#### **Westshore Fact Sheet**

### **Proposed Terminals:**

Royal Bay, Esquimalt, and Ships Point

### **Vessel Design:**

Damen Fast Ferry 3209, 294 passengers, diesel, 25 knots, significant wave height of 2.5m

# Weather Delays/Cancellations:

Based on 25 years of data, estimated 0.2% of the time - consistent with current BCF weather cancellation stats

Demand Forecast: Based on CRD transportation model, no surveys conducted

2021 - 3,100 riders @ \$2.50 = \$2.59 million revenue

2038 – 4,000 riders @ \$2.50 = \$3.34 million revenue

#### **Annual Growth Rate:**

Estimated to be 2.7% (Royal Bay/Ships Point) and 0.8% (Royal Bay/Esquimalt)

### **Capital Costs:**

Royal Bay - \$27,900,000 (\$15.2 marine, \$12.7 upland)

Esquimalt - \$10,000,000 (\$9.5 marine, \$.5 upland)

Ship Point - \$3,700,000 (\$3.2 marine, \$.5 upland)

#### **Operational Costs:**

Crewing – 4 people per vessel with 3 crews for each vessel = \$7M/year

Fuel – Assuming diesel fuel at 0.952/I = \$3.2M/year

#### **Financial Business Case:**

Base case shows yearly losses of 8M/year and NPV over 40 years of negative \$230M

#### **Sensitivity Cases Include:**

Considering each proposed route in isolation Reduced vessel staffing Reduced vessels and frequency Reduced service hours Alternative fuels

Raising fare prices

When all sensitivity measures are used in combination the initial yearly losses are \$280k/year until demand and revenue growth turns the service cash positive around 2026. NPV for the 40-year period is negative \$50M.

## **Alternative Scenario Considered:**

2 ships

30 minute intervals - assuming we can travel through the inner harbour at 10 knots, which we will be discussing with the harbour master very soon

\$5.75 fare

2x8 hour shifts (16 hour day)

7 days a week

Smaller vessel with 200 person capacity so we can operate with 2 crew

As the ferry service is faster, it becomes more appealing to commuters and the demand numbers are increased fairly significantly, meaning revenue is considerably higher.

We have assumed the vessel purchase price remains the same.

We are assuming that an LNG version becomes available.

The fuel costs are about three times more than the previous best case Option 2C, because it is running a full day of 16hrs rather than 8hrs, faster cruising speed, more trips and less down-time at the berth.

							Demand Growth										
Option	Rof.	Route	Headway (mins)	Schedule	No. of Ferries	No. of Crews / Ferry	Crew Size	Fuel Type	Fuel Consumption/yr/ vessel (ttres/DLE)	Fare	2021 - 2038	2039 - 2059	Daily Ridership (2021)	Annual Revenue (2021)	Total Project Initial Capital Cost (2020)	Net Annual Cash Flow (2021)	Net Present Value
Full Day Full Fleet	1a	RB-SP	20	Full day (16 hours)	4	3	4	Diesel	686,400	\$ 2.50	2.65%	1.99%	2834	\$ 2,384,376	\$ 97,975,966	-S 8.395.638	8 -\$ 227,370,553
		RB-ESQ	60	Full day (15 hours)	1	3	4	Diesel	571,700	\$ 2.50	0.79%	0.59%	243	\$ 209,388		-\$ 0,393,030	
	2a	RB-SP	20	Full day (16 hours)	4	3	4	Diesel	686,400	\$ 2.50	2.65%	1.99%	3031	\$ 2,550,463	\$ 76,658,353	-\$ 6,373,802	-\$ 169,925,435
	3a	RB-ESQ	60	Full day (15 hours)	1	3	4	Diesel	571,700	\$ 2.50	0.79%	0.59%	318	\$ 273,734	\$ 49,922,088	-\$ 2,414,425	-\$ 92,730,472
Full Day Reduced Fleet	1b	RB-SP	40	Full day (16 hours)	2	3	4	Diesel	686,400	\$ 2.50	2.78%	2.08%	2318	\$ 1,947,609	\$ 74,072,057	-\$ 4,693,353	-\$ 141,835,628
		RB-ESQ	60	Full day (15 hours)	1	3	4	Diesel	571,700	\$ 2.50	0.79%	0.59%	247	\$ 213,434			
	2b	RB-SP	40	Full day (16 hours)	2	3	4	Diesel	686,400	\$ 2.50	2.78%	2.08%	2427	\$ 2,038,952	\$ 52,754,444	-\$ 2,750,307	-\$ 86,232,495
	3b	RB-ESQ	60	Full day (15 hours)	1	3	4	Diesel	571,700	\$ 2.50	0.79%	0.59%	318	\$ 273,734	As per 3a		
Reduced Day Reduced Fleet	10	RB-SP	40	4 hrs AM & 4 hrs PM	2	2	2	LNG	343,200	\$ 5.75	3.25%	2.44%	710	\$ 1,359,123	\$ 82,069,007	-S 1 133 58	7 -\$ 91,682,566
		RB-ESQ	60	4 hrs AM & 4 hrs PM	1	2	2	LNG	228,700	\$ 5.75	1.43%	1.07%	68	\$ 133,283		-\$ 1,133,587	
	20	RB-SP	40	4 hrs AM & 4 hrs PM	2	2	2	LNG	343,200	\$ 5.75	3.25%	2.44%	866	\$ 1,656,833	\$ 58,085,744	-\$ 277,563	-\$ 49,742,702
	30	RB-ESQ	60	4 hrs AM & 4 hrs PM	1	2	2	LNG	228,700	\$ 5.75	1.43%	1.07%	177	\$ 346,731	\$ 52,587,738	-\$ 967,888	-\$ 70,231,787
	4	RB-SP	30	Full day (16 hours)	2	3	2	LNG	1,092,080	\$ 5.75	2.91%	2.18%	1558	\$ 3,301,561	\$ 58,085,744	\$ 173,874	-\$ 30,750,360

### If the project is to move forward:

Investigate financing and joint-funding options
Investigate viability of lower crew levels
Investigate whether smaller vessels could service the route
Investigate whether LNG could work with proposed vessels
Geotechnical investigation at Royal Bay
Assessment of off-peak demand and survey of potential users
Coastal modelling to assess impacts near Royal Bay
Further First Nations consultation
Further stakeholder consultation