

FAC 8413 WATER STORAGE, POTABLE

FY24 SUC: \$0.004 / GA
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Replace steel decking	30	380.00 S.F.	\$2,243.68	\$2,606.93	1.6667	1	1	\$2,606.93	\$2,606.93	
Replace old valve, non-drain, 8"	10	1.00 Ea.	\$7,181.32	\$8,295.69	5.0000	5	5	\$41,478.45	\$41,478.45	
Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP	0.5	1.00 Ea.	\$13.62	\$17.05	100.0000	100	100	\$1,705.22	\$1,705.22	
Remove old meter, install new water meter 8"	25	1.00 Ea.	\$13,363.94	\$15,498.63	2.0000	2	2	\$30,997.26	\$30,997.26	
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	2.00 Ea.	\$151.68	\$190.03	2.5000	2	2	\$380.07	\$380.07	
Replace safety switch, heavy duty 200 A	25	2.00 Ea.	\$4,525.55	\$5,312.91	2.0000	2	2	\$10,625.82	\$10,625.82	
Maintenance and repair of general wiring lightning protection system	1	0.20 M.L.F.	\$21.90	\$26.98	50.0000	50	50	\$1,348.87	\$1,348.87	
Maintenance and repair lightning ground rod	1	3.00 Ea.	\$276.85	\$345.96	50.0000	50	50	\$17,298.23	\$17,298.23	
Replace lamp exit light	5	1.00 Ea.	\$16.35	\$19.44	10.0000	10	10	\$194.39	\$194.39	
Maintenance and repair voice/data outlet	10	1.00 Ea.	\$54.32	\$67.84	5.0000	5	5	\$339.21	\$339.21	
Prepare & paint 250K gal. ground level water stor tank, 40' dia x 27' tall	10	0.65 Ea.	\$39,469.95	\$47,112.91	5.0000	5	5	\$235,564.56	\$235,564.56	
Prep & paint 250K gal elev water stg tank, 40' dia x 27' tall, 50' above gr	10	0.65 Ea.	\$70,722.73	\$85,212.72	5.0000	5	5	\$426,063.61	\$426,063.61	
			\$138,041.89	\$164,707.10				Average MR of Tank Types	\$64,050.22	
									MR Per Year	\$1,281.00
									Average PM of Tank Types	\$203.84
									Subtotal	\$1,484.84
									Total Per Unit	\$0.004

FAC 8413 WATER STORAGE, POTABLE

Release 2023 Qtr 4

Zip Code Prefix 222

Type PM

UM GA

Design Life 50

Average Size 358393.607344

SUC \$0.004

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Panelboard, 225 A and above, annualized	1.00	0.44	\$22.00	\$30.41	\$0.00	\$52.42	\$63.74	\$76.16
Storage tank, tower, annually	1.00	1.32	\$17.96	\$68.02	\$0.00	\$85.98	\$108.19	\$131.29
Storage tank, ground level, annually	1.00	0.72	\$19.76	\$37.60	\$0.00	\$57.37	\$70.62	\$84.87
Water flow meter, turbine, annualized	1.00	0.59	\$18.72	\$30.42	\$0.00	\$49.14	\$60.14	\$72.08
Reservoir controls, annualized	1.00	8.86	\$42.30	\$456.30	\$0.00	\$498.60	\$639.72	\$782.96
Vertical lift, over 1 H.P., annualized	1.00	1.46	\$46.46	\$75.63	\$0.00	\$122.09	\$149.43	\$179.08
Cathodic protection system, annualized	1.00	1.46	\$26.08	\$83.23	\$0.00	\$109.31	\$136.89	\$165.77
Circuit breaker, high voltage air, annualized	2.00	0.94	\$27.66	\$64.95	\$0.00	\$92.61	\$114.86	\$138.50
						\$1,067.53	\$1,343.59	\$203.84

FAC 8413 WATER STORAGE, POTABLE
Modeled Component List
CostWorks Release 2023 Qtr 4

B10 Superstructure		
Steel Decking		380.0 S.F.
G30 Site Mechanical Utilities		
Ground Level Water Storage Tank 250K Gallon		0.65 Ea.
Elevated Water Storage Tank 250K Gallon		0.65 Ea.
Storage Tank Tower		1.0 Each
Water Flow Meter, Turbine, annualized		1.0 Each
Vertical Lift, annualized		1.0 Each
G40 Site Electrical Utilities		
Cathodic Protection, annualized		1.0 Each

FAC 8413 WATER STORAGE, POTABLE
Sustainment by Year
CostWorks Release 2023 Qtr 4

