Lakeland Sanitary District

Last Updated: Reporting For:

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Influent Flow and Loading

1. Monthly Average Flows and BOD Loadings

1.1 Verify the following monthly flows and BOD loadings to your facility.

Influent No. 702	Influent Monthly Average Flow, MGD	×	Influent Monthly Average BOD Concentration mg/L	×	8.34	=	Influent Monthly Average BOD Loading, lbs/day
January	0.2573	Х	406	Х	8.34	=	871
February	0.2834	Х	400	Х	8.34	=	945
March	0.2651	Х	517	Х	8.34	=	1,143
April	0.2556	Х	486	Х	8.34	=	1,036
May	0.2865	Х	524	Х	8.34	=	1,251
June	0.3320	Х	534	Х	8.34	=	1,478
July	0.3582	Х	527	Х	8.34	=	1,573
August	0.3317	Х	483	Х	8.34	=	1,335
September	0.2884	Х	541	Х	8.34	=	1,301
October	0.2603	Х	547	Х	8.34	=	1,188
November	0.2291	Х	497	Х	8.34	=	950
December	0.2367	Х	446	Х	8.34	=	879

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	X	%	=	% of Design
Max Month Design Flow, MGD	.75	Х	90	=	0.675
		Х	100	=	.75
Design BOD, lbs/day	2250	х	90	=	2025
		Х	100	=	2250

2.2 Verify the number of times the flow and BOD exceeded 90% or 100% of design, points earned, and score:

Total Number of Points 0								
Points		0	0	0	0			
Exceedances 0			0 0		0			
Points per ea		2	1	3	2			
December	1	0	0	0	0			
November	1	0	0	0	0			
October	1	0	0	0	0			
September	1	0	0	0	0			
August	1	0	0	0	0			
July	1	0	0	0	0			
June	1	0	0	0	0			
May	1	0	0	0	0			
April	1	0	0	0	0			
March	1	0	0	0	0			
February	1	0	0	0	0			
January	1	0	0	0	0			
	Influent		than 100% of	than 90% of design	than 100% of design			
	of		Number of times flow was greater		Number of times BOD was greater			
	Manablas	Ni	N. 1 C.:		I			

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o Yes

No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.

Total Points Generated	0					
Score (100 - Total Points Generated)						
Section Grade	Α					

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If Yes, please explain:	
4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test? • Yes	
No	
If Yes, please explain:	
4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?	
o Yes	
o No	
● N/A	
Please explain unless not applicable:	

Total Points Generated					
Score (100 - Total Points Generated)	100				
Section Grade	Α				

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Effluent Quality and Plant Performance (Ammonia - NH3)

1. Effluent Ammonia Results

1.1 Verify the following monthly and weekly average effluent values, exceedances and points for ammonia

Outfall No.	Monthly	Moddy	F-661	NA bla la	E60	I E CCI	r= cci .		
001	Monthly Average	Weekly Average	Effluent Monthly	Monthly Permit	Effluent	Effluent	Effluent	Effluent	Weekly
001	NH3	NH3	Average	Limit	Weekly Average	Weekly	Weekly	Weekly	Permit
	Limit	Limit	NH3	Exceed		Average		Average for Week	Limit Exceed
	(mg/L)	(mg/L)	(mg/L)	ance	1	2	3	4	ance
		(***3/ -)	(5/ =)	4,100		~	J	-T	arice
January	15		.429	0					
February	15		.486	0					
March	15		.355	0					
April	15		2.565	0					
May	16		3.643	0					
June	16		.249	0					
July	16		1.639	0					
August	16		.214	0					
September	16		.356	0					
October	16		.223	0					
November	25		.184	0					
December	25		.348	0					
Points per e	ach excee	dance of N	1onthly av	erage:					10
Exceedances	s, Monthly								0
Points:	Points:								
Points per each exceedance of weekly average (when there is no monthly average):								e):	2.5
Exceedances, Weekly:									0
Points:									0
Total Numb	er of Poi	nts				10.110.000			0

NOTE: Limit exceedances are considered for monthly OR weekly averages but not both. When a monthly average limit exists it will be used to determine exceedances and generate points. This will be true even if a weekly limit also exists. When a weekly average limit exists and a monthly limit does not exist, the weekly limit will be used to determine exceedances and generate points.

1.2 If any violations occurred, what action was taken to regain compliance?

none

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

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Biosolids Quality and Management

1. Biosolids Use/Disposal
1.1 How did you use or dispose of your biosolids? (Check all that apply)
☐ Land applied under your permit
☑ Publicly Distributed Exceptional Quality Biosolids
\square Hauled to another permitted facility
☐ Landfilled
☐ Incinerated
□ Other
NOTE: If you did not remove biosolids from your system, please describe your system type such
as lagoons, reed beds, recirculating sand filters, etc.
1.1.1 If you checked Other, please describe:

3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year.

Outfall No.	. 003	- Mu	nicipal	Slu	dge													
Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75			9.7											0	0
Cadmium		39	85			1.5											0	0
Copper		1500	4300			520											0	0
Lead		300	840			17											0	0
Mercury		17	57			2											0	0
Molybdenum	60		75			13										0		0
Nickel	336		420			21										0		0
Selenium	80		100			0										0		0
Zinc		2800	7500			630											0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

- 0 (0 Points)
- 0 1-2 (10 Points)
- 0 > 2 (15 Points)
- 3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)
- o Yes
- O No (10 points)
- N/A Did not exceed limits or no HQ limit applies (0 points)
- o N/A Did not land apply biosolids until limit was met (0 points)
- 3.1.3 Number of times any of the metals exceeded the ceiling limits = 0

Exceedence Points

- **•** 0 (0 Points)
- (10 Points) 0 1
- 0 > 1 (15 Points)
- 3.1.4 Were biosolids land applied which exceeded the ceiling limit?
- O Yes (20 Points)
- No (0 Points)

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0

Outfall Number:	005
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2021 - 09/30/2021
Density:	4
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Thermophilic Aerobic Digestion
Process Description:	10 days retention time at 131 degrees F. or more

Outfall Number:	005
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	10/01/2021 - 12/31/2021
Density:	3
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	No
Process:	Thermophilic Aerobic Digestion
Process Description:	10 days retention time at 131 degrees or more

- 4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.
- 4.2.1 Was the limit exceeded or the process criteria not met at the time of land application? O Yes (40 Points)
- No

If yes, what action was taken?

5. Vector Attraction Reduction (per outfall):

5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	003
Method Date:	04/06/2021
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	Yes
Limit (if applicable):	>=38
Results (if applicable):	53

Outfall Number:	005
Method Date:	02/04/2021
Option Used To Satisfy Requirement:	Volatile Solids Reduction
Requirement Met:	Yes
Land Applied:	No
Limit (if applicable):	>=38
Results (if applicable):	56.10

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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

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We keep up with all the preventive maintenance and are always going beyond for future improvements

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	А

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OIT and Basic Certification:

- Averaging 6 or more CECs per year.
- O Averaging less than 6 CECs per year.

Advanced Certification:

- Averaging 8 or more CECs per year.
- O Averaging less than 8 CECs per year.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) - \$ 3.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$ All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc. 3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs	277,806			
3.3 What amount should be in your Replacement Fund? \$ 278,000 Please note: If you had a CWFP loan, this amount was originally based on Assistance Agreement (FAA) and should be regularly updated as needed, instructions and an example can be found by clicking the SectionInstruct header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund above greater than the amount that should be in it (#3.3)? O Yes No If No, please explain.	Further calcuions link unde	al ulation er Info	O	
4. Future Planning 4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system? ● Yes - If Yes, please provide major project information, if not already listed below.□□				
Project Project Description # Potential treatment for phosphorus regs. 2 ATAD repairs. 3 ATAD repairs.		2022		
5. Financial Management General Comments				
6. Collection System 6.1 Energy Usage 6.1.1 Enter the monthly energy usage from the different energy sources: COLLECTION SYSTEM PUMPAGE: Total Power Consumed Number of Municipally Owned Pump/Lift Stations: 17				

Lakeland Sanitary District

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6 1	Futura	Engrav	Dolatod	Equipment
0.4	ruture	chergy	Relateu	Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/ Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/ Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	64,720	7.98	8,110	27.00	2,397	5,250
February	57,440	7.94	7,234	26.46	2,171	6,626
March	59,280	8.22	7,212	35.43	1,673	4,434
April	62,480	7.67	8,146	31.08	2,010	2,271
May	60,880	8.88	6,856	38.78	1,570	2,081
June	34,640	9.96	3,478	44.34	781	90
July	83,280	11.10	7,503	48.76	1,708	44
August	68,800	10.28	6,693	41.39	1,662	19
September	63,920	8.65	7,390	39.03	1,638	16
October	67,760	8.07	8,397	36.83	1,840	19
November	62,160	6.87	9,048	28.50	2,181	1,287
December	61,360	7.34	8,360	27.25	2,252	5,547
Total	746,720	102.96		424.85		27,684
Average	62,227	8.58	7,369	35.40	1,824	2,307

7.1.2 Comments:

☐ Nitrification ☑ UV Disinfection

☐ Other:

☑ Mechanical Sludge Processing

☑ Variable Speed Drives

7.2 Energy Related Processes and Equipment
7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):
Aerobic Digestion
☐ Anaerobic Digestion
☐ Biological Phosphorus Removal
☐ Coarse Bubble Diffusers
☑ Dissolved O2 Monitoring and Aeration Control
☐ Effluent Pumping
☐ Fine Bubble Diffusers
☐ Influent Pumping

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Score (100 - Total Points Generated)	100
Section Grade	Α

Lakeland Sanitary District	Last Updated: 6/10/2022	Reporting For 2021
Sewage flows satellite system and large private users are monitoral necessary If Fat, oil and grease control Enforcement procedures for sewer use non-compliance Operation and Maintenance [NR 210.23 (4) (d)] Does your operation and maintenance program and equipment included Equipment and replacement part inventories Up-to-date sewer system map A management system (computer database and/or file system) for information for O&M activities, investigation and rehabilitation A description of routine operation and maintenance activities (see Capacity assessment program Basement back assessment and correction Regular O&M training Design and Performance Provisions [NR 210.23 (4) (e)]□□ What standards and procedures are established for the design, constrict the sewer collection system, including building sewers and intercepto property? State Plumbing Code, DNR NR 110 Standards and/or local Municipy Construction, Inspection, and Testing Others: Overflow Emergency Response Plan [NR 210.23 (4) (f)]□□ Does your emergency response capability include: Response order, timing and clean-up Public notification protocols Training Emergency operation protocols and implementation procedures Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]□□ Special Studies Last Year (check only those that apply): Infiltration/Inflow (I/I) Analysis Sewer System Evaluation Survey (SSES) Sewer Evaluation and Capacity Managment Plan (SECAP) Lift Station Evaluation Report Others:	de the following: r collection system question 2 below) ruction, and inspection sewers on private	ion of
2. Operation and Maintenance 2.1 Did your sanitary sewer collection system maintenance program in maintenance activities? Complete all that apply and indicate the amoun Cleaning 33.3 % of system/year Root removal 10 % of system/year Flow monitoring 100 % of system/year Smoke testing 0 % of system/year Sewer line televising 30 % of system/year Manhole		

33.3 % of system/year

inspections

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5.1 Was infiltration/inflow (I/I) significant in your community last year? • Yes
• No
If Yes, please describe:
5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year? • Yes
● No
If Yes, please describe:
5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:
no changes
5.4 What is being done to address infiltration/inflow in your collection system?
we inspect mains and fix problems, and we see them

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

Compliance Maintenance Annual Report Lakeland Sanitary District

Lakeland Sanitary District		Last Updated: 6/10/2022	Reporting For 2021
Resolution or Owner's	Statement		
Name of Governing Body or Owner:			
·	Lakeland Sanitary District 1		
Date of Resolution or			
Action Taken:	2022 06 14		
Description N	2022-06-14		
Resolution Number:	2022		
Date of Submittal:	2022		
A COTTO NIC COTT		*	
SECTIONS SET FORTH BY T	HE GOVERNING BODY OR OWNER rade A or B. Required for grade C,	RELATING TO SPECIFI	C CMAR
Influent Flow and Loadings:	Grade = A	D, or F):	
Effluent Quality: BOD: Grad	e = A		
Emacric Quality, BOD, Grad			
Effluent Quality TCC Cond			
Effluent Quality: TSS: Grade	3 = A		
Effluent Quality: Ammonia:	Grade = A		
Effluent Quality: Phosphorus	s: Grade = B		
Biosolids Quality and Manag	ement: Grade = A		
Staffing: Grade = A			
Starring: Grade = A			
Operator Certification: Grad	e = A		
Financial Management: Grad	le = A		
Collection Systems: Grade =			
(Regardless of grade, respon	nse required for Collection Systems if	SSOs were reported)	
	HE GOVERNING BODY OR OWNER	RELATING TO THE OVE	RALL
GRADE POINT AVERAGE A	ND ANY GENERAL COMMENTS		·
(Optional for G.P.A. greater t G.P.A. = 3.92	han or equal to 3.00, required for G.P	.A. less than 3.00)	
0.1.7.1 - 0.102			