Item No.

7a supp

Meeting Date: March 28, 2017

Aviation Biofuels Program Update

Stephanie Meyn
Climate Protection Program
Manager

Port
of Seattle

Aviation Biofuel Program Expansion

- Will help us meet our Century Agenda goal to reduce aircraft-related emissions by 25%
- 2008-2014 Port is early supporter of research & development, and charting a path to commercial scale biofuels
- 2015 Port shifts to a Market Development Role
 - Exploring:
 - How to support fuel integration & infrastructure
 - · How to help with incremental cost of fuel
 - How to help incentivize biofuel production in WA



Exploring Port of Seattle's Role in Developing Aviation Biofuels Market

Infrastructure Integration

 Airport role in providing receiving, storing & blending facilities for biofuel at Sea-Tac

Incremental Cost

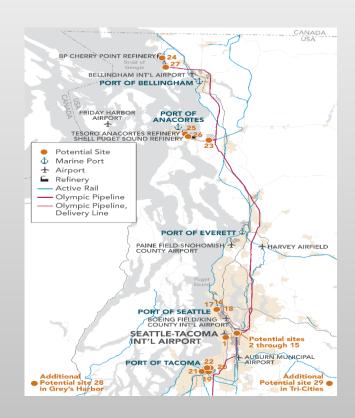
- Airport role in covering incremental cost of biofuel
- Airport role in developing funding programs (corporations, passengers, airlines)

Attracting Biofuel Production Facilities

- Airport role in financing
- Airport role in developing business case for near-term production

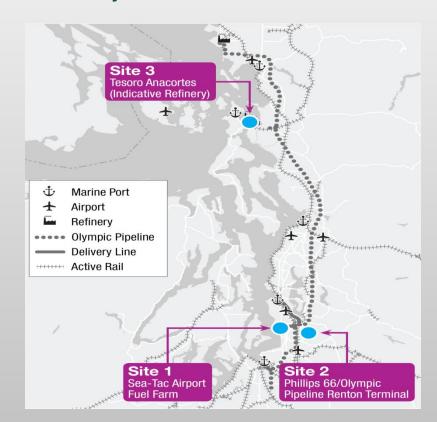
Infrastructure Study Approach

- 29 properties evaluated
 - Sites ~ 2 acres
 - Access to modes of delivery
 - Olympic Pipeline
 - Rail
 - Barge or vessel
 - Truck
 - Supply integration with Sea-Tac's hydrant systems



Selection of Top 3 Properties

- Properties
 - Scored based on Evaluation
 Criteria
- Conceptual Layouts
- Preliminary Opinion of Cost
 - Sea-Tac Int'l Airport \$13.95 M
 - Renton Terminal \$82.68 M
 - North-end Refinery \$104.16 M



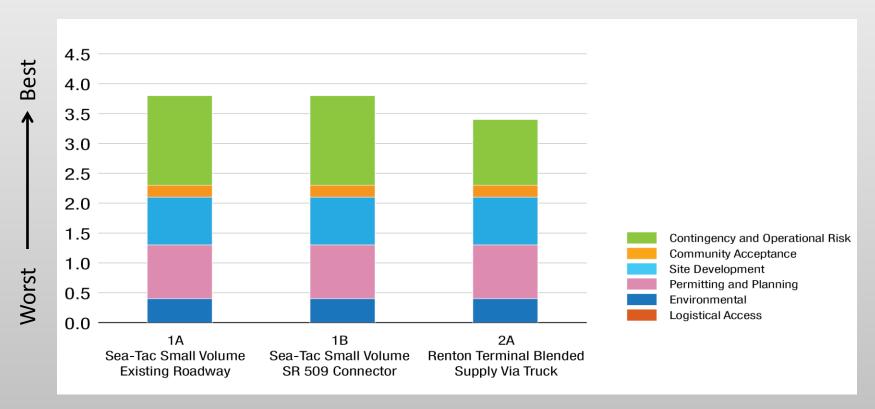
Evaluation & Scoring of Properties

 For each short-term and long-term potential site, scores from 1 (undesirable) through 5 (desirable) awarded for criteria in the following categories:

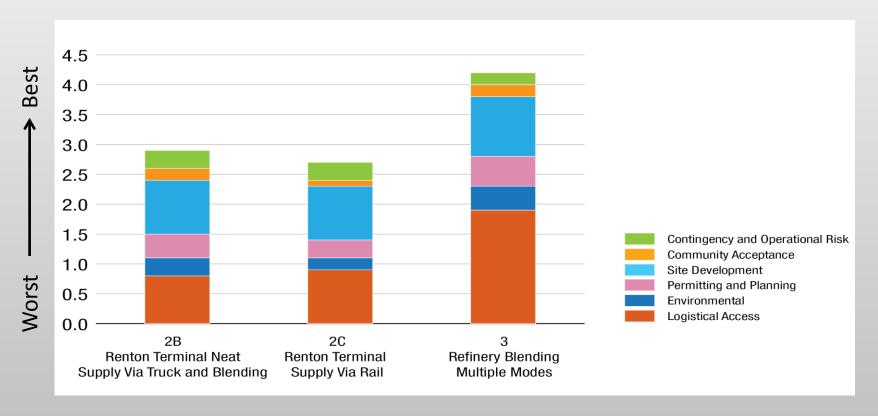


- Each category was then given a weight out of 100%.
 - For example, for the long-term sites, logistical access was weighted 40%, site development & costs 25%, permitting and planning 10%, etc. to add up to 100.

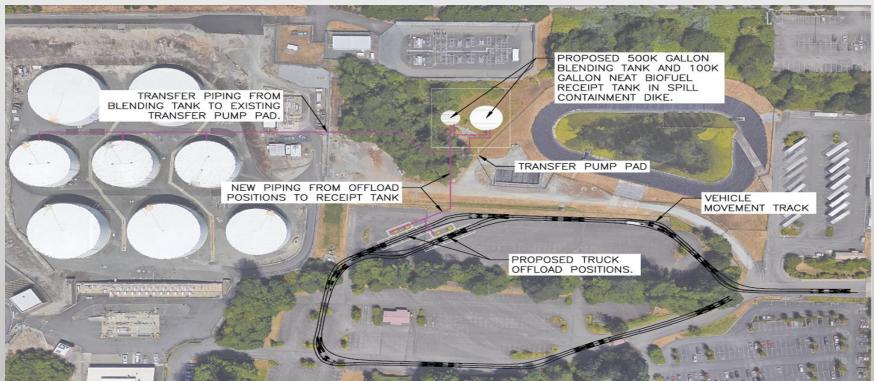
Scorecard Results for Short-Term Options



Scorecard Results for Long-Term Options



Sea-Tac Fuel Farm Aviation Biofuel Infrastructure



Next Steps

- Integrate Sea-Tac Fuel Farm updates into Sustainable Airport Master Plan
- Publish Financing Mechanisms Report (April 2017)
- Develop Business Case for Near-term Lower-Volume in-state production (December 2017)
- Continue to support on-going efforts (ASCENT, NARA)