

Project Overview:

Lutak Dock is a deep water port originally constructed in 1953. Modifications, repairs and partial replacements to the dock have been incrementally occurring since 2003 in order to maintain the dock's working condition. Through this project, the Haines Borough is considering options for replacing or refurbishing the Lutak Dock with the purpose of:

- Securing the integrity of the existing facility;
- Maining existing working area and functionality;
- Maximizing life expectancy; and
- Providing a design that allows for expansion of the facility in the event of future demand.

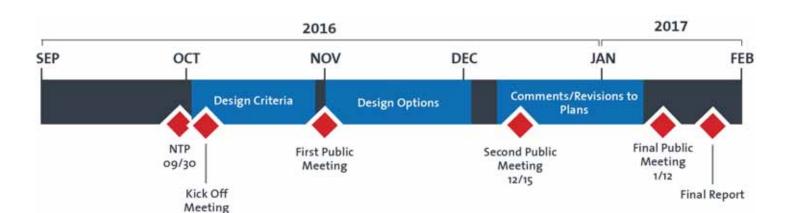
Alternative 1A & 1B:

Encapsulation

Encapsulating the dock structure with new sheet pile walls, keeping the existing dock size and fuctionality. Alternative 2: Platform Dock Replacing the existing dock with a like size and capacity facility. Alternative 3: Dolphins & Transfer Bridge
Reinforcing the existing dock using a combined sheet pile bulkhead and pipe pile

supported platform dock.

A summary table of the alternatives analysis is provided on the back of this sheet.



Visit the project website: www.LutakDock.com

For more information contact:

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Table 1: Lutak Dock Replacement, Alternatives Analysis Summary

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Capital Cost	• \$37,300,000	• \$31,900,000	• \$61,000,000	• \$24,100,000
Level of Service	• High	• High	• High	• Medium
Cons	 Pile driving risk during construction Encapsulates existing sheets and poor quality fill 	 Pile driving risk during construction Encapsulates existing sheets and poor quality fill Does not reclaim uplands at cells 5, 6, and 7 	Highest cost	 Lose approximately 1.7 acres of uplands Lose ability to use pass pass for cargo operations Lose ability to side load over dock face
Pros	 Efficient and cost effective Maintains existing footprint Accommodates current users including pass pass cargo operations Reclaim about ½ acre uplands at cells 5, 6, and 7 	Efficient and cost effective Maintains existing footprint Accommodates current users including pass pass cargo operations	All new facilities Higher level of seismic performance Maintains existing footprint and reclaims ¼ acre uplands at cells 5, 6, and 7 Accommodates current users including pass pass cargo operations	Least cost All new facilities
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Description	Encapsulate using Modified Diaphragm	Encapsulate using Modified Diaphragm	Platform Dock (Steel Pile- Supported Concrete Deck)	Dolphins and Transfer Bridge
No.	1A	18	2	m