


**VAFFC** 

# Vancouver Airport Fuel Delivery Project


City of Richmond  
Public Works and Transportation Committee

February 18, 2009



**VAFFC BACKGROUND** 

- Not-for-profit organization
- Most airlines at YVR are members of VAFFC
- VAFFC owns and operates the fuel system at YVR
- VAFFC has operated for over 20 years



PIPELINE HYDRANT SYSTEM

EXISTING STORAGE FACILITY

EXPANDED STORAGE FACILITY (UNDER CONSTRUCTION)

MAINTENANCE FACILITY

OPERATIONS FACILITY

YVR

## FUEL SYSTEM AT YVR



### AVIATION FUEL (JET-A)

- A clear, straw-coloured liquid that flows like water
- Kerosene-based, like diesel
- Low volatility, safe to handle
- All major commercial airlines use Jet-A aviation fuel

### SYSTEM

- Fuel is stored in above-ground tanks
- Fuel is pumped from the tanks through underground pipeline to the airport terminal
- Fuel is transferred from underground pipeline to aircraft by small trucks

## FUEL DELIVERY PROJECT



### PURPOSE

- To serve long-term growth at YVR
- Improve reliability of fuel supply for the airlines
- To reflect changes in the supply market
- Provide a sustainable solution

### BENEFITS

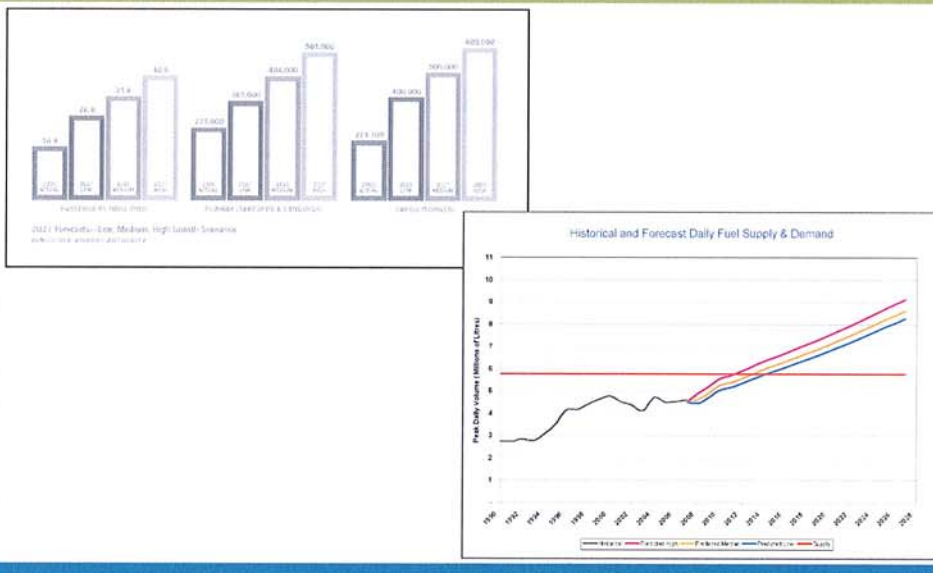
- Support local, regional and wider economic growth
- Remove tanker trucks from local roads
- Reduce emissions and increase safety on roads
- State-of-the-art system will serve YVR for the long term
- Safer, more reliable, smaller environmental footprint

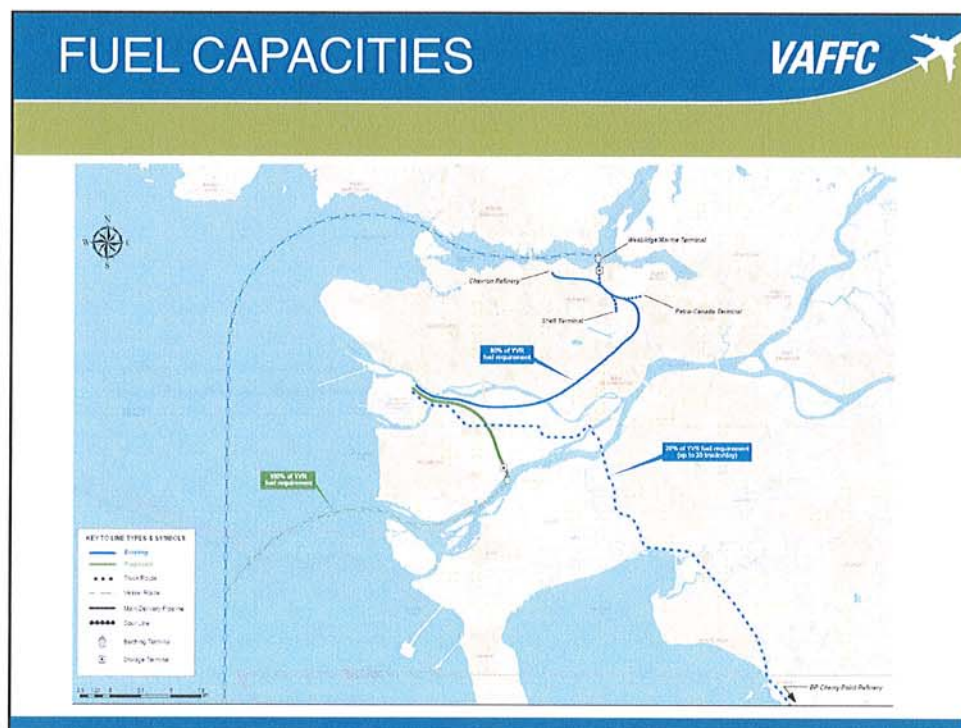
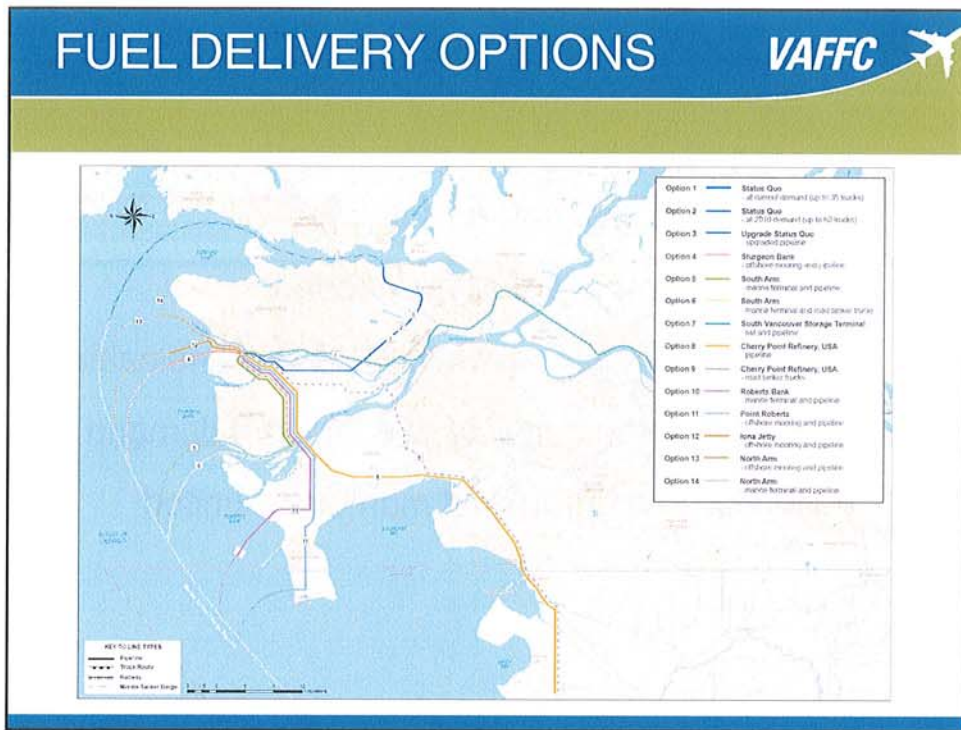
## WHY THE SYSTEM IS NEEDED



- Existing infrastructure is aging
- More delivery capacity is needed
- Increased tanker truck traffic is unsustainable
- Local refining capacity cannot meet demand
- Access to international markets is limited

## YVR FUEL REQUIREMENTS

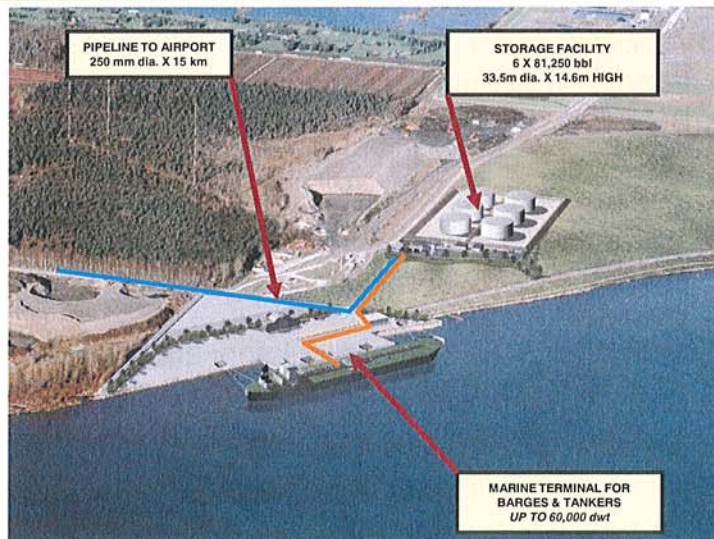




## EXISTING MARINE TERMINAL



## PROPOSED DEVELOPMENT



## PROJECT STATUS



### OVER THE PAST 6 MONTHS

- Community stakeholder consultations
- First Nations engagement
  - Initial discussions with 9 First Nations
- Applied to Opt-in to BC Environmental Assessment Process
- Project accepted for BCEAA review Feb 10, 2009
- Awaiting formation of EA working group(s) to start review process


## BCEAA PROCESS




### OVER THE NEXT FEW MONTHS

- Formation of Working Group(s)
- BC EAO will contact...
  - City of Richmond
  - Port Metro Vancouver
  - Vancouver Airport Authority
  - Oil & Gas Commission
  - First Nations
  - Provincial & Federal regulatory agencies

...to develop working group(s) and Terms of Reference for the project's environmental assessment

PROJECT TIMELINE		VAFFC 
2001- 2004	OPTION ANALYSIS & SCREENING ASSESSMENT	
2005	YVR MASTER PLAN SUBMISSION	
2006	DETAILED OPTION ANALYSIS AND PROPERTY SEARCH	
2007	PROPERTY PURCHASE CONCEPT DESIGN & EA PROCESS REVIEW	
2008	DISCUSSIONS WITH REGULATORY AGENCIES BACKGROUND DOCUMENT & PDR DEVELOPMENT INITIATE FIRST NATIONS CONSULTATION	
2009	BCEAA OPT-IN INFORMATION SESSIONS CONTINUED FIRST NATIONS CONSULTATIONS ENVIRONMENTAL STUDIES PUBLIC CONSULTATIONS UNDER EAO PROCESS APPROVAL APPLICATIONS BCEAA APPLICATION REVIEW & RECOMMENDATIONS DETAILED DESIGN	
2011-12	EA CERTIFICATE AND PERMITS PROPOSED CONSTRUCTION	

VANCOUVER AIRPORT FUEL DELIVERY PROJECT	VAFFC 
<p><b>VAFFC strives for:</b></p> <ul style="list-style-type: none"><li>• <i>A sustainable fuel system</i></li><li>• <i>A system that supports regional growth</i></li><li>• <i>A cooperative partnership with Richmond</i></li><li>• <i>Feedback and advice for success</i></li></ul> <p><b>Questions?</b></p>	