

## Red Lake WWTF Flow Summary (May 2023)

Design Capacity (Based on 2 foot sludge storage and 4' operating range of 2' to 6' depths)

	Avg. SF@4' depth	Cu. Ft.	Gallons
Primary Cell 1:	435,483	1,741,932	13,029,651
Primary Cell 2:	435,483	1,741,932	13,029,651
Secondary Cell 1:	225,717	902,868	6,753,453
Secondary Cell 2:	250,800	1,003,200	7,503,936
<b>Totals:</b>		<b>5,389,932</b>	<b>40,316,691</b>

Given 210 day storage for geographic location north of US 10:

	Storage	Days	Daily Flow (gpd)
Design Daily Flow:	40,316,691	210	191,984

Actual Flow:	Daily Flow (gpd)
	103,788 (Based on April 2021 calibration number:
	8,100 Adding NE Utilities
	4,000 Adding RL #13
	2,500 Adding Charter School
	1,500 Adding Family Services
	4,000 Adding RL #14
	37,166 Estimated I&I (30%)
Estimate Total Flow:	161,054
Actual Flow/Design Flow:	83.89%