

How to Achieve Multiple Benefits from Implementing Green Stormwater Infrastructure



Technical Advisory Group

**New Partners for Smart Growth
Conference**
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Duwamish River and its Valley



In 2001, the EPA listed the Duwamish River as one of America's most toxic waste sites.

Duwamish now on cleanup list
Badly polluted waterway designated a Superfund site
BY LARRY LANGR
2/1 member

Region 10: The Pacific Northwest
Serving the people of Alaska, Idaho, Oregon, Washington and 270 Native Tribes

U.S. Environmental Protection Agency

News Release
EPA Study Confirms Contamination in Lower Duwamish River
April 21, 1999

For Immediate Release
The U.S. Environmental Protection Agency today announced that the Duwamish River waterway contains high levels of contaminants such as PCBs, heavy metals, and organotins (an additive in marine paints). Sampling was conducted as part of the National Priorities List (NPL) site assessment.

SEARCH

SUPERFUND SITE
Map showing the Duwamish River area in Seattle, Washington, designated as a Superfund site. The map includes labels for 'Northern boundary', 'Duwamish Waterway', and 'Southern boundary'.



Pollutants over WA

environmental/health standards

Lead

Mercury

Arsenic

Cadmium

Chromium

Copper

Silver

Zinc

PCBs

Dioxins

Anthracene

Fluorene

Fluoranthene

Naphthalene

Phenol

Pyrene

Pentachlorophenol

N-Nitrosodiphenylamine

Benzo(g,h,i,)perylene

Benzoic acid

Benzyl Acid

Benyl alcohol

Dibenzofuran

Hexachlorobenzene

cPAHs:

- **Benzo(a)anthracene**

- **Benzo(a)pyrene**

- **Benzo(b,k)fluoranthenes**

- **Dibenz(a,h)anthracene**

- **Indeno (1,2,3-cd)pyrene**

- **Chrysene**

Acenaphthene

Acenaphthylene

1,2,4-trichlorobenzene

1,4-dichlorobenzene

2,4-dimethylphenol

2-methylnaphthalene

Diethyl phthalate

Di-n-octyl phthalate

Butylbenzyl phthalate

Phenanthrene

Impacted Communities









The Final Cleanup Plan for the River

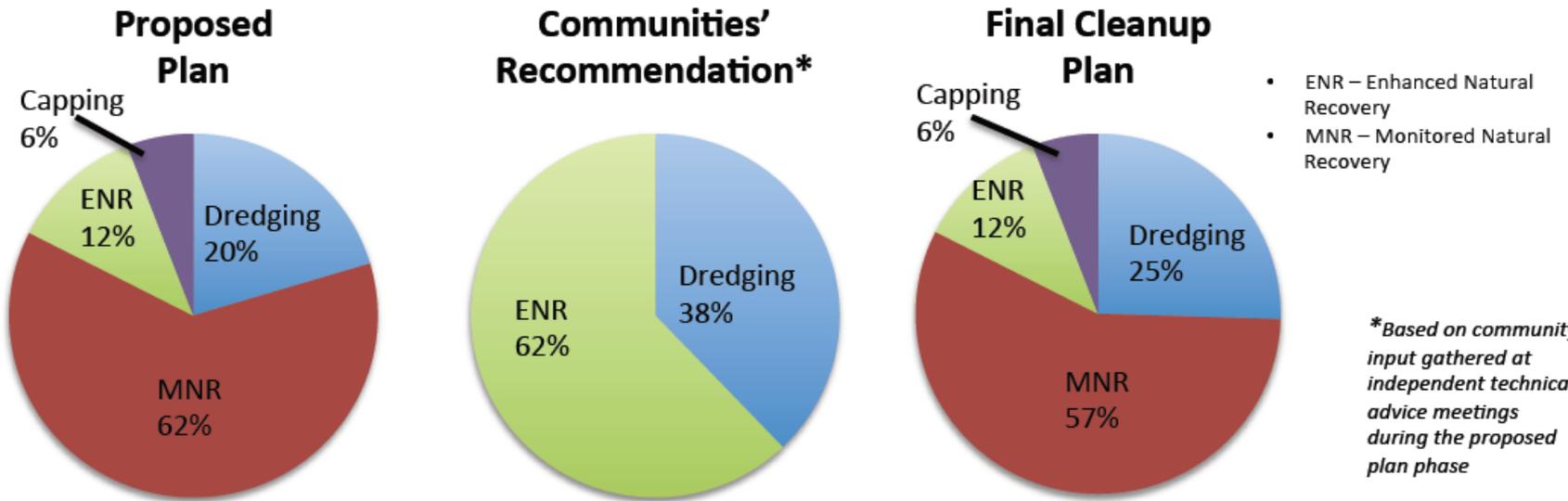


Figure 1: Comparison of cleanup alternatives between EPA's proposed plan, the communities' recommendation, and the Record of Decision



Healthy Communities Projects

Duwamish Valley Healthy Communities Project

Improving environmental and human health through

- *community-based research*
- *promoting protective and equitable policies*
- *taking action!*



Community and Project Partners



Other Community Priorities



1. At-risk youth programming
2. Neighborhood beautification/open space improvements
3. Air quality
4. Community building
5. Other







Green Stormwater Infrastructure

Duwamish Valley Youth Corps



Raingardens



**DRCC Youth Program rocks
the Orcas rain gardens!!**



Trees



Neighborhood beautification / open space improvements



Employment and professional skills development



Thank you!



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