

Grand Valley Waste Plant

(06-Year Recommended Capital/Major Maintenance from 2024 to 2034)

The Ontario Clean Water Agency has identified the following capital projects/major maintenance for your review and approval.

Ref. No.	Scope of Work												Compliance	Health & Safety	Repair / Maintenance	Lifecycle Replacement	Improvement	Spare Parts Inventory	Approved by Client	Rationale for Project		
		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035										
9	Solenoid Valve Replacement	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000			x	x						Solenoid valves fail regularly due to the harsh environment. Belwood Electric to replace 1 per year on a rotational basis
10	HVAC Ductwork Repair/Replace	\$30,000												x	x	x	x					HVAC ductwork very corroded included large hole in fan ductwork. Alex to get trade to quote repair - very difficult access.
Total Estimate - Recommended Capital		\$68,000	\$28,000	\$27,500	\$15,000	\$34,000	\$17,500	\$17,500	\$51,500	\$20,000	\$17,500	\$23,500										
Grand Valley Waste plant UV and Filter Room																						
1	Parkson Filter Inspection and Media Analysis	\$2,500	\$70,000							\$5,000	\$5,000	\$5,000		x	x	x	x					Cell 2 was vac'd out Oct 3. Sand replaced Oct 2024. 3 remaining cells to be sent away for media analysis
2	Air Compressor	\$5,000						\$60,000						x	x	x	x					Ingersol to complete unit service/inspection and determine life cycle replacement requirement - get 3 quotes
3	UV Module Relay Board	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	x	x	x	x	x					Replacement cost for two relay board replacements (out of 16 total). Currently all are working.
4	UV Sensor Cable Bank A	\$4,000									\$4,500		x	x	x	x	x					Sensor cable for Bank B replaced in 2024. Bank A is experiencing some fluctuations and likely also nearing life-cycle replacement.
5	UV Lamp Replacement/ Ballast Replacement	\$5,000	\$5,000	\$5,000	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	x	x	x	x	x					Spare parts on hand - stock is good for 2024
6	UV Service - TROJAN	\$4,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	x	x	x	x	x					Contract price from Trojan to do 2 site visits/year
7	AquaBac	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500		x								Midge Fly control in filter room
8	HACH Spectrophotometer (Lab)	\$10,000											x			x	x					Current unit cannot be calibrated in 2025 and is original to plant. Requires replacement.
Total Estimate - Recommended Capital		\$44,000	\$96,500	\$26,500	\$29,000	\$279,000	\$29,000	\$89,000	\$29,000	\$34,000	\$34,000	\$38,500										
Grand Valley Waste Plant.																						
1	Natural Gas Heater Inspections	\$2,000												x			x	x				Alex to contact heating gas fitter for this - required by Intact insurance inspection
2	3" Decant Pump - Secondary Digester	\$10,000												x		x		x				Required to decant before sending to biosolids tank. Current set up not operator friendly. Back flows into clarifier if level is below @1.5m. Slip tube has to be lowered slowly as to not overwhelm on site pump station
Total Estimate - Recommended Capital		\$12,000																				
Grand Valley Out Buildings																						
	Clarifier Cleaning #1	\$4,000			\$4,000			\$4,000			\$4,000					x	x	x				Fosters to complete, removal of rags and inspection of equipment
8	Pump Inspection/ Maintenance Program	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	x		x	x	x					O&M - Quoted for \$4000 per day in 2024. Includes: <ul style="list-style-type: none"> Travel to your site with two techs Inspect the control panel Preform a ohms test on your pump Remove the pumps from the well Do a visual inspection on your pumps Check the cable for any cuts, rubbing and swelling Check the condition of the cable and flange face Inspect the impeller and wear plate Inspect the Glycol and fill if necessary Reinstall your pump and check to make sure the pump is seated. Send report with pictures & recommendation This will include: 2 pumps from each onsite pump station
9	Annual Air Filter Replacement (10 total)	\$550	\$550	\$550	\$550	\$600	\$600	\$600	\$600	\$600	\$600	\$600					x	x				Annual replacement to allow proper/efficient fuction of equipment
Total Estimate - Recommended Capital		\$8,550	\$28,750	\$37,250	\$14,250	\$22,800	\$17,800	\$24,800	\$33,300	\$22,300	\$22,300	\$18,300										
Total Capital Estimate		\$166,800	\$203,750	\$137,750	\$93,750	\$382,300	\$107,300	\$247,300	\$233,300	\$133,800	\$118,300	\$137,800										2025 Recommended Capital Presented Jenna Porter