

**DECONTAMINATION PLAN**

RESPONSIBLE PARTY

**Incident Name:**

\_\_\_\_\_

**Responsible Party:**

\_\_\_\_\_

**Spilled Material:**

\_\_\_\_\_

**Spill Volume (estimate):**

\_\_\_\_\_

**Spill Location:**

\_\_\_\_\_

**Spill Date/Time:**

\_\_\_\_\_

**Report Update Time:**

\_\_\_\_\_

**Submitted By:**

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**Approved By:**

\_\_\_\_\_

**TABLE OF CONTENTS**

**1.0 DECONTAMINATION PLAN**

- 1.1 Personnel Decontamination Areas
- 1.2 Equipment Decontamination Areas
- 1.3 Vessel Decontamination

**LIST OF TABLES**

Table 1	Summary of Construction Materials and Equipment for Typical Decontamination Area
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**LIST OF FIGURES**

Figure 1	Site-Specific Decontamination Areas
Figure 2	Decontamination Area Schematic

### **1.0 DECONTAMINATION PLAN**

Personnel decontamination areas and equipment decontamination areas will be established on-site during a spill response. The decontamination areas will be established near waste staging areas. Equipment decontamination areas will be established on-site in areas accessible to spill response vehicles, equipment, and vessels. Site-specific locations for decontamination areas are presented as **Figure 1**. Decontamination areas will be lined with visqueen and industrial matting that can be disposed of after closure of the decontamination area. Replacement of this material will be based on field observation. After leaving the equipment decontamination area, personnel involved in equipment decontamination will exit through a personnel decontamination area. **Figure 2** also provides a diagram of a typical decontamination area.

#### **1.1 Personnel Decontamination Areas**

Decontamination areas will have large children's wading pools or other vessels for cleaning equipment and a frac tank of sufficient volume to store liquids evolved from the decontamination process. The cleaning pool will be setup within secondary containment to capture spilled material. Material will be transferred from the cleaning pool to the frac tank via transfer buckets as needed. Decontamination areas will include several wading pools for individuals to wash in while they are still wearing personal protective equipment (PPE), and three (3) drums for disposal of spill debris and a final personnel-cleaning step.

It is suggested that each decon station have the following equipment:

- Four 2 or 3-gallon pressure sprayers
- 100 feet of caution tape
- Six free-standing guide posts
- Two 55-gallon drums – open top with lid
- Two 55-gallon drums – open top with bung opening lid
- Eight packs of sorbent wipers (minimum 50 pads each)
- Two plastic buckets and two scrub brushes
- Two child wading pools
- Labels for drummed waste
- One or more frac tanks or other vessels to contain decontamination waste water
- Four 50-foot garden hoses with variable spray nozzles
- Four 20-gallon plastic trash cans

The drums will be labeled as follows:

1. Oiled PPE
2. Other Oiled Debris (i.e. sorbent pads, boom, etc.)
3. Un-oiled Debris

## ***Decontamination Plan***

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A tally of materials and supplies needed to construct personnel and equipment decontamination areas is presented in **Table 1**. Each of these areas will be surrounded with containment material. Upon leaving the exclusion zone, each individual will safely go through the designated decontamination stations. Decontamination Unit personnel will be available for assistance. Decontamination procedures will generally include the following:

1. Clean PPE in a series of decontamination pools
2. Remove and dispose of PPE in appropriate drums for disposal or cleaning and reuse
3. Personnel leaving the decontamination area perform final cleaning

Personnel decontamination procedures, specifically, will include the following steps:

1. Exit the work area after removing gross contamination and leaving it in contaminated area for later disposal. Enter the decontamination area by stepping on absorbent roll (Station #1).
2. Station #2 – Step into galvanized washtubs and remove all visible contamination from clothing and boots via wash brush. Absorbent pads and water sprayers or garden hoses should be available at this station to assist in the cleaning.
3. Station #3 – Step from washtub and walk on absorbent roll. Remove outer gloves and place in waste can.
4. Station #4
  - a. Continue on absorbent roll and step into next washtub. Remove protective clothing down to the boots.
  - b. Variation - If the responder is wearing a Mustang suit, remove as much contamination as possible and place the suit in a designated bag or bin for future decontamination and survey. If Mustang is lightly oiled, clean and place in reuse bin.
  - c. Step out of and away from boots and clothing.
5. Station #5 – Throw disposable clothing in waste bin and place boots in personnel bags for reuse.
6. Station #6 – Remove and dispose of inner gloves and exit decontamination line into sheltered area.

All liquid generated from this cleanup operation will be transferred to storage tanks used for containment of recovered oil and water.

### **1.2 Equipment Decontamination Areas**

The Decontamination Unit within the Operation Section will periodically clean equipment during response operations. Cleaning systems for skimmers, hand tools, and heavy machinery are established at the decontamination unit, usually in the immediate vicinity of the temporary waste management area established for a spill cleanup effort. Steam cleaning or soap and water wash, as appropriate, will be used to decontaminate equipment.

The equipment decontamination area will have a large pool or other diked impoundment for cleaning equipment and, a frac tank for storage of liquids. The cleaning pool or dike area will be lined with secondary containment to capture any spilled material.

Equipment that cannot safely be moved will be decontaminated on-site using soap and water with a water rinse; this process will be repeated until visible contamination is removed. Areas used for cleaning will be bermed and lined to prevent additional contamination, and the resulting water will be collected and disposed of per procedures identified in the *Oil Spill Waste Management Plan*.

Expendable equipment (e.g., rope mops, brushes, tarps, etc.) will not be decontaminated but will be drummed as waste. Decontaminated equipment will be inventoried and this information will be forwarded to the Resource Unit Leader and the Staging Area Manager for final disposition of decontaminated equipment.

### **1.3 Vessel Decontamination**

Large vessel decontamination involves the provision of a barge with a sufficient amount of double layer deflection boom to provide a containment area near the active offshore plume cleanup site. Tactics involve opening one end of boom, a boat enters containment, moors and small skiffs with decontamination crews close the boom to secure decontamination area. The crews proceed to either spray wash or wipe down vessels to remove product. A pumping system must be available to retrieve sheen/product from decontamination area and transfer it to barge.

If initial vessel decontamination is completed and sheen is observed upon vessel egress from decontamination area, secondary decontamination will be implemented. Small vessel decontamination will be completed via use of dry-dock crane arrangement, as feasible. Small vessels will be lifted from the water and placed in boomed areas of dry-dock, washed down and water collected from within boomed area. Areas where boats are lifted will be boomed and monitored to prevent spread of sheen. All sheen/product from vessel decontamination will be collected via absorbent pad/boom or trash pump transfer to a frac or Baker tank, or barge for quantification, reclamation, and proper disposal.



**Figure 1**  
**Site-Specific Decontamination Area Locations**

**Figure 2  
Decontamination Area Schematic**

**Decontamination Plan**

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**DECONTAMINATION PLAN**

RESPONSIBLE PARTY

**Incident Name:** Otter Creek oil spill

**Responsible Party:** Tesoro Alaska Company

**Spilled Material:** no. 2 diesel

**Spill Volume (estimate):** 2400 bbls

**Spill Location:** Tesoro pipeline at Otter Creek crossing, Cook Inlet

**Spill Date/Time:** 7/28/05 0830

**Report Update Time:** 9/1/05

**Submitted By:** John Kwietniak, RPIC

**Approved By:** Mark DeVries, FOSC

Example

***Decontamination Plan***

**TABLE 1**  
**SUMMARY OF CONSTRUCTION MATERIALS AND EQUIPMENT**  
**FOR TYPICAL DECONTAMINATION AREA**

Decontamination Area	Construction Barricades (#)	Drums (#)	Kiddie Pools	Pads (#)	Wash Tubs (#)	Caution Tape (feet)	Visqueen (feet)	Other
(1) Personnel Decontamination Area	3	4	4	4	8	25	75	
(2) Personnel Decontamination Area	3	4	4	4	8	25	75	
(3) Equipment Decontamination Area	16	8	8	8	8	150	250	
(4) Equipment Decontamination Area	16	8	8	8	8	150	250	

## **More Information on this Form**

*When do you need this form?*

Use this plan as guidance and decision making during decontamination activities.

*Who fills out this form?*

The appropriate positions within the Unified Command.

*Who signs this form?*

No signature is required.

*Where does this form get delivered?*

This plan should be vetted through the ICS.

*Other Notes:*

Products used for decontamination must be listed on the National Contingency Plan (NCP) Product Schedule maintained by EPA. The NCP Product Schedule is available online at:

<http://www.epa.gov/oilspill/ncp/>