

# Clean Rivers Cooperative and Maritime Fire and Safety Association

Partnerships ■ Response Capabilities ■ Regulatory Compliance



Port of Vancouver  
Board of Commissioners  
May 14, 2013

# A Strategic Partnership



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COOPERATIVE, INC.



In 1992, Maritime Fire and Safety Association, Columbia River Steamship Operators Association, and Clean Rivers Cooperative entered into a partnership to share expenses and resources to provide spill response coverage for the Lower Columbia and Willamette River System.

Merchants Exchange, as general service contractor, provides specified administrative and managerial services to MFSA and Clean Rivers today.



# Clean Rivers Cooperative, Inc.

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# What is Clean Rivers?

- Founded in 1971 as a nonprofit membership-based Oregon cooperative corporation
- Acts as the Oil Spill Response Organization (ORSO) providing mutual aid to a variety of companies whose facilities handle oil on the Columbia and Willamette Rivers
- Membership has grown to 23 member companies from the petroleum, shipping and wood products industries with the passing of the Oil Pollution Act of 1990 and similar state oil pollution laws
- Expanded duties to provide OSRO services to MFSA in 1992

# Clean Rivers Membership

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- BP
  - Columbia Pacific Bio Refinery
  - Chevron
  - Phillips 66
  - Exxon Mobil
  - Foss Maritime
  - Georgia-Pacific (Camas)
  - ICTSI Oregon, Inc.
  - Kinder Morgan Energy Partners
  - Longview Fibre Co.
  - NuStar Terminals (Portland)
  - NuStar Terminals (Vancouver)
  - Olympic Pipe Line Co.
  - Owens Corning Sales LLC
  - Paramount Petroleum
  - Portland General Electric
  - Pacific Terminal Services
  - Shell Oil Products US
  - Tesoro Refining & Marketing
  - Tidewater Barge Lines
  - Vigor Industrial LLC
  - Weyerhaeuser Paper Co.
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# Maritime Fire and Safety Association (MFSA)





# MFSA History

M.V. Protector Alpha - 1982





# What is the Maritime Fire and Safety Association (MFSA)?

A *not-for-profit* membership association established in 1983, consisting of Public Ports, Private Terminals, and the Columbia River Steamship Operators Association (“CRSOA”)

Promotes safety, fire protection and enhanced navigation on the Lower Columbia and Willamette Rivers.

Originally formed with the purpose of training and equipping land-based firefighters for facility and vessel firefighting response.

Expanded to address communication and oil spill response needs for all vessels.





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# Clean Rivers and MFSA: A Strategic Partnership

MFSA and Clean Rivers entered into a formal Oil Spill prevention and response partnership in 1992.

- Drills
  - equipment
  - tabletop
- Equipment
- Response
- Training





# Master Oil Spill Contingency Response Plan

Developed in 1992 in cooperation with Columbia River Steamship Operators Association (CRSOA) and State Agencies to meet State regulations for oil spill response for self-propelled vessels over 300 gross tons and oil barges.

- Oregon State Bill 242
  - Washington House Bill 1027
  - Oil Pollution Act of 1990 (Tank Vessels)
- Covers vessels calling the ports of the Columbia and Willamette Rivers.
  - Continuous State approval.
  - Achieve participation in regulatory process.
  - Meets local stakeholder needs.



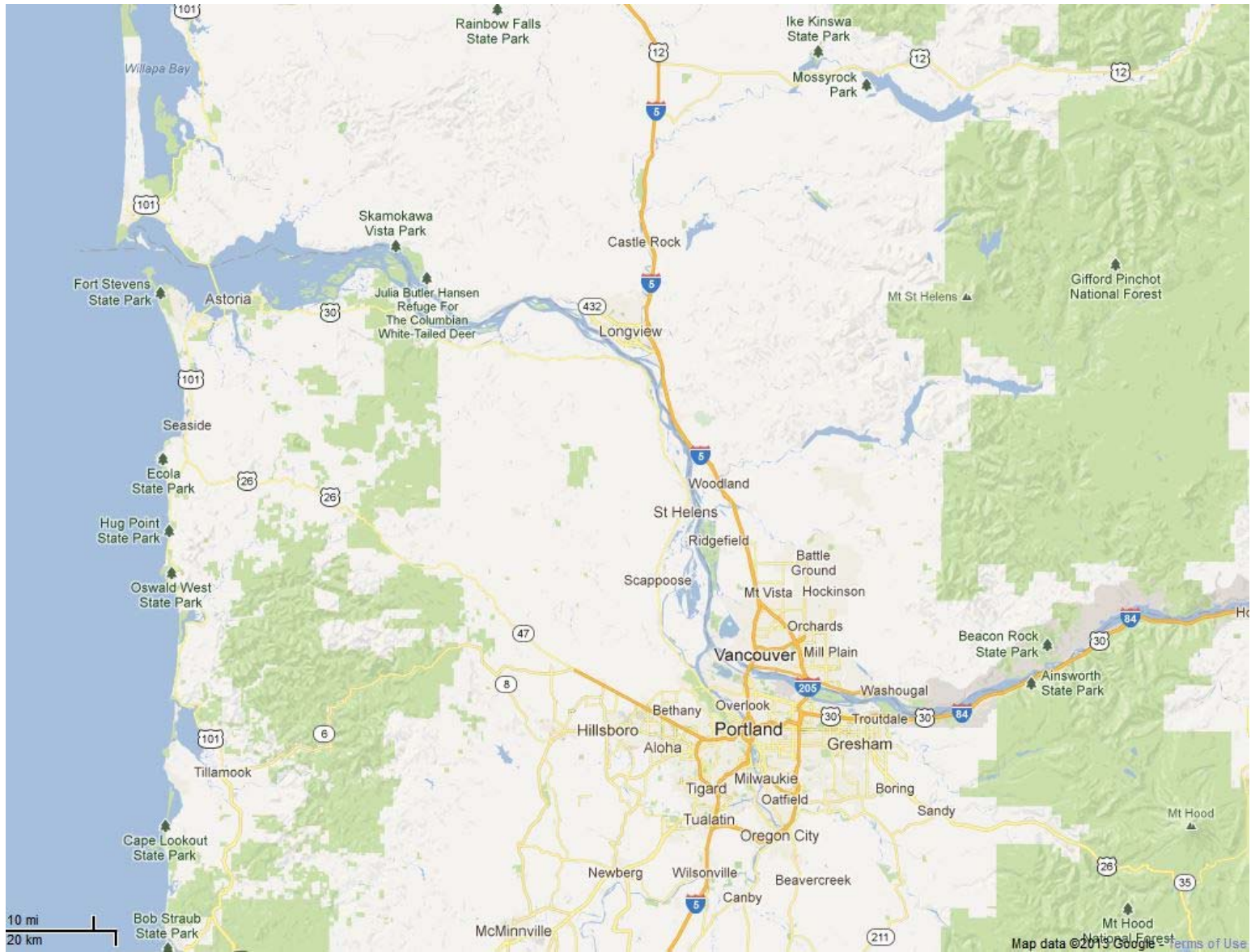
# Sample Planning Standards – for Vessels in Vancouver, WA

Time (hours)	Boom/Assessment	Minimum Oil Recovery Rate % of WCS volume per 24 hours	Minimum Storage Volume
2	Safety assessment 1,000 feet of boom		
3	Additional 2,000 feet of boom, or 4 times the length of the largest vessel whichever is less.		
6	Additional 6,000 feet of boom	Capacity to recover up to 12,000 barrels per day	An amount equal to recovery rate
12	Additional 20,000 feet of boom.	Capacity to recover up to 36,000 barrels per day	1.5 times the recovery rate
24	Additional 20,000 feet of boom.	Capacity to recover up to 48,000 barrels per day	2 times the recovery rate
48	More boom as necessary for containment, recovery or protection.	Capacity to recover up to 60,000 barrels per day	More as necessary to not slow the response.



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# MFSA/Clean Rivers Area of Coverage





# Clean Rivers/MFSA Equipment

- Co-own one of the largest inventories of oil spill response equipment on the Columbia and Willamette River System valued at \$4.1 million
- Equipment is dedicated to the Lower Columbia and Willamette River System
- Equipment is strategically staged, meeting regulatory planning standards to ensure a quick and efficient response

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## Boom

- 11,400 ft of 12 in.
- 1,000 ft of 40 in.
- 45,400 ft of 20 in.
- 700 ft of 30 in.

*62,600 total feet in boom*

## SRVs

- HW Zarling
- Mark O. Hatfield
- MFSA 1
- Clean Rivers 1

*All are 34-foot Kvichak boats with an EDRC of 3,720 bbls/day per vessel.*

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# Clean Rivers/MFSA Equipment

## Portable Skimmers

34 portable skimming devices that have a total EDRC rating of 58,573.

## Land-Based Storage Capacity

Ten 1,000 gallon Portable Fast tanks and millions of barrels of storage made available by member facilities.

## Mobile Equipment

Fully stocked wildlife care trailer, injured wildlife transport vehicle, generator system, portable net-pens and Mobile Command Unit.

## On-Water Storage Capacity

Six Shallow Water Recovery Barges equipped with Lori Skimmers having an EDRC of 2,473 per barge, five Shallow Water Barges and seven 2,500 gallon Towable Bladders available for use to store spilled product.





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# Clean Rivers Response Personnel

Service agreements are maintained with independent spill response contractors to provide clean-up services to Clean Rivers member facilities and MFSA enrolled vessels.

## NRC Environmental Services

- Offices in Portland, Oregon as well as Seattle, Tacoma, Pasco and Spokane, Washington
- Provides over 48 trained responders to operate our equipment including additional responders as available in the NW and California

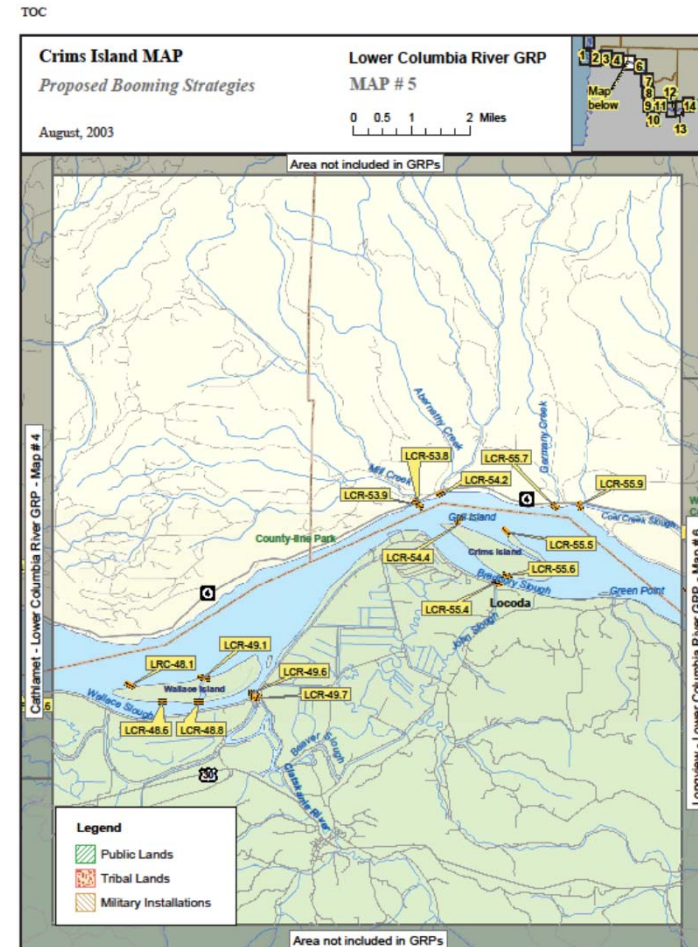
International Bird and Rescue Center Provides 25 trained wildlife response personnel and responders, and a 4-hour dispatch of initial teams.



24/7 Call Center  
Merchants Exchange  
houses a 24/7 call center  
to facilitate rapid, effective  
response.

# Geographic Response Plans

- MFSA's Contingency Plan and Clean River's equipment cache have been based on the historical movement of refined petroleum products – gasoline, diesel, bunker.
- **Geographic Response Plans (GRPs)** are pre-identified, detailed strategies to deflect, collect and recover spilled petroleum products as well as strategies to protect environmentally sensitive areas.

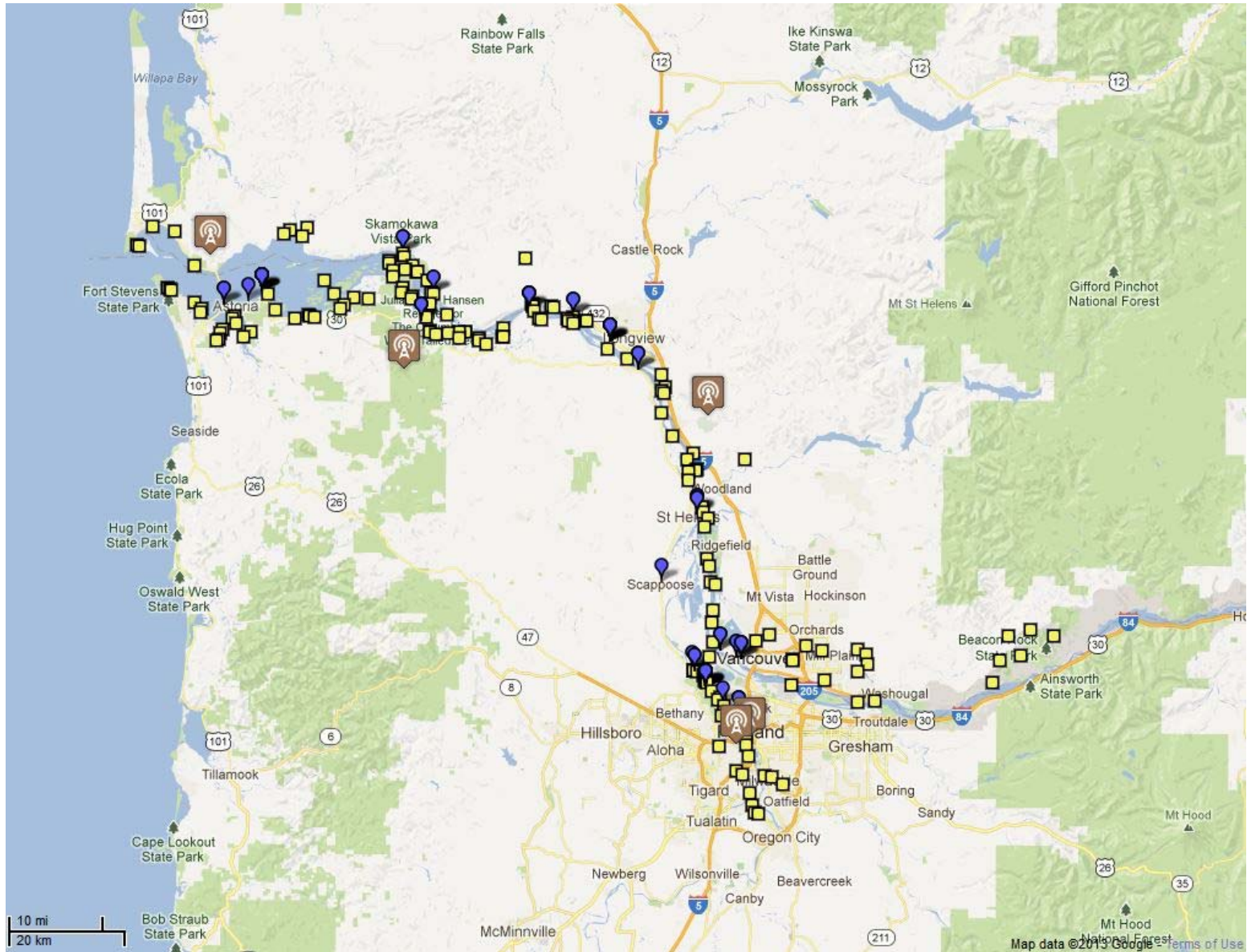






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# MFSA / Clean Rivers Resource Locations





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# MFSA/Clean Rivers Research

- **Oil Sands Products (OSP) Forum** MFSA and Clean Rivers attended this two-day meeting in April to learn more specific details on the products and how they behave in a spill as well as to bring the Columbia River presence.
- **Agency Interaction**  
The various regulatory agencies have been working with industry to understand the risks related to this product movement, as evidenced by the OSP forum as well as Northwest Area Committee (NWAC) Task Forces created to investigate the topic.



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# Conclusion

- **Maritime Fire & Safety Association and Clean Rivers Cooperative - Partnership in Oil Spill Prevention and Response since 1992**
- **Equipment and trained personnel strategically placed throughout area of coverage for prompt response**
- **Ongoing research through outreach in the industry**
- **Always learning and growing to accommodate the needs of our constituents**



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# Contact Information

- **Elizabeth Wainwright**, Executive Director MFSA  
[wainwright@pdxmex.com](mailto:wainwright@pdxmex.com)  
**(503) 220-2091**
- **Holly Robinson**, MFSA Preparedness, Response and Compliance Coordinator  
[robinson@pdxmex.com](mailto:robinson@pdxmex.com)  
**(503) 220-2099**
- **Ernie Quesada**, Clean Rivers Cooperative General Manager  
[quesada@pdxmex.com](mailto:quesada@pdxmex.com)  
**(503) 220-2087**