

Field Studies Information Sheet – October 2013

Port Metro Vancouver is continuing field studies in October as part of ongoing environmental and technical work for the proposed Roberts Bank Terminal 2 Project.

Roberts Bank Terminal 2 Project

The Roberts Bank Terminal 2 Project is a proposed new three-berth container terminal which would provide 2.4 million TEUs (twenty-foot equivalent unit containers) of additional container capacity. The project is part of the Container Capacity Improvement Program, Port Metro Vancouver's long-term strategy to deliver projects to meet anticipated growth and demand for container capacity until 2030.

No decision has been made to proceed with the proposed Roberts Bank Terminal 2 Project. Port Metro Vancouver is undertaking a comprehensive multi-round, multi-year community, stakeholder and public consultation process regarding the project, which began in June 2011 with Pre-Consultation and was followed by Project Definition Consultation in October-November 2012. Pre-Design Consultation is the third round of public consultation and runs from October 7 to November 12, 2013.

The proposed Roberts Bank Terminal 2 Project will be subject to a thorough and independent environmental assessment.

Field Studies – October 2013

An overview of field studies that will be taking place in October 2013 is below.

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| Overview |
| Archaeology |
| Archaeological Overview Assessment |
| Coastal Geomorphology |
| Continuous Measurement of Discharge Study |
| Lighting Impact |
| Lighting Impact Assessment Study |
| Marine Fish |
| Adult Chinook Salmon PCB Study |
| Marine Mammals |
| Marine Mammal Observation Study |
| Underwater Noise Study |
| Noise and Vibration |
| Baseline Noise and Vibration Monitoring |
| Terrestrial Wildlife |
| Barn Owl Nest/Roost Check Study |
| Sediment and Water Quality |
| Sediment Characterization Study |
| Visual Impact |
| Visual Impact Assessment Study |

Some field studies may require access to public and private land. Port Metro Vancouver will obtain permission before accessing private property. As part of the Adaptive Management Strategy developed as part of the Deltaport Third Berth Project, Port Metro Vancouver will continue studies at Roberts Bank in addition to those outlined in this information sheet.

Port Metro Vancouver will produce monthly field studies information sheets summarizing work to occur each month. These updates will be available at www.portmetrovancover.com/RBT2.

| Study Name | Summary |
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| <p>Archeology – Archeological Overview Assessment</p> | <p><u>Purpose:</u> The purpose of the study is to conduct a one-day field reconnaissance visit in order to support desktop research on the potential for the presence of archaeological resources in the Project area.</p> <p><u>Study Area:</u> The study area includes the Roberts Bank inter-causeway area.</p> <p><u>Methods:</u> Field observations will be made to support desktop research.</p> <p><u>Timing:</u> This study will begin in October 2013 and will take place during daylight hours.</p> |
| <p>Coastal Geomorphology – Continuous Measurement of Discharge Study</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of the study is to collect data relating to the flow discharge in Canoe Pass.</p> <p><u>Study Area:</u> The study area includes Canoe Pass (the southern-most arm of the Fraser River).</p> <p><u>Methods:</u> Sensors and probes will be installed within the study area. These will be connected to computers to collect and monitor data.</p> <p><u>Timing:</u> This study will continue in October 2013.</p> |

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| <p>Lighting Impact – Lighting Impact Assessment Study</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to assess the visual impact from selected viewpoints of potential changes to lighting at Deltaport Terminal associated with the proposed Robert Bank Terminal 2 Project.</p> <p><u>Study Area:</u> This study will be conducted from various viewpoints at Roberts Bank and the Lower Mainland, and potentially at Point Roberts in the United States.</p> <p><u>Methods:</u> Digital photographs will be taken to build a baseline visual inventory of the existing lighting conditions at Roberts Bank. The baseline visual inventory will then be used to conduct a lighting impact assessment.</p> <p><u>Timing:</u> This study will continue in October 2013 and will take place during daylight and nighttime hours.</p> |
| <p>Marine Fish – Adult Chinook Salmon PCB Study</p> | <p><u>Purpose:</u> The purpose of this study is to catch and retain up to 10 adult chinook salmon to examine if polychlorinated biphenyls (PCBs) have transferred between surface sediment and the chinook salmon.</p> <p><u>Study Area:</u> This study will be conducted at Roberts Bank and Sturgeon Bank, in areas where recreational fishing is permitted.</p> <p><u>Methods:</u> Adult chinook salmon will be captured and retained via recreational fishing methods. If recreational fishing methods do not prove successful, a purse seine method may be employed. All required permits and licenses will be obtained prior to undertaking the study.</p> <p><u>Timing:</u> This study will begin in mid-October 2013 and will take place during daylight hours.</p> |

| Study Name | Summary |
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| <p>Marine Mammals – Marine Mammal Observation</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to document marine mammal presence and behaviour in the waters around Deltaport.</p> <p><u>Study Area:</u> The study area is the waters in the vicinity of Deltaport at Roberts Bank.</p> <p><u>Methods:</u> A ground-based remote video surveillance system will be established to observe the proposed project footprint for marine mammals.</p> <p><u>Timing:</u> This study will continue in October 2013 and will take place during daylight hours.</p> |
| <p>Marine Mammals – Underwater Noise Study</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to capture baseline data on ambient underwater noise levels and southern resident killer whale (SRKW) presence at Roberts Bank.</p> <p><u>Study Area:</u> The study area is the waters in the vicinity of Roberts Bank.</p> <p><u>Methods:</u> At Roberts Bank, both ambient noise levels and marine mammal vocalizations will be recorded continuously for one year using a hydrophone cabled to shore.</p> <p><u>Timing:</u> Acoustic recordings at Roberts Bank will continue in October 2013.</p> |
| <p>Noise and Vibration – Baseline Noise and Vibration Monitoring</p> <p>(continued from August 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to measure baseline noise and vibration levels associated with train movements from Deltaport terminal.</p> <p><u>Study Area:</u> This study will be conducted at selected locations along the Roberts Bank Rail Corridor.</p> <p><u>Methods:</u> Sound and vibration level meters will be used to conduct noise level measurements at selected locations.</p> <p><u>Timing:</u> This study will continue in October 2013 and will take place during daylight hours.</p> |

| Study Name | Summary |
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| <p>Terrestrial Wildlife – Barn Owl Nest/Roost Check Study</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to collect baseline data on the presence of barn owls at nest/roost sites in the upland area.</p> <p><u>Study Area:</u> The study area includes predetermined properties along Roberts Bank rail corridor between the shore end of the Roberts Bank causeway and the east end of Fisher Yard.</p> <p><u>Methods:</u> The barn owl nest/roost checks will be conducted at predetermined locations where barn owl nests/roosts have been identified. At these locations biologists will record:</p> <ul style="list-style-type: none"> • Barn owl presence/absence, • General barn owl behaviour, • Number of barn owls, and • Age of barn owls, if possible. <p><u>Timing:</u> This study will continue in October 2013 and will take place in the hours preceding and following dusk.</p> |
| <p>Sediment and Water Quality – Sediment Characterization Study</p> <p>(continued from August 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to characterize the physical and chemical features of the sediments that may be dredged or deposited as part of project construction.</p> <p><u>Study Area:</u> This study will be conducted offshore of the Deltaport terminal at Roberts Bank.</p> <p><u>Methods:</u> Fieldwork may include both borehole drilling and surface sediment sampling activities. Sediment will be collected from drill and surface sampling locations using appropriate equipment from a secured barge or small boat.</p> <p><u>Timing:</u> The study will continue in October 2013 and will take place during daylight hours.</p> |

| Study Name | Summary |
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| <p>Visual Impact – Visual Inventory Study</p> <p>(continued from September 2013)</p> | <p><u>Purpose:</u> The purpose of this study is to gather baseline data to assess the existing aesthetic conditions at Roberts Bank.</p> <p><u>Study Area:</u> This study will be conducted from both shore-based and offshore viewpoints in the United States, including Point Roberts and the waters near Saturna Island.</p> <p><u>Methods:</u> Multiple digital photos will be taken of the Deltaport terminal. The data collected will be used to inform desktop studies.</p> <p><u>Timing:</u> This study will continue in October 2013 and will take place during daylight hours.</p> |

For Further Information

For further information, please visit our website at www.portmetrovancover.com/RBT2 or contact us:

Phone: 604.665.9337

Fax: 1.866.284.4271

Email: container.improvement@portmetrovancover.com