

Attachment B: Pilot Program Results and Operational Cost Savings

The following table summarizes the pilot program results. The program assessed the improvements to the aerobic digestion of sludge in the digester tanks, along with reductions in operating time and associated costs for the sludge dewatering system, and sludge hauling and disposal. Key items to note that during the 35 day test program include the following: (1) activated sludge was continuously wasted into the digester tanks, without any sludge removal and dewatering operations required; (2) the level of sludge in the test digester tanks decreased, while the amount of decant water removed from the tanks increased.

Pilot Program Results and Cost Savings For Dewatering and Sludge Hauling and Disposal Operations

Operation Category	Units	Existing Operations ¹	Projected Average Operations from Test Program	Projected Optimum Operations from Test Program
Average Interval Sludge Removal	Weeks	Daily ²	Every 21 Weeks	Every 25 Weeks
Sludge to Dewatering	Gallons per Year	4,369,123	716,273	606,398
Average Hours of Dewatering Operation	Hours per Year	1,214	199	168
Available Dewatering Capacity	Hours per Year	0	1015	1,046
	% savings	0%	84%	86%
Wet Tons of Sludge Cake Processed for Disposal	Per Year	1,429	242	205
Annual Average Dewatering and Sludge Disposal Operations Cost ^{3,4}	\$	\$82,377	\$13,059	\$10,834
Monthly Average Dewatering and Sludge Disposal Operations Cost ^{3,4}	\$	\$6,865	\$1,088	\$903
Estimated Average Monthly Dewatering and Sludge Disposal Cost Savings ³	\$	Not Applicable	\$5,777	\$5,962
Estimated Average Annual Dewatering	\$	Not Applicable	\$69,318	\$71,543

and Sludge Disposal Cost Savings				
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¹ Operating information provided by confidential customer.

² Presently the dewatering of sludge is required 5 days per week basis throughout the year.

³ Includes labor costs as provided by confidential customer.

⁴ Includes a yearly estimated energy cost savings of \$1,500.00 based on the reduced dewatering system operations. This value was calculated from system specifications (pump motors energy use) provided by confidential customer.