

Hazardous Materials Management Plan
For Managed Wetlands Maintenance Activities
Authorized under the U.S. Army Corps of Engineers
Regional General Permit 3 (Permit No. 2012-00258N) and
Letter of Permission for the Suisun Marsh Dredging
Program (Permit No. 2012-00259N)

SUISUN MARSH, SOLANO COUNTY, CALIFORNIA

Property name _____

Property number _____

1/1/2016

Hazardous Materials Management Plan

INTRODUCTION

This hazardous materials management plan (Plan) was developed to be used by Suisun Marsh landowners, Agencies, and their contractors performing managed wetlands maintenance, repair and enhancement activities in Suisun Marsh. In compliance with the U.S. Army Corps of Engineers Regional General Permit 3 (Permit No. 2012-00258N) and the Letter of Permission for the Suisun Marsh Dredging Program (Permit No. 2012-00259N) terms and conditions there are biological resources best management practices (BMP's) and environmental commitments that are required by the United States Fish and Wildlife Service (USFWS) Biological Opinion for the Suisun Marsh Habitat Management, Preservation, and Restoration Plan (SMP) environmental documents.

This Plan will describe the actions that will be taken in the event of a spill. The Plan also will incorporate preventive measures to be implemented (such as measures pertaining to vehicle and equipment staging, cleaning, maintenance, and refueling) as well as contaminant (e.g., fuel) management and storage. This Plan does not preclude other permitting and regulatory responsibilities that landowners, Agencies or their contractors may be required to perform.

LOCATION: THE SUISUN MARSH IS LOCATED IN SOLANO COUNTY, CALIFORNIA. IT BOUNDED TO THE WEST BY INTERSTATE 680, HIGHWAY 12 TO THE NORTH, SHILOH ROAD AND COLLINSVILLE ROAD TO THE EAST, AND SUISUN BAY TO THE SOUTH.

EXECUTIVE SUMMARY

This executive summary is meant to give a quick guide on what to do to prevent spills and what to do if a spill occurs. Further information in greater detail is given in the dedicated sections in this Plan.

Equipment necessary for Hazardous Materials Cleanup

- Oil diapers

- Hydrocarbon spill cleanup kits

Recommended equipment to have on the construction site:

- Phone/radio

- Fire extinguisher

- Box of rags

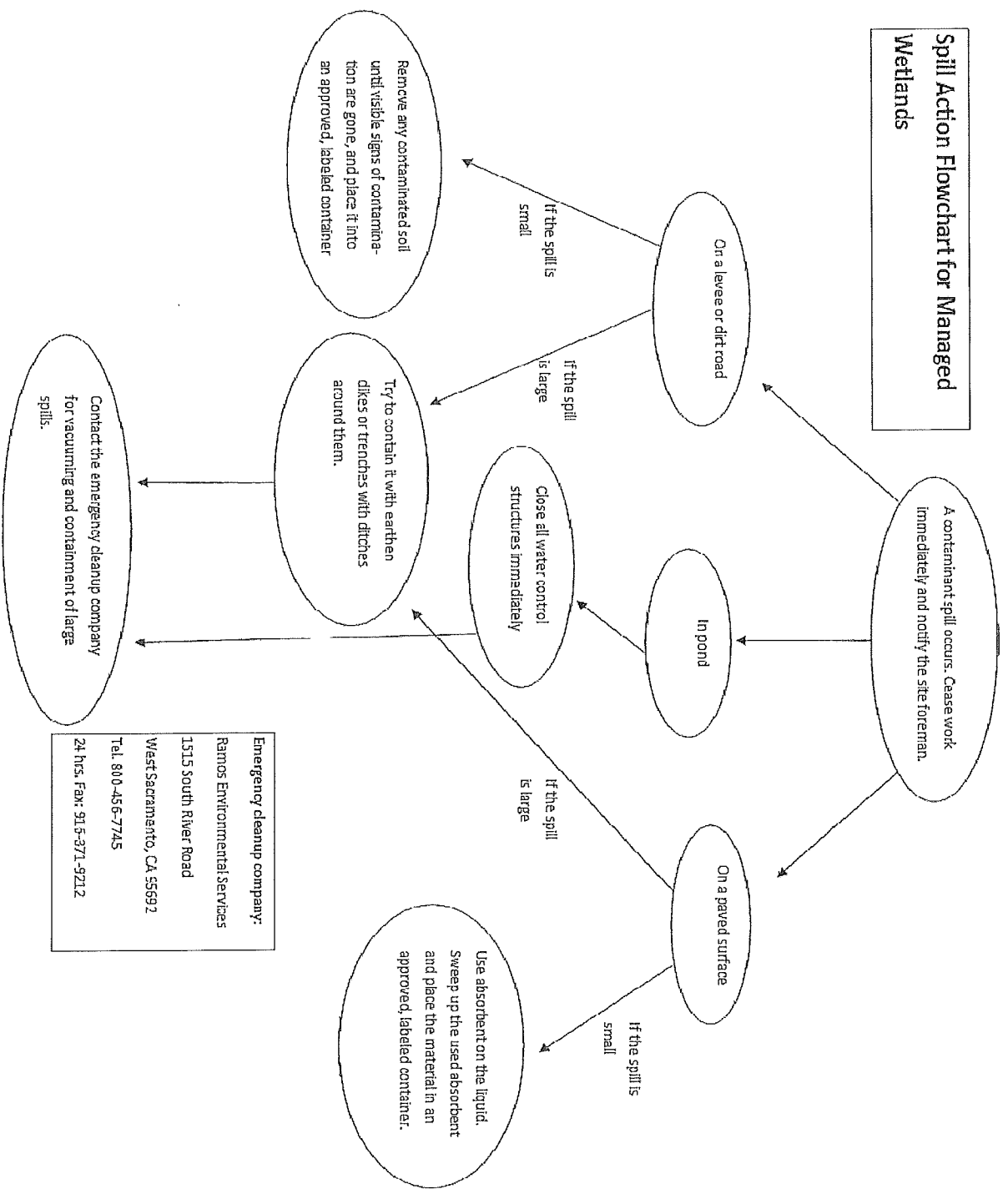
- 1 broom

- 1 pail or bucket

- 1 shovel

- 3 rolls duct tape

Spill Action Flowchart for Managed Wetlands



Emergency cleanup company:
 Ramos Environmental Services
 1515 South River Road
 West Sacramento, CA 95692
 Tel. 800-456-7745
 24 hrs; Fax: 916-371-9212

Due to the short duration of the construction projects, mobile equipment will be brought on and off site on an as needed basis. All equipment routine maintenance will be performed off site whenever possible.

Product	Quantity	Location stored
#1 Diesel	Size of container and how much is stored	
Gasoline	Size of container and how much is stored	
Hydraulic & Engine Oils	Size of container and how much is stored	

All equipment used in performing this work will be fueled from supplemental fuel tanks located in the bed of the operators' pickup trucks or trap wagons. Each of these pickup trucks will be equipped with a fuel spill kit in case of an emergency.

SPILL POTENTIAL ANALYSIS

The typical spill potential for each area on site is as follows: Construction Equipment

The greatest potential for spills during normal operations is from leaking oil, fuel, or hydraulic fluid. The size of the spill would be restricted to the size of the equipment reservoir. Spills will be handled with on-site equipment according to Section 3.

Equipment Refueling

Refueling of construction equipment will be made by construction site personnel and accomplished on an as needed basis. Site refueling consists of "temporary" refueling of construction equipment and large vehicles at the site.

SECTION 2. HANDLING PROCEDURES FOR OIL, HAZARDOUS MATERIAL, AND HAZARDOUS WASTE

FACILITY SITE SELECTION CRITERIA -STAGING

These procedures will be followed when selecting a site to store oil, hazardous materials, and hazardous wastes:

1. The selected storage site will, at a minimum, comply with all applicable Federal, state, and local regulations and permit conditions.

STORAGE SITE HOUSEKEEPING

The site where oil, hazardous materials, and hazardous wastes are stored will be maintained in a neat and clean manner. There will be no uncontained piles of materials. All spills will immediately be cleaned up and waste materials properly stored and disposed of. Standing, accumulated rainwater will be removed from the site as soon as practical. Gates will be locked when not being used, and fencing and building entrances will be posted with appropriate warning signs.

Removal or Relocation of Storage Site

When the site is abandoned or relocated, a survey will be made to note any staining, odors, or other evidence of spills or releases of oil and hazardous materials. All sites will be returned and/or remediated to their original condition. Copies of any records noting staining, odors, or other evidence of spills or releases and site restoration will be provided to the agency or landowner in charge of the work.

CONTAINMENT

Containment of oil, hazardous material, and hazardous waste will comply with all applicable Federal, state, and local regulations and permit conditions. One of the following containment methods will be implemented to ensure minimization of environmental impacts in the event of a release or spill.

Containment barriers will be compatible with materials to be contained. The containment material may be a plastic liner or impermeable soils. Materials will provide adequate impermeability and needed weather-resistance for the time they are expected to be in use.

After construction is complete and the storage area is no longer needed, the liner will be removed and any spills, stains, and/or odors noted. Any contaminated soils will be cleaned up and disposed of as hazardous wastes. If the area held oil, hazardous materials, or hazardous wastes, a determination will be made as to whether the spill needs to be reported and the cleanup procedures outlined in Section 3 of this Plan will be implemented. The findings and actions will be logged. Copies of these records will be submitted to the Site Supervisor.

Periodic inspections of the containment area for leaks and deterioration of the containment system will be made. Oil, hazardous material, and hazardous waste will be stored in a secure area with visible warning signs, including, but not limited to, "Hazardous Waste Storage Area," "Caution," "Fire Hazard," etcetera, appropriate to the contained material.

TRANSFER OPERATIONS, REFUELING, AND HANDLING

The following procedures will be followed when transferring oil, hazardous materials or hazardous wastes from one container to another or to and from a vehicle.

- For equipment without a fuel or level indicator, the receiving container will be gauged to ensure that space is available for the amount of material to be transferred.

- Containers and truck tanks will be inspected for leaks prior to transportation.
- Hazardous materials may not be transported inside the passenger compartment or cab of a vehicle.
- All valves and other openings will be securely closed and double-checked prior to transportation.
- All drivers will be licensed and the companies certified for the materials being transported.
- Materials will be clearly labeled and vehicles placarded according to DOT regulations. Manifests and/or shipping papers will be carried for the load.
- Fire extinguishers will be kept securely mounted on all vehicles.
- Vehicles will be prepared for response to spills and releases with equipment including absorbents, shovels, and checklists for emergency response. Drivers must be trained in the use of the spill response materials before transporting materials.

Fueling should be done as far away as possible, preferably at the corporation yard, but at least 100 yards away from the water's edge.

PERSONNEL TRAINING

All personnel working on the Project will receive an overview of this Plan during a standard workers' environmental briefing developed for the project. All personnel directly involved in the implementation of this Plan will receive training in the Plan's use, including Section 2 (Oil, Hazardous Materials, and Hazardous Waste Handling) and Section 3 (Emergency Response Procedures for Spill Incidents). Training for personnel directly involved in handling hazardous materials will typically consist of:

- Training on how to use emergency response equipment such as fire extinguishers and absorbent materials.
- Training on how to use this Plan and other environmental documents.
- Periodic "tailgate" meetings to update and remind personnel of the requirements of this Plan and other applicable environmental regulations and permit conditions.
- One-on-one or small group training by construction supervisors to reinforce or provide unique training for a specific job or task.

SECTION 3. EMERGENCY RESPONSE PROCEDURES FOR SPILL INCIDENTS

AUTHORITIES AND RESPONSIBILITIES

The responsibilities of an employee arriving at the scene of a spill will be:

Spill control equipment will include one 55 gallon drum, 2 bags of oil absorbent compound, 1 box of rags, 1 broom, 1 pail, 1 shovel, 1 pallet, 1 funnel, 1 roll barricade tape, and 3 rolls duct tape.

4. Erosion control Equipment:

Erosion control materials will be available on site at all times.

Erosion control equipment includes, but is not limited to geotextile fabric, sandbags, wattles, and visqueen.

5. Personal Protective Equipment:

Personal Protective Equipment will include 4 pairs of sol vex or Butyl gloves and 12 pairs of leather work gloves.

6. First Aid Supplies:

First aid equipment will include a first aid kit in all company pickups on jobsite.

EMERGENCY RESPONSE

PHASE I – INITIAL DISCOVERY AND NOTIFICATION

Cease Work

In the event of a contaminant spill, work at the site will immediately cease until the spill has contained and mitigated.

Notification

Upon observing a discharge, or learning that a discharge may have occurred, personnel must immediately (within one hour) notify the Site Supervisor. The notification will include what was spilled, how much (if known) and what, if any, assistance is required. The supervisor will make the required notifications using the Emergency Telephone List.

ENVIRONMENTAL EMERGENCY AND AGENCY CONTACT TELEPHONE LIST

<u>Title</u>	<u>Name</u>	<u>Day Phone</u>	<u>After Hours Phone</u>
Site Supervisor			
Cordelia Fire Department		707-864-0468	911
North Bay Medical Center		707-646-5000	911

3. Isolate spill from human and vehicular contact. Suggested methods: Contain per item 7 below. Isolate by use of barricades, barrier tape, etc. Post someone at spill if necessary to keep personnel and vehicles out of area.
4. Assess the potential for fires, explosions, or additional spills and take appropriate actions including stopping operations, isolating affected containers or equipment, and removing equipment or materials at risk of being affected by the release.
5. Assemble the emergency response personnel and provide a briefing detailing the cleanup procedures, protective clothing to be worn, the equipment to be used, and disposal methods for recovering materials.
6. Contain the release IF IT CAN BE DONE SAFELY by using one of the following containment techniques:
 - a. For relatively small releases, apply absorbent to the surface of the spills and reapply until there is enough to have absorbed all the liquid.
 - b. For larger spills, construct earthen dikes, trenches or ditches around the spill to prevent the discharge from leaving the immediate area and/or entering waterways.
 - c. If the discharge is unmanageable or likely to reach a waterway, call for assistance of a clean-up firm.
7. If the spill is on soil, the contaminated soil should be removed until there is no visible sign of contamination. Removed soil should be placed in approved containers and disposed of properly.
8. If, after actions were taken to contain and clean-up the spill, the release still either (1) poses a present or a potential hazard to the health and safety of humans, property, or the environment or (2) the release exceeds the reportable quantity, contact the appropriate emergency response agencies and give appropriate information including the following:
 - a. Date, time, and exact location of the release or threatened release.
 - b. Name and telephone number of the person reporting the release.
 - c. The type of hazardous materials involved, if known, in the release or threatened release.
 - d. The estimated quantity of released material and/or quantity of material involved in a threatened release.
 - e. A description of the potential hazards, if known, presented by the material involved in the release of threatened release.
 - f. Document the time and date notification is made and the information provided.
9. If the material was released on a public highway, notify the Highway Patrol at 911. Give the information outlined in step 8 above.
10. If the release enters a water body, contact the Site Supervisor immediately upon becoming aware of the spill for notification of the appropriate agency with jurisdiction over the area.

- The Site Supervisor is responsible for determining when a cleanup is complete. Depending on the nature and magnitude of the spill, this decision may be made in consultation between appropriate construction management and Federal, state, or local agencies which have jurisdiction in the affected area.

Significant Spills:

Spills of material over 25 gallons of hydraulic fluid and over 15 gallons of gasoline or diesel, or any material that threatens to enter California State waters will be dealt with as follows:

- The onsite representative will be contacted via radio or cellular phone and be apprised of the situation. The Site Supervisor will advise the representative of the necessity of contacting the pre-specified emergency spill response firm to mobilize for immediate clean up.
- Prior to professional clean up help arriving, the spill will be contained using absorbent padding, sand bags, desiccant, and/or a containment boom which will be stored at the site. Phase V-Documentation

Information will be sent to the affected agencies within the required reporting time frames. At a minimum, these reports will include:

1. Location of the incident.
2. Time, date and duration (hours) of release.
3. Source(s) of release.
4. Description and quantity of product(s) released.
5. Cause(s) of release, including a failure analysis of system or subsystem in which the failure occurred.
6. Resources affected or threatened by the release.
7. Description and status of cleanup/emergency response efforts.

The release occurrence will be recorded in order to maintain an ongoing release history. The Hazardous Materials Management Plan will be modified if analysis of the releases and spill history indicates improvements can be made in storage containment, emergency response, and/or training.