



Muir Lock Monster Musings

Keeping you current with developments
at Petro Barrier Systems Inc.



Petro Barrier Systems Inc. Quickly Becoming a Leader in the Protection of Local Waterways with Nomination for Environmental Excellence Award!



We are proud to announce that our innovative technology was recently recognized as an industry leader in the field of the environmental protection of marine life and watersystems. In April, the new Petro Barrier Systems product, the Marine Guard P3, was announced as a finalist for the 2008 VIATeC Technology Award in the Environmental Excellence category.

This unique system was installed at the Royal Victoria Yacht Club in May 2007. The performance has surpassed the Capital Region District regulations, the Federal Ministry of Fisheries and Oceans requirements, and the Clean Marine Standards, establishing the RVYC and Petro Barrier Systems as a leader in the environmental protection of the foreshore and local marine life.

Russ Cozens, Immediate Past Commodore at the RVYC stated "I would, without hesitation, recommend the products and services provided by Petro Barrier Systems Inc. to anyone wanting to protect our environment from similar polluting agents." The illustrations below show the basic components of the RVYC system, which can be customized to suit a variety of situations. For more detailed information, please contact us and request our new Marine Guard P3 brochure!



Collection Sump



Pre-Filter and Four
Compartment Oil-Water Separator



Polishing Filters for
Removal of Heavy
Metals and Oils



Phone: (250) 655-5000 Fax: (250) 655-5031 Email: petrobarriersystems@shaw.ca

New Petro Barrier Systems Research Tackles Problem of Heavy Metals and Phosphates in Water.

Even small amounts of heavy metals can be very harmful to aquatic life. For example, concentrations of metals such as zinc and copper of just over 5 ppb are known to be capable of killing fish. In keeping with our commitment to protect our water systems and provide effective and affordable containment products to our clients, Petro Barrier Systems continues its ongoing research in this important area.

Current research includes finding a system to remove selenium from water. Although this metal may have some cancer prevention properties in small quantities, the EPA in the USA has established limits for selenium in water as low as 10 ppb. While past approaches to removing this element from water down to this low level have yielded only partial success, Petro Barrier Systems is leading the way with promising new technology. We are currently engaged in ground breaking research, tackling this problem with approaches that are showing very encouraging early results.

As a compliment to our Heavy Metals Removal system, we are also working on an innovative filter system to remove phosphates, which is an ongoing problem in our ocean waters, despite considerable efforts by detergent manufacturers to deal with the problem. Stay tuned for more news of this exciting new research, and the innovative new developments and products that it is sure to lead to!

Research and New Cleaning Agent lead to Solution of Emulsification Problem.

Petro Barrier Systems has been commended for our recent work in successfully creating a comprehensive system for automotive workshops, that effectively removes hydrocarbon oils from waste waters on site. Research for the development of this system yielded an interesting and unexpected finding. It was found that the standard detergent that was being used for cleaning was having the undesirable effect of emulsifying the hydrocarbon oils present, which made them very difficult to remove from the water.

Fortunately a new water based solvent cleaner called "Star Power" was found to be very effective in removing oil, grease and dirt, without the undesirable emulsifying effect that other detergents produced. With the use of Star Power, the oil remained a distinct separate layer on the water surface, allowing it to be effectively removed. This experience reinforced the importance of evaluating the effects of all additives to waste water, including seemingly innocuous detergents. For more information on Star Power and its compatibility with the Muir Lock Monster products, please contact us today!



Phone: (250) 655-5000 Fax: (250) 655-5031 Email: petrobarriersystems@shaw.ca