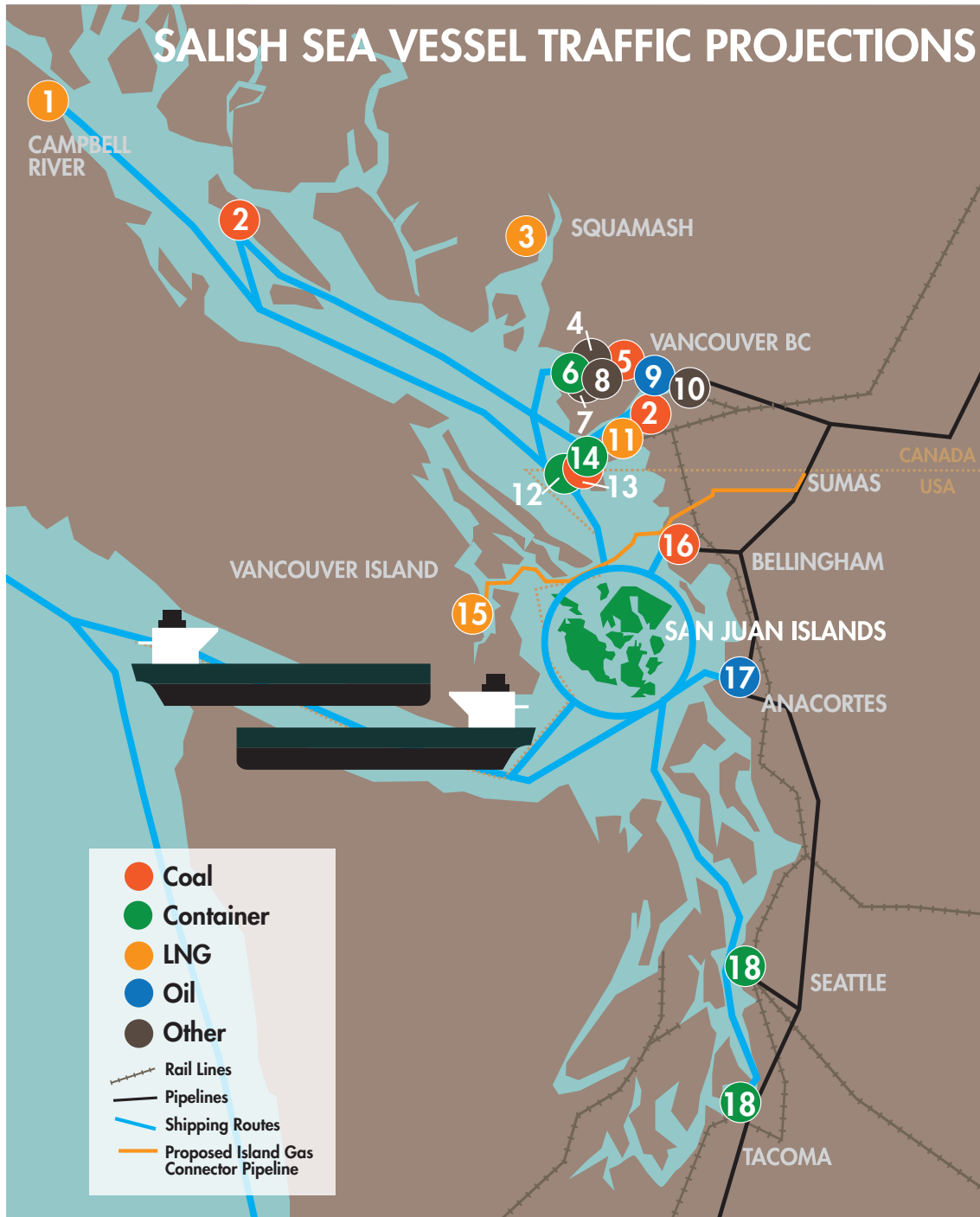


# SALISH SEA VESSEL TRAFFIC PROJECTIONS



# NEW ANNUAL VESSEL TRANSITS

1	Discovery	760
2	Fraser Surrey	160
3	Woodfibre	80
4	Richardson Int'l (increase in vessel size)	
5	Neptune	352
6	Centerm	130
7	W. Coast Reduction	22
8	Viterra	144
9	Westridge	696
10	Pacific Coast	134
11	WesPac	244
12	Roberts Bank 2	520
13	Westshore	86
14	Deltaport	86
15	Malahat	228
16	GPT	974
17	Tesoro	120
18	Seaport Alliance	564
<b>TOTAL NEW TRANSITS</b>		<b>5,300</b>
<b>2013 TRANSITS</b>		<b>12,394</b>
<b>TOTAL 2013 + NEW TRANSITS</b>		<b>17,694</b>



<b>Salish Sea Vessel Traffic Projections:</b> New and Expanding Terminals and Refinery		Current Capacity	Proposed Approved & Recent Increase in Capacity	Current Vessel Transits	Proposed Approved & Recent Increase in Transits	Project Status Summary
1	Discovery LNG export facility	0	20 MTPA	0	Estimate: 760	LNG export license issued in June '15.
2	Port Metro Vancouver (PMV): Fraser Surrey Docks - Coal	0	4 MMTA	0	160	Project permit issued in August '14. Application amended to direct-load ocean-going vessels (OGVs).
3	PMV: Woodfibre LNG export terminal	0	2.1 MTPA	0	80	LNG export license issued in Dec. '13. Environmental Assessments underway.
4	PMV: Richardson International Grain Terminal	3,000,000 MT	5,000,000 MT	Permitted in 2013. No increases to vessel traffic. "Anticipate that the smaller vessels currently servicing the terminal will be replaced by larger vessels (Panamax 70,000 MT)."		
5	PMV: Neptune Terminals - Coal and Phosphate Rock	12.5 MMTA Coal	6 MMTA Coal + 1 MMTA Phos. Rock		352	Phosphate Rock construction completed in '14. Coal upgrades/ construction to be completed in '15.
6	PMV: Centerm Container Terminal	900,000 TEU	600,000 TEU	268	Estimate: 130	Project is in the preliminary design phase.
7	West Coast Reduction Ltd. Canola	700,000 MT	1,100,000 MT	40	Estimate: 22	Export via Vanterm Terminal. \$9.5 M expansion completed in April '15.
8	Viterra Pacific Terminal – Grain	2,200,000 MT	3,800,000 MT	190	144	Final project permit issued in July '15.
9	PMV: Westridge Terminal – Crude Oil	300,000 BPD	590,000 BPD	120	696	Facilities application under review by National Energy Board until Jan. '16.
10	PMV: Pacific Coast Terminals - Canola	0	575,000 MT per yr.	0	46	Project permit issued in Feb. '14. Expected operational Q3 '14.
10	PMV: Pacific Coast Terminals - Potash	0	2,000,000 MT per yr.	0	88	Project permit issued in March '15.
11	PMV: WesPac LNG	0	3.5 MTPA	0	244	LNG export license issued in May '15.
12	PMV: Roberts Bank 2 Container Terminals	0	2,400,000 TEUs	0	520	Environmental Impact Statement filed in April '15.
13	PMV: Westshore Terminals - Coal	2012: 26.1 MTPA	9.9 MTPA	540	86	Project permit issued in January '14.
14	PMV: Deltaport Terminal – Containers	1,800,000 TEUs	600,000 TEUs	538	86	Construction and increases in TEUs underway.
15	Island Gas Connector Pipeline & Malahat LNG floating export facility	0	Pipeline: 30 MTPA; Malahat: 6 MTPA	0	Estimate: 228	Pipeline project requires US and Canadian approvals. Applications pending. Expected operational in '20.
16	Gateway Pacific Coal Terminal, Ferndale WA	0	48 MMTA coal + 6 MMTA	0	974	The USACE, WA Dept. of Ecology, and Whatcom County DEISs due in '16. USACE reviewing Lummi request for permit denial re. treaty rights violation.
17	Tesoro Refining and Marketing Company, Anacortes WA	0	5,475,000 bbl/year	0	120	Application submitted June '15 for new infrastructure to produce mixed xylenes for export to Asia.
18	NW Seaport Alliance, Seattle and Tacoma WA	3,400,000 TEUs	2,600,000 TEUs	–	Estimate: 564	Seattle and Tacoma ports' alliance plans to expand container terminals.
<b>Total New, Approved, &amp; Proposed Vessel Transit Increases</b>					<b>5,300 = 43% Increase</b>	<b>in Annual Vessel Traffic</b>
<b>2013 Total Vessel Transits in the Salish Sea</b>					<b>12,394</b>	
<b>2013 Transits + New, Approved, &amp; Proposed Annual Transits</b>					<b>17,694</b>	

Only OGV traffic included. No local barge traffic, anchoring, cueing, and/or bunkering (ship fueling) transits included.  
Abbreviations: bbl = barrels, BPD = barrels per day, LNG = liquefied natural gas, MT = metric tonnes,  
MMTA = million metric tonnes per annum, MTPA = million tonnes per annum, OGVs = Ocean-Going Vessels,  
PMV = Port Metro Vancouver, TEU = twenty-foot equivalent unit, USACE = US Army Corps of Engineers