



**US Army Corps
of Engineers®**

Portland District

Columbia River Channel Improvement Project

Final Supplemental Integrated Feasibility Report
and Environmental Impact Statement

Volume 2

Exhibits
1 of 2

January 2003

Preface for Exhibits

The following exhibits required no updating for the Final Supplemental IFR/EIS (see the Final IFR/EIS, August 1999):

Exhibit A – Correspondence
Exhibit B – Scoping Documentation
Exhibit C – Fish and Wildlife Coordination Act Report
Exhibit D – Section 103 Evaluation
Exhibit G – Biological Assessment for Wildlife and Plants

Exhibit H required no updating and is available on the Corps web page under consultation

The following exhibits ***have been revised or are new*** for the Final Supplemental IFR/EIS:

Exhibit E - Section 404(B)(1) Evaluation (Revised)
Exhibit F - Coastal Zone Management Act Consistency Determination (Revised)
Exhibit I - Essential Fish Habitat Assessment (Revised)
Exhibit J - Columbia River Sediment Impacts Analysis (Revised)
Exhibit K
 K-1, Evaluation Report White And Green Sturgeon (Revised)
 K-2, Evaluation Report Smelt (Revised)
 K-3, Evaluation Report Fish Stranding (Revised)
 K-4, Evaluation Report Dungeness Crab (Revised)
 K-5, Wildlife And Wetland Mitigation (Revised)
 K-6, Royalty Fees For State-Owned Dredged Material (Revised)
 K-7, Evaluation Report Floodplains (Revised)
 K-8, Part I - Consistency With Critical Areas Ordinances Including Wetland Mitigation Plan (Revised)
 Part II - Wetland Mitigation Plan
 K-9, Consistency With Washington Local Shoreline Master Programs (Revised)
Exhibit L - Cost Estimate Summary (Revised)
Exhibit M - Economic Analysis (Revised)
Exhibit N - Physical and Biological Studies of the Deep and Shallow Water Sites

List of Exhibits

Volume 2

Exhibit E - Section 404(B)(1) Evaluation (Revised)

Exhibit F - Coastal Zone Management Act Consistency Determination (Revised)

Exhibit I - Essential Fish Habitat Assessment (Revised)

Exhibit J - Columbia River Sediment Impacts Analysis (Revised)

Appendix A - Columbia River Sedimentation Processes; The Lower
River to the Coast

Exhibit K

K-1, Evaluation Report White And Green Sturgeon (Revised)

K-2, Evaluation Report Smelt (Revised)

Report A - Project Summary And Final Recommendations

Report B - Migration Timing And Distribution Of Larval Eulachon In The
Lower Columbia River, Spring 2001

Appendix A - Schematic diagrams of modified plankton net gear
used in 2001 larval eulachon sampling

Appendix B - Larval eulachon sampling sites, 2001

Report C - Use Of An Artificial Substrate To Capture Eulachon Eggs In
The Lower Columbia River

Report D - Characterization Of Development In Columbia River Prolarval
Eulachon *Thaleichthys Pacificus* Using Selected Morphometric Characters

K-3, Evaluation Report Fish Stranding (Revised)

K-4, Evaluation Report Dungeness Crab (Revised)

Attachment A - The Impacts of the Columbia River Channel Improvement
Project Dredging and Disposal on Dungeness Crabs (*Cancer magister*)

Attachment B - Estimated Entrainment Of Dungeness Crab During
Dredging

Appendix A

A1 – Desdemona June AEL

A2 – Desdemona September AEL

A3 – Upper Sands AEL

A4 – Miller Sands AEL

A5 – Fish Inverts

Appendix B

B1 – Desdemona June Projection

B2 – Desdemona September Projection

B3-B5 – Flavel Bar Project

B6 – Upper Sands Project

B7 – Tongue Point Project

K-5, Wildlife And Wetland Mitigation (Revised)

K-6, Royalty Fees For State-Owned Dredged Material (Revised)

- Attachment A – Washington Agreement For Deposit, Sale, And Use Of State-Owned Dredged Material
- Attachment B – Oregon Agreement For Deposit, Sale, And Use Of State-Owned Dredged Material
- K-7, Evaluation Report Floodplains (Revised)
 - Table 1 - Floodplain designation for Proposed Disposal Plan Alternative
 - Table 2 - Floodplain designation for Least Cost Disposal Plan Alternative
- K-8, Part I - Consistency With Critical Areas Ordinances Including Wetland Mitigation Plan (Revised)
 - Part II - Wetland Mitigation Plan
- K-9, Consistency With Washington Local Shoreline Master Programs (Revised)

Volume 3

- Exhibit L - Cost Estimate Summary (Revised)
 - Appendix A – Total Project Cost Summary (Corps Plan)
 - Appendix B – Total Project Cost Summary (Proposed Sponsor Plan)
- Exhibit M - Economic Analysis (Revised)
- Exhibit N - Physical and Biological Studies of the Deep and Shallow Water Sites
 - Attachment A - Sediment Trend Analysis and Acoustic Bottom Classification
 - Attachment B - Physical and Chemical Sediment Characterization Baseline Study
 - Attachment C - Physical Baseline Study Seafloor Mapping Survey
 - Attachment D - Biological Baseline Study DWS and Crab Abundance Study SWS