1		FILED IN OPEN COURT
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7		ASHINGTON Y SUPERIOR COURT
8	STATE OF WASHINGTON,)
9	DEPARTMENT OF ECOLOGY,	NO. 07-2-02257-7
10	Plaintiff,	FIRST AMENDMENT TO CONSENT
11	v.	DECREE RE: WHATCOM WATERWAY SITE
12	PORT OF BELLINGHAM, a Washington municipal corporation; WASHINGTON	
13	STATE DEPARTMENT OF NATURAL RESOURCES; MERIDIAN-PACIFIC	
14	HWY, L.L.C., a Washington limited liability company; and the CITY OF	
15	BELLINGHAM, a Washington municipal corporation,	
16	Defendants.	
17	Defendants.	
18	Pursuant to Section XV of the Cons	sent Decree Re: Whatcom Waterway Site (the
19	"Consent Decree"), entered by this Court	on September 24, 2007, Plaintiff, State of
20	Washington, Department of Ecology (Eco	ology), and Defendants, Port of Bellingham,
21	Washington State Department of Natural Re	esources (DNR), Meridian-Pacific Hwy, L.L.C.,
22	and the City of Bellingham, hereby stipulate to	amend the Consent Decree as follows:
23	1. Subsection B of Section XVIII	(Covenant Not to Sue) of the Consent Decree is
24	replaced in its entirety by the following langua	age:
25	B. This Decree covers or	nly the Site specifically identified in the Site
26	Diagram (Exhibit A) and those hazard	ous substances that Ecology knows are located at
]	I !	

the Site as of the date of the initial entry of this Decree on September 24, 2007, not the date of any subsequent amendment thereto. In the event of an amendment to this Section XVIII pursuant to an amendment under Subsection D or a reopener under Subsection E to incorporate hazardous substances not covered by this Decree, Ecology agrees that those areas effectively contained under a clean sediment layer or cap pursuant to the First Amendment to Exhibit B, Cleanup Action Plan, will not be required to be excavated or otherwise disturbed to further address such contamination. Other requirements such as monitoring may apply in these or other areas of the Site, and these areas would still be subject to the reopeners in subsection E of this Section. This Decree does not cover any other hazardous substance or area. Ecology retains all of its authority relative to any substance or area not covered by this Decree.

- 2. Exhibit B to the Consent Decree is amended as provided by the attached Exhibit 1 (First Amendment to Exhibit B, Cleanup Action Plan).
- 3. Exhibit C to the Consent Decree is replaced in its entirety by the revised Exhibit C, attached as Exhibit 2 (First Amendment to Exhibit C, Schedule of Work and Deliverables).

Except as set forth above, all other provisions of the Consent Decree remain in full force and effect, unchanged by this First Amendment.

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Program Manager Toxics Cleanup Program

(360) 407-7177

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ROBERT M. MCKENNA

Attorney General

Assistant Attorney General

(360) 586-6762

1	PORT OF BELLINGHAM	WASHINGTON STATE DEPARTMENT
2	A) sell	OF NATURAL RESOURCES
3	Michael McAuley, President	Peter Goldmark
4	Michael McAuley, President Port of Bellingham Commission (360) 676-2500 Date:	Commissioner of Public Lands (360) 902,1001
-Z	Date:	Date: 27, 204
,		
6	MERIDIAN-PACHTG HWY, L.L.C.	CITY OF BALLINGHAM
7		Da. IV HI
8	David Ebenal, Member	Dan Pike, Mayor (360) 778 8100
9	(360) 738-1940 (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	(360) 778-8100 Date: 6/27/11
10		/
11	ATTEST	APPROVED AS TO FORM
12	K. Drummel fr John Cata 6 20/11	Joan Dorsington
13	John Carter, Finance Director City of Bellingham	Joan Hoisington, WSBA #7966 City Attorney, City of Bellingham
14	(360) 778-8000 Date: 6/27/11	(360) 778-8270 Date: <u>6-21-11</u>
15		
16	ENTERED this 19 day of Aug	2011.
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19		JUDGE Whatcom County Superior Court
20		Whatcom County Superior Court
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Exhibit 1

First Amendment to Consent Decree Re: Whatcom Waterway Site, Bellingham, WA

First Amendment to EXHIBIT B Cleanup Action Plan

[The Cleanup Action Plan (CAP) is amended as follows:]

Table of Contents

[No change, except the following new subsections 5.6 and 7.1.8 are inserted into the CAP:]

- 5.6 Basis for Changes by the First Amendment to the Cleanup Action
- 7.1.8 Over Water Walkway Project

List of Figures

[No change, except the following new figure is inserted into the CAP:]

Figure 6-5 Whatcom Waterway Cleanup Action – First Amendment

[And, Figure 7-2 is replaced with the following:]

Figure 7-2 Implementation Schedule – First Amendment

List of Appendices

[No change, except the following new Appendix is inserted into the CAP:]

Appendix B-1 Estimated Remedial Costs – First Amendment

1 Introduction

[No change]

1.1 Site Description

[No change]

1.2 Purpose and Scope

[No change, except for the following language added at the end of the subsection:]

Amendments to this CAP were made in 2011 based on updated information from the pre-remedial design investigation (Pre-Remedial Design Investigation Data Report, Anchor 2010; PRDI Data Report) conducted by the Port. This updated information indicated that levels of dioxin/furans in buried sediments off-shore of the shipping terminal (Units 1A/1B) would be unlikely to meet Dredged Material Management Program (DMMP) guidelines for open-water disposal, as planned in the original CAP.

Prior to 2007, the DMMP guidelines included a concentration limit of 15 ng/kg (expressed as dioxin/furan TEQ), which if exceeded would trigger the requirement to perform bioaccumulation testing. From 2007 to December 6, 2010, the DMMP adopted more stringent interim dioxin guidelines that included new maximum concentration limits and additional project average limits that varied depending on the specific disposal site used. DMMP subsequently issued new interim dioxin guidelines effective December 6, 2010 that are applicable to all Puget Sound disposal sites. The new guidelines include a 4 ng/kg TEQ concentration as a disposal site management objective, and require additional, modified testing and evaluation for sediments containing dioxin/furan concentrations greater than 10 ng/kg TEQ.

Testing conducted as part of the PRDI (Anchor 2010) found average dioxin/furan concentrations of 33 ng/kg TEQ in the Unit 1A and 1B dredge materials. As a result, Ecology considered it unlikely that these units would meet DMMP guidelines for open water disposal, as planned in the original CAP.

The primary effect of this was that a different disposal option was needed for the 1A/1B materials slated for open-water disposal in the original CAP. This also presented an opportunity to manage a portion of the 1C materials and the 5B materials differently.

In addition, the Port proposed changes to the cleanup schedule to accommodate early redevelopment actions and expedite the cleanup.

Under a First Amendment to the Cleanup Action Plan Re: Whatcom Waterway Site (First Amendment to the CAP), adjustments were made to the original cleanup action selected for these specific areas of the Site (Figure 6-5). The CAP now requires the Port to do the following:

- After removing contaminated industrial sludge and sediment from the industrial waste lagoon (Unit 8) and disposing of it in an approved upland landfill, remove an estimated 340,000 cubic yards of clean material from Unit 8. Stockpile clean material for later use; and
- Place contaminated material dredged from Units 1A, 1B, 5B, and a portion of 1C into Unit 8. Contain the placed material under a clean sediment layer, or cap, and apply institutional controls to eliminate exposure to humans and the environment.

The project schedule was also adjusted to reflect a change in the project sequencing to allow the Port to clean up the inner waterway portion of the Site first (Units 2A, 2C, 3, 4, and a portion of Unit 1C), followed by the remainder of the Site.

As outlined in the sections below, these adjustments are consistent with the planned land use for the Site (the Port of Bellingham's plans to continue deep draft shipping, and to convert Unit 8 to a marina), and meet the requirements of the Model Toxics Control Act (MTCA), the MTCA Regulation, and the Sediment Management Standards.

At the time the First Amendment to the CAP was developed, Ecology was still completing a broader evaluation of dioxin and furans throughout Bellingham Bay and Puget Sound. The outcome of these evaluations could result in a future amendment to the CAP. The regulatory framework to address these contaminants is still evolving as described in section 6.1.2 of the PRDI Data Report.

2 Site Background

[No change]

3 Cleanup Requirements

[No change]

3.1 Cleanup Levels

[No change]

3.1.1Sediment Cleanup Levels

[No change]

3.2 Points of Compliance

[No change]

3.3 Sediment Cleanup Action Objectives

[No change]

3.4 Applicable Local, State, and Federal Laws

[No change]

3.4.1 Required Permits and Approvals

[This subsection is replaced in its entirety.]

Cleanup actions at the site are anticipated to require the following permits:

- Permit for discharge of dredged, excavated or fill material to waters of the United States pursuant to Section 404 of the Clean Water Act.
- It is anticipated that Phase 1 of the site cleanup will be performed using a Nationwide 38 permit, and Phase 2 will use an Individual 404 permit, both issued by the Corps. The federal permitting process includes review of issues relating to wetlands, tribal treaty rights, threatened and endangered species, habitat impacts, historical/archeological resources, dredged material management, environmental impacts in accordance with the National Environmental Policy Act, and other factors. The time required to complete federal permitting and associated regulatory reviews can vary from one to several years. The following describes several of the federal permitting issues:

Endangered Species Act Review

• The site area is potential habitat for threatened and/or endangered species; therefore, cleanup actions will be subject to Endangered Species Act review. The National Marine Fisheries Service and the United States Fish and Wildlife Service will perform the review as part of the Corps permit process.

Historical/Archaeological Review

 As part of the Corps permit process, the Corps will review the cleanup actions to determine whether they will disturb historical or archaeological resources.

National Environmental Policy Act (NEPA) Review

- Construction projects are subject to environmental impact review under SEPA and/or NEPA regulations. The SEPA review for the cleanup of the site was completed by Ecology through the DSEIS. NEPA review will be completed by the Corps through the 404 permit process.
- Water Quality Certification from the State of Washington pursuant to Section 401 of the Clean Water Act.
- As part of the 404 permitting process, a section 401 water quality certification must be obtained from Ecology. Certification ensures that the 404 permitted actions will comply with state water quality standards and other aquatic resource protection requirements under Ecology's authority.
- National Pollutant Discharge Elimination System Waste Discharge Permit for discharge of pollutants to waters of the United States pursuant to Section 402 of the Clean Water Act.
- The cleanup of the site will generate waste water that will be either discharged to the local sanitary sewer system or to surface water. Discharge of pollutants to surface water requires a permit under section 402 of the Clean Water Act to ensure compliance with state water quality standards. National Pollutant Discharge Elimination System permits are obtained from Ecology.
- Washington State Scientific Collection Permit for the collection of foodfish, shellfish, or wildlife or their nests and/or eggs for the purpose of research or display pursuant to WAC 220-20-045 and WAC 232-12-276.

• Post-cleanup monitoring of the site will require the collection of Dungeness crab to ensure that mercury tissue concentrations remain below applicable standards. The Washington State Department of Fish and Wildlife issues this permit as part of their management and protection of the resource.

3.4.2 Substantive Requirements

[No change]

4 Description of Remedial Alternatives Considered in the RI/FS

[No change]

5 Basis for Selection of the Proposed Cleanup Action

[No change, except the following new subsection 5.6 is inserted into the CAP at the end of this section:]

5.6 Basis for Changes by the First Amendment to the Cleanup Action

This section presents the basis for the changes to the cleanup action made by the First Amendment to the CAP, including an evaluation of disposal options.

5.6.1 Units 1A, 1B, and 1C

Based upon data in the PRDI Data Report, it was determined that levels of dioxin/furans (average 33 ng/kg TEQ) in Units 1A/1B (124,400 cubic yards) would likely be too high to meet requirements for open-water disposal, as planned originally. Therefore, other disposal options needed to be evaluated. The two options available were upland disposal in an approved landfill, or disposal and capping in Unit 8 (Figure 6-5). Disposal in Unit 8 was also evaluated for a portion of the 1C materials (67,800 cubic yards) originally planned for upland disposal. Upland disposal and disposal in Unit 8 are described and evaluated below.

Dredging and Upland Disposal

Upland disposal would meet cleanup standards through removal of contaminated sediments and placement in an approved upland disposal location.

Dredging and Unit 8 Disposal

Following removal and upland disposal of contaminated sludge and sediment from Unit 8, an estimated 340,000 cubic yards of clean material would be removed and stockpiled for later use. This provides disposal capacity for material from other site units.

Dredging, and disposal and capping in Unit 8 would meet cleanup standards through a combination of containment and institutional controls. The containment cap would be designed to prevent disruption of contained material by planned marina activities, including periodic dredging. The cap would have a nominal thickness of at least 3 feet and is expected to consist of sandy sediments. The final cap elevation, thickness, and composition (including any armoring or modifications to address cap erosion potential) would be determined during engineering design.

Evaluation

Both options would comply with MTCA threshold criteria and have a reasonable restoration timeframe:

	Threshold Criteria and Restorat	ion Timeframe
	Units 1A, 1B, and a Port	tion 1C Disposal Options
Threshold Criteria	Dredging with Unit 8 Disposal and Capping	Dredging with Upland Disposal
Protection of Human Health and the Environment	Complies with cleanup standards	Complies with cleanup standards
Compliance with Cleanup Standards	Complies with cleanup standards described in Section 3 through containment and institutional controls	Complies with cleanup standards described in Section 3 through removal and upland disposal
Compliance with Applicable State & Federal Laws	By requiring appropriate project design and permitting, option will comply with applicable state and federal laws	By requiring appropriate project design and permitting, option will comply with applicable state and federal laws
Provisions for Compliance Monitoring	Provides for compliance monitoring of cap to ensure long-term integrity	Compliance monitoring not required
Restoration Time-Frame (pertains to the time required to meet cleanup standards)	6 to 7 years for design and construction	6 to 7 years for design and construction

The MTCA disproportionate cost analysis (DCA) is used to determine which cleanup option that otherwise meets site cleanup standards is permanent to the maximum extent practicable. The DCA is performed by comparing the environmental benefits and costs of cleanup options.

Evalı	nation of Permanence using	MTCA DCA
	Units 1A, 1B, and a Port	ion of 1C Disposal Options
	Dredging with Unit 8 Disposal and Capping	Dredging with Upland Disposal
Disposal Volume	192, 200 c.y. (124,400 c.y + 67,800 c.y.)	192,200 c.y.(124,400 c.y + 67,800 c.y.)
Core Costs (Including contingency, see Appendix B-1)	\$6.9 million (2010\$)	\$23.6 million (2010\$)
Environmental Bene	fit Criteria	
Protectiveness, Permanence and Long-term Effectiveness	Lower ranking relative to removal and upland disposal- contaminated materials remain on-site	High ranking- contaminated materials removed from site
Short-term risk management	Medium ranking - material handling	Medium ranking - material handling
Implementability	High ranking	High ranking
Consideration of public concerns	Lower ranking relative to removal and upland disposal – consistent with land use plans however contaminated material remains on-site	High ranking – consistent with land use plans and contaminated material removed from site

As shown on the chart, upland disposal provides greater environmental benefit. However, the core costs associated with upland disposal are disproportionate to the increase in environmental benefit. Based upon this evaluation, Unit 8 disposal is permanent to the maximum extent practicable and is the preferred cleanup option for Site Units 1A/1B and a portion of 1C.

5.6.2 Unit 5B

The Unit 8 disposal option presented an opportunity to improve the permanence of the cleanup action for Unit 5B sediments designated for capping in the original CAP. As discussed in the RI/FS, this portion of the site is subjected to periodic storm events with high wave energies. Any cap constructed in this area would need to be engineered to minimize the potential

for storm-induced cap erosion. The availability of the Unit 8 disposal location makes it possible to relocate the Unit 5B contaminated sediment (approx. 18,000 cubic yards) by dredging, and then contain them by capping in the protected, deeper-water location within Unit 8 rather than in the more exposed Unit 5B location. The cost of dredging of Unit 5B sediments and containment in Unit 8 is estimated at under \$900,000, see Appendix B-1. The cost of managing the Unit 5B materials as called for in the original CAP was estimated at approximately \$700,000 plus additional costs for armoring. As shown in Appendix B-1, the costs associated with cap armoring could increase this cost to over \$2.3 million. The relocation of the capping action at Unit 5B would provide added environmental benefit by improving the long-term effectiveness of the cleanup action without a disproportionate increase in cost. Therefore, relocating the Unit 5B materials to Unit 8 is the preferred cleanup option.

5.6.3Project Schedule

The project schedule was also adjusted to reflect the implementation of the work as two construction actions or phases, each under its respective permits. This provides for expedited cleanup of the inner waterway, the Log Pond, and portions of the Site that are independent of Unit 8. This work also accommodates early redevelopment actions. The adjusted project schedule is attached to the Decree as Exhibit C, and is shown in Figure 7-2.

6 Description of the Proposed Cleanup Action

[No change]

6.1 Cleanup Actions by Site Area

[No change, except for the following language added at the end of the subsection:]

Pursuant to the First Amendment to the CAP, Figure 6-5 illustrates the elements of the cleanup action for Units 1A and 1B, a portion of 1C, 5B, and 8. Technologies used as part of the cleanup include removal with Subtitle D disposal, treatment, containment, and institutional controls.

6.1.1Outer Whatcom Waterway (Unit 1)

[This subsection is replaced in its entirety.]

Surface sediments in the outer portion of the Whatcom Waterway (Units 1A and 1B) comply with applicable cleanup standards. However, sediments need to be dredged in order to prevent disruption of subsurface contaminated sediments by future deep draft navigation uses in the Outer Whatcom Waterway.

An estimated 124,400 cubic yards of sediment removed during dredging will be placed in a barge and managed by confined disposal in Unit 8 (see Section 6.1.7). Post-dredging residual sediment contamination will be considered as part of design and permitting and will include the use of best practices.

Surface sediments in Unit 1C also comply with applicable cleanup standards. Buried contaminated sediments within Unit 1C that may be disturbed through future dredging and navigation activities will be removed by dredging to the extent technically feasible. The depth of dredge cuts is expected to range from 35 feet to 41 feet below MLLW in Unit 1C. The dredging will need to address geotechnical and structural integrity limitations associated with existing piers and structures in the Bellingham Shipping Terminal area. It is expected that most portions of Unit 1C will be remediated by removal.

A stable side-slope will be established in between Unit 1C and the sediments in the adjacent Inner Whatcom Waterway (Unit 2C). The design of that side-slope will be addressed as part of remedial design, and will anticipate future navigation maintenance dredging within the channel and the effects of vessel prop wash and seismic effects on sediment stability.

Approximately 56,500 cubic yards of sediment removed during dredging of 1C will be barged to an offload facility and transferred to rail cars or trucks for transportation to a Subtitle D landfill facility. Post-dredging residual sediment contamination will be considered as part of design and permitting and will include the use of best practices.

An estimated 67,800 cubic yards of sediment removed during dredging of 1C will be placed in a barge and managed by confined disposal in Unit 8 (see Section 6.1.7). Post-dredging residual sediment contamination will be considered as part of design and permitting and will include the use of best practices.

No institutional controls are anticipated for this area of the site.

6.1.2Inner Whatcom Waterway (Units 2 and 3)

[No change]

6.1.3Log Pond (Unit 4)

[No change]

6.1.4Areas Offshore of ASB (Unit 5)

[This subsection is replaced in its entirety.]

Exceedances of cleanup standards within Unit 5B will be addressed by dredging. Sediments removed during dredging will be placed in a barge and managed by confined disposal in Unit 8 (see Section 6.1.7). The dredging volume is expected to be 18,000 cubic yards. After dredging, the surface of the dredged area will be restored by backfilling the excavation with clean material.

The remaining areas of Unit 5 do not exceed cleanup standards. However, these areas will still be addressed using Monitored Natural Recovery. No sediment capping or dredging is required for these areas at this time. Additional evaluations of sediment stability will be conducted as part of remedial design. These areas will be monitored to ensure continued compliance with cleanup standards. Institutional controls will be required for these areas of the site to ensure the long term integrity of the natural cap (Section 6.4).

6.1.5Areas near Bellingham Shipping Terminal (Unit 6)

[No change]

6.1.6Starr Rock (Unit 7)

[No change]

6.1.7ASB (Unit 8)

[This subsection is replaced in its entirety.]

Pursuant to the First Amendment to the CAP, sludges and impacted sediments immediately underlying the sludges (transition sands) exceeding cleanup standards will be dredged disposed in a permitted upland landfill. An estimated 340,000 cubic yards of clean material will then be removed and stockpiled for later use.

The design concept for cleanup of Unit 8 is based on an 8-step process. The steps are outlined below, although some aspects of this process may change in remedial design. First, the water level in the ASB will be lowered and the connection between the ASB and the outfall will be sealed.

Second, the water treatment equipment (aerators, weirs, etc.) will be removed, and the tops of the berms removed. These berm materials consist of clean sand and stone materials used to construct the ASB and can be used within other portions of the project area.

Third, the contaminated ASB sludges will be removed. The dredged materials will be treated to enhance separation of sludge solids from the entrained waters. Solids separated from the dredge slurry will be shipped by rail and disposed in a permitted upland landfill. Produced waters from dredging and materials handling will be returned to the ASB in a closed-loop system or will be treated and properly disposed. The maintenance of a water layer overlying the sludges during removal was identified in the RI/FS as a method for minimizing odors and potential wildlife exposures during sludge removal.

During the fourth step, the transition sands at the bottom of the ASB will be removed and transferred to the uplands for use elsewhere or disposal, depending on contaminant concentrations determined during engineering design.

Fifth, the clean sands underlying the transition sands will then be excavated by dredging and stockpiled for use elsewhere. Hydraulic dredging will likely be used for this dredging, with recirculation of generated water to the ASB.

Sixth, approximately 210,200 cubic yards of sediment exceeding cleanup standards from Units 1A, 1B, 5B, and a portion of 1C will be placed in the deep-excavated portion of Unit 8. The placement area is to be located shoreward of the Inner Harbor Line, and targeted placement elevations will be deeper than -18 feet MLLW. Transition sands from the ASB berms will then

be removed and placed within the placement area below elevation -18 ft MLLW.

Seventh, the placement area will be covered by a layer of clean sediment, or cap, to provide for long-term containment of the placed sediments (see Figure 6-5). The cap will have a nominal thickness of at least 3 feet and is expected to consist of sandy sediments. The target elevation of the top of the cap is estimated to be -14 feet MLLW or deeper, consistent with planned navigation uses of Unit 8. The final cap elevation, composition, and thickness will be determined during engineering design.

Finally, the berm between Unit 8 and Bellingham Bay will be opened. Water quality within the basin will be verified prior to opening of the berm. Clean sand from berm opening will be used as part of Unit 8 capping.

Institutional controls and monitoring will be implemented within Unit 8 to monitor the integrity of the sediment cap.

6.1.8 Remaining Area of the Site (Unit 9)

[No change]

6.2 Types, Levels and Amounts of Contamination Remaining On Site

[This subsection is replaced in its entirety.]

The information presented in the RI/FS documents conditions at the site prior to the cleanup action. As described in the RI/FS, the principal sediment contaminants at the site include mercury, 4-methylphenol, and phenol.

Based on sampling completed at the Site, Ecology determined that most surface sediments at the site comply with applicable cleanup standards as measured using chemical and biological testing, and also comply with the site-specific bioaccumulation screening level developed using Human Health Risk Assessment procedures. The remedy addresses the few areas of surface sediment contamination through dredging and/or capping. Subsurface sediment contamination will be addressed using a range of technologies, with capping and removal used to address unstable sediments, and monitored natural recovery used to address sediments that are safely buried.

The cleanup action will remove contaminated sediments from the Outer Whatcom Waterway (Unit 1) adjacent to the Bellingham Shipping Terminal, from an area off-shore of the ASB (Unit 5), and from the ASB (Unit 8). In other site areas, hazardous substances will remain in stable, subsurface sediments. These sediments will be managed by capping and monitored natural recovery. Monitoring and institutional controls will be used to ensure

the long-term stability of these subsurface sediments. These measures are described in Sections 6.3 and 6.4 of this CAP respectively.

Following the removal of contaminated material from Unit 8, the cleanup action will remove approximately 340,000 cubic yards of clean material and stockpile it for later use. Contaminated material from Units 1A/B, 5B, and part of 1C will then be placed in Unit 8 and capped. Monitoring and institutional controls will be used to ensure the long-term stability of these sediments. These measures are described in Sections 6.3 and 6.4 of this CAP respectively.

Figures 6-1, 6-2, and 6-3 summarize the RI/FS subsurface sediment data for areas of the site where contaminated subsurface sediments will be managed on-site using monitored natural recovery or capping. Subsurface sediment conditions vary according to site unit. Figures 6-1 and 6-2 provide a summary of the average subsurface sediment quality, expressed as the average sediment quality at depths 0.4 feet to 4 feet below the sediment mud-line. In order to provide the reader with a better overall sense of subsurface contaminant distribution throughout the site prior to initiation of remedial efforts, the Log Pond area is shown prior to completion of the Interim Remedial Action. Figure 6-3 summarizes discrete sampling data for subsurface mercury within the Whatcom Waterway. The estimated dredge and cap elevations are shown on the cross-section, subject to final remedial design and permitting.

Figure 6-5 depicts the Unit 8 confined disposal area and the average contaminant concentrations of the sediments (Units 1A, 1B, 5B, and part of 1C) placed and capped within Unit 8.

6.3 Compliance Monitoring and Contingency Responses

[No change]

6.3.1 Cleanup Action Monitoring Requirements

[No change]

6.3.2Contingency Response Actions

[No change]

6.4 Institutional Controls

[No change]

6.4.1 Use Assumptions

[No change]

6.4.2Restrictive Covenants

[No change]

6.4.3Review Process for Navigation Dredging and Other Construction Activities

[No change]

7 Implementation of the Cleanup Action

[No change]

7.1 Coordination with Other Actions

[No change except the following new subsection 7.1.8 is inserted into the CAP at the end of this subsection:]

7.1.8Over Water Walkway Project

The City is currently conducting engineering design and permitting for a project known as the Over Water Walkway. The Over Water Walkway is planned as a pedestrian trail between Boulevard Park and the Cornwall Landfill area. The Over Water Walkway project has been included in multiple City of Bellingham planning documents between 2002 and 2010, including the following recent documents:

- Parks, Recreation and Open Space Plan, 2008 (an element of the City's Comprehensive Plan);
- City of Bellingham Capital Facilities Plan, 2008-2010;
- State Transportation Improvement Program 2008;
- City of Bellingham Transportation Improvement Program, 2008; and,
- Draft Shoreline Master Program, 2009.

It has also been included in the draft Waterfront District Draft Sub-Area Plan, 2010 prepared by the Port in cooperation with the City. The project includes placement of new pilings and over-water walkway structures within Site Unit 9.

7.2 Anticipated Schedule for Design and Implementation

[This subsection is replaced in its entirety.]

The design and implementation of the cleanup of the site will be implemented in two construction actions or phases, over a period of approximately six years, with a subsequent period of long-term monitoring. Each phase will address separate areas of the Site. Phase 1 of the project includes Site Units 2A, 2C, 3B, 4, and a portion of Unit 1C. Phase 2 includes the balance of Site

Unit 1, and Units 2B, 5B, 6B, 6C, and 8. Units 3A, 5A, 5C, 6A, 7, and 9 are designated for monitored natural recovery. Monitoring will be performed consistent with the Compliance Monitoring and Contingency Response Plan, to be prepared during design and permitting.

The schedule for design and implementation of the Whatcom Waterway cleanup is attached to the Decree as Exhibit C and is illustrated in Figure 7-2. The considerations for the schedule selected are described below;

- engineering Design and Permitting: Phase 1 design and permitting is expected to require approximately 1-2 years to complete and Phase 2 is expected to require 2-3 years to complete. These anticipated permitting time-frames are subject to the discretion of the regulatory agencies involved. Pre-design data collection activities will be necessary to document current conditions (e.g., current bathymetric data, supplemental coring data in planned dredge areas, sediment geotechnical data, current eel grass distribution) for design and permitting. It is anticipated that public review of the MTCA Engineering Design Report for each project phase will be conducted jointly with the public review of the Corps permit submittals. The compliance monitoring plans will be developed as part of the design process.
- Duration and Timing of Cleanup Construction: Because the project phases involve more in-water construction activities than can be completed in a single construction season, multiple construction seasons will be required. Timing of most in-water work activities will be limited by permit-specified "fish windows" to appropriate time-periods when those activities are least likely to affect migrating juvenile salmonids and other fish species. These time limitations will affect the amount of work that can be completed within a given construction season, and particularly affect the overall time required to complete dredging, capping and shoreline restoration activities. Other work does not require in-water activity (e.g., upland sediment staging/transport, ASB sludge removal prior to berm opening, etc.) but is subject to other logistical constraints.

Cleanup construction for the Phase 1 work is expected to require two construction seasons. Cleanup construction for the Phase 2 work is also expected to require at least two construction seasons.

• Recording of Institutional Controls: Restrictive covenants will be recorded upon completion of the active cleanup measures required by the CAP. These controls will remain in place indefinitely unless removal is approved by Ecology.

• **Post-Construction Monitoring:** Post-construction monitoring will be performed as defined in the final Compliance Monitoring and Contingency Response Plan, to be prepared during final design and permitting. As described in Section 6, the monitoring framework anticipates completion of monitoring activities in years 1, 3, 5, 10, 20 and 30 following completion of construction.

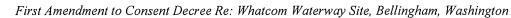
The above-described schedule may be affected by the time required for permitting and to complete construction within permit-required "fish windows." Requests for an extension of schedule in the event of delays will be governed by Section XVI of the Consent Decree.

8 References Cited

[No change, except for the following added reference:]

Anchor QEA, 2010. Pre-Remedial Design Investigation Data Report. Prepared for the Port of Bellingham

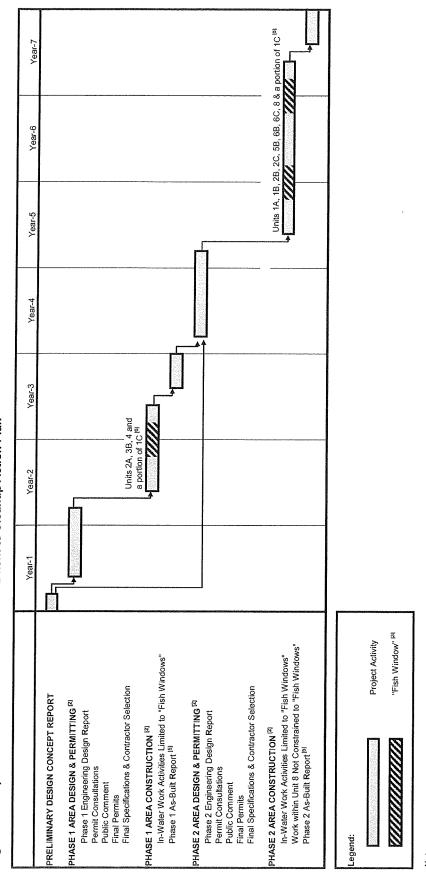




Figures – First Amendment



Figure 7-2. Implementation Schedule - First Amendment to Cleanup Action Plan [1][4]



- 1 This figure illustrates the anticipated schedule for design, permitting and construction activities under the First Amendment to the Cleanup Action Plan. Actual duration is subject to change based on time required

- for permitting, and the construction sequence specified in project permits.

 2 The phasing and construction sequence is subject to change based on permit requirements and final design. Each project phase is separate from the other and can be implemented independently. 3 Construction activities within Bellingham Bay surface waters are expected to be limited to appropriate seasonal "fish windows" specified in project permits, to avoid impacts to juvenile salmonids. 4 Long-term monitoring activities are not shown. As described in Section 6, these are expected to include monitoring events 1, 3, 5, 10, 20 and 30 years after completion of construction. 5 Restrictive Covenants to be filed prior to Ecology approval of the as-built report. 6 Units 3A, 5A, 5C, 6A, 7, and 9 are designated for monitored natural recovery. Monitoring will be performed consistent with the Compliance Monitoring and
 - Contingency Response Plan, to be prepared during design and permitting.

Appendix B-1 Estimated Remedial Costs – First Amendment

APPENDIX B-1. ESTIMATED REMEDIAL COSTS - FIRST AMENDMENT

Summary of Core Dredge Material Management Costs for Units 1A, 1B and a Portion of 1C

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	Probable Cost	Cont	Contingency	Proba	Probable Cost with Contingency
Management of Unit 1A, 1B, and Portion of 1C by Upland Disposal	osal				
Core Dredge Material Management Costs	\$ 20,540,000	↔	3,033,000	↔	23,573,000
Management of Unit 1A, 1B, and a Portion of 1C by Confined Disposal within Unit 8	isposal within Un	it 8			
Core Dredge Material Management Costs	5,279,338	↔	1,583,801	↔	6,863,139

between the two alternatives are shown. Costs are only shown for management of dredge material from Units 1A, 1B and a portion of 1C. Common Items Not Included in Costs Above: Only costs directly associated with dredge material management, and that are different The cost items that are the same or similar between the two alternatives and that are not included above include the following:

- Mobilization & Demobilization costs

- Dredging and materials management costs separate from Units 1A, 1B, and a portion of 1C (the cost for managing the remainder of Unit 1C by upland disposal is not shown above as this cost is the same under both alternatives).
 - Capping, excavation backfill and residuals management costs (other than incremental costs associated with confined disposal site)
 - Design, permitting and construction management costs
 - Monitoring and surveys during construction
- Site preparation costs common to each alternative
- Costs associated with remediation of Unit 8 common to either alternative.

Other Excluded Costs: The costs of excavating clean sand from Unit 8 that is suitable for beneficial reuse are excluded from the above costs since the reuse value of the material within the project (e.g., for capping) offsets the costs to excavate the materials.

Notes:

Refer to attached cost tables for cost details.

1. Costs are presented in \$2010 without adjustment for future cost escalation.

Order of Magnitude Estimate of Probable Cost - Preliminary 30% Estimate (2010\$) 1 Core Costs - Dredge Units 1A, 1B and a Portion of 1C with Upland Disposal APPENDIX B-1. ESTIMATED REMEDIAL COSTS - FIRST AMENDMENT

Dredging, Offloading, and Disposal (Portion of Unit 1C) Dredge and Offload (Portion of Unit 1C) Dredge and Offload (Portion of Unit 1C) Rehandle at Stockpile, Load Railcars Tansport and Dispose 101 700		PROBABLE UNIT	Ę	OPPER PROBABLE UNIT	LOWER	PROBABLE	UPPER PROBABLE	PROBABLE	ESTIMATED	PROBABLE TOTAL COST WITH
Walled Andrews	TIV	COST	COST	COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	CONTINGENCY	CONTINGENCY
	ڻ ه	\$ 12.00	\$ 14.00	\$ 17.00	\$ 720,000	\$ 840,000	1 020 000	9	2007	
	JO TON	3.00	\$	200			000,020,7	000/040	9000	1
	-	\$ 45.00		00 09	\ \ \	2	300,300		SCO.	
The state of the s	-		•	00.00	٠٥٠٥/٥/٢ ٢	000,cou,c ¢	000,201,000 ¢	೧೧೮'ಽ೫೧'६ ೬	10%	\$ 5,593,500
Unit 1A/1B Dredging, Offloading, and Disposal		A company of company o				***************************************				
Dredging and Offload	٥٥ حر	\$ 12.00	\$ 14.00	\$ 17.00	\$ 1.492.800	\$ 1.741.600	\$ 2114800	1741 600	900	2.004.000
Rehandle at Stockpile, Load Railcars 186,600	NOT OC	3.00	\$ 4.00	\$ 5.00		\$	\$ 933,000	746.400	900	
Transport and Dispose 186,600	NOT 00	\$ 45.00	\$ 50.00	\$ 60.00	\$	\$	11	, ,	700	1
						L		,	200	5 40,203,000
Under-Dock Work (Unit 1C)										
Under-Dock Hydraulic Dredging and Dewatering 7,800	C C	\$ 93.00	\$ 100.00	\$ 137.00	\$ 725,400	\$ 780,000	\$ 1.068,600	\$ 780,000	%UE	1 014 000
										ľ
Construction of the Constr										
Subtotal - Construction					\$ 16,777,000	\$ 18,930,000	\$ 22,943,000	\$ 18,930,000		\$ 21,726,000
Sales Tax	8.5%				\$ 1,426,045	\$ 1,609,050	\$ 1,950,155	\$ 1,609,050	use effective	
Subtotal Including Sales Tax					\$ 18,203,045	\$ 20,539,050 \$	\$ 24,893,155	\$ 20,539,050		ŀ
Total - Construction					\$ 18,204,000	\$ 20,540,000	\$ 24,894,000	\$ 20,540,000		
Incremental Long-Term Monitoring Costs for Unit 8 ²	SJ	•		- \$	\$		\$,	30%	
Total - Non-Construction Costs					•	- \$		\$		\$
Contingency	PERCENT		15%		\$	\$ 3,033,000				
CORE DREDGING AND DISPOSAL COSTS (Units 1A, 1B & 1C)					\$ 18,204,000	\$ 2		24.894.000 \$ 20.540.000	14.8%	\$ 24 573 000

Common Items Not Included in Costs Above: Only costs directly associated with dredge material management, and that are different

between the two alternatives are shown. Costs are only shown for management of dredge material from Units 1A, 1B and a portion of 1C.

The cost items that are thesame or similar between the two alternatives and that are not included above include the following:

- Dredging and materials management costs separate from Units 1A, 1B, and a portion of 1C (the cost for managing the remainder of Unit 1C by upland disposal is not shown above as this cost is Mobilization & Demobilization costs

- the same under both alternatives).
- · Capping, excavation backfill and residuals management costs (other than incremental costs associated with confined disposal site)
 - Design, permitting and construction management costs
 - Monitoring and surveys during construction
- Site preparation costs common to each alternative
 Costs associated with remediation of Unit 8 common to either alternative.

- Costs are presented in \$2010 without adjustment for future cost escalation.
 The Cleanup Action Plan contains requirements for compliance monitoring that remain active under the First Amendment to the Consent Decree, with the monitoring plan established during engineering design.
 Monitoring costs that are the same between the alternatives are not shown. Additional monitoring requirements will be associated with the Unit 8 sediment disposal option as shown in page 3.

Core Costs - Dredge Units 1A, 1B and a Portion of 1C with Confined Disposal in Unit 8 Order of Magnitude Estimate of Probable Cost - Preliminary 30% Estimate (2010\$) ¹ APPENDIX B-1. ESTIMATED REMEDIAL COSTS - FIRST AMENDMENT

ITEM	QUANTITY	UNIT	LOWER PROBABLE UNI COST	TI PROBABLE UNIT	UPPER PROBABLE UN COST	E	LOWER PROBABLE TOTAL COST	PROBABLE TOTAL COST	UPPER PROBABLE TOTAL COST	PROBABLE	ESTIMATED	PROBABLE TOTAL COST WITH	TOTAL
Dredging, Offloading, and Disposal (Unit 1C)											Tanana and and and and and and and and an	Palling	Select.
Dredge, Offload and Backfill within ASB (Unit 1C)	000'09	Շ	\$ 15.00	0 \$ 19.00	0 \$ 24.00	\$	900,000	\$ 1,140,000	\$ 1,440,000	\$ 1140.000	30%	7	1 482 000
Unit 1A/18 Dredging, Offloading, and Disposal													
Dredging, Offload and Backfill in ASB	124,400	Շ	\$ 15.00	0 \$ 19.00	0 \$ 24.00	\$ 00	1,866,000	\$ 2,363,600	\$ 2.985.600	5 2363600	30%	2	2073 680
Place Thick Cap in AS8 (incremental over residuals management placement)													8
Place 2 Feet Berm Cutback and Marina Opening Sand	83,200	5	\$ 4.00	0 \$ 6.00	0 \$ 12.00	\$ 00	332,800	\$ 499.200	\$ 998.400	\$ 499 200	304	\$ 548	בעה סכנו טט
Under-Dock Work (Init 1C)						H						П	
Under-Dock Hydraulic Dredging, Dewatering, Backfill within ASB	7,800	Ş	\$ 93.00	0 \$ 100.00	0 \$ 137.00	\$ 00	725,400 \$	\$ 780,000	\$ 1.068.600 \$	280,000	3060	,	000 \$10
Cultivital Construction								П		•	8000		7,000
Subjudgi - Collsti uction						\$	3,824,200	\$ 4,782,800	\$ 6,492,600	\$ 4,782,800		\$ 6,2	6,217,640
Sales lax		8.5%				\$	325,057	\$ 406,538	\$ 551,871	\$ 406,538	use effective	\$	528,499
Subtotal Including Sales Tax						۰	4,149,257	\$ 5,189,338	\$ 7,044,471	\$ 5,189,338		\$ 67	6.746.139
Total - Construction						\$	4,149,257	\$ 5,189,338	\$ 7,044,471	\$ 5,189,338		5 6.7	6,746,139
The state of the s										1000		l	
Incremental Long-Term Monitoring Costs for Unit 8	1	SJ	\$ 90,000	000'06 \$ 0	000'06 \$ 0	\$ 00	90,000	\$ 90,000	000'06 \$	\$ 90,000	30%	\$	117,000
Total - Non-Construction Costs						s	90,000	000'06 \$	\$ 90,000	\$ 90,000		,	117.000
Effective Contingency		PERCENT		30%		S	-	\$ 1,583,801	\$				
CORE DREDGING AND DISPOSAL COSTS (Units 1A, 1B & 1C)		L				s	4,239,257	\$ 6.863 139	\$ 7.134.471	\$5.079.338	30.05	4	6 463 130

Common Items Not Included in Costs Above: Only costs directly associated with dredge material management, and that are different between the two alternatives are shown. Costs are only shown for management of dredge material from Units 1A, 1B and a portion of 1C. The cost items that are the same or similar between the two alternatives and that are not included above include the following:

Mobilization & Demobilization costs

- Dredging and materials management costs separate from Units 1A, 1B, and a portion of 1C (the cost for managing the remainder of Unit 1C by upland disposal is not shown above as it this cost is the same under both alternatives).
 - Capping, excavation backfill and residuals management costs (other than incremental costs associated with confined disposal site)
 - Design, permitting and construction management costs
 - Monitoring and surveys during construction
- Site preparation costs common to each alternative

- Costs associated with remediation of Unit 8 common to either alternative.

Other Excluded Costs: The costs of excavating clean sand from Unit 8 that is suitable for beneficial reuse are excluded from the above costs since the reuse value of the material within the project (e.g., for capping) offsets the costs to excavate the materials.

- Costs are presented in \$2010 without adjustment for future cost escalation.
- 2. Sediment compliance monitoring will be extended into Unit 8 to monitor the performance of the cap over the sediment disposal site. The monitoring plan will be extended into Unit 8 to monitoring the capanism of monitoring into Unit 8 are shown above (other project monitoring costs do not change). Costs shown above assume implementation of monitoring events at 1, 3, 5, 10, 20 and 30 years after completion of remedy construction, with a current incremental cost of \$15,000 per event.

APPENDIX B-1. ESTIMATED REMEDIAL COSTS - FIRST AMENDMENT Unit 5B - Dredge with Confined Disposal in Unit 8

Order of Magnitude Estimate of Probable Cost - Preliminary 30% Estimate (2010\$) $^{\rm 1}$

ITEM	QUANTITY	UNIT	LOWER PROBABLE UNIT COST	UPPER PROBABLE UNIT PROBABLE UNI COST COST	UPPER PROBABLE UNIT COST	LOWER PROBABLE TOTAL COST	PROBABLE TOTAL COST	UPPER PROBABLE TOTAL COST	PROBABLE TOTAL COST	ESTIMATED	PROBABLE TOTAL COST WITH CONTINGENCY
Unit 58 Dredge and Backfill										ALEXANDER STATEMENT	Ш
Dredge, Offload and Backfill within ASB	18,000	5	\$ 15.00	19.00	\$ 24.00	270,000	242,000	422,000	2		
Load A58 Reuse Deep Sands onto Barge	18.000	5	2 00	, ,	, ~	,	7 2	A 1	n .		5 444,600
Place Clean Backfill Material within Unit 58	18,000	ح	11.00	,	,	,	٨	^ •	6		\$ 93,600
			2011	,	•	000,001	\$ 234,000	000'077 \$	234,000	20%	\$ 280,800
Subtotal - Construction				-		000 803					
Calac Tay			-			000,4000	٩	\$ 810,000	5 648,000		5 819,000
2015.1 GA		8.5%				\$ 42,840	\$ 55,080	\$ 68,850	\$ 55,080	use effective	\$ 69,615
Subjectal including Sales Lax	-					\$ 546,840	\$ 703,080	\$ 878,850	\$ 703,080		S 888 615
Iotal - Construction						\$ 546,840	\$ 703,080	\$ 878,850	\$ 703.080		\$ 888 GIE
Effective Contingency		PERCENT		792		\$	\$ 185.535	<u>ر</u>			770/000
CORE DREDGING AND DISPOSAL COSTS (Unit 5B)						\$ 546.840 \$		\$ 878.850 \$	202 000	767 75	2000

Unit SB - Partial Dredge with Upland Disposal and Capping Order of Magnitude Estimate (2010\$)

TTEM	QUANTITY	FINO	LOWER PROBABLE UNIT COST	UPPER PROBABLE UNIT PROBABLE UNIT COST COST	UPPER PROBABLE UNIT COST	LOWER PROBABLE TOTAL COST	PROBABLE F TOTAL COST	UPPER PROBABLE TOTAL COST	PROBABLE TOTAL COST	ESTIMATED	PROBABLE TOTAL COST WITH CONTINGENCY
Dredging and Disposal											
Dredge and Offload	2,300	Շ	\$ 12.00	\$ 14.00	\$ 17.00	\$ 27.600	30 5 32 200	39 100	27.200	7906	40.00
Rehandle at Stockpile, Load Railcars	3,450	TON	3.00	\$	S	\$ 10.350	•		, ,		73 65
Transport, Dispose Subtitle D Landfill	3,450	TON	\$ 45.00	\$ 52.00	\$	\$ 155,250	\$, 5	, ,		107 240
										200	OHE I ST
Capping							- I decondense				
Purchase and Transport Cap Material	15,000	TON	\$ 10.00	\$ 11.00	\$ 18.50	150.000	30 \$ 165,000	002 227 500	1,65 000) SOC	9
Purchase and Transport Armor Material	34,080	TON	\$ 19.00	\$	\$	\$ 647.520		, .	, ,		2 214,300
Load Material onto Barges	10,000	Շ	\$ 2.00	. \$		20,000		, .	, ,		l
Place Cap Material	10,000	გ	\$ 11.00	\$ 1	\$	\$ 110.000	, 5	, ~	, ,		7 20,000
Place Armor Material	21,300	Շ	\$ 14.00	\$ 18.00	\$ 22.00	\$ 298,200	S	S	Ş		498 470
Subtotal - Construction						1 419 030	000 20 20 20				
Sales Tax		8.5%				120 508	٠.	1,369,840	7,036,030		\$ 2,090,959
Subtotal Including Sales Tax					-	\$ 1,539,528	\$ 1	\$ 2	, ,	nse ellective	2 7769 601
Total - Construction						\$ 1,539,528	S	S	ş		\$ 2.508,031
Effective Contingency		PERCENT		28%		\$	\$ 493,598	s			To Colonia de La
CORE DREDGING AND DISPOSAL COSTS (Unit 5B)						\$ 1,539,528	\$	\$ 2,137,276 \$	\$ 1.775,093	27.8%	199 892 6 2

Common Items Not Included in Costs Above: Only costs directly associated with the remediation of Unit 5B sediments and that are different between the two alternatives are shown. The cost items that are the same or similar between the two alternatives and that are not included

above include the following:

- Costs for remediation of areas other than Unit 5B.

- Mobilization & Demobilization costs

- Development, capping and monitoring of the disposal site within Unit 8 (costs are shown on page 3)

- Design, permitting and construction management costs

- Monitoring and surveys during construction

- Monitoring and surveys during construction

- Other Excluded Costs: For the Unit 8 disposal option, the costs associated with capping and monitoring Unit 5B materials disposed in Unit 8 are excluded since these costs are already part of the Unit 8 disposal costs detailed on Page 3.

- 1. Costs are presented in \$2010 without adjustment for future cost escalation. 2. Required cleanup action under original cleanup action plan.

Exhibit 2
First Amendment to
Consent Decree Re: Whatcom
Waterway Site, Bellingham, WA

First Amendment to EXHIBIT C Schedule of Work and Deliverables

SCHEDULE OF WORK AND DELIVERABLES

Written Notification to Ecology of selected	Within 45 days of the Effective Date of the
contractor name and qualifications	Consent Decree. (Completed)
Draft Project Plans for Pre-Design	Within 90 days of the Effective Date of the
Investigation ^[1]	Consent Decree. (Completed)
Final Project Plans for Pre-Design	Within 30 days of Receipt of Ecology's
Investigation	
investigation	comments on the Draft Project Plans.
Pre-Design Investigation Report	(Completed) Within 270 days of Submitted to Foology of
Tre-Design investigation Report	Within 270 days of Submittal to Ecology of
	the Final Project Plans unless Ecology
	approves an alternate schedule.
Proliminary Design Concert Depart	(Completed)
Preliminary Design Concept Report	Within 120 days of the Effective Date of
Foology Daviery Dueft Phase 1 Fusing visco	the First Amendment to the CD
Ecology Review Draft Phase 1 Engineering	Within 150 days of receipt of Ecology's
Design Report [2]	written comments on the Preliminary
Dublic Daview Deck of Dioco 1	Design Concept Report
Public Review Draft of Phase 1	Within 60 days of receipt of Ecology's
Engineering Design Report	comments on the Ecology Review Draft
Final Draft Phase 1 Engineering Design	Within 90 days of receipt of Ecology's
Report	comments on the Phase 1 Public Review
	Draft, following public review, and
	issuance of final permits (whichever occurs
	later in time)
Final Phase 1 Engineering Design Report	Within 30 days of receipt of Ecology's
	comments on the Final Draft Phase 1
Desir Construction CDI and a full	Engineering Design Report.
Begin Construction of Phase 1 of the	Construction to begin within 1 year of
Cleanup Action	Ecology approval of Final Phase 1
	Engineering Design Report unless Ecology
	approves an alternate schedule. Construction schedule to be consistent with
	I I
	Ecology-approved Final Phase 1
Draft Institutional Controls Plan (IC Plan)	Engineering Design Report. At completion of the active cleanup
including proposed Restrictive Covenants	
Final IC Plan, Implement IC Plan and	measures required by the CAP Within 60 days of receipt of Ecology
Record Restrictive Covenants	comments on Draft IC Plan and proposed
Record Restrictive Coveriants	Restrictive Covenants
Phase 1 As-Built Report to Ecology	Within 120 days of completion of Phase 1
Fliase 1 As-Built Report to Ecology	construction activities.
Phase 1 Completion Letter	Provided by Ecology upon approval of
Phase I Completion Letter	
Ecology Paviary Droft of Phase 2	Phase 1 As-Built Report
Ecology Review Draft of Phase 2	Within 270 days of Ecology written
Engineering Design Report [2]	approval of the Phase 1 As-Built Report
Public Review Draft Phase 2 Engineering	Within 60 days of receipt of Ecology's
Design Report	comments on the Ecology Review Draft

Final Draft Phase 2 Engineering Design	Within 90 days of receipt of Ecology's
Report	comments on the Public Review Draft,
	following public review, and issuance of
	final permits (whichever occurs later in
	time).
Final Phase 2 Engineering Design Report	Within 30 days of receipt of Ecology's
	comments on the Final Draft Engineering
	Design Report.
Begin Construction of Phase 2 of the	Construction to begin within 1 year of
Cleanup Action	Final Phase 2 Engineering Design Report
	submitted to Ecology approves an alternate
	schedule. Construction schedule to be
	consistent with Ecology-approved Final
	Phase 2 Engineering Design Report.
Draft Institutional Controls Plan (IC Plan)	At completion of the active cleanup
including proposed Restrictive Covenants	measures required by the CAP
Final IC Plan, Implement IC Plan and	Within 60 days of receipt of Ecology
Record Restrictive Covenants	comments on Draft IC Plan and proposed
	Restrictive Covenants
Phase 2 As-Built Report to Ecology	Within 120 days of completion of
	construction activities.
Phase 2 Completion Letter	Provided by Ecology upon approval of
-	Phase 2 As-Built Report

- 1. Project Plans include the following: Work Plan, Sampling and Analysis Plan, Quality Assurance Project Plan, and Health and Safety Plan. Ecology will not approve the Health and Safety Plan, however it must be submitted for Ecology review and comment. All Plans will include a schedule for implementation, as applicable.
- 2. Phase 1 and Phase 2 Engineering Design Reports to include a Construction Quality Assurance Project Plan and a Compliance Monitoring and Contingency Response Plan. Each Engineering Design Report will include a schedule for implementation of all work, as applicable. Ecology will not approve the Final Engineering Design Report until the required permits have been obtained.