

Appendix D:

Contacts and Information Resources

Manuals and Reports

Maritime Industrial Waste Project: Reduction of Toxicant Pollution from the Maritime Industry in Puget Sound. King County, March 1992. (Being catalogued into the Department of Ecology resource center system; also available from King County at 206-689-3051.) Includes pressure-washing, bottom paints, stormwater, bilge and ballast water treatment, hazardous materials from boatyards, shipyards, and repair facilities. Provides waste characterization, review of treatment systems, vendors, cost analysis, and Best Management Practices (BMPs).

Boatyard Wastewater Treatment Guidelines—Seattle, Wash. Municipality of Metropolitan, Seattle, 1991. (In Ecology library.)

A Hazardous Waste Resource Manual for the Marine Service Industry. Puget Sound Alliance, August 1993. (In Ecology resource center system.) Includes BMPs, pollution prevention opportunities, case studies, and an overview of applicable regulations.

Best Management Practices for Ship and Boat Building and Repair Yards. Puget Sound Shipbuilders Association. Undated. (In Ecology resource center system.) Lists of vendors and services, and BMPs.

Best Management Practices for Small Boatyards. Department of Ecology, 1990. (In Ecology library.)

Pollution Prevention Opportunities—Reducing Hazardous Waste and Chemical Use in the Marine Industry. Puget Sound Alliance, 1993. (In Ecology library.)

Clean Marinas—Clear Value: Environmental and Business Success Stories. U.S. EPA (EPA 841-R-96-003). August 1996. (Being catalogued into Ecology resource center system)

Guides to Pollution Prevention: The Marine Maintenance and Repair Industry. U.S. EPA (EPA/625/7-91/015), 1991. Includes pollution prevention opportunity assessments, machine shop and engine repair wastes, paint and solvent wastes, chemical stripping and abrasive blast wastes, vessel cleaning, and spill control.

NPDES Handbook for Compliance with Washington State Department of Ecology NPDES Boatyard Permits. Northwest Marine Trades Association, 1992. (In Ecology library.)

Survey of Contaminants in Two Puget Sound Marinas. U.S. EPA, 1989. (In Ecology library.)

Waste Audit Study—Marineyards for Maintenance and Repair. California Department of Health Services, 1989. (In Ecology library.)

Commercial Fishing Vessel Waste Assessment, Squalicum Harbor, Bellingham, Wash. Cassandra Karuza, Huxley College of Environmental Studies, 1994. (Contact Tom Boucher, Department of Ecology Northwest Regional Office, 425-649-7180 or tbou461@ecy.wa.gov).

Sound Information: A Boaters Guide. Puget Soundkeeper Alliance, 1996. (Being catalogued into Ecology resource center system.) Covers bilge, sewage, oil and fuel, trash, cleaning products, hull maintenance, services and vendors.

Washington State Marina Directory. Robert Goodwin and Tim Farrell, University of Washington, 1991. (In Ecology library.)

Marine Maintenance and Repair: Waste Reduction and Safety Manual. North Carolina Department of Natural Resources and Community Development, 1991. (In Ecology library.) Includes derelict vessels, hazardous materials, engine servicing, paints, solvents, cleaners, caulks and adhesives, and fueling.

Underwater Hull Cleaning Guidelines. Department of Ecology, 1995 (Pub. # WQ-BR-95-79). A small brochure for boaters.

Practices and Products For Clean Marinas: A Best Management Practices Handbook. Paul E. Dodson, International Marina Institute, 1994. Emphasizes BMPs. (In King County Library, 206-689-3051)

Pollution Prevention for Marinas and Boat Yards: Best Management Practices for Wisconsin Operators. David S. Liebl, University of Wisconsin Extension, December 1994. (In King County Library, 206-689-3051)

Companion Report on Shipyards Roundtable Briefing. Covers briefing PPRC provided to public-interest organizations on the Shipyards Roundtable. Includes organizations' recommendations for future action. Available from PPRC (206-223-1151 or office@pprc.org)

Department of Ecology Contacts

Greg Cloud (360-407-6291 or gclo461@ecy.wa.gov) for information on boatyard permits, BMPs, vacuum sanders and anti-fouling paints.

Paul Stasch (360-407-6446 or pstas461@ecy.wa.gov) for information on a general permit for boatyard discharges, bottom paints and marinas.

Rob Reuter (425-649-7086 or rreu461@ecy.wa.gov) and ***Tom Boucher*** (425-649-7180 or tbou461@ecy.wa.gov) for information on boatyard wastes and pollution prevention.

Bernard Brady (360-407-6803 or bbra461@ecy.wa.gov) for information about the Maximum Achievable Control Technology (MACT) rule for air emissions control at boat manufacturing facilities and marine vessel loading operations scheduled to take effect on Nov. 15, 2000.

Other Northwest Regional Office contacts are:

John Drabeck (425-649-7293 or jdra461@ecy.wa.gov)

Bob Newman (425-649-7046 or bnew461@ecy.wa.gov)

Ron Devitt (425-649-7028 or rdev461@ecy.wa.gov)

Bob Wright (425-649-7060 or rowr461@ecy.wa.gov)

Internet Resources

The Naval Research Laboratory, Environmental Effects Branch

The Naval Research Laboratory (NRL) is the Navy's corporate research and development laboratory, which conducts research and engineering projects with the goal of preventing material degradation and failure in naval environments.

<http://thor.nrl.navy.mil/mstd/6310.html>

Enviro\$en\$e

Enviro\$en\$e, part of the U.S. Environmental Protection Agency's Web site, is a repository for pollution prevention, compliance assurance, and enforcement information and databases. Included are pollution prevention case studies, technologies, points of contact, environmental statutes, executive orders, regulations, and compliance and enforcement policies and guidelines. The site includes a search engine. Two publications of interest to shipyards that can be found on the site are *Waste Reduction Guide: Shipyards* and *Guides to Pollution Prevention: The Marine Maintenance and Repair Industry*.

<http://es.inel.gov/>

Tri-Services' Pollution Prevention Technical Library

Maintained by the Naval Facilities Engineering Service Center (NFESC), this Web site contains process data sheets including information on technology, materials compatibility, safety and health, benefits, disadvantages, economic analysis, points of contact and vendors.

<http://enviro.nfesc.navy.mil/p2library/paint.htm>

Available topics include:

☐ **Painting**

- Dry filter booth paint conversion
- High volume low pressure paint spray system
- Plural component proportioning system for epoxy paints
- Powder coating painting system
- Unicoat paint technology
- Water-borne paint
- Bulk paint storage
- Electrostatic paint spray system

☐ **Paint Removal**

- Automatic paint gun washer
- Paint stripping using sodium bicarbonate (baking soda) medium
- Carbon dioxide blasting operations
- Fluidized bed paint stripper

High and medium pressure water paint stripping processes
Plastic media blasting (PMB) paint stripping
Degreasing and paint stripping using sponge blasting
Paint stripping wheat starch blasting
Vacuum sanding system paint stripping process

❑ **Stormwater**

Sand filters for treating stormwater runoff
Vortex solids separators for treating stormwater runoff
Water quality inlets to control stormwater runoff
Wet detention ponds to treat stormwater runoff

Research Triangle Institute: Abrasive Blasting Operations

This site provides information on alternative blasting technologies such as wheat starch blasting, and includes case studies, economics data, and environmental requirements.

http://clean.rti.org/ab_gen.htm

SAGE

SAGE is an expert system software used to determine solvent/process alternatives most likely to work in a given case.

http://clean.rti.org/frm_test.htm

Environmental Resources & Information Center (ERIC)

Division of the Gulf Coast Region Maritime Technology Center

This site contains a list of pollution prevention measures dealing with paint management, solvent usage, machine shop wastes and spill cleanup.

<http://www.uno.edu/~enr/eric/techbriefs/brief1.html>

Tacoma-Pierce County Health Department Boating Page

This site contains pollution prevention ideas, boat maintenance tips, and a list of alternative boat maintenance products.

<http://www.healthdept.co.pierce.wa.us/water/boat/res.html>

Trade Associations, Organizations

Puget Sound Shipbuilders Association

1515 Fairview Ave. E
Seattle, WA 98102

Puget Sound Alliance

1415 W. Dravus
Seattle, WA 98119
206-286-1309

Northwest Marine Trade Association

1900 N. Northlake Way
Seattle, WA 98103
206-634-0911

American Waterways Operators

5615 W. Marginal Way SW
Seattle, WA 98106
206-768-3538

International Marina Institute

PO Box 284
Wickford, RI 02852
401-294-9558

National Marine Manufacturers Association

200 E. Randolph Drive, #5100
Chicago, IL 60601
312-946-6200

Marine Technology Society

1828 'L' St., NW
Washington, DC 20036
202-775-5966
206-523-4680 (Puget Sound Section)