

Port of Brookings Harbor: Fixed Fuel Dock-Sheet Pile Wall & Fuel Line Repair

**Engineer's Estimate (Preliminary)
2/11/2019**

Item No.	Item	Unit	Quantity	Unit Price	Total Price	Remarks
1	Final Project Design	LS	1	\$18,000	\$18,000	
2	Permitting	LS	1	\$15,000	\$15,000	Shared with Ice House, Pac-Choice, Old BC Fisheries Docks
3	Contractor Procurement	LS	1	\$3,000	\$3,000	Shared with Ice House, Pac-Choice, Old BC Fisheries Docks
4	Mobilization	LS	1	\$36,000	\$36,000	Shared with Ice House, Pac-Choice, Old BC Fisheries Docks
5	Erosion Control	LS	1	\$4,000	\$4,000	
6	Pollution Control Plan	LS	1	\$500	\$500	
7	Removal of Structures and Obstructions	LS	1	\$66,346	\$66,346	Anything man-made not removable as General Excavation, plus sloughed out fill and other soil outside limits of Gen. Exc.
8	Relocate Existing Outbuildings	LS	1	\$11,538	\$11,538	
9	General Excavation	Cy	700	\$5	\$3,500	Excavation to bottom of working pad
10	Stone Embankment	Cy	721	\$50	\$36,058	Clean 1 to 4 inch backfill below water
11	Cement Treated Soil	Cy	1125	\$7	\$7,875	Deadman CTS & upper 2-foot section only
12	Portland Cement	Ton	93	\$150	\$14,019	5% of CTS
13	Nonwoven Filter Geotextile	Sy	346	\$1	\$346	
14	Shoring	Sy	35	\$400	\$13,846	
15	Structure Excavation	Cy	35	\$15	\$519	Additional excavation for deadman below Gen. Exc.
16	Selected General Backfill	Cy	773	\$8	\$6,185	Backfill behind deadmen and below CTS between sheet pile wall and deadman CTS, using on-site soils. Steel cost & \$25,000 shipping plus 15% mark-up & installation @
17	Furnish and Drive Steel Sheet Piling	Ft. ²	7308	\$70	\$511,592	\$2700/pile
18	Furnish and Install Steel Tieback Rods	Ft	1826	\$32	\$58,431	Includes couplers, sleeves, grout, plates, etc.
19	Reinforcement	Lbs.	4269	\$1	\$4,696	
20	Coated Reinforcement	Lbs.	2596	\$1	\$3,245	
21	General Structural Concrete, Class 3300	Cy	118	\$500	\$59,135	Includes waler, waler bolts, brackets, skaffolding, welding, plates, installation, etc..
22	Steel Channel Walers	Lbs.	9040	\$7	\$58,763	
23	Steel Ladders	Lbs.	404	\$10	\$4,038	All stainless steel.
24	Wharf Fenders	Ft.	297	\$20	\$5,942	
25	Aggregate Base	Cy	288	\$45	\$12,981	12" layer below CTS and sand fill.
26	Level 3, 1/2 Inch Dense MHMAC Mixture	Ton	72	\$150	\$10,817	
27	Remove and Reinstall Illumination	LS	1	\$3,462	\$3,462	
28	Furnish and Install Dockside Hoist	LS	1	\$15,000	\$15,000	
29	Backfill Former pad & walkway areas	Cy	270	\$5	\$1,350	
30	Fuel Line Update & Replacement	LF	250	\$128	\$32,000	Includes two sumps, installation
31	Demolish Old Fuel Dock	LS	1	\$7,000	\$7,000	Includes disposal
Subtotal of Biddable Items:					\$1,025,185	
Contingencies @ 10%:					\$102,500	
Construction Engineering @ 15%:					\$153,800	
Construction Total:					\$1,281,485	