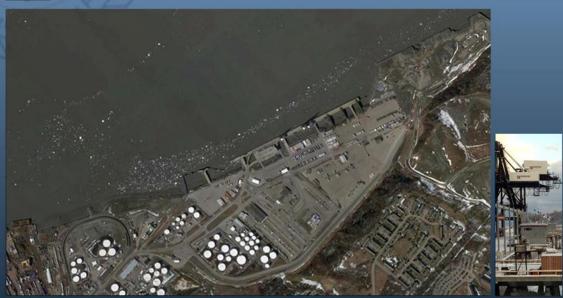


Concept Plan

Anchorage Port Modernization Project





Assembly Briefing November 21, 2014







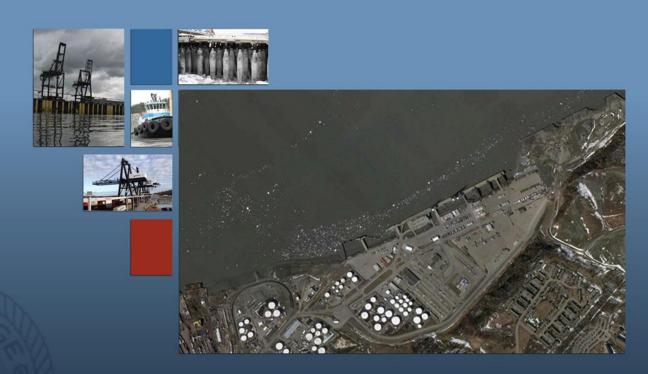






Presentation Outline

- Recap of Concept Planning Charrette
- Overview of the 3 Concept Plans using visual simulations
- Results of Concept Evaluation Committee
- Attributes of the Selected Concept
- Project Critical Path



Concept Planning Charrette













Concept Planning Charrette Goals

- Replace Terminals 2 and 3 while minimizing investment in the North Extension
- Provide new, modern, safe and efficient port facilities
- Focus on existing business
- Plan should provide flexibility for future growth to:
 - Support larger vessels
 - Allow for deeper draft (-45 ft. berth depth)













Organizations Represented

- Municipality of Anchorage (MOA)
 - Geotechnical Advisory Commission (GAC)
- Port of Anchorage (POA)
- Totem Ocean Trailer Express (TOTE)
- Horizon Lines
- ABI Cement
- Southwest Alaska Pilots Association
- Cook Inlet Tug & Barge
- US Army Corps of Engineers Alaska District (USACE)
- Alaska Railroad Corporation (ARRC)
- CH2M HILL/HDR Project Team



Charrette Concepts



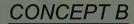
S1 WOULD SERVE CEMENT OPERATIONS AND ASSIST IN PROJECT PHASING.

CH2MHILL



GENERAL NOTES:

- THE EXISTING SHEET PILE WALLS, TAIL WALLS, ROCK STABILIZED SLOPES, EARTH EMBANKMENT AND OTHER FEATURES ARE NOT SHOWN ON GENERAL SITE LAYOUT FOR CLARITY.
- 2. ADMINISTRATION BUILDING RELOCATED TO PORT UPLANDS, LOCATION NOT SHOWN.
- THIS CONCEPT CAN BE COMBINED WITH OPTION S1. THE NEW TERMINAL CONSTRUCTED WITH OPTION S1 WOULD SERVE CEMENT OPERATIONS AND ASSIST IN PROJECT PHASING.







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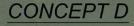
CONCEPT C





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 - THIS CONCEPT INCLUDES OPTION S1. THE NEW TERMINAL CONSTRUCTED WITH OPTION S1 WOULD SERVE CEMENT OPERATIONS AND ASSIST IN PROJECT PHASING.











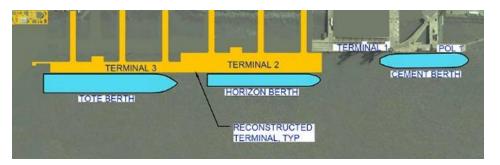


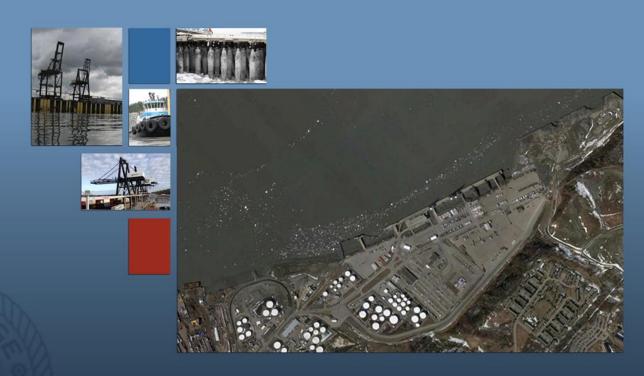




Charrette Findings

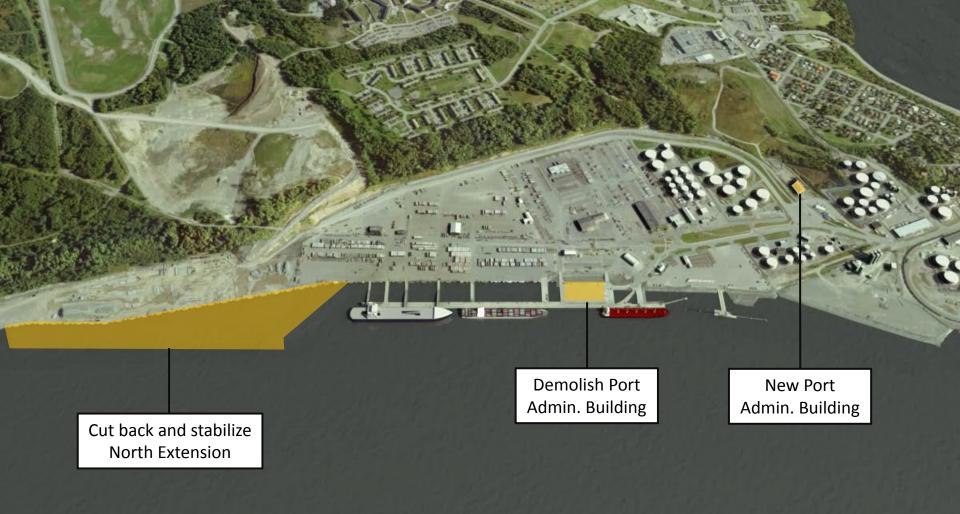
- Concept A, C and D were carried forward
- Concept B was eliminated:
 - Two different berth lines would cause:
 - Ice build up between Terminals 1 and 2
 - Difficulty dredging Terminal 1



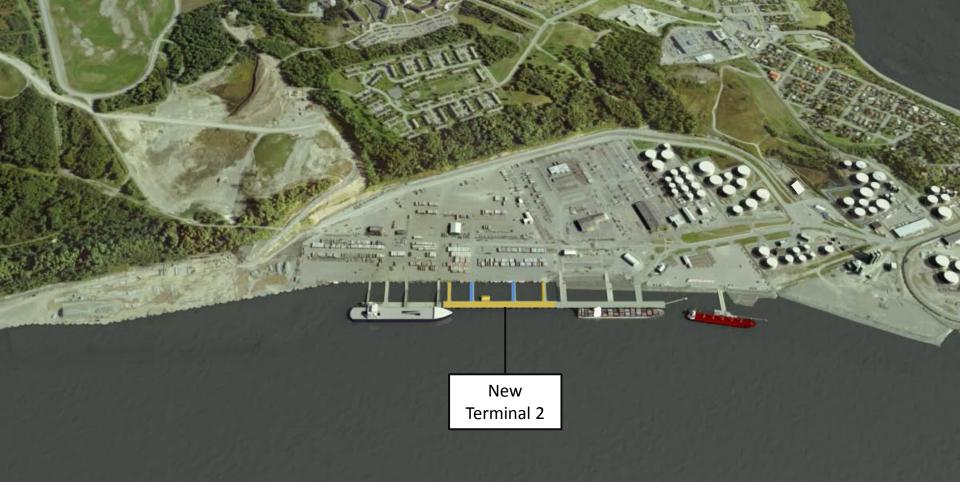


Concept A - Visualizations









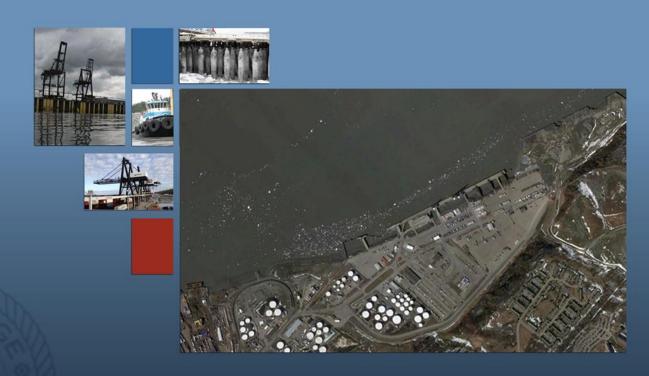


17



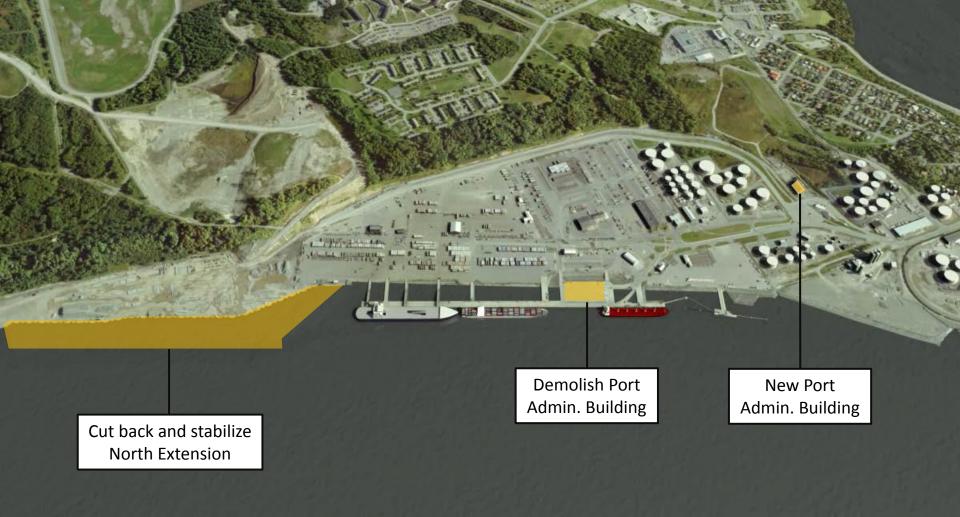
Concept A – Complete





Concept C - Visualizations

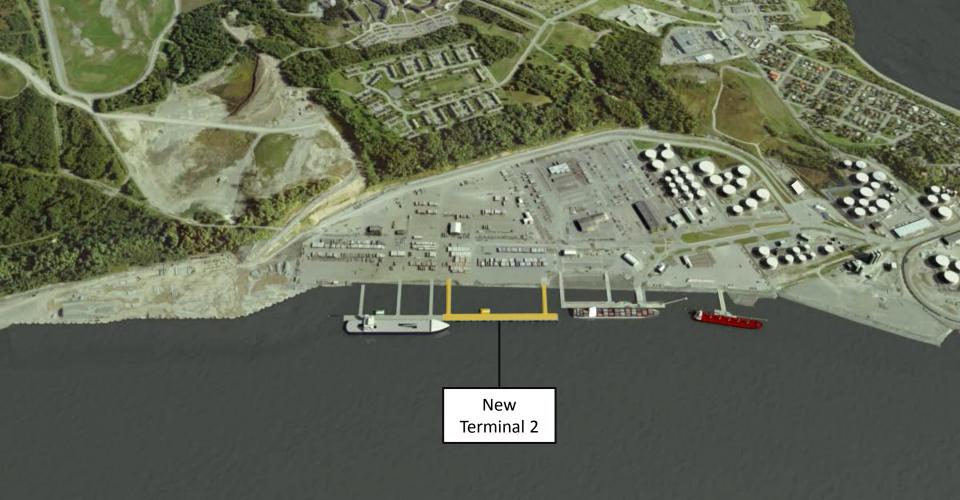




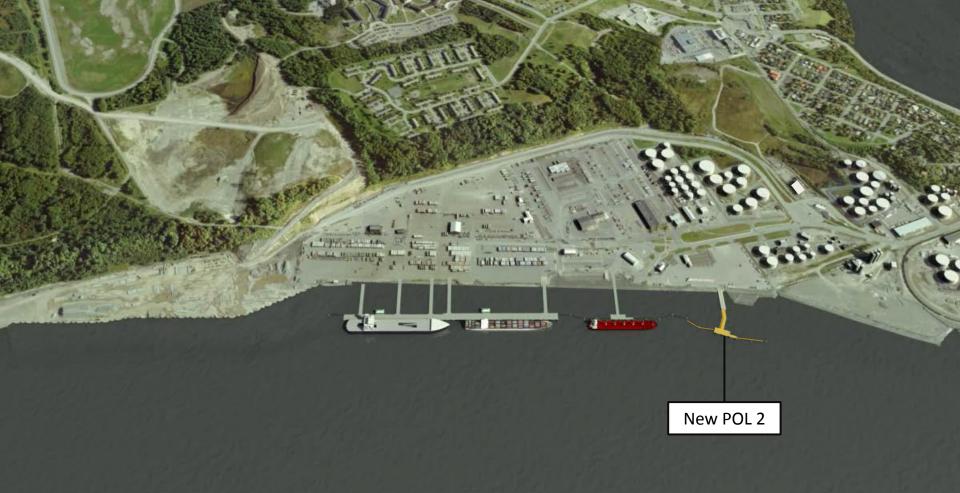








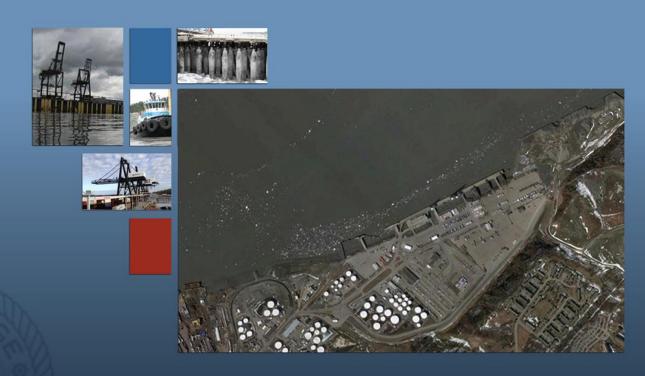






Concept C – Complete

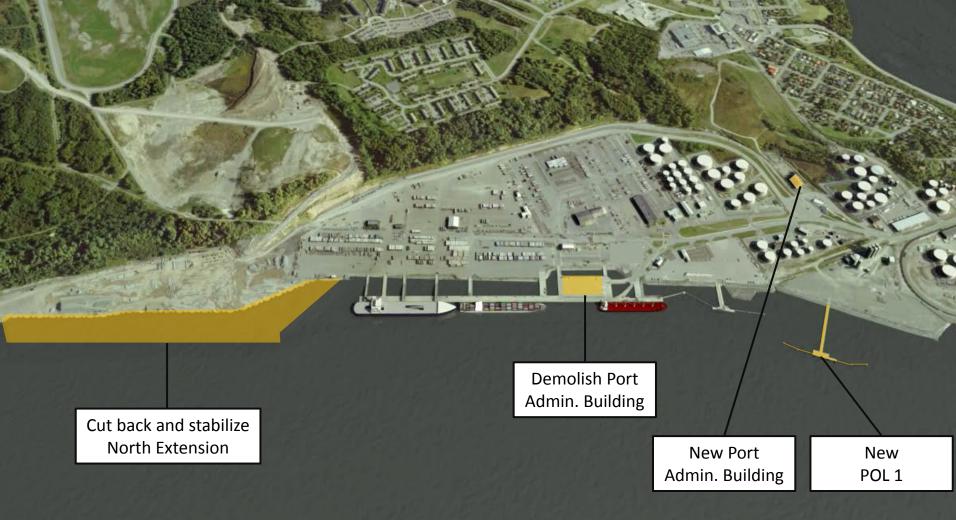




Concept D - Visualizations



Concept D – Existing











Concept D – Phase 5

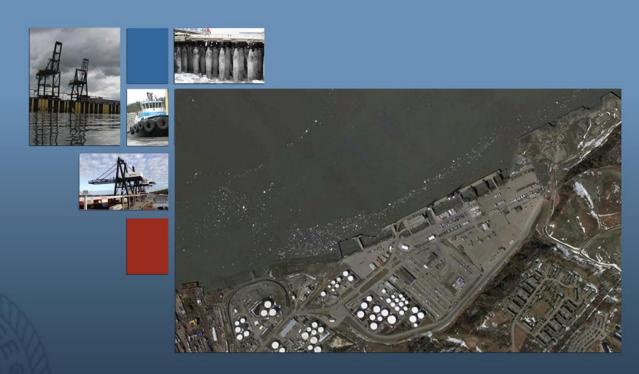


Concept D – Phase 6



Concept D – Complete





Results of Concept Evaluation Committee













Qualitative Scoring of Performance Objectives

- The Concept Evaluation Committee included members from the MOA, POA, TOTE, Horizon, and Southwest Alaska Pilots Association.
- To score the performance objectives, the qualitative scoring factors were defined as:
 - 1.0 Outstanding
 - 0.8 Excellent
 - 0.6 Good
 - 0.4 Fair
 - 0.2 Poor
 - 0.0 Unsatisfactory

Selection Criteria and Selected Option

	election ente	eria aria serece	ca o _l		, , ,				
				Co	ncept A	C	oncept C	Co	oncept D
					Weighted		Weighted		Weighted
No.	Objective	Measure	Weight	Score	Score	Score	Score	Score	Score
Upfro	ont Cost								
1	Minimize upfront cost	Lowest upfront cost	25	0.2	5	0.4	10	0.6	15
Life-C	Cycle Cost								
2	Minimize life-cycle costs	Lowest calculated life-cycle cost	28	0.2	5.6	0.6	16.8	0.6	16.8
Main	tenance Dredging								
3	Minimize future maintenance dredging	Least amount of dredging	17	0.2	3.4	0.6	10.2	0.6	10.2
Expa	ndability								
4	Provide for expansion in future phases	Any restrictions created by the Project that hinder expansion	3	0.4	1.2	0.4	1.2	0.4	1.2
Impa	ct to Existing Customer's Long-	Term Costs							
5	Provide the least long-term cost impacts to existing tenants	Operational cost of increased transit times, berthing, and line handling	19	0.4	7.6	0.6	11.4	0.4	7.6
Disru	ption During Construction								
6	Minimize amount of additional cost to operators	Total of additional operating cost	8	0.4	3.2	0.2	1.6	0.6	4.8

100

during construction

NOTES:

during construction

Total Weighted Score

51.2

26













Draft Total Project Cost Estimates

	60 Percent Confidence (\$M)	80 Percent Confidence (\$M)	100 Percent Confidence (\$M)			
Concept A	\$527	\$555	\$693			
Concept C	\$506	\$532	\$713			
Concept D	\$461	\$485	\$628			
\$130M Available + \$355M Additional						

Factors Affecting Cost

- Assumes construction starts in 2016, with a construction midpoint of 2019
- Assumes full funding available at the start of construction
- Further studies and additional design to be conducted
 - Update to Site Specific Seismic Study
 - Evaluation of seismic performance level recommended by GAC
 - Test Pile Program
- These cost estimates are not the final cost estimate for the APMP



Concept D Attributes













Concept D Attributes

- Has the lowest upfront and lifecycle costs
- Minimizes future maintenance dredging
- Allows for future deeper draft (-45 ft. berth depth) by moving off shore
- No construction of interim berths
- Shortest construction period
- Least amount of tenant moves during construction
- Maintains 2 POL berths for majority of construction
- Provides additional acreage for tenants

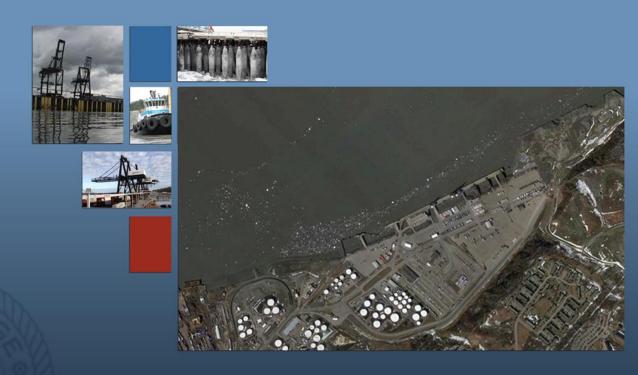


PROPOSED LEASE AREAS - CONCEPT D

TOTE LEASE AREA					
EXISTING (ACRES)	PROPOSED (ACRES)				
39.06	43.74				

HORIZON LEASE AREA						
EXISTING (ACRES)	PROPOSED (ACRES)					
42.71	44.73					





Project Critical Path













Project Critical Path with Available Funding

- Completion of the Concept Design Study (Dec. 2014)
- Test Pile Program (Fall 2015)
- Concept D 35% Design (Jan. to May 2015)
- Permitting for Marine Structures (March 2015 to Nov. 2016)
- Procure Building Design-Build (March to Aug. 2015)
- Procure CM/GC for North Extension (July to Dec. 2015)
- Procure two design teams for D/B/B of Marine Structures
 - POL/Cement Terminals (June to Nov. 2015)
 - Container Terminals (Sept. 2015 to Feb. 2016)



Concept D - Existing

