

MEMORANDUM FOR: RECORD

January 19, 2012

**SUBJECT:** VOLUME REVISION FOR THE PORT OF EVERETT MARINA MAINTENANCE DREDGING – PHASE I, FOR UNCONFINED OPEN-WATER DISPOSAL AT THE PORT GARDNER DMMP SITE.

1. This memorandum supplements the 13 April 2011 suitability determination and reflects the consensus decision on the part of the Dredged Material Management Program (DMMP) agencies (U.S. Army Corps of Engineers, Washington Departments of Ecology and Natural Resources, and the Environmental Protection Agency) regarding a proposed volume increase for the Phase I dredging (DMMU 1) from 29,000 cubic yards (cy) to 39,500 cy.
2. The original volume for DMMU 1 of 29,000 cubic yards was based on bathymetry conducted in 2008. Prior to the commencement of dredging in December 2011 a predredge survey was performed. It was determined that significant additional accretion of sediment had occurred in the intervening time. An isopach showing the difference in mudline elevations between the 2008 and 2011 surveys is shown in Figure 1. As can be seen from the isopach, the greatest amount of infilling occurred on the west and north sides of DMMU 1. It is highly likely that this infill consists of clean sediment from the Snohomish River.
3. The Port of Everett submitted a request on January 13, 2012 for a volume increase to 39,500 cy for the Phase I dredging (see Attachment 1). Based on the sedimentation pattern; the likelihood that the recently accreted material came straight from the Snohomish River; and past testing of sediment in the Snohomish River navigation channel, the DMMP agencies determined that there is little likelihood that the quality of the newly accreted sediment is an issue. Therefore, the agencies agree that the requested volume increase is permissible without additional sampling and testing.

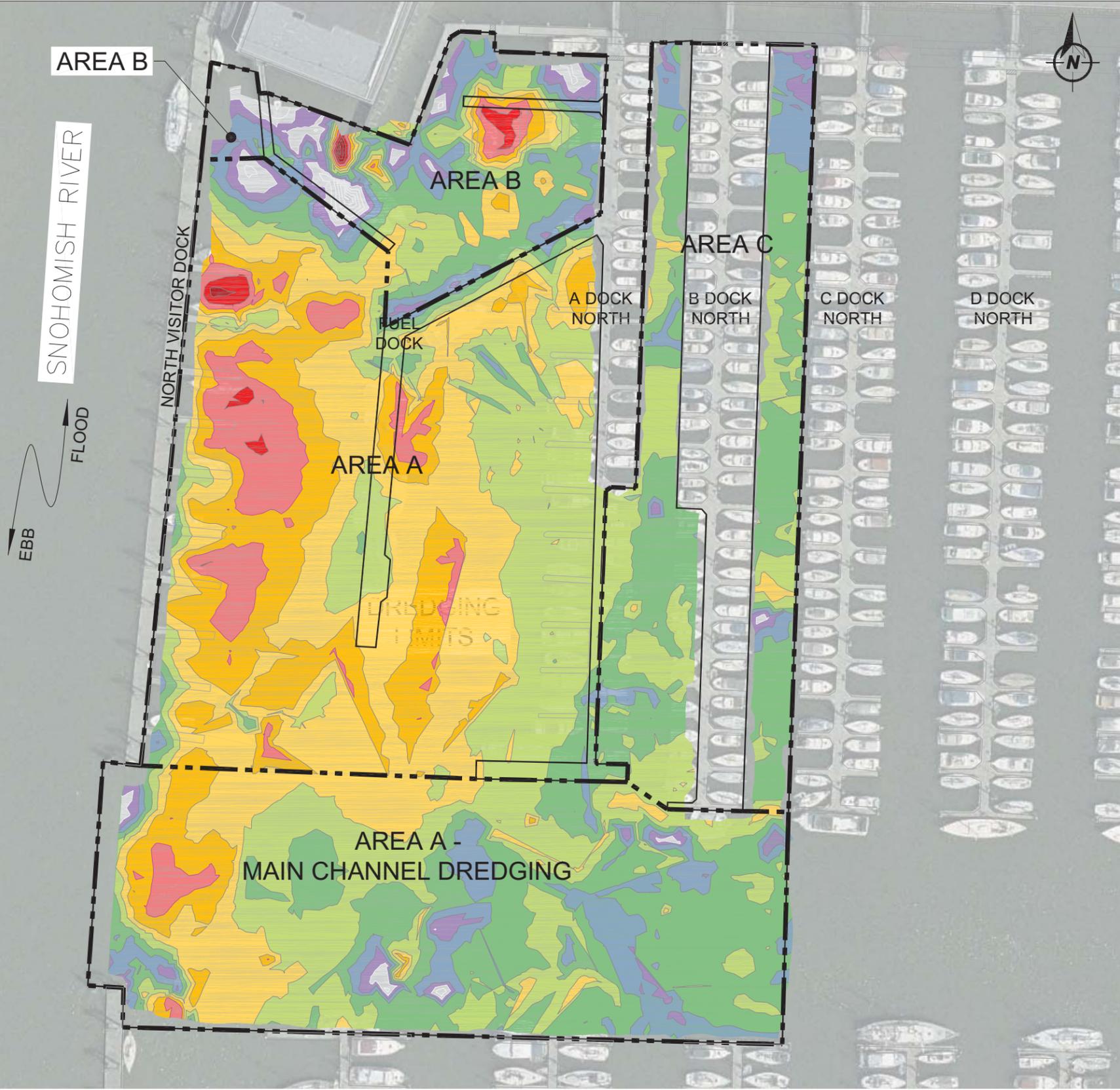


David Fox, P.E.  
Dredged Material Management Office

Copies furnished:

Laura Inouye – Ecology  
Erika Hoffman – EPA  
Celia Barton – DNR  
Erin Legge – Seattle District Regulatory  
Graham Anderson – Port of Everett  
Rob Gilmour – AMEC Geomatrix  
Nancy Case O'Bourke – Dalton, Olmsted & Fuglevand

PLOT TIME: 1/9/2012 1:10 PM MOD TIME: 1/9/2012 1:09 PM USER: Suzanne Kaminski DWG: D:\Projects\Port of Everett Marina PH\1\CAD\Figures\2012-01\POE Marina Dredge Phase 1 - isrpach.dwg



**NOTES:**

- EXISTING BATHYMETRIC SURVEY BASED ON PRE-DREDGE SURVEY 12/16/11. BATHYMETRY SHOWN IS CONSIDERED TO BE REPRESENTATIVE OF EXISTING CONDITIONS.
- PROJECT BENCHMARK IS BASED ON AN ALUMINUM DISK ON A CONCRETE MONUMENT IN CASE LOCATED IN THE PERIMETER DRIVING LANE FOR THE 10TH STREET BOAT LAUNCH PARKING, IN THE NORTHWEST CORNER OF THE PARKING LOT; SAID POINT IS REFERENCED IN THE "PORT OF EVERETT 12TH STREET MARINA" CONSTRUCTION PLANS AS POINT NUMBER 2000/E009, SHEET 6 OF 149. MLLW ELEV: 17.14'
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83). STATE PLANE COORDINATE SYSTEM (SPCS). WASHINGTON NORTH ZONE.
- VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

**LEGEND**

- DREDGING LIMIT
  - DREDGING AREA LIMITS
  - DEPTH CONTOUR COMPARING 2008 TO 12/16/11 SURVEY
  - <0.0 FT 2008 TO 2011 SURVEY
  - +0.0 TO 0.5 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +0.5 TO 1.0 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +1.0 TO 1.5 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +1.5 TO 2.0 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +2.0 TO 2.5 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +2.5 TO 3.0 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +3.0 TO 3.5 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +3.5 TO 4.0 FT DIFFERENCE 2008 TO 2011 SURVEY
  - +4.0 FT OR GREATER DIFFERENCE 2008 TO 2011
- 0 40  
Scale in Feet

FULL SIZE 22"X34" SHEET



| NO. | DATE | BY | REVISION | NO. | DATE | BY | REVISION |
|-----|------|----|----------|-----|------|----|----------|
|     |      |    |          |     |      |    |          |

|  |             |
|--|-------------|
| PROJECT ENGINEER:<br>N. CASE O'BOURKE 1"=40' | SCALE:      |
| DESIGNED BY:<br>N. CASE O'BOURKE 01/09/12    | DATE:       |
| DRAWN BY:<br>SMK                             | CHECKED BY: |
| APPROVED BY:                                 |             |

**PORT OF EVERETT**  
MARINA MAINTENANCE DREDGING PHASE 1  
COMPARISON  
2008 TO 2011 SURVEY

|                             |
|-----------------------------|
| DWG. NO.<br><b>FIGURE 1</b> |
| CIP NO.                     |
| PROJECT NO.                 |
| SHEET NO. 1 OF 1            |



January 13, 2012

USACE  
Erin Legge, Project Manager  
P O Box 3755  
Seattle, WA 98124-3755  
RE: 404 Permit No. NWS-2010-00974

Washington Department of Ecology  
Helen Pressley  
P O Box 47500  
Olympia WA 98504-7600  
RE: Water Quality Certification ODER #8541

Washington Department of Natural Resources  
Celia Barton  
1111 Washington St Se  
Olympia WA 98504-7027  
RE: Site Use Authorization #20-522028

Washington Department of Fish & Wildlife  
Laura Arber  
North Puget Sound  
16018 Mill Creek Blvd  
Mill Creek, WA 98012-1296  
RE: HPA Control Number 121345-1

USACE  
David Fox, DMMO  
P O Box 3755  
Seattle, WA 98124-3755  
RE: Port of Everett Marina Maintenance Dredging- Phase I

**Modification Request:**

The Port requests that the dredging volume for the existing permits and authorizations be amended from the current maximum of 29,000 CY to allow up to a maximum of 39,500 CY for the Phase I Marina Dredging project.

**Basis for the Request:**

The Port of Everett is currently conducting maintenance dredging in it's marina under the above-referenced permits and authorizations. As was documented in the recent agency email correspondence, which culminated in David Fox's email on Tuesday, January 10<sup>th</sup> (attached), the dredging project design was based on a 2008 condition survey. This was not unreasonable, given that the marina had not been dredged since 2001 and as a result any infill was not anticipated to be significant. However, the pre-dredge survey shows a 90% increase in dredge volumes. An isopach comparison of the design and pre-dredge surveys shows that the infill material appears to be coming from the Snohomish River, as the greatest infill volume is located at the marina entrance and east of the floating visitors' dock that separates the marina from the river. The infill volume decreases toward the east as you get further away from the river.

Should you have any questions or need additional information regarding this request, please contact me directly.

Thank you for your consideration.

Graham Anderson  
Director of Planning & Environmental Programs  
(425) 388-0703