

SSID – UPPER TANK SOLUTIONS	Year of Repair or Replacement		
as at AGM 2025	2040	2030	2030
Method	Use existing lower system tank, and NEW ON-GROUND UPPER SYSTEM tank; powered by BATTERIES & SOLAR	Keep lower tank, REPAIR bottom of upper tank	Use existing lower system tank, and install NEW TANK ON STEEL TOWER in 5 years
Purchase	On-ground 10,000 upper system steel tank + Booster Pump + fire pump + solar panels and batteries	Onsite REPAIR of bottom plate + engineer review	Elevated 10,000 steel tank
Disqualifiers	No disqualifiers, but relies on future advancements and affordability of battery and solar technology.	No disqualifier, but this is not a new tank, so will continue to age out, and will need replacement sooner than a new tank. This option relies on the longevity of the steel tower.	No disqualifier, but requires grandfathering of the steel tower. We have a verbal Yes (for now) from the Drinking Water Officer, (at inspection May 30 2025). This option relies on the longevity of the steel tower.
Reservoir (tank)	175,530	---	175,530
Switches and instrumentation	6,000	---	---
Piping	20,000	---	---
Excavation, grading, base layer, tree cutting, shrubbing	7,500	---	---
Engineering and/or Geotechnical report	15,000	---	---
Additional foundations and excavation	12000	---	---
Specialty crew for installation	---	67000	100,000
Guy wires added to upper tank	---	10000	10,000
RESERVOIR TOTALS	236,030	77,000	285,530
Building	50,000	---	---
Pumps	40,000	---	---
Mechanical	30,000	---	---
Electrical	30,000	---	---
Solar system for upper system	161,163	---	---
Spare parts	30,000	---	---
BOOSTER PUMP STATION TOTALS	341,163	---	---
Connection to existing supply & distribution	10,000	---	---
Fencing	5,000	---	---
Demolition and Removal of existing tank	10,000	---	10,000
Insurance and Bonding	17,766	2,310	8,566
OTHER EXPENSES TOTALS	42,766	7,700	18,566
SUBTOTALS	619,959	84,700	304,096
Engineering Design and Construction (12%)	74,395	10,164	36,492
Regulatory Approval Processes (3%)	18,599	---	---
Commissioning, Verification and Training	10,000	---	---
Contingency allowance (35%)	216,986	29,645	106,434
COST IN 2025	939,938	124,509	447,021
COST IN REPLACEMENT YEAR	1,464,393	144,340	518,220
Asset Renewal Levy increase per lot over 5 years with 3% inflation/yr	---	135	484
Asset Renewal Levy increase per lot over 15 years with 3% inflation/yr	456	---	---