

Annual Treatment Facility Review Report (Wasteload Assessment)

Reporting Year:

From: 1/1/19

To: 12/31/19

Design Parameters:

Max monthly design flow (dry):	66,000 gpd	Design Population Equivalent:	520
Max monthly design flow (wet):	73,000 gpd	Present Population Served:	480
Peak daily design flow:	73,000 gpd	Projected Population growth:	0.00%
Design Influent BOD loading:	70.5 lbs/day	Compliance with effluent permit limitation?	
Design Influent TSS loading:	18.9 lbs/day	Yes	No

Table 1. Influent Monthly Average Loading & Peak Daily Flow (From Monthly DMR)

Month	Avg flow (gpd)	Peak flow (gpd)	BOD (lbs/day)	TKN (lbs/day)
January	23745	33405		
February	53139	79376	190.0	24.0
March	52969	75487		
April	34931	54800		
May	29362	44990	26.7	2.4
June	27535	36280		
July	16040	37910		
August	33370	49536	35.0	15.0
September	33892	49568		
October	41758	66891		
November	42735	55752	70.0	39.0
December	32681	55439		

Table 2. Maximum Influent Monthly Average Loading (Highest Month)

	Month	Max Monthly Average Value	Design Capacity	% Design Capacity	Previous year Max Monthly Avg value	% Increase / Decrease
Dry Weather Flow (gpd)	October	41758	66000	63.27%	42184	-1.01%
Wet Weather Flow (gpd)	February	53139	73000	72.79%	53048	0.17%
Peak Flow (gpd)	February	79376	73000	** 108.73%	65486	21.21%
BOD (lbs/day)	February	190.0	70.5000	** 269.5%	64.5	194.57%
TKN Loading (lbs/day)	November	39.0	18.8000	** 207.45%	19.5	99.99%

* Flow or wasteload reached 85% of design capacity. ** Flow or wasteload reached or exceeded its design capacity

If actual flow or wasteload reaches 85% of design capacity for three consecutive months, the permittee shall submit a plan and schedule in accordance with their permit

Table 3. Maximum Monthly Average Data for the Last Three Years (For Plotting)

Year	Flow (gpd)	BOD (lbs/day)	TKN (lbs/day)
2019	53139	190	39
2018	58051	119	40
2017	75395	50	22
2016			
2015			
2014			
2013			
2012			

Estimated year when the design capacity is projected to be reached:

Comments:

Jon Fied Operator
Signature and Title

Design Capacity Graphs

Table 4. Max month Flow Data

Year	max month avg Flow (gpd)	design cap (gpd)
2009	81740	73000
2010	73962	73000
2011	75071	73000
2012	64703	73000
2013	83741	73000
2014	77955	73000
2015	101455	73000
2016	110210	73000
2017	107465	73000
2018	75315	73000
2019	79376	73000

Table 5. Max month BOD Data

Year	max month avg BOD (lbs/day)	design cap (lbs/day)
2009	321	70.5
2010	296	70.5
2011	218	70.5
2012	177	70.5
2013	89.9	70.5
2014	85.7	70.5
2015	72.99	70.5
2016	48.3	70.5
2017	50	70.5
2018	119	70.5
2019	190	71

Wasteload for gpd rev. 8-22-12

