City of Vancouver: Oil Spill Scenario - First Narrows, April 25th, 2 hours

Legend
- Spill Origin
- Predicted Oil Spill Spread
- Municipalities

Mapping oil spill extent was done by Living Oceans Society based on modelling output for a spill of non-weathering oil. Diluted bitumen behaves differently (probably more sinks as time elapses after a spill) and models predicting spill behaviour of diluted bitumen are not available. The oil slick shown represents oil with a minimum thickness of 0.1 mm, beyond which it breaks up into separate fragments (UNEP GPA). Model developed by Genwest systems and commissioned by the City of Vancouver, the City of Burnaby, and the Tsleil-Waututh Nation.

Data Sources:
Bird Studies Canada, BCMCA, BIEAP, COSE, City of North Vancouver, City of Vancouver, DataBC, District of North Vancouver, Living Oceans, Parks Canada, Squamish Streamkeepers, Statistics Canada - 2011 Census

Base Data:
Canadian Hydrographic Service, DataBC, Geogratis - Atlas of Canada

Projection: BC Albers NAD83

Prepared for City of Vancouver: April 23, 2015
City of Vancouver: Oil Spill Scenario - First Narrows, April 25th, 6 hours

Legend
- Spill Origin
- Predicted Oil Spill Spread
- * Municipalities

Population Density (ppl/sq km)
- < 500
- 500 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- 10,000 - 50,000
- > 50,000

Spring Scoter Sightings
- Low
- High

Cormorant Colonies
- Osprey Nests
- Great Blue Herons *

Herring Spawn Activity

Salmon Stream Mouths

Shoreline Types
- Estuary, marsh
- Gravel and sand beach, flat
- Man made
- Mud flat

Foraging Areas

Base Data:
Canadian Hydrographic Service, DataBC, Geogratis - Atlas of Canada

Data Sources:
Bird Studies Canada, BCMCA, BIEAP, CCEA, City of North Vancouver, City of Vancouver, DataBC, District of North Vancouver, Living Oceans, Parks Canada, Squamish Streamkeepers, Statistics Canada - 2011 Census

Projection: BC Albers NAD83

* Written scales are approximate and are based on a 11 x 17 inch paper size.

Prepared for City of Vancouver: April 23, 2015

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City of Vancouver: Oil Spill Scenario - First Narrows, April 25th, 12 hours

Legend

- Spill Origin
- Predicted Oil Spill Spread
- * Municipalities

Spring Scooter Sightings

- Low
- High

Cormorant Colonies

- Great Blue Herons *

Osprey Nests

- Historic Nest Sites

Foraging Areas

Salmon Stream Mouths

- Herring Spawn Activity

Shoreline Types

- Estuary, marsh
- Gravel and sand beach, flat
- Man made
- Mud flat

Parks and Protected Areas

Data missing for: Belcarra, Burnaby, Port Moody, UBC, West Vancouver.

Base Data:
Canadian Hydrographic Service, DataBC, Geogratis - Atlas of Canada

Data Sources:
Bird Studies Canada, BCMCA, BIEAP, CCSE, City of North Vancouver, City of Vancouver, DataBC, District of North Vancouver, Living Oceans, Parks Canada, Squamish Streamkeepers, Statistics Canada - 2011 Census

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Prepared for City of Vancouver: April 23, 2015
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City of Vancouver: Oil Spill Scenario - First Narrows, April 25th, 48 hours

Legend
- Spill Origin
- Predicted Oil Spill Spread
- * Municipalities
- Aquarium Water Intake
- Marinas
- Port Metro Vancouver Terminals
- Population Density (ppl/sq km)
  - < 500
  - 500 - 1,000
  - 1,000 - 5,000
  - 5,000 - 10,000
  - 10,000 - 50,000
  - > 50,000
- Spring Scooter Sightings
- Low
- High
- Cormorant Colonies
- Osprey Nests
- Great Blue Herons *
- Foraging Areas
- Historical Nest Sites
- Salmon Stream Mouths
- Low
- High
- Herring Spawn Activity
- Estuary, marsh
- Gravel and sand beach, flat
- Man made
- Mud flat

Mapping oil spill extent was done by Living Oceans Society based on modelling output for a spill of non-weathering oil. Diluted bitumen behaves differently (probably more sinks as time elapses after a spill) and models predicting spill behaviour of diluted bitumen are not available. The oil slick shown represents oil with a minimum thickness of 0.1 mm, beyond which it breaks up into separate fragments (UNEP GPA). Model developed by Genwest systems and commissioned by the City of Vancouver, the City of Burnaby and the Tsleil-Waututh Nation.

Data Sources:
Bird Studies Canada, BCMCA, BIEAP, CCEA, City of North Vancouver, City of Vancouver, DataBC, District of North Vancouver, Living Oceans, Parks Canada, Squamish Streamkeepers, Statistics Canada - 2011 Census

Base Data:
Canadian Hydrographic Service, DataBC, Geogratis - Atlas of Canada

Prepared for City of Vancouver: April 23, 2015

The entire coastline of Stanley Park, an Important Bird Area (IBA), is exposed to oil, risking thousands of birds. The seawater intake for the Vancouver Aquarium could be contaminated with submerged bitumen.

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Data Sources:
- Bird Studies Canada
- BCMCA
- BIEAP
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- City of North Vancouver
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- Canadian Hydrographic Service
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