

BERC TRACK 1 PROJECTS – 2006

- 1. 2006-01-B001 – City of North Vancouver (VPA) CNV** – Application for a proposed a maintenance upgrade of the timber decking fronting the Lonsdale Quay Market. The work includes replacement of the decking and probably other timber elements of the structure (but apparently not piles), as well as painting rails, flagpoles and light standards. VPA released the schedule of environmental conditions on Friday, January 20, 2006.
- 2. 2006-02-B002 – EC PEC site (VPA) West Vcr** – Application conduct sediment sampling at the PEC site. VPA released the schedule on Friday, February 10, 2006 subject to BERC's comments.
- 3. 2006-02-B003 - The City of Burnaby (VPA) Bby** – Application for the renaming the foreshore trail at Barnet Marine Park "Drummond Walk" in honor of the former mayor, who is presently quite ill. The City wishes to install a commemorative marker at the start of the trail, and wish to dedicate it on March 15, 2006 while Mr. Drummond is still well enough to attend. VPA released the attached schedule on Wednesday, February 15, 2006 subject to BERC comments.
- 4. 2006-03-B004 - Vancouver Aquarium's Marine Science Centre (VPA) Vcr** - Application to begin operating its sea water intake at the Marine Mammal Rescue Facility at Main Street Dock (Related to BERC Track 1# 2004-08-B023). Initially, the proposal was to discharge to sanitary sewer and to that end they obtained permission from the City of Vancouver, but there is a cost associated with that. They now wish to discharge some of the sea water in batches to the marine environment, through a hose to be deployed for each discharge occasion. VPA believes the potential environmental concerns have been addressed. VPA released the draft schedule of environmental conditions on Tuesday, March 7, 2006 subject to BERC comments.
- 5. 2006-03-B005 - Barbara (Bob) Mathews (VPA) DNV** – Application to relocate an existing, grounding float and boathouse by moving it out about 4.5 m and replacing the existing ramp with a new, longer one. The facility is located south of Deep Cove, fronting 4793 Strathcona Road. The proposal includes pulling and reinstalling 8 piles. VPA released the schedule of environmental conditions on March 14, 2006, subject to BERC comments.
- 6. 2006-03-B006 - Steve Zlotkin & Norpac Logistics Ltd. (VPA) DNV** - Proposal to construct a private moorage facility fronting 2814 Panorama Drive in the District of North Vancouver. VPA released the schedule of environmental conditions on March 14, 2006 subject to BERC comments.
- 7. 2006-03-B007 - Paul and Sharon Anne Perkins (VPA) DNV** - Application to relocate the existing float, which grounds at low tides. VPA proposes to release the attached schedule of environmental conditions on Tuesday, March 28, 2006 subject to BERC comments.
- 8. 2006-03-B008 – Flavelle Sawmills (VPA) Port Moody** – Application for maintenance pile driving at the site. VPA to release its schedule of environmental conditions pending BERC's comments, on March 31/06.
- 9. 2006-04-B009 – Zan Procyk (VPA) Indian Arm** – Track 1 application for new stairs to the beach and a concrete buttresses for the retaining wall at the property located in Cosy Cove. BERC met onsite with Mr. Procyk on Feb. 1/06. VPA's letter will be released pending BERC's comments on April 13/06.
- 10. 2006-04-B010 – Keystone Environmental o.b.o. BNSF (VPA) Vcr** - proposal of Keystone Environmental Ltd to perform sediment sampling in the surrounding area of the Burlington North Santa-Fe dock, located within Burrard Inlet. VPA to release their letter on April 25/06, pending BERC's comments.
- 11. 2006-05-B011 – VPA/Sterling Shipyards (VPA) Vcr** - Application by VPA for to further delineate the site conditions, and to that end are proposing to drill a number of boreholes on the upland and in the

upper intertidal zone (above 2 m elevation chart datum) at the former Sterling Shipyards site at the north foot of Victoria Drive in Vancouver. A number of these will have wells installed. VPA wishes to also conduct some step-out test pitting, all on the upland at the site, and to collect some surface water samples in the intertidal zone. The program is detailed on the attached draft schedule of environmental conditions. Stations are scattered over the site, both on the upland and intertidally above 2 m elevation.

The work is scheduled to proceed early in June, 2006. VPA proposes to release the schedule to our contractor on Friday, May 26, 2006 subject to BERCC comments.

12. CPR# 0606N012 – Westmar Consultants (VPA) DNV – Track 1 application for sheet pile wall repairs at the two facilities: Lynnterm and Neptune. VPA will release its schedule on or around June 15/06, pending BERCC's comments.

13. 2006-06-B013 – Ross & Elizabeth Bligh/ Coast Marina/ Coast River Consultants (VPA) DNV – Application for a residential dock at 810 Beachview Drive North Vancouver, BC. VPC released its schedule of conditions by June 29/06.

14. 2006-07-B14 – Neptune Bulk Terminals (Canada) Ltd (VPA) CNV – Application for dolphin replacement at berths 2 and 3. VPA to send out the schedule of environmental conditions June 28/06, pending BERCC comments.

15. 2006-07B015 – Shell Products Canada (VPA) Bby - Shell is proposing to conduct minor repairs at its Shellburn wharf - replace 1 pile and 4 pile caps (all timber) and repair 2 ladders. The VPA released the attached schedule of conditions on Friday, June 30, 2006.

16. 2006 – 07- B016 - Lyndon and Joanna Cormack (VPA) Proposal to construct a residential moorage at 5115 Indian River Rd. The work will entail the installation of a pier (utilizing two used creosote piles), ramp, and float (secured by two used creosote piles; alternatively two 5 tonne anchors if insufficient depth for pile placement). The VPA released the attached schedule of conditions on Friday, July 07, 2006.

17. 2006-07B017 - Ken and Jodi Whiteside (VPA) Proposal to construct a residential moorage at 5125 Indian River Rd. The work will entail the installation of a pier/abutment, ramp, and float (secured by two guy wires affixed to the bedrock at above the high water mark and two 5 tonne anchors located within the VPA lease area. The VPA released the schedule of conditions on Friday, July 07, 2006.

18. 2006-07-B018 - Canexus Chemicals Canada Inc. (VPA) DNV – The proponent is proposing an off-site receiving environment study and upland remedial option evaluation work that will include the following objectives: characterize the horizontal and vertical extent of the pH, dissolved aluminum, and HCBd groundwater plumes within the Bay, located southwest of their plant site; Identify the location of the suspected plume discharge area and assess water and sediment quality at the sediment/water interface; and, evaluate on-site pump and treat options for the pH plume within the freshwater zone for the aquifer. VPA letter sent July 21/06.

19. 2006-07-B019 - Seacor Environmental Inc. (VPA) Port Moody – Application for a phase 1 and phase 2 site assessment of the Pacific Coast Terminal (PCT) site located in Port Moody, BC. The assessment will examine the magnitude and extent of hydrocarbon contamination, the potential impacts to down gradient aquatic environment, and the potential need to mitigate environmental impacts. The sampling will include the collection of small samples (less than 500 grams) from several 0.3 X 0.3 hand dug test pits and porewater testing from the intertidal area. VPA released scheduled July 21/06.

20. 2006-08-B020 -BC Hydro (VPA) Port Moody – BC Hydro is proposing to perform structure rehabilitation on an off shore structure of their 947.5MW Burrard Generating Station, located on Burrard Inlet in Port Moody, BC. The work will entail the removal of corroded sections of the deck support steel to be replaced with hot dipped galvanized steel and coating of all associated connections. The remainder of the structural support steel may be recoated in place to extend their lifespan. The VPA released this schedule of environmental conditions on Aug. 1, 2006.

21. 2006-08-B021 - Cascadia Terminals Ltd. (VPA) Application to perform maintenance painting on their shipping gallery over a 1 to 3 year period. The initial work will be performed on towers 6 and 7, together with the underside of the connecting span. The intent of the work will be to retain as much of the existing coating system as possible and perform spot repairs only to those areas where the coating system has deteriorated. Cascadia proposes that all activity, including pressure washing utilizing a cleaner, mechanical cleaning, and painting, will be performed within an enclosure, consisting of the following: water impermeable floors, air penetrable walls, rigid or flexible framing, fully sealed joints, overlapping entryways, natural airflow, water containment/collection/filtration system. The VPA released the schedule of environmental conditions for EAP# 06-042 on July 31, 2006.

22. 2006-08-B022 - Domtar Inc. and Seaspan International Ltd/ Golder Associates Inc. (Golder) (VPA) DNV - Golder, on behalf of the proponents, are proposing to investigate the soil and sediment quality in the vicinity of the former creosote unloading wharf and pipeline at Vancouver Shipyards, located in North Vancouver, BC. The work plan will include an offshore and upland investigation. Please note that this project is not related to the sediment remediation project currently under review by BERC and covers area to the west of that of the remediation project. The VPA released the schedule of environmental conditions on August 01, 2006.

23. 2006-08-B023 – Vancouver Wharves (VPA) CNV – Application from Vancouver Wharves for the annual maintenance work to the piers at Vancouver Wharves. This is similar to work that has been reviewed by BERC a number of times in the past, most recently last year under track 1 # 2005-08-B024. This year there will be concrete repairs as well as rip rap placement (behind berths 3 to 5, eastwards of the sheet pile cutoff wall installation). VPA released the schedule of environmental conditions on Wednesday, August 2, 2006 subject to BERC comments.

24. 2006-08-B024 - Rogers Sugar / Hay and Company Consultants Inc. (VPA) Vcr – The proponent is proposing concrete repairs on their deep sea wharf. The repairs will utilize pre-mixed bagged shotcrete for all repairs, except where low modulus epoxy paste is best suited. Shotcrete will be conveyed through a hose and applied by pneumatic projection through a spray nozzle. Loose or delaminated concrete will be removed with light chipping hammers followed by light grinding or saw cutting. Corroded rebar will be chipped to expose behind the rebar for wet sand blasting. The VPA released the Schedule of Environmental Conditions for EAP/PRP #06-047 on August 09, 2006.

25. Canada Place Corporation / Westmar Consultants Inc. (VPA) Vcr - Westmar Consultants Inc acting on behalf of the proponent is proposing to perform general concrete repairs to the substructure components including piles, pile caps and slab soffits. Repairs methods will include cast-in-place concrete, shotcrete and epoxy injection. The substructure repairs will be part of a phased rehabilitation program over two calendar years (2006 & 2007). For the year 2006, repairs will include the following: 165lin. M of grout crack repair & 45 sq. m of shotcrete spall repair. For the year 2007, repairs will include the following: 190lin. M of grout crack repair & 75 sq. m of shotcrete spall repair. A sample repair involving shotcrete will include: removing concrete to 25mm behind existing reinforcing steel; repair & patch edges; replace and/or clean exposed reinforcing steel; taper all areas to be patched to a 45 deg. Angle; and, install shotcrete. VPA released the Schedule of Environmental Conditions EAP/PRP #06-046 on August 11, 2006.

26. 2006-08-B026 - Canada Place Corporation/ CamCoat Industries (BC) Ltd. (VPA) Vcr – Application coatings to be done on Canada Place. Proponents will be required to work through CamCoat Industries Ltd. on the preparation and coatings application. Preparation and coatings will be applied to handrails on the 21k and 16k elevations on the area north of grid lines 54 east and west perimeter (identified on Sketch# S2006 - 167 attached here). The work will include the preparation and coating of steel structures, including materials, coating systems, surface preparation, application, and quality control inspection. VPA released the Schedule of Environmental Conditions for EAP/PRP# 06-048 on August 22, 2006.

27. 2006-08-B027 - Kingfisher Docks and Boats on behalf of Jeff and Giovanni Boniface (VPA) DNV – Proposal to construct a resident moorage facility at 2915 Panorama Drive.. The work proposed will entail

the construction of a pier, the installation of a ramp and a float as per the engineering design Typical of Kingfisher Docks and Boats Inc. The proposed pier will be constructed on 4 separate 2-foot diameter steel piles. The float will ride on 2 existing creosote pilings to eliminate chain rub issues. All piles will be driven using a drop hammer. The pier will be integrated with a concrete abutment on the upland. Two concrete supports will secure the pier at approximately 24 feet apart extending from the upland to approximately 6 feet inland from the foreshore retaining wall. VPA intends to release the Schedule of Environmental Conditions EAP/PRP #06-050 on September 26, 2006.

28. 2006-09-B028 – Nickel Brothers House Moving/ Foreshore Technologies (FTI) (VPA) CNV - is proposing to land a barge at the south foot of Fell Avenue in the City of North Vancouver, and to unload a house onto the barge at that location. The activity is proposed for September 27th, 2006.

The barge will be maneuvered onto the beach during a rising tide when the tide has reached an elevation of no less than 3.0 metres chart datum. High tides that week vary between 3.70 m and 4.20 m. The loading is expected to take less than 2 hours to complete. The barge draws approximately 0.6 m empty and 0.9 m loaded. The barge will be held in place with a combination of the towing vessel at the seaward end and cables to vehicles on shore at the landward end of the barge. The gap between the barge and the top of the bank will be spanned with 12 m long ramps. The VPA intends to release the Schedule of Environmental Conditions EAP/PRP #06-053 on September 13, 2006.

29. 2006-09-B029 - Deep Cove Yacht and Sports Club / North Shore Consulting Inc. (VPA) DNV - Application to replace one dock at the Iron Bay Outstation with a 21.3m X 6.2m dock, and relocate the existing docks in order to provide additional moorage offshore and on the shore side of the docks closest to shore. The existing inward dock will be re-located approximately 10m east while the existing seaward dock located on the south end will be centred on the seaward dock. The new replacement ramp dock will be positioned on the west end off the existing seaward dock to be relocated, while the existing ramp dock will be relocated off the east end of the seaward dock. A total of four (4) new anchors and chains will be added. The VPA anticipates to release the Schedule of Environmental Conditions for EAP#06-052 on September 14, 2006.

30. 2006-11-B030 – Public Works and Government Services Canada (VPA) CNV – Proposal to perform stabilization work on two offshore seawater intake structures of the North Vancouver Environmental Science Centre operated by Environment Canada (PEC Site). The structures sit at approximately -28.5m depth in Burrard Inlet east of Second Narrows Bridge, and located 1240m from the North Vancouver environmental Science Centre. Stabilization work will require mechanical winching of one (maybe two) of the structures to upright position followed by diver placement of set concrete bags to restrict further undermining of the structures. The VPA intends to release the schedule of environmental conditions on November 13, 2006.

31. 2006-11-B031 - Vancouver Port Authority (VPA) Vcr -- VPA is proposing to replace 5 fender piles at the Main St. Dock, located north of the foot of Main Street along the south perimeter of Burrard Inlet. The location of the piles are along the west edge of the northerly section of the dock. VPA anticipates the release of the Schedule of Environmental Conditions on November 15, 2006.

32. 2006-11-B032 - Simon Fraser University (SFU) (VPA) Vcr – An application by a SFU undergraduate student to carry out a research study within the Coal Harbour to determine whether past boat hull-cleaning practices at the Vancouver Rowing Club (VRC) are having a toxicological impact on the local benthic and intertidal ecosystem. The research proposes invertebrate sampling within the intertidal zone and sediment sampling within the subtidal zone at 20 locations, each of 60m apart, stretching along the seawall from VRC to the eastern side of Deadmans Island as specified on figure 1 of the proposed methodology. The VPA intends to release the Schedule of Environmental Conditions on November 22, 2006 pending approval from the Vancouver Rowing Club and the Royal Vancouver Yacht Club.

33. 2006-11-B033 – Sask Wheat Pool/ David A. Williams & Associates Inc. (VPA) DNV - Proposal to conduct minor concrete repairs to the Saskatchewan Wheat Pool wharf. This is similar to work previously reviewed by BEREC (CPR #200312B063) as a track 2 review; the currently proposed works are not as

extensive. VPA proposes to release the schedule of environmental conditions on November 28, 2006 subject to BEREC comments.