PORT OF SILVERDALE
RESOLUTION NO. 2017 - 01
Engaging Marine Surveys and Assessments and Designating
the Port's Attorney as Agent to Obtain Dredging Permits

WHEREAS:

A. The Port of Silverdale ("Port") is planning to perform a maintenance dredge (Dredging Project) at the Port's waterfront area in Silverdale, Washington;

B. Marine Surveys & Assessments ("MSA") is an experienced consulting company in Port Townsend, Washington, specializing in obtaining and presenting environmental analysis and reports needed to obtain permits for dredging;

C. MSA has presented a document describing the Proposal and Costs ("Proposal"), attached to this resolution, for work involving the Dredging Project, in cooperation with Coastal Geologic Services (CGS), whom the Port has already engaged for a portion of the permitting work;

D. The Port has reviewed the Proposal, and finds it appropriate, necessary and reasonable to obtain the requisite permits, without duplicating services to be provided by CGS for the Dredging Project.

NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS FOR THE PORT OF SILVERDALE THAT:

1. The Port hereby engages MSA to perform the work and produce the required documentation as set forth in the Proposal and Costs proposal submitted by MSA to the Port, dated April 5, 2017 and attached hereto.

2. Port attorney Phil Best is designated the Port's agent to work with both MSA and CGS, as well as with local, state, tribal, and federal authorities in obtaining the necessary permits for the Dredging Project.

Dated: 4/20/2017

Lawrence C. Greaves
Lawrence Greaves,
Port Commissioner

Ed Scholfield,
Port Commissioner

Henry Aus,
Port Commissioner

Port of Silverdale Dredge Project: 2017/18

This bid is for the required permits, biological documents and analysis leading up to a dredge event at the Port of Silverdale and includes:

1. Sampling Analysis Plan
2. Sediment Coring
3. Chemical Analysis of Core Samples
4. Post-Coring Sediment Analysis Report
5. Biological Evaluation Document
6. Dive survey of Proposed Dredge Area
7. Permit Application and follow up (County, State, Federal)
8. Project Management

Sampling Analysis Plan

The Sampling Analysis Plan (SAP) will use some of the information and data gathered from the bathymetric survey and analysis by Coastal Geologic Services, once the Port of Silverdale has agreed upon a dredge amount, location, and depth. Once we receive the proposed dredge profiles, we will design a sampling plan. This plan will be used to select the areas for core sampling. We will follow the template that was used for the previous dredge as much as possible, once provided.

Sediment Coring

This work includes several samples (3-5) that cover the potential areas for dredging. The areas selected for dredging will follow the original SAP, unless additional areas to dredge are proposed, or the Dredge Materials Management Office (DMMO) protocols require additional samples. If the coring requires more than a 2-3' penetration depth, including over dredge, we will be sub-contracting with Research Support Services (RSS) or Gravity Environmental to obtain the sample cores. If the fullest extent of the dredge depth can be reached via hand cores, Marine Surveys & Assessments will do the coring process without subcontractors. Our intention is to take three to five core samples (3-5 as per the approved number of samples with the DMMO) to obtain adequate and appropriate sediment samples for analysis.

Chemical Analysis of Core Samples

The sediment samples will be processed on board the sub-contractor boat by MSA staff members. Once prepared with quality control protocols, the samples will be shipped overnight to Analytical Resources, Inc (ARI, Tukwila, WA). ARI will provide the analytical results of the sediment samples. The results of these processed and analyzed samples will then be used to help determine how and where the subsequent dredged materials can be deposited (intertidal beneficial reuse, and/or deep water disposal). The results of these processed and analyzed samples will also be used to help determine if any other deposition constraints are required.

Post-Coring Sediment Analysis Report

After processing, the DMMO office requires the dredge proponents provide a document that spells out the results of the chemical analysis and compare those results to their standards. If any of the resulting

analyses indicate that a particular chemical is above a threshold limit, then more analyses will need to be done. This report will discuss the need for additional analysis, or simply define the acceptable results.

Biological Evaluation Document

The U.S. Army Corps of Engineers' regulations require dredge project proponents to submit a document referred to as a Biological Evaluation. This document looks at the baseline conditions at the site, analyzes the potential impacts of the project on that baseline condition as well as impacts to any listed endangered or threatened species under the Federal Endangered Species Act.

SCUBA Survey of Proposed Dredge Area

A SCUBA survey to identify baseline conditions at the site will be done by subtidal observations using SCUBA. Transects will be run every 10' within all proposed dredge areas. Many parameters will be collected during the survey as per Washington Department of Fish and Wildlife dive survey protocols.

Permit Application and Follow up

Permit applications required for completion of the project include permits from several jurisdictions such as: Kitsap County, Washington Department of Ecology, Washington Department of Natural Resources, Washington Department of Fish & Wildlife, U.S. Army Corps of Engineers Regulatory Branch, Dredged Materials Management Office, and potentially U.S. Coast Guard. Our role will be to research and fill in the permit applications. A pre-application meeting as well as a shoreline hearing may be required. Permit follow up will need to be done to keep the project moving in a timely manner.

Project Management

We will provide project management to ensure the initiation, planning, execution, and completion of the work to achieve a completed set of permits for your proposed dredge project.

Tasks, Time & Budget

Sampling Analysis Plan Document

1. Research, writing, analysis

   One MSA biologist: *35 hours @ $90/hr* ***$3,150***

Sediment Coring: MSA Field Supervisor and Decontamination Tech Staff (using subcontractor)

1. Supplies for Decontamination and sample retrieval	$100
2. Travel (RT): *3 hours x 2 staff @ $75/hr*	$450
3. On site time for 2 MSA staff: *8 hours x 2 MSA staff @ $90/hr*	$1,440
4. Transfer Documents/Sample Transport: *3 hours x 1 MSA staff @ $90/hr*	$270
5. Logistics & Subcontractor planning: *10 hours x 1 MSA staff @ $90/hr*	$900
6. Subcontractor (including boat, boat captain, vibratory coring device, etc.)	$4,800

Total for Sediment collection, planning, sample transport, etc. ***$7,960***

Without Subcontractor if dredge cores can be done by a Diver

1. Supplies for Decontamination and sample retrieval	$250
2. Travel (RT): *3 hours x 3 staff @ $75/hr*	$675
3. On site time for 1 MSA staff: *8 hours x 1 MSA staff @ $90/hr*	$720
4. SCUBA core sampling: *8 hours x 2 divers x $140/hr*	$2,240
5. Transfer Documents/Sample Transport: *3 hours x 1 MSA staff @ $90/hr*	$270
6. Logistics: *5 hours x 1 MSA staff @ $90/hr*	$450
7. Daily boat use (one day)	$350

Total for Sediment collection, planning, sample transport, etc. ***$4,955***

Chemical Analysis

3- 5 samples analyzed as per DMMO protocols (ARI analytical labs)	***$2,760 - $4,500***

Post Coring Sediment Analysis Report

1. Research, summarize data, write report: *35 hours @ $90/hr*	***$3,150***

Biological Evaluation Document

1. Research, writing, analysis

One MSA biologist: *35 hours @ $90/hr*	***$3,150***

SCUBA Macroalgae and Eelgrass Habitat Survey & Report

1. SCUBA DIVE: *4 hours x 2 MSA divers @ $140/hr*	$1,120
2. Travel to and from site: *3 hours (RT) x 2 MSA divers @ $75/hr*	$450
3. Upland survey time: *2 MSA divers x 3 hours @ $90/hr*	$540
4. On site set up and break down, data and video prep: *2 divers x 2 hr @ $90/hr*	$360
5. Logistics, site prep, etc.: *4 hours x 1 MSA personnel @ $90/hr*	$360
6. Data Transcription for habitat report: *4 hours x 1 MSA personnel @ $90/hr*	$360
7. Habitat Report: writing, GIS, mapping: *16 hours x 1 MSA personnel @ $90/hr*	$1,440

Total for SCUBA survey and Habitat Report	***$ 4,630***

(this SCUBA survey assumes one staff from the Port of Silverdale will be working from a skiff to protect divers from on-coming boats)

Permits Applications

1. Permit Application research: *8 hours x 1 MSA personnel @ $90/hr*	$720
2. Permit Application preparation: *16 hours x 1 MSA personnel @ $90/hr*	$1,440
3. Permit Submittal, shoreline hearing (if necessary), follow up: *20 hours x 1 MSA personnel @ $90/hr*	$1,800

Total for Permit work ***$3,960***

Project Management as Needed

1. Meetings, emails, phone calls, interagency interaction, tribal interaction:

50 hours x 1 MSA personnel @ $90/hr ***$4,500***

Total Cost for Two Options based on Dredge Design

Total Fees for all tasks using SCUBA as Core sampling (3 sites)

Grand Total: $30,255

Total Fees for all tasks using Subcontractor for Core sampling (5 sites)

Grand Total: $35,000