

# MARINE GUARD P3

Presents “Marine Guard P3”



Collection Sump.

The Marine  
Industry's Revolutionary  
Solution for Treating Contaminated Water.



**“OIL WATER SEPARATOR”**  
Pre-Filter and Four Compartment Oil-Water  
Separator.



Polishing Filters for Removal of Heavy  
Metals and Oils. *The Marine Guard P3 was  
a finalist for the 2008 VIATeC Award for  
Environmental Excellence.*

**Ensure that you meet Federal Requirements for the Disposal of your Contaminated  
Waste Waters!**

Problems with disposing of waste waters that don't meet the new Environment Canada and Department of Fisheries and Oceans requirements for heavy metals, oils and other contaminants?

Let our unique and comprehensive multi compartment system ensure that your waste water meets all requirements and can be safely disposed of, or even recycled to be used at your facility.



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Petro Barrier Systems Inc.  
Address: Unit 3 - 515 Dupplin Road,  
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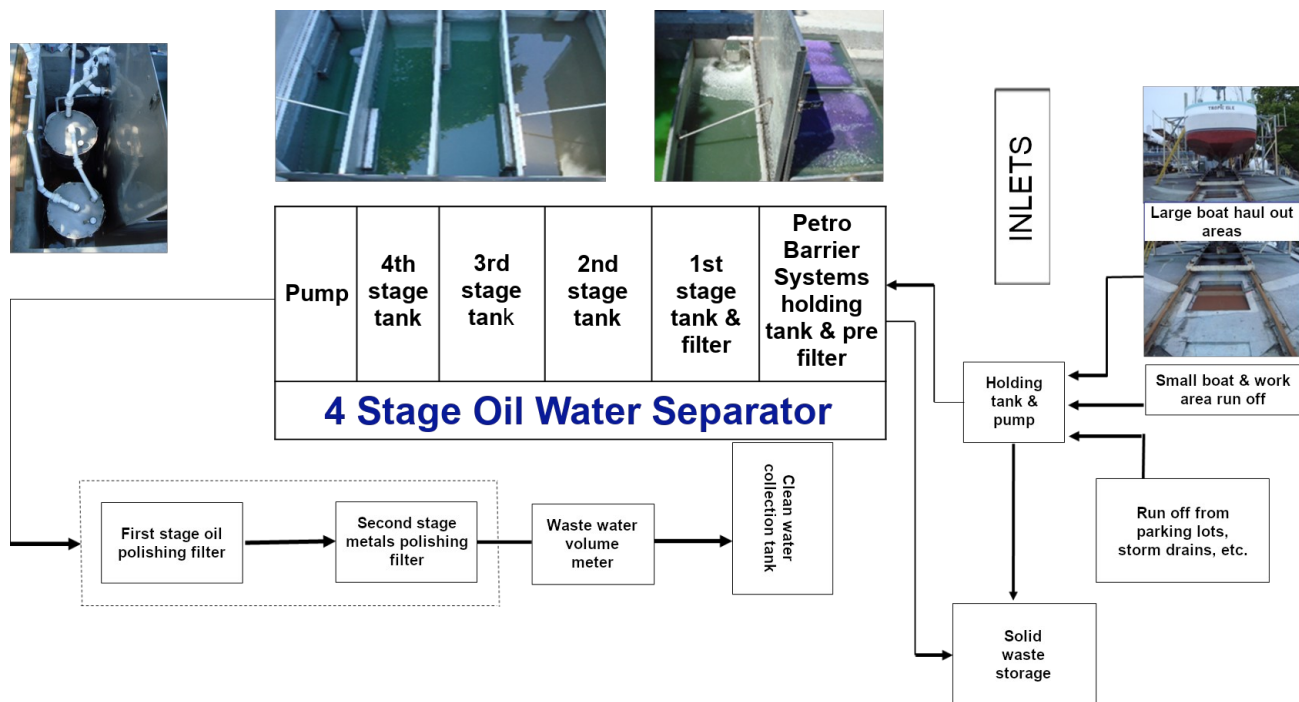


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## The Marine Guard P3 at work!

Petro Barrier Systems successfully installed a complete system at the Royal Victoria Yacht Club, ensuring that all federal requirements and being met. The system illustrated below was tailored their specific needs.

### Royal Victoria Yacht Club Storm & Waste Water Protection System.

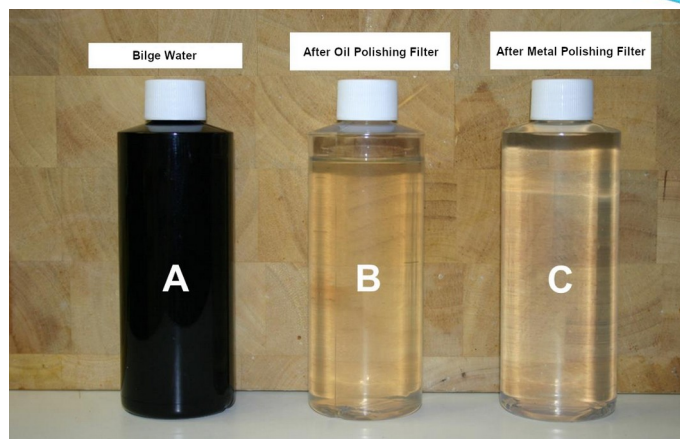


**Contact us today to see how we can design a system that perfectly fits your needs!**



## MARINE GUARD P3

Witness the Extraordinary Power of the Petro Barrer Systems.



### Sample A:

**An illustration of heavily contaminated water from a Canadian Forces frigate, containing up to 8% oil and sludge.** This water was subjected to the extraordinary process used in the MarineGuard P3 to remove oil, including a prefilter and oil/water separator.

### Sample B:

**Amazing clarity achieved! This sample illustrates the phenomenal power of the system to remove oil from contaminated water.** This sample still contains unacceptable levels of iron however. This problem is addressed by the next stage in the system.

### Sample C:

**After passing through our unique filter that removes heavy metals, laboratory results indicate iron levels at less than 1ppm and total extractable hydrocarbon oils (TEH) also at less than 1ppm!.**

The purified water can now be safely disposed of into the water system. The treated sludge can now also be safely disposed of easily, as it now meets acceptable standards for industrial landfills. A cost efficient and environmentally friendly way to solve your contaminated waste water problems!.

***Get the MarineGuard P3 working for you!***

**Contact us today for an evaluation and quotation!**



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## Test Results and Endorsements from Royal Victoria Yacht Club.

SAMPLE	DATE	Copper ug/L (parts per billion)	TEH (oil) mg/L (parts per million)
Before Filter	Jun 28, 2007	49.8	2530
Post Filter	Jun 28, 2007	0.391	5.3
Lab Blank		ND	ND
So		1.6	0.003
REF. VALUE		58	50
STD		57.3	50.2

SAMPLE	DATE	COD mg/L	M.O&G mg/L	TEH mg/L
Sample A before Filter	Aug 6, 2007	66900	641	---
Sample B after Filter	Aug 6, 2008	75.6	---	ND
Lab Blank		ND	ND	ND
So		1.5	0.003	0.003
REF. VALUE		200	50	50
STD n 2SD		199 n 18.0	50.3 n 3.97	50.2 n 3.76

ND = None Detected (less than 1ppm).

Samples: 1) A - Pre Filtering 06-Aug-07 15:50P Samples: 2) B2 - Post Filtering 06-Aug-07 15:50P									
1			2						
SAMPLE	ELEMENTS	Al	SAMPLE	UNITS	Max for Freshwater	Aquatic Life Marine	Max. Discharge By law #2922 *		
1380	1) Aluminium	Al 0.465		mg/L	n/a	1.5	no limit listed		
<0.001	2) Antimony	Sb <0.500		ug/L	n/a	200	no limit listed		
3.23	3) Arsenic	As <0.500		ug/L	5	12.5	400 ug/L		
42.8	4) Barium	Ba 0.076		mg/L	n/a	1	no limit listed		
<0.003	5) Beryllium	Be <0.003		mg/L	0.01	1.5	no limit listed		
12.8	6) Boron	B 0.405		mg/L	n/a	5	no limit listed		
<0.010	7) Cadmium	Cd <0.100		ug/L	1.05-2.11	0.12	0.300 mg/L		
3280	8) Calcium	Ca 82.9		mg/L	n/a	n/a	no limit listed		
21.8	9) Chromium	Cr <0.010		mg/L	0.1	0.05	4.00 mg/L		
2.2	10) Cobalt	Co <0.020		mg/L	1.32	n/a	5.00 mg/L		
6500	11) Copper	Cu 4.54		mg/L	0.030-0.127	0.05	1.00 mg/L		
<0.500	12) Gold	Au <0.040		mg/L	n/a	n/a	no limit listed		
3960	13) Iron	Fe 0.436		mg/L	1	0.3	50.0 mg/L		
0.403	14) Lanthanum	La <0.020		mg/L	n/a	n/a	no limit listed		
499	15) Lead	Pb <0.500		ug/L	30	50	1000 mg/L		
1580	16) Magnesium	Mg 35.4		mg/L	n/a	n/a	no limit listed		
96.6	17) Manganese	Mn 0.052		mg/L	n/a	0.1	5.00 mg/L		
162	18) Molybdenum	Mo 0.031		mg/L	n/a	n/a	5.00 mg/L		
15.1	19) Nickel	Ni <0.050		mg/L	n/a	0.1	3.00 mg/L		
2220	20) Phosphorus	P 1.19		mg/L	n/a	0.05	no limit listed		
713	21) Potassium	K 160		mg/L	n/a	n/a	no limit listed		
0.421	22) Scandium	Sc <0.050		mg/L	n/a	n/a	no limit listed		
34.8	23) Silicon	Si 4.7		mg/L	n/a	n/a	no limit listed		
4.53	24) Silver	Ag 0.011		mg/L	0.01	0.005	0.500 mg/L		
9910	25) Sodium	Na 3380		mg/L	n/a	n/a	no limit listed		
41.3	26) Strontium	Sr 1.55		mg/L	75	n/a	no limit listed		
39.1	27) Titanium	Ti <0.010		mg/L	n/a	n/a	no limit listed		
<0.050	28) Tungsten	W <0.050		mg/L	n/a	n/a	no limit listed		
1.2	29) Vanadium	V <0.010		mg/L	n/a	10	no limit listed		
1470	30) Zinc	Zn 2.04		mg/L	0.490-1.35	0.1	3.00 mg/L		
	Hardness (mg/L CaCO3)				841	mg/L	>300 mg/L = very hard		
7.32	pH	6.45		units	6.5-9.0	6.5-9.0	5.5 to 11.0		
14280 ppm Heavy Metal		Less than 10 ppm							

The system has been operating since June 2007 without any reduction in effectiveness, with 1-2 boats per day being cleaned.

Our experiences with Petro Barrier Systems Inc. have been positive ones. Company representatives were extremely knowledgeable and responsive to our requirements and worked with us until we were satisfied that the system was working "as advertised" and to our satisfaction. I would, without hesitation, recommend the products and services provided by Petro Barrier Systems Inc." Mr. Russ Cozens, Immediate Past Commodore, Royal Victoria Yacht Club

*"Petro Barrier Systems is very happy to announce that the MarineGuard P3 system is one of the finalists for the 2008 VIATEC Technology Award in the Enviromental Excellence category. The MarineGuard P3 was installed at the Royal Victoria Yacht Club in May 2007. The performance has surpassed the CRD regulations, the Federal Ministry of Fisheries and Oceans requirements and the Clean Marina Standards, making RVYC a leader in the environmental protection of the foreshore and area marine life"*

Press release, April 2008

