

FAC 2131 GRAVING DRY-DOCK

FY22 SUC: \$33.84 / SF
Source: Inflated from previous FY using ENR labor and material cost indices to measure actual inflation.
Original Source: Cost based on joint CNIC-NAVSEA estimate

Dry Dock

Average Dry Dock

Width	ft	138.43
Length	ft	810.95
Depth	ft	38.18
Volume	cu ft	4,417,958
Area	sq ft	112,000.00
Construction Material		Concrete
Capstans	ea	9.1
Drainage Pumps	ea	2.3
Dewatering Pumps	ea	2.9
Replacement Cost (UFC 3-701-09, FY10)	sq ft	\$730.42
Total Replacement Cost	ea	\$81,807,403
Expected Service Life	yr	150

Component (In order by cost)	Annual Cost (\$000)	Pct
Caisson	\$80,413	31.78%
Dewatering Pumps	\$49,199	19.45%
Peripheral Components/Miscellaneous	\$39,953	15.79%
Concrete DD Walls, Floors, Tunnels, Pumpw	\$26,930	10.64%
Sluice Gates and Operators	\$13,364	5.28%
Hydrostatic relief system - periodic repairs	\$11,719	4.63%
Concrete Walls (clean & seal)	\$10,413	4.12%
Drainage Pumps	\$7,738	3.06%
Capstans	\$6,032	2.38%
DD process water system	\$5,950	2.35%
Sump Pumps	\$1,299	0.51%

150 Year Cost Summary

Task Type	150 Year Total Cost	Annual Cost per GSFT	Annual Cost as % of Replacement
PM & Minor Repair	\$51,887,837	\$3.09	0.42%
Additional MR Items	\$51,887,837	\$3.09	0.42%
Renewal & Replacement	\$295,130,032	\$17.57	2.41%
Total	\$398,905,706	\$23.74	3.25%
		\$ 24.00	

(FY-10 Prices)

(Oct 2010 Prices with 1.1% inflation)

Component Relationship To Annual Costs

