

Combined Projects O&M Dredging Biological Assessment

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Seattle District

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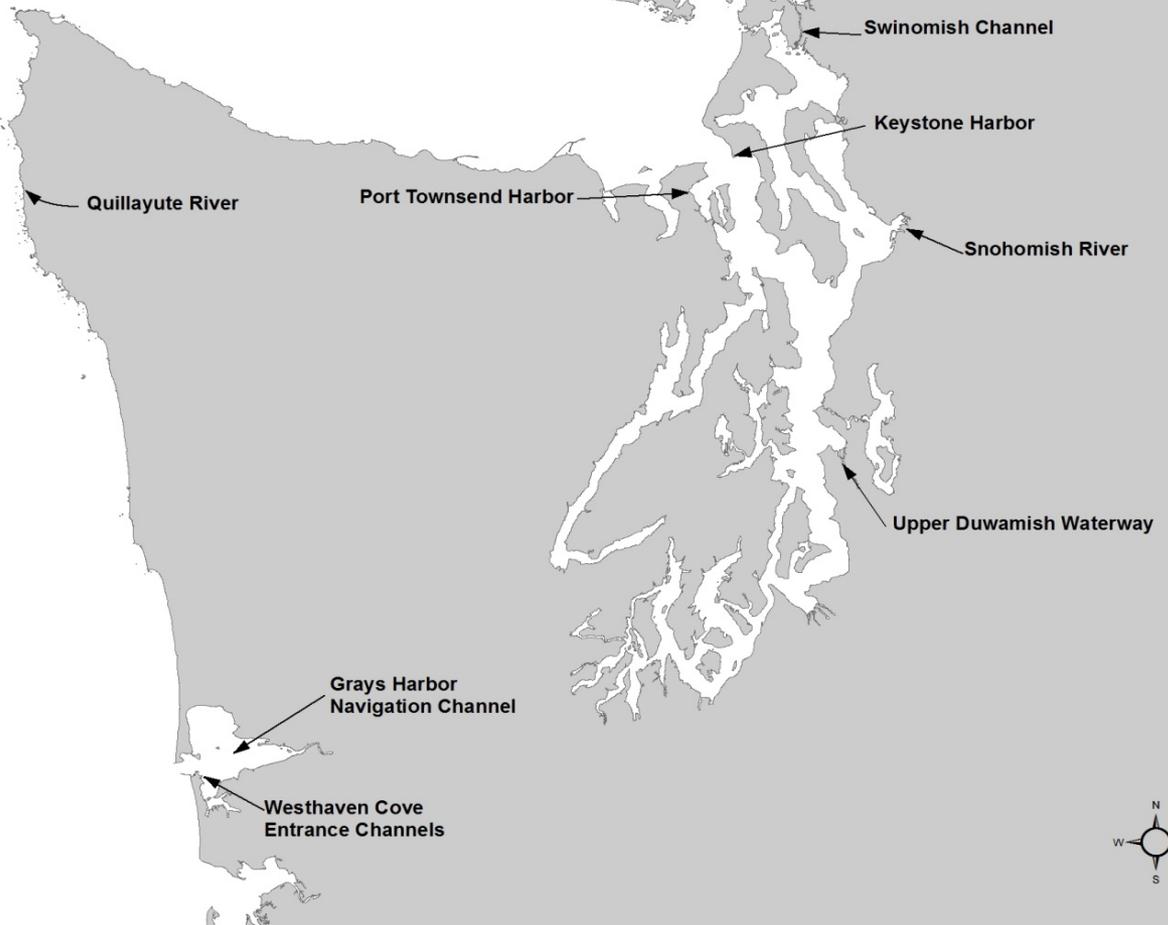
US Army Corps of Engineers
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O&M Dredging of 8 Federal Navigation Channels

- Swinomish Channel
- Keystone Harbor
- Snohomish River
- Upper Duwamish Waterway
- Port Townsend Harbor
- Quillayute River
- Grays Harbor
- Westhaven Cove Entrance Channels

Seattle District Maintenance Dredging
Projects in Western Washington



Disposal Sites

Location	Disposal Site	Disposal Site Type	Disposal Technique
Everett	Jetty Island	Upland and intertidal; beneficial use for beach nourishment	Hydraulic Pipeline, place onshore
Everett	Riverside	Upland beneficial use	Hydraulic Pipeline, place onshore
Everett	Site "O"	Upland beneficial use	Hydraulic Pipeline, place onshore
Keystone	Keystone Beach	Upland and intertidal beneficial use for beach nourishment	Transport barge and front end loader, or hydraulic pipeline, place onshore
Quillayute	Site A	Upland beneficial use	Hydraulic Pipeline, place onshore
Quillayute	Site B	Upland and intertidal beneficial use for beach nourishment	Hydraulic Pipeline, place onshore
Quillayute	First Beach	Upland and intertidal beneficial use for beach nourishment	Material moved from Site A via bulldozer
Grays Harbor	Half Moon Bay	Upland and intertidal beneficial use for beach nourishment	Hopper Dredge
Grays Harbor	South Beach	Upland and intertidal beneficial use for beach nourishment	Hopper Dredge
Grays Harbor	Point Chehalis Revetment Extension Mitigation Site	Upland beneficial use	Pump ashore via Hopper Dredge

Conservation Measures

- Clamshell whenever possible
- Stay within work windows
- Requirements for barges to prevent leaks/spills
- Seek opportunities for beneficial use of material
- Avoidance of disturbance of marine mammals



Status

- Submitted document to Services on December 16, 2016
- Requested letters of concurrence by May 1, 2016
- USFWS: Letter of Concurrence is forthcoming
- NMFS: Some projects need to complete formal consultation



Proposed Project Groups

■ Informal Consultation

- ▶ Keystone
- ▶ Port Townsend
- ▶ Quillayute (No Effect)
- ▶ Swinomish

■ Formal Consultation

- ▶ Grays Harbor
- ▶ Westhaven Cove
- ▶ Snohomish
- ▶ Duwamish

- Swinomish is undergoing analysis of effects to ESA species at beneficial use sites; USACE will provide to Services
- Westhaven Cove may eliminate option for hydraulic dredging
- USACE is preparing a response to NMFS



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