

Alaska Clean Harbors

Empowering boaters to prevent the spread of marine invasives

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A Bit of Background

- Cook Inletkeeper
1995
- Clean Harbors
Working Group
2007
- Alaska Clean Harbors
program
development
2009-present



Photo: Kari Anderson, Seward





Alaska Clean Harbors

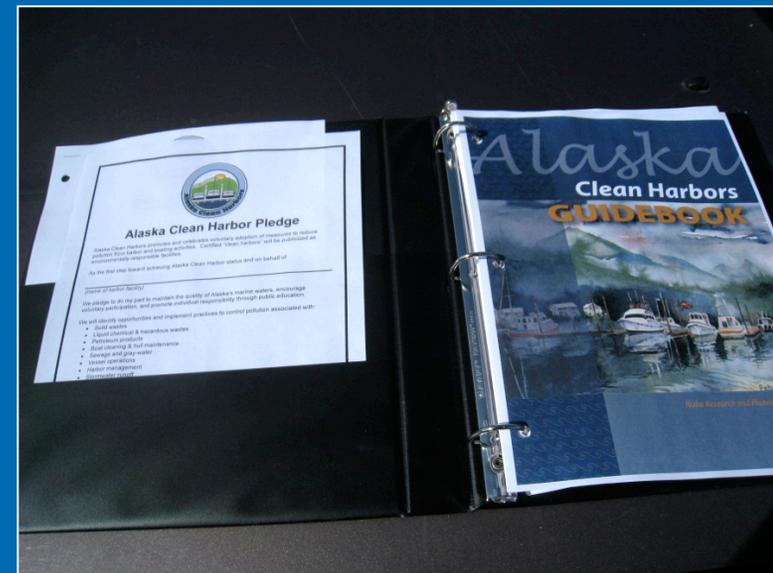
- Voluntary
- Non-regulatory
- Efficient & Effective
- Focus on harbor facilities and customers
- Requires:
 - Commitment
 - Communication





ACH Program Components

- Alaska Clean Harbors Guidebook
- Certification Pledge and BMP Checklist
- Technical & material assistance
- Boater educational materials
- Outreach materials
- ACH Website:
www.alaskacleanharbors.org





Pollution Prevention Through ACH

Eight categories:

- Solid Waste Management
- Liquid Chemical & Hazardous Waste Management
- Petroleum Product Management
- Boat Cleaning & Hull Maintenance
- Sewage & Pumpout Facility Operation
- Vessel Operation Management
- Harbor Management
- Stormwater Management



www.alaskacleanharbors.org

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Alaska Clean Harbors

USED OIL

DOG POT
PLEASE CLEAN UP AFTER YOUR DOG!

PUMPOUT

Clean Harbors are good business!

Home Certification Resources Participating Harbors Links Order News

Home

Harbors in Alaska's coastal communities are economic and social centers. They are integral to our way of life, and our quality of life. Harbors are the gateways to commercial, sport, and subsistence fisheries, aquaculture operations, recreational opportunities, and in many places primary transportation in and out.

However, routine activities (including hull repair, engine maintenance, fish cleaning, and fueling) can generate significant amounts of pollution in our harbors. While these industrial-type of activities are a necessary component to a working harbor, there are ways to do our daily business that are cost-effective and can minimize negative impacts on our environment and our fisheries.

Look through our website and see how Alaska Clean Harbors can help you and your facility reduce pollution, reduce costs, and increase compliance through a variety of cost-effective measures! We are here to serve YOU – don't hesitate to contact us with any questions, concerns, or ideas.

See a flier about Alaska Clean Harbors [HERE](#)

Download an ACH brochure [HERE](#)

ACH 2009-2010 Final Report [HERE](#)

Check out the presentation to the Alaska Association of Harbormasters and Port Administrators [HERE](#)



Cordova's Small Boat Harbor, March 2010



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Invasive Species

Non-indigenous and invasive species come into Alaska through ballast water, on vessel hulls, and on fouled gear. The introduction of these species into Alaskan waters may pose a serious environmental and economic threat.



The Alaska Sea Life Center maintains a page of web links for more information on marine and other invasives.



The Alaska Department of Fish & Game has a website dedicated to invasive species in Alaska.

Best Management Practices for preventing the spread of invasive species in Alaska

- Promote hull sterilization to prevent transport of non-indigenous species
 - Clean and scrub boat hulls, motors, anchors, and trailers, then hose equipment with hot (140F) and/or high-pressure water.
 - After thorough washing, all boat equipment should be allowed to dry for at least 24 hours. If you can't thoroughly wash your boat, clean it as best as you can and allow it to dry for at least 5 days with all compartments open.
- Encourage bilge cleaning and flushing to remove all non-indigenous species
 - Drain and flush your bilge, live well, bait buckets, and other compartments that hold standing water. If you recently boated in infested areas, flush any area with standing water with hot water (140F) or a solution of one cup of bleach to a gallon of water. **DO THIS AWAY FROM ANY WATER BODY!**



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Order from ACH

Materials currently available from Alaska Clean Harbors are pictured below. Please send an email to rachel@inletkeeper.org to order.

Note: obtaining some materials requires having signed a Clean Harbor pledge! Get yours [HERE](#)

Dumpster decals (available with a signed Clean Harbor pledge)

18" x 12" industrial decal



Clean Water signs (available to any harbor, while supplies last)

12"x8" .080 aluminum





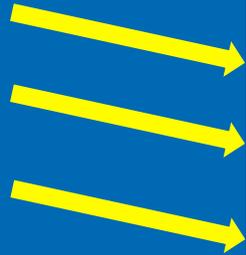
BMP Checklist

SECTION 6: Vessel Operation Management

GOAL: Promote boating management practices that reduce non-indigenous species transport, remove and dispose of derelict vessels, and encourage environmentally friendly boat winterization and engine cleaning.

SECTION 6: Vessel Operation Management

DOES YOUR FACILITY:		Guidebook Page #	YES	NO	N/A	FUTURE?
61.	Promote hull sterilization and/or bilge cleaning and flushing to remove all non-indigenous species?	70-71				
62.	Educate boaters and employees about detecting aquatic nuisance species and methods to prevent their spread?	70-71				
63.	Provide educational materials on preventing the spread of rats to harbor users?	70-71				
64.	Implement derelict vessel management ordinances?	71				
65.	Monitor and remove, if possible, derelict vessels?	71-72				
66.	Promote clean engine maintenance and repair practices?	72				
67.	Have parts washing policies and procedures to minimize pollution?	73				
68.	Minimize pollution from engine test tanks?	73				
69.	Establish boat hauling and storage procedures to minimize environmental impacts?	74				
70.	Minimize environmental impacts from winterization work?	74				





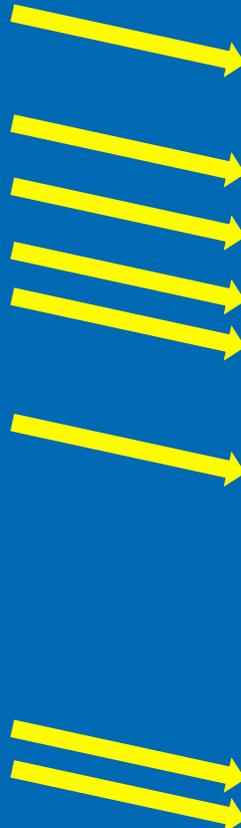
BMP Checklist

SECTION 7: Harbor Management

GOAL: Promote harbor management practices that foster compliance with pollution-reduction BMPs amongst harbor staff and harbor users.

SECTION 7: Harbor Management

DOES YOUR FACILITY:		YES	NO	N/A	FUTURE?
71.	Train employees to watch for inappropriate discharges?				
72.	Have a predetermined procedure for approaching polluters?				
73.	Incorporate best management practices into all contracts?				
74.	Post signs detailing best management practices in highly visible areas?				
75.	Encourage and recognize boaters who try to prevent pollution?				
76.	Publicize your facility-specific environmentally responsible actions?				
77.	Post your Alaska Clean Harbors goal(s) or pollution prevention policy statement?				
78.	Educate employees (including seasonal employees) and customers about pollution prevention in our routine meetings, training sessions, and/or newsletters?				
79.	Keep disposal and recycling records and compare the amount of waste generated and shipped with past years to monitor progress?				
80.	Distribute Alaska Clean Harbors Program information?				
81.	Regularly review emergency response procedures with staff?				
82.	Maintain staff training records?				
83.	Host workshops or other events to highlight and demonstrate best management practices?				





Clean Harbor Certification

SECTION 10: Calculate Your Score

If your score is equal to or greater than the minimum requirements, please contact the Alaska Clean Harbors Program at tel. #. **Applicable items are just yes or no, not NA.**

CALCULATE YOUR SCORE		
Legal & Regulatory Areas ♦	# of Yes responses _____ / # of applicable items _____ X 100 =	%
Alaska Clean Harbors Program	# of Yes responses _____ / # of applicable items _____ X 100 =	%
	Your Scores	Minimum Required Scores
Legal & Regulatory Areas ♦	_____ %	100%
Alaska Clean Harbors Program	_____ %	80% (or more)

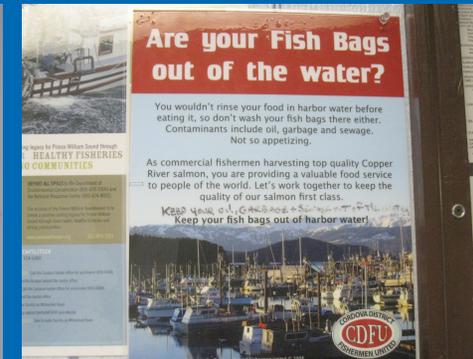
If you answered “yes” to all the legal requirements (**bold** marked with a ♦) that apply to your facility and received a score of 80% or higher out of the remaining goals, then you are eligible to be certified as an Alaska Clean Harbor.



Harbors As A Gateway

Harbors may be a gateway for marine invasives.

They are also a gateway for *Outreach & Educational Opportunities*





Harbor Management Opportunities

- Staff training
 - Identification
 - Response: who to call?
- Monitoring program
 - Check old lines
 - Tidal grids
- Spread the word



Photo: Dan Blackwood (USGS)

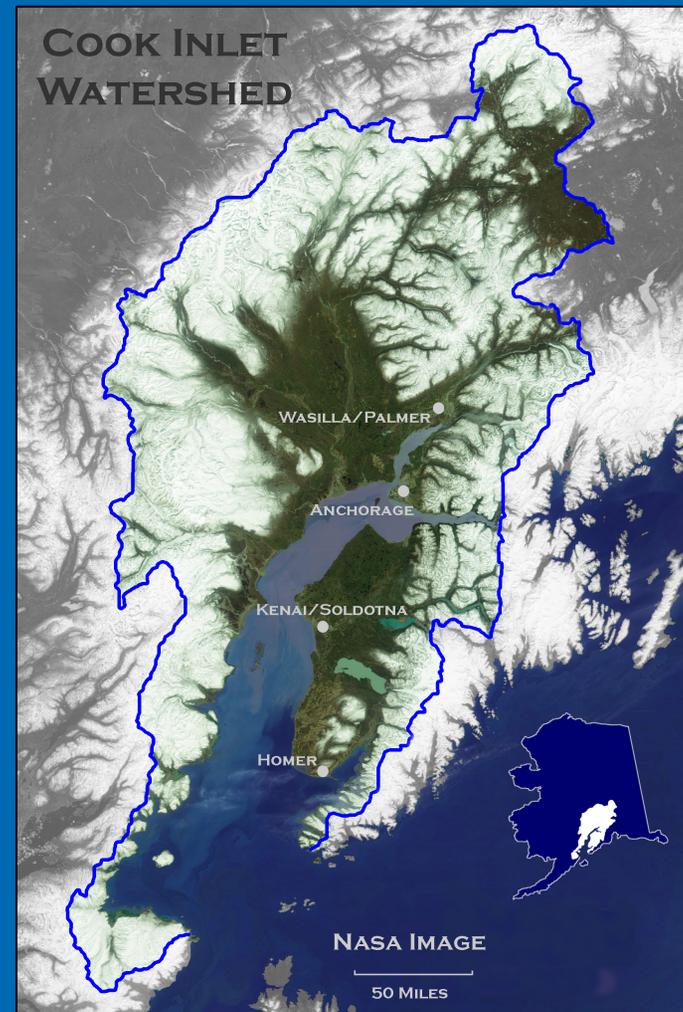


Photo: Gretchen Lambert (UW)



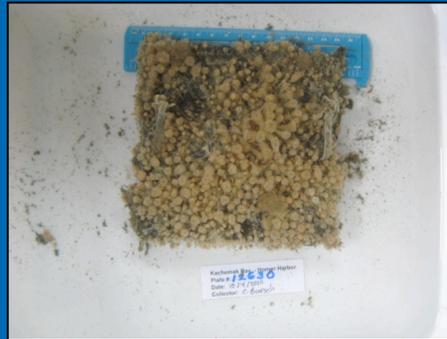
Marine Invasives in Kachemak Bay

- Currently led by the Kachemak Bay Research Reserve
- Harbor staff are interested in training



Kachemak Bay Research Reserve

Invasive tunicate monitoring



Regularly checking for invasive tunicates.

How: 10 plastic plates are suspended under a brick (for weight) in Seldovia and Homer Harbors and checked 3 times a year for what has settled on them.

Catching an invasive early is key to eradication.

Normally we see about 5 different native tunicates on the plates in Homer and Seldovia.



Kachemak Bay Research Reserve

European Green Crab monitoring

Issue: A crab species that isn't native to Kachemak Bay might move in.



If this crab becomes established it would diminish our seafood diet. They voraciously eat clams, mussels, and young dungeny crab.

Solutions:

Trap consistently in habitats they are likely to live in. Catching an invasive early is key to eradication. Educate more people who live and work around the water to recognize this invasive crab.



Take Home Message...

- Invasion into Alaska
 - Ballast water
 - Gear and boats from Outside
- Invasion *around* Alaska
 - Movement between harbors
 - Fouled hulls & fouled gear



Take Home Message...

Outreach & education in Alaska's harbors:
Potential to involve harbor users *and* harbor
staff



For more information contact:

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rachel@inletkeeper.org

www.alaskacleanharbors.org