

DIVISION 1 – GENERAL REQUIREMENTS**Section 01 35 13 – Special Provisions for Contaminated Sites**

PART 1 – GENERAL**1.01 RELATED WORK DESCRIBED ELSEWHERE**

- A. The provisions and intent of the Contract, including the General Conditions, Supplementary Conditions, Appendices, and other sections of the General Requirements, apply to this work as if specified in this section. Work related to this section is described in:

Section 00 73 19 Health and Safety Provisions

Section 02 61 00 Removal and Disposal of Contaminated Soil

1.02 DESCRIPTION OF WORK

- A. Since this project is being conducted within a Model Toxics Control Act (MTCA) site and since engineering controls have been selected as a component of the MTCA remedy for this particular construction project, the Contractor is required to conduct additional environmental work beyond what would be required for a typical civil earthwork project. See reference documents for more information on the environmental constituents of potential concern and the regulatory setting for this site.
- B. The Contractor must satisfy all of the Contractor-related requirements specified in the Engineering Design Report (EDR) for Cleanup Implementation: Port of Olympia East Bay Site to the Port's satisfaction.
- C. Some of the Contractor's requirements in the EDR are described and accounted for in other sections and/or bid items, and are therefore not repeated in this section. If there is a discrepancy between the EDR and these Specifications, the Specifications shall govern.
- D. On-site reuse of excavated and cut soil is highly preferred for this project. Thus, the Contractor shall maximize soil reuse to the extent practicable for all soil that is geotechnically suitable for its intended use and has constituent concentrations less than Remediation Levels (RLs) specified in the EDR.

1.03 APPLICABLE LAWS AND REGULATIONS

The Contractor shall perform all work in compliance with the applicable provisions of MTCA and the Washington Industrial Safety and Health Act, as well as other applicable federal, state, and local laws and regulations. The Contractor is fully responsible for planning and executing all the Work under this Contract in a manner that meets the regulatory requirements of Chapter 173-340 and Chapter 296-843 of the Washington Administrative Code (WAC) for protecting the health and safety of employees, the public, and the environment.

DIVISION 1 – GENERAL REQUIREMENTS

Section 01 35 13 – Special Provisions for Contaminated Sites

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Contractor shall provide all labor, equipment, vehicles, tools, materials, and supplies necessary to support all work performed by the Contractor. All equipment, vehicles, tools, and materials shall be kept in proper working order. All measures must be taken to minimize oil/fuel spills from Contractor's equipment and vehicles.
- B. Contractor shall be responsible for equipment, tool, and personnel decontamination for the duration of the work.

PART 3 – EXECUTION

3.01 GENERAL

- A. The Contractor shall secure the site prior to the start of any earthwork. The Contractor shall control access to the work areas at all times.
- B. The Contractor shall prepare the site by constructing loading area(s), haul road(s), stockpile area(s), wheel washing area(s), and other improvements as necessary to work on site, and shall be wholly on Port property. Improvements shall be constructed and maintained to minimize road rutting and mud generation and transport.

3.02 DUST CONTROL

- A. The Contractor shall prevent dust generation at all times to the maximum extent practicable.
- B. The Contractor shall minimize the potential for runoff by limiting water use to the minimum quantity necessary for adequate dust suppression.
- C. Dust control water shall be supplied by the Contractor. The water quality shall be suitable for its use.
- D. Obtain written approval from the Engineer prior to use of water on any soil stockpiles.
- E. The Port will be conducting airborne dust monitoring periodically during the project. The Contractor shall allow for the Port to monitor the breathing zone of Contractor employees. In the event that monitoring raises a concern, the Contractor shall stop work or take additional dust control measures as approved by, or directed by, the Engineer.

DIVISION 1 – GENERAL REQUIREMENTS

Section 01 35 13 – Special Provisions for Contaminated Sites

3.03 SOIL SEGREGATION

- A. The Contractor shall segregate excavated and cut soil and establish the following separate types of stockpiles (or establish additional, segregated, types of stockpiles as approved by the Port Engineer):
1. Contaminated soils from the three designated excavation areas: DP04 Excavation, DP06/SVP-2SO Excavation, and MW24S Excavation
 2. Overburden soils from the three designated excavation areas
 3. Cut soil to establish the subgrade prior to construction of the protective cover
 4. Soil that is geotechnically suitable for on-site reuse by the Contractor
 5. Soil that is obviously grossly contaminated due to the presence of free product, a heavy sheen, or similar (see Section 02 61 00 – Removal and Disposal of Contaminated Soil)
 6. Construction debris (man-made materials such as metal, plastic, glass, concrete, asphalt, bricks, rail road ties, and wood products larger than 2 inches are not soil and should be handled separately as construction debris).
- B. The Contractor shall maintain stockpiles to prevent comingling of different types of stockpiles or separately tested stockpiles. The Contractor shall also prevent mixing of excavated and cut materials with imported materials as a result of stockpiling operations.
- C. The Contractor shall minimize the hauling and placement of wet material on stockpiles to the extent practical.
- D. Soil designated for disposal may eventually be loaded directly for disposal, if approved by the Port Engineer and opportunities for dump truck sampling are provided.

3.04 TEMPORARY STORAGE

- A. Stockpile locations shall be cleared and adequately prepared (e.g., removal of any objects that could be damaged) before stockpiling of materials.

DIVISION 1 – GENERAL REQUIREMENTS

Section 01 35 13 – Special Provisions for Contaminated Sites

- B. Stockpiles shall be contained wholly on Port property, and shall not be located within the Right-of-Way. In general, stockpiles should be stored as close to excavations/cuts as practicable. However, it should be noted that stockpiles do not need to be stored within the same zone from which the soil was excavated. In no case shall excavated material (potentially contaminated) stockpiles be placed on top of the 1982 fill (which does not require remediation). The extent of the 1982 fill is presented in the EDR and will be delineated by the Engineer. Only imported material may be temporarily stockpiled on the 1982 fill areas.
- C. The Contractor shall place all stockpiles on an impervious surface such as polyethylene liner (e.g., Visqueen) with a thickness of at least 10-mils, or equivalent.
- D. The number and size of stockpiles are expected to vary (not to exceed 100 cubic yards per stockpile) based on the construction schedule, sequence of activities and production rates established by the Contractor.
- E. The Contractor shall establish and maintain a tracking and recordkeeping system for all stockpiles at all times. Each stockpile shall be designated with a unique identification number that includes the zone from which the stockpile was generated. Placards or similar signage shall be placed on each stockpile. The Contractor shall maintain up-to-date stockpile-tracking logs (with diagrams) at the site for inspection by others.
- F. The Contractor shall cover all soil stockpiles with a polyethylene liner with a thickness of at least 10-mils (or equivalent) and anchor the liner with ropes and sandbags or equivalent to prevent movement by wind.
- G. The Contractor shall uncover only the working face of a stockpile when adding, removing, or sampling a stockpile.
- H. The Contractor shall recover and re-anchor the entire stockpile during periods of inactivity and at the end of each work day.
- I. The Contractor shall periodically inspect all stockpiles and perform maintenance on the impervious surfaces and cover lines as necessary. The written inspection and repair log should be included in the documentation requirements described in 3.07 Documentation.

3.05 SOIL SAMPLING BY PORT

- A. The Port will conduct sampling of the excavated and cut soils for the analytical assessment of constituent concentrations as outlined Section 02 61 00 Removal and Disposal of Contaminated Soil and in the EDR (e.g.,

DIVISION 1 – GENERAL REQUIREMENTS

Section 01 35 13 – Special Provisions for Contaminated Sites

confirmation sampling for on-site reuse under soil cover or waste characterization sampling for off-site disposal). All soil sampling and testing costs will be paid directly by the Port.

- B. The Contractor shall prepare one or more stockpiles, and provide notice that soil stockpile(s) are ready for testing. The Port will collect a sample, and characterize each stockpile for reuse or disposal.
- C. The Contractor shall anticipate delays prior to the reuse of soil while waiting for soil sampling, testing, and review of analytical results Section 02 61 00 Removal and Disposal of Contaminated Soil. The Port will attempt to expedite this process to the extent practicable

3.06 SOIL REUSE

- A. The Engineer will make all determinations regarding soil reuse or soil disposal based on the geotechnical suitability and constituent concentrations encountered in excavated and cut soil in accordance with Section 02 61 00 Removal and Disposal of Contaminated Soil.
- B. All stockpile soils approved for reuse by the Engineer shall be reused on-site to the maximum extent practicable and commensurate with the applicable geotechnical criteria for the intended use and under the gravel cover material.
- C. The Contractor shall not remove signs or other forms of labeling until after all materials are removed from a stockpile. Stockpiles of the same classification may be mixed or combined by the Contractor for its intended use.
- D. The Contractor is encouraged to amend, mix, recondition, or modify excavated soils to the extent practicable in order to produce reusable soils that are geotechnically suitable for a given use.

3.07 DOCUMENTATION

- A. The Contractor shall prepare and provide written daily reports to the organization(s) conducting oversight activities. Daily reports must include date, hours of work, weather conditions, personnel and equipment for both the prime contractor and all subcontractors, and summary of work performed.
- B. The Contractor shall prepare detailed, written field notes and photographs to document all soil management activities (e.g., excavation, segregation,

DIVISION 1 – GENERAL REQUIREMENTS

Section 01 35 13 – Special Provisions for Contaminated Sites

stockpiling, reuse, and disposal) and provide these items to the organization(s) conducting oversight activities.

3.08 PRIOR COORDINATION

- A. The Contractor will attend an environmental-specific kickoff meeting with the Port, the organization(s) conducting oversight activities, and the Washington State Department of Ecology (Ecology). This meeting will be separate from the general kickoff meeting.
- B. The Contractor shall provide and maintain a detailed construction schedule for the Port, the organization(s) conducting oversight activities, and Ecology.

3.09 QUALITY CONTROL

- A. While performing the work, the Contractor may be subject to on-site inspections by regulatory inspectors from Ecology, the Washington State Department of Labor and Industries, and other federal, state, or local agencies. If the Contractor is found to be in violation of pertinent regulations, the Contractor shall cease all work immediately, notify the Port, and correct the violation. Standby time required to resolve such violation shall be at the Contractor's sole expense. Complete sets of personal protective equipment required for entry to the site shall be made available at all times by the Contractor to the Engineer and agency inspectors. Such requests will only be made during working hours.
- B. Concentrations of contaminants in soil and water outside the work area shall not exceed the concentrations in the area before work is started. Any cleanup costs associated with the cross-contamination of previously clean areas shall be the sole responsibility of the Contractor.

3.10 HOUSEKEEPING

- A. The Contractor shall maintain all non-stockpile surfaces throughout the area free of contaminated soils to the maximum extent practicable. The Contractor shall restrict the spread of contaminated soil over the general project area.
- B. The Contractor shall restore all loading area(s), haul road(s), stockpile area(s), wheel washing area(s), and other improvements constructed by the Contractor.

END OF SECTION