, Please describe:
iii.	At any time in the past yo substance?	ear was there	an exceedance of a	permit limit for a toxic
	√ Check one box.	Yes	∑ No	If Yes, Please describe:

PART 35 ACE OF THE WASTEWATER TREATMENT FACILITY

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

 $\begin{array}{rcl}
 & 2000 \\
\hline
 & Current Year & - Answer to A & = Age in years \\
 & 2015 & 2000 & 15
\end{array}$

Enter Age in Part C below.

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

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

Aerated Lagoon
Stabilization Pond
Other
Specify Type:

1.0

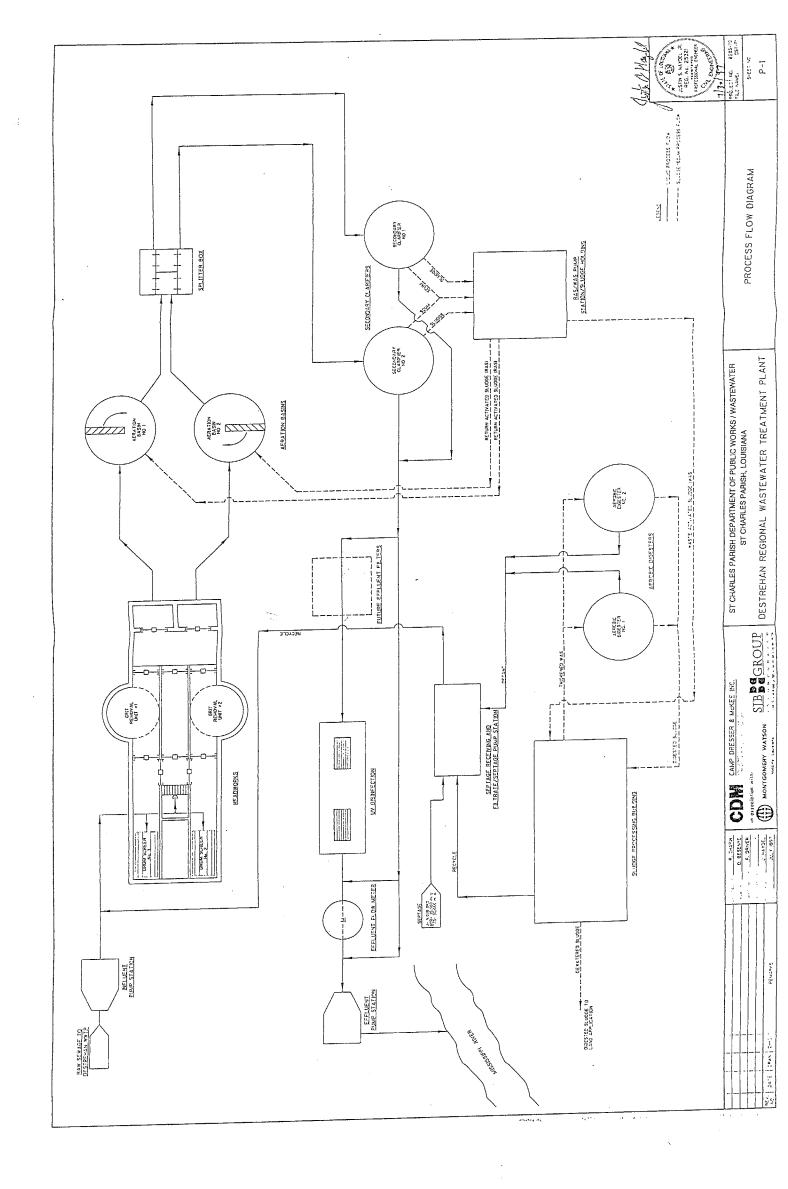
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

 $\frac{2.5}{Factor} \times \frac{15}{Age} = 37.5 \text{ (max = 50)}$

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.



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PART 4: OVERFLOWS AND BYPASSES 1.11

A. i.	List the number of times in the last discharge of untreated or incomple	st year there was an letely treated wastew	overflow, bypass or unperr	mitted
	8 √ Check one box.	1 = 5 points	- +) points
ii.	List the number of bypasses, over were withing the collection system	flows or unpermitted and the number at	d discharges shown in A (i) the treatement plant) that
	Collection System:	8	Treatment Plant:	0
B. i.	List the number of times in the ladischarge of untreated or incompleither at the treatment plant or during the statement of the statement plant or during th	letely treated wastew	ater due to equipment fails	ire.
	√ Check one box.	1 = 5 points) points
ii.	List the number of bypasses, over were withing the collection system	rflows or unpermitte m and the number at	d discharges shown in B (i) the treatement plant) that
	Collection System:	28	Treatment Plant:	0
C.	Specify whether the bypasses can contract or tributary communities	ne from the city/villa /sanitary districts, et City Sewer Syst	c	rom
D.	Add the point values checked for	A and B and place t	he total in the box below.	
	TOTA Also enter this value or 100, w	AL POINT VALUE	FOR PART 4: 100 the point calculation table	(max = 100) on page 16.
E.	List the person responsible (name unpermitted discharges to State a	e and title) for report nd Federal authoritie	ing overflows, bypasses or	
	L. J. Brady,	Assistant Directo	or of Wastewater	
	Describe the procedure for gather Overflows, bypasses and unpermitted appropriate agencies (SPOC, DEQ).	ring, compiling and a	reporting: d by the operator and reported t	to the

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PART 5 SEUDGE STORAGE AND DISPOSAUSTIES

A. Sludge	Storgage
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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.

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KALI (SZEINERWIDIEW	adicolovienie s		
Please provide the fo	ollowing information to the last year.	for the tota	l of all sewer line extensions which
Design Population:	44,000	,	
Design Flow:	6.0	MGD	
Design BOD:	30-45	mg/l	
Has an industry (or of in the past year, such significantly increase	n that either flow or po	oved into to	he community or expanded producti dings to the sewerage system were
√ Check one box.	Yes = 15	points	X No = 0 points
If Yes, Please descri	be:		
List any new polluta	nts:		
List any new polluta None	nts:		
None Is there any developed	ment (industrial, come	mercial or nat loadings	residential) anticipated in the next to the sewerage system could
Is there any develope 2-3 years, such that of	ment (industrial, come	it loadings	residential) anticipated in the next to the sewerage system could No = 0 points
Is there any develope 2-3 years, such that esignificantly increase	ment (industrial, commetther flow or pollutante? Yes = 15	it loadings	to the sewerage system could
None Is there any develops 2-3 years, such that a significantly increase √ Check one box.	ment (industrial, commetther flow or pollutante? Yes = 15	it loadings	to the sewerage system could
None Is there any develops 2-3 years, such that a significantly increase √ Check one box.	ment (industrial, commetther flow or pollutante? Yes = 15	it loadings	to the sewerage system could
None Is there any develops 2-3 years, such that a significantly increase √ Check one box.	ment (industrial, commeither flow or pollutante? Yes = 15	it loadings	to the sewerage system could
None Is there any developmed 2-3 years, such that is significantly increased √ Check one box. If Yes, Please described List any new polluta	ment (industrial, commeither flow or pollutante? Yes = 15	it loadings	to the sewerage system could

TOTAL POINT VALUE FOR PART 6: 0

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

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What was the name of the operator-in-charge for the reporting year? A. Herman Cortez Name: В. What is his or her certification number: 17-208 Cert.#: C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility? IV Level Required: D. What is the level of certification of the operator-in-charge? IV Level Certified: 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. X Yes = 0 points \bigcap 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. √ Check one box. X Yes No How many hours of continuing education has the operator-in-charge completed over the G. last two calendar years? √ Check one box. |X| > 12 hours = 0 points< 12 hours = 50 pointsWrite 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? \vee 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. I. What percentage of the continuing education expenses of the operator-in-charge were paid for: By the permittee? 100% By the operator? 0% 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:

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PART'S FINANCIAUSTATUS

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?
	User fees and sewer collection fees.

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BARTEPESUBIECENTE EVALUATION

X.	Concessor Bystem Mantenance
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.
	Pulled all pumps, inspected wet wells, control panels and all valves concerning lift stations. New pumps and controls.
iii.	What collection system improvements does the community have under construction for the next 5 years?
;	Upgrading lift stations and sewer lines. Point Repairs.

3.	If you have ponds please answer the following questions:	√ Check o	ne box.
i.	Do you have duckweed buildup in the ponds?	Yes	☐ No
ii.	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 (> lfoot) on the bottom of any of your ponds?	☐ Yes	□ No
v.	Do you excersise all of your valves?	Yes	H 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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Treatment Plants				
Have the influent and effluent flow meters been calibrated in the last year?				
X Yes				
6/18/15 6/18/15				
Influent flow meter calibration date(s) Effluent flow meter calibration date(s)				
What problems, if any, have been experienced over the last year that have threatened treatment?				
None				
Is your community presently involved in formal planning for treatment facility upgrade?				
√ Check one box. Yes X No If Yes, Please describe:				

				1 OI III II.	LA0073333		
D.	Preventive Maintenance						
i.	Does your plant have a written plan for preventive maintenance on major equipment items?						
	√ Check one box.	X Ye	es [] 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 Ye	es _] No			
iii.	Are these preventive main recorded and filed so futur	tenance t e mainte	asks, as nance pr	well as equipn oblems can be	nent problems, being assured properly?		
		X Ye	es] 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 Y	es [] 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 Y	es [] No	If Yes, Please describe:		
	We require all come	ercial a	nd ind	ustrial users	s to abide by these limits.		
iii.	Any additional comments additional sheets if necessary	about yo	ur treatn	ent plant or co	ollection system? (Attach		
	<u> </u>						

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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	37.5	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:	137.5	