Spill Response Exercise Report

Approved by:

Name, Title: Kelly Flint, Senior Vice President and Corporate Counsel, Savage Companies
Designated Agent for EFSEC Application No. 2013-01
Date: 12 January 2016

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Vancouver Energy
Spill Response Exercise Report

EFSEC Application for Site Certification No. 2013-01
Docket No. EF131590
12 January 2016

Prepared for

Tesoro Savage Petroleum Terminal LLC
5501 NW Old Lower River Road
Vancouver, Washington 98660

Prepared by

BergerABAM
210 East 13th Street, Suite 300
Vancouver, Washington 98660

Job No. A13.0267.05

Revision Summary

No.	Date	Edits/Comments
00	12 January 2016	Report released

Vancouver Energy
Spill Response Exercise Report

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List of Maps

Data Package for Spill Scenario: Bakken Crude Oil

Under separate cover

Data Package for Spill Scenario: Dilbit

Under separate cover

1. Introduction

This report documents the results of a “desk top” spill response exercise to a hypothetical oil spill from the proposed Vancouver Energy facility. The purpose of the assessment was to evaluate the spill response actions to a hypothetical worst-case oil release. The exercise was performed following the principals of the Incident Command System (ICS), and in accordance with the procedures of the draft Operational Oil Spill Contingency Plan (OSCP, Vancouver Energy, 6-26-2015) prepared to address Washington Department of Ecology (Ecology) regulations found at WAC 173-182 and provisions of the federal Oil Pollution Act of 1990 (OPA 90).

Participants of this exercise listed below included spill response specialists from Tesoro, Tesoro’s contracted oil spill response organizations (OSROs; Marine Spill Response Corporation [MSRC], and Clean Rivers Co-op), and other subject experts from Tesoro, Savage, and outside consultants.

- Eric Haugstad, Tesoro
- Doug Price, Tesoro
- Jeff Baker, Tesoro
- Bill Kaiser, Savage Services
- Greg Challenger, Polaris Applied Sciences
- Elliott Taylor, Polaris Applied Sciences
- Ernie Quesada, Clean Rivers Cooperative
- Curtis Cannizzaro, Clean Rivers Cooperative
- Carl Boelter, Clean Rivers Cooperative
- Chris Stadiem, MSRC
- Cam Houck, MSRC
- Tim Stott, BergerABAM

2. Procedure

As per Environmental Protection Agency and Ecology policy and regulations, the worst-case spill release is considered the entire capacity of the largest storage tank (380,000 barrels) without regard to secondary containment or other engineering controls.

The response team mimicked the desktop logistics of the first 48 hours of a response to a worst-case incident. Standard ICS spill documentation was completed during the course of the exercise. The exercise was completed for both a worst-case release of Bakken crude oil and for diluted bitumen (dilbit).

The completed ICS document package for each scenario identifies protection strategies for sensitive areas using the October 2015 Geographical Response Plans (GRPs) for the Lower Columbia River as the foundation. Operational divisions were defined along river banks and, for each geographic area or division, spill response actions, resources, and approximate timing were documented for GRP priority protection sites, oil collection and recovery, and storage capacities for recovered oil and oily water.

One difference between the document packages completed for Bakken crude and for dilbit is that the package for dilbit includes a section addressing potential submerged oil (although unlikely until sufficient weathering and sufficient particulate interaction to raise the specific gravity for a portion of dilbit not contained or collected).

The scenarios used for the exercise are as follows.

2.1 Scenario 1 Bakken Spill

Tank Tnk-001 experienced a catastrophic side shell failure and released 380,000 barrels of Bakken crude. The oil breached the secondary and tertiary containment and flowed freely and unabated to the Columbia River. October 3 was selected as the release date to model a worst-case weather conditions (moderate temperatures and thereby moderate vaporization of spilled crude).

- Date: October 3
- Time: 08:30
- Temperature: 64 degrees F
- Wind 6.5 mph ESE
- River Current: 0.8 Knot
- Sunrise: 07:28
- Sunset: 18:26
- Oil API: 41

2.2 Scenario 2 Dilbit Spill

Tank Tnk-006 experienced a catastrophic side shell failure and released 380,000 barrels of Dilbit. The oil breached the secondary and tertiary containment and flowed freely and unabated to the Columbia River. To model worst-case conditions, January 3 was selected for the release date to mimic cold weather conditions, when dilbit has the greatest propensity to sink in the water column.

- Date: January 3
- Time: 08:30
- Temperature: 40 degrees F
- Wind 10 mph ESE
- River Current: 0.9 Knot
- Sunrise: 07:50
- Sunset: 16:53
- Oil API: 18.9

Note: The weather conditions assumed for the two scenarios correspond to monthly average conditions as listed in Figure 6.12, Climatic Information Lower Columbia River Region, Draft Facility OSCP.

3. Results

Results of the exercise consist of the ICS documentation packages for the Bakken crude and dilbit scenarios. Documentation packages include the following.

- ICS General Plan
- ICS 210: Operational task forces, equipment, and assignments
- ICS 215: Tactical planning spreadsheet of field activities
- ICS 232a: Key sensitivities
- ICS 232: GRP sites and protection actions
- ADIOS program inputs and outputs for oil spill fate and transport modeling
- Resource forms - Western Regional Resources List (WRRL) showing contractor equipment and personnel sources
- Environmental plans: Shoreline Cleanup and Assessment Technique (SCAT), waste, decontamination, wildlife response, and sampling

4. Conclusion

This exercise demonstrated the ability of the proposed facility response team and contracted resources to respond to a worst-case oil release. The ICS planning forms were completed in accordance with the tenants of the ICS and in conformance with OPA 90 and WAC 172-182. Utilizing the ICS response process and procedures of the draft OSCP, the response team was able to locate, allocate, and deploy adequate response equipment and trained personnel in accordance with OPA 90 and Ecology spill planning standards.

Vancouver Energy
Spill Exercise Response Report

EFSEC Application for Site Certification No. 2013-01
Docket No. EF131590

List of Maps

Map 1. Exercise Overview

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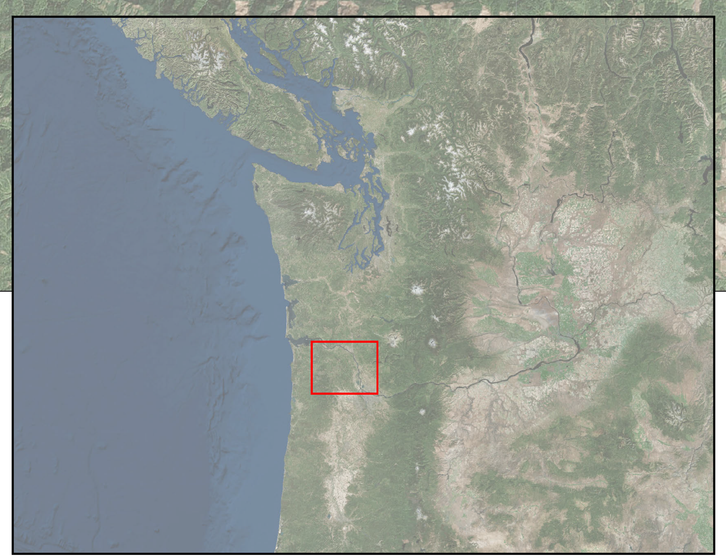
Vancouver Energy Exercise - Overview



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Map 2. Topographic Overview

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Vancouver Energy Exercise - Overview

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Map 3. Exercise Mapbook

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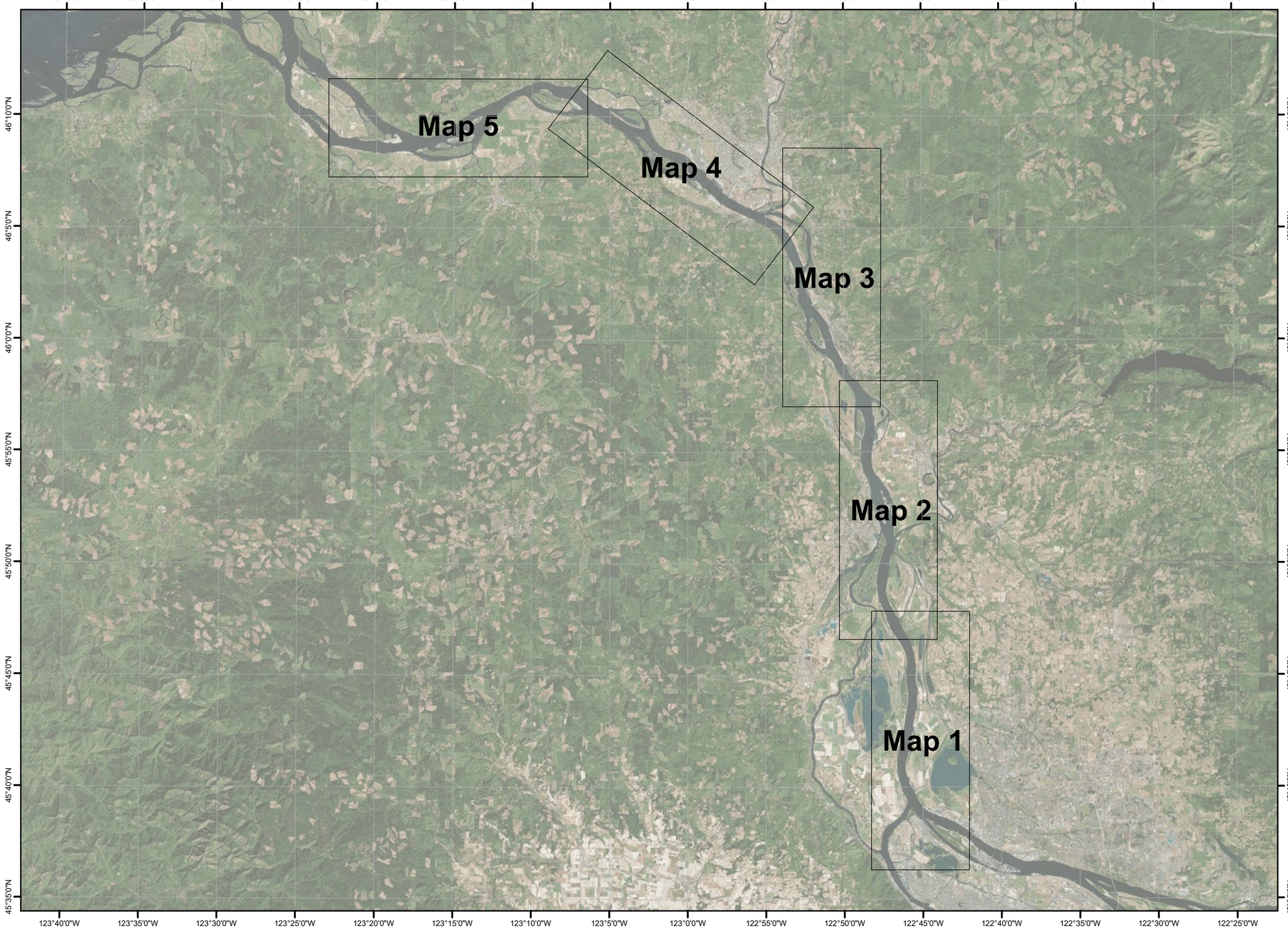
Vancouver Energy Exercise - Overview



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0 1.25 2.5 5 Miles

0 2.5 5 10 Kilometers

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Coordinate System: NAD 1983 UTM Zone 10N Last Revision: 2016-01-06 19:32

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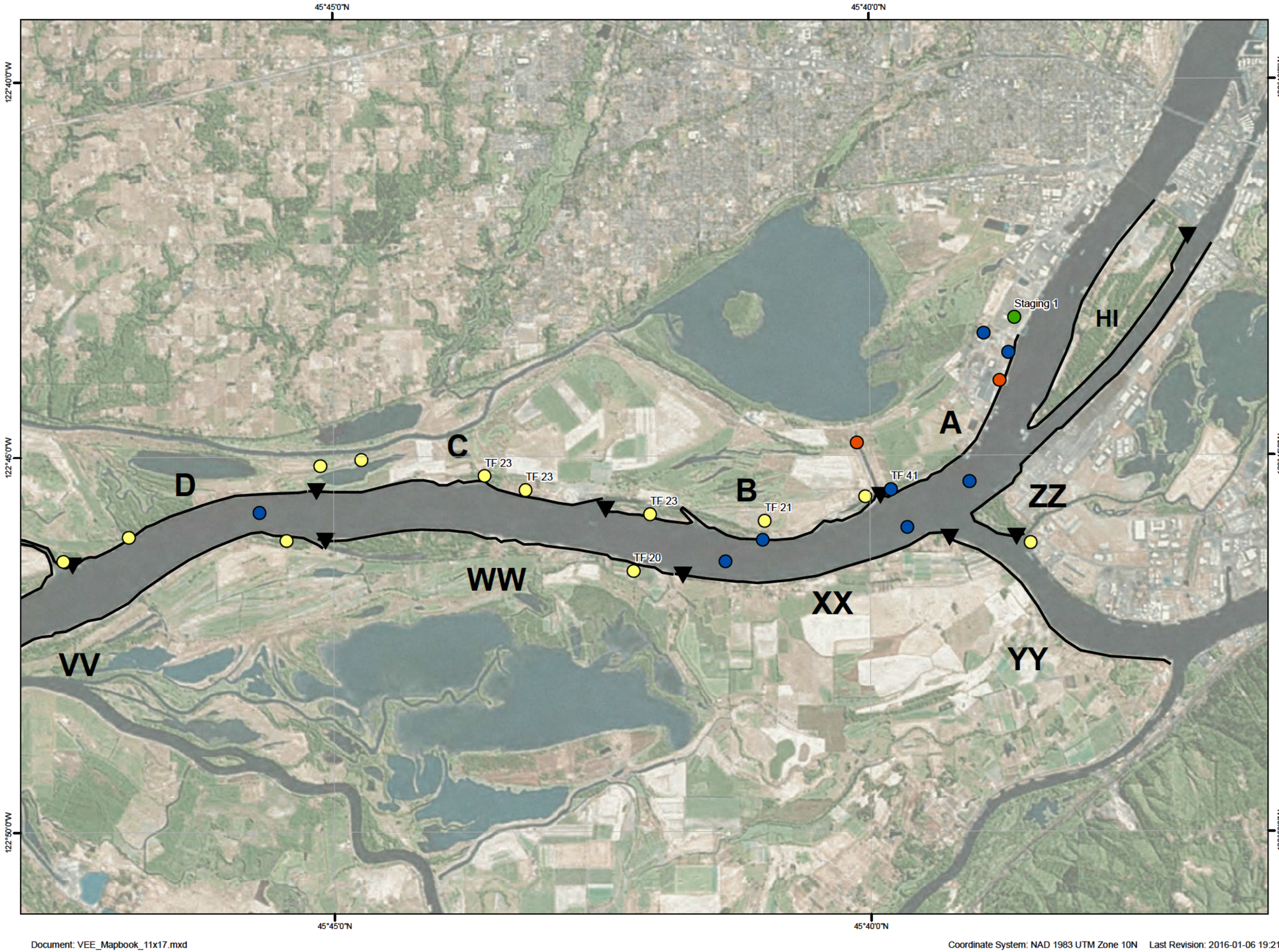
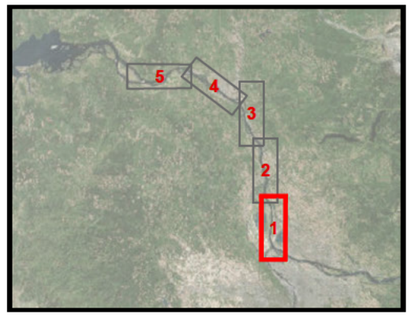
Vancouver Energy Exercise - Map 1





Legend

- Protection Task Force
- Recovery Task Force
- Staging Areas
- Water Intakes
- Division

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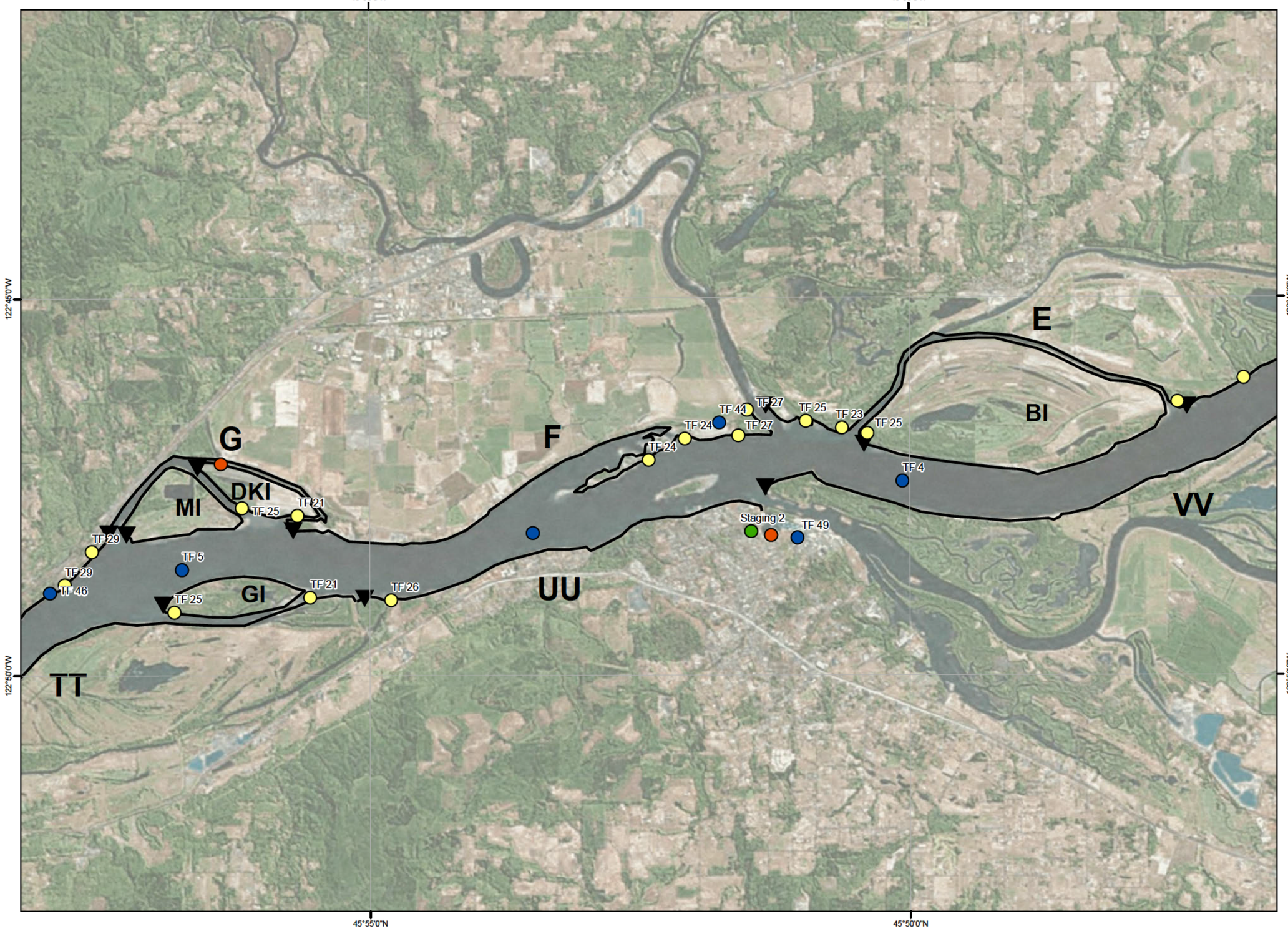
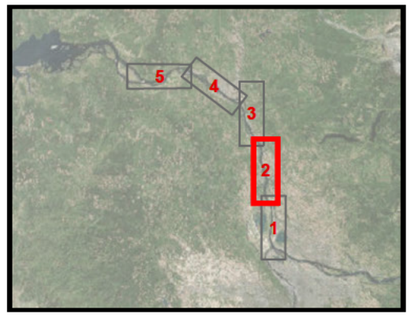
Vancouver Energy Exercise - Map 2





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0 0.5 1 Miles

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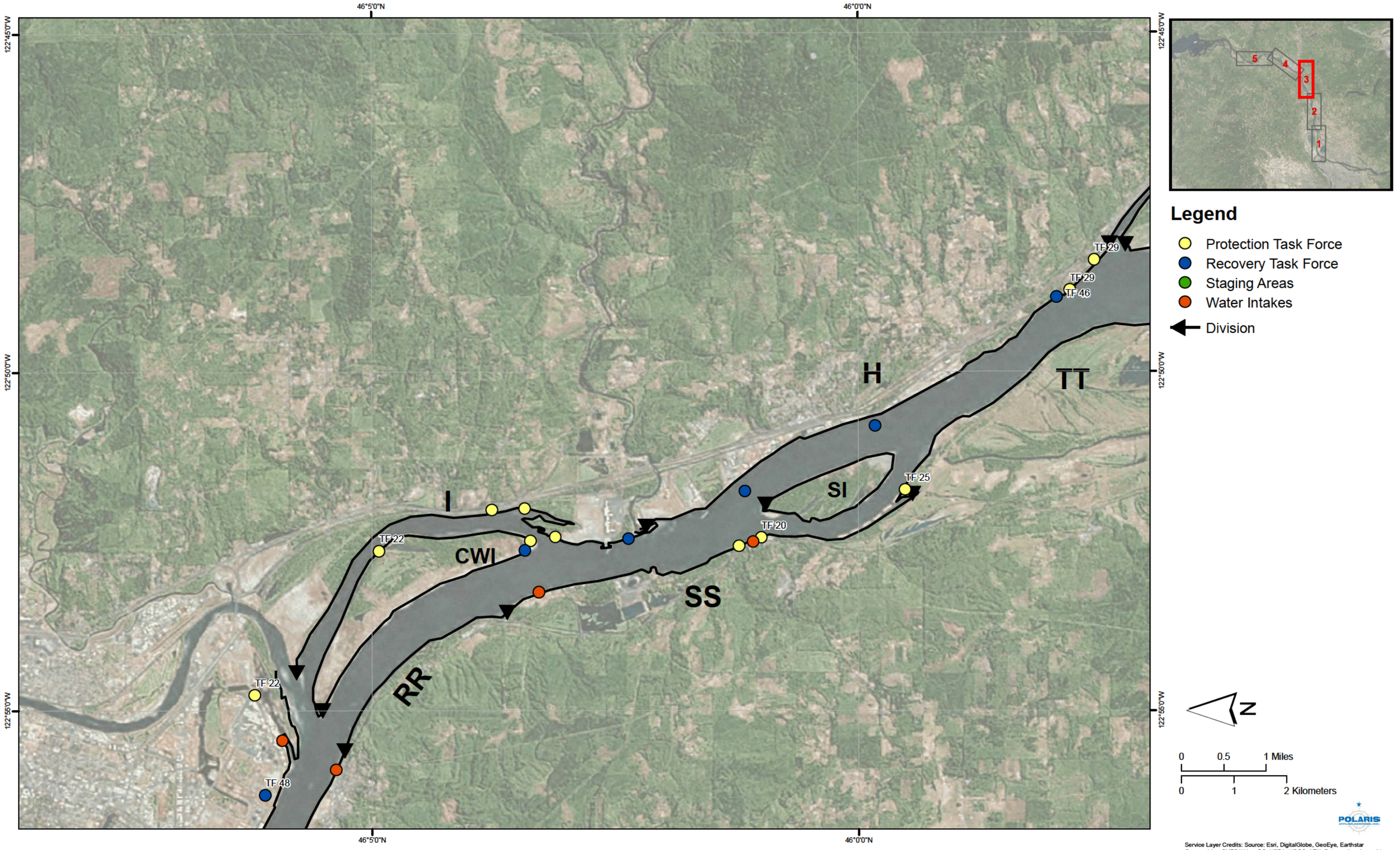
Vancouver Energy Exercise - Map 3



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Vancouver Energy Exercise - Map 4

123°0'0"W
122°55'0"W
123°5'0"W
46°5'0"N
46°10'0"N
123°10'0"W

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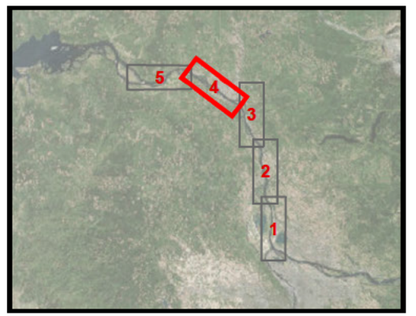
TF 33
TF 31
TF 22
TF 20
TF 42
TF 48
Staging 3



Legend

- Protection Task Force
- Recovery Task Force
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0 1 2 Kilometers

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Vancouver Energy Exercise - Map 5

123°20'0"W
123°15'0"W
123°10'0"W
46°10'0"N

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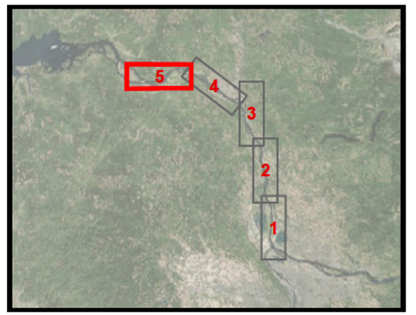

Legend

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- Recovery Task Force
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Map 4. Topographic Mapbook

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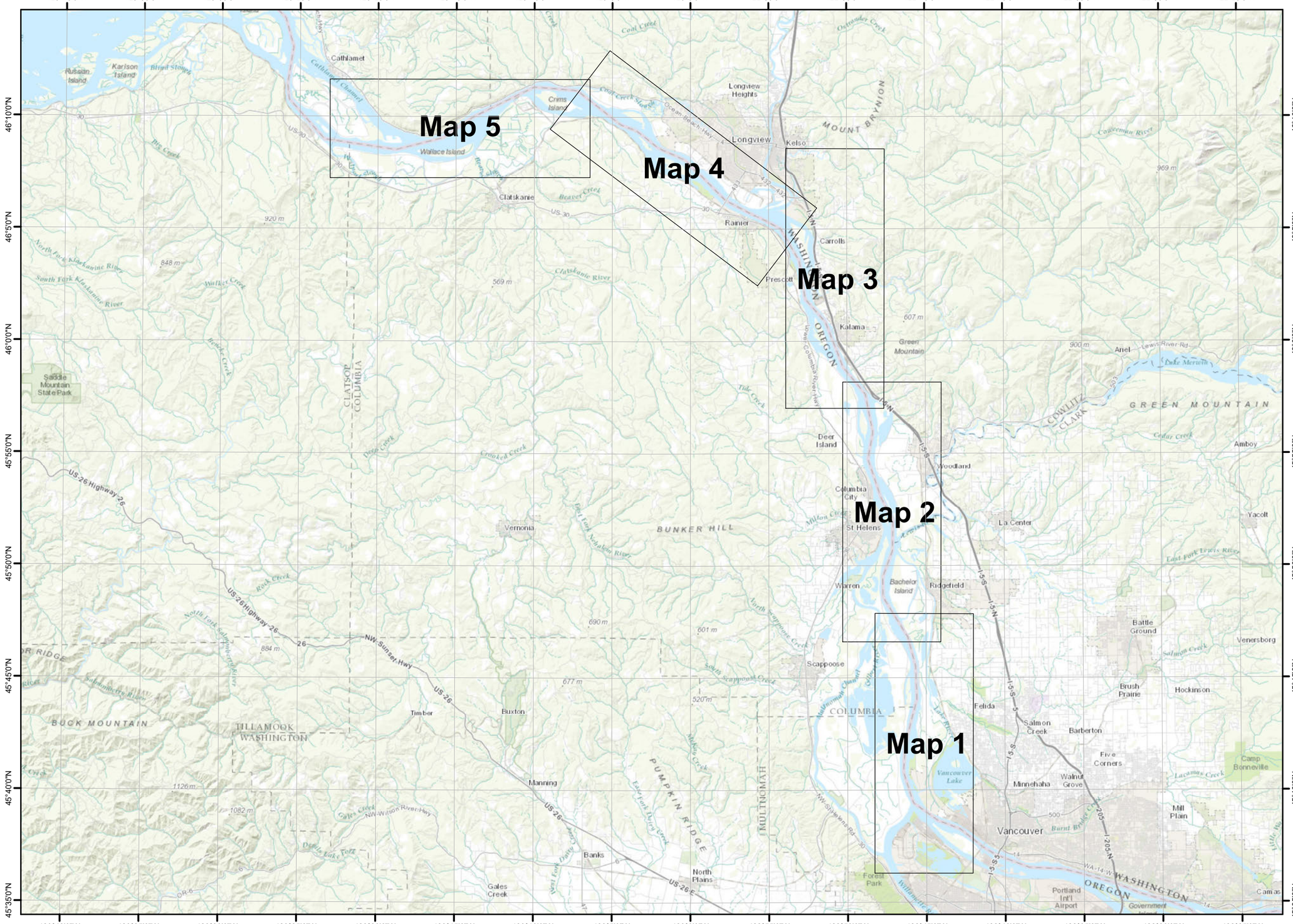

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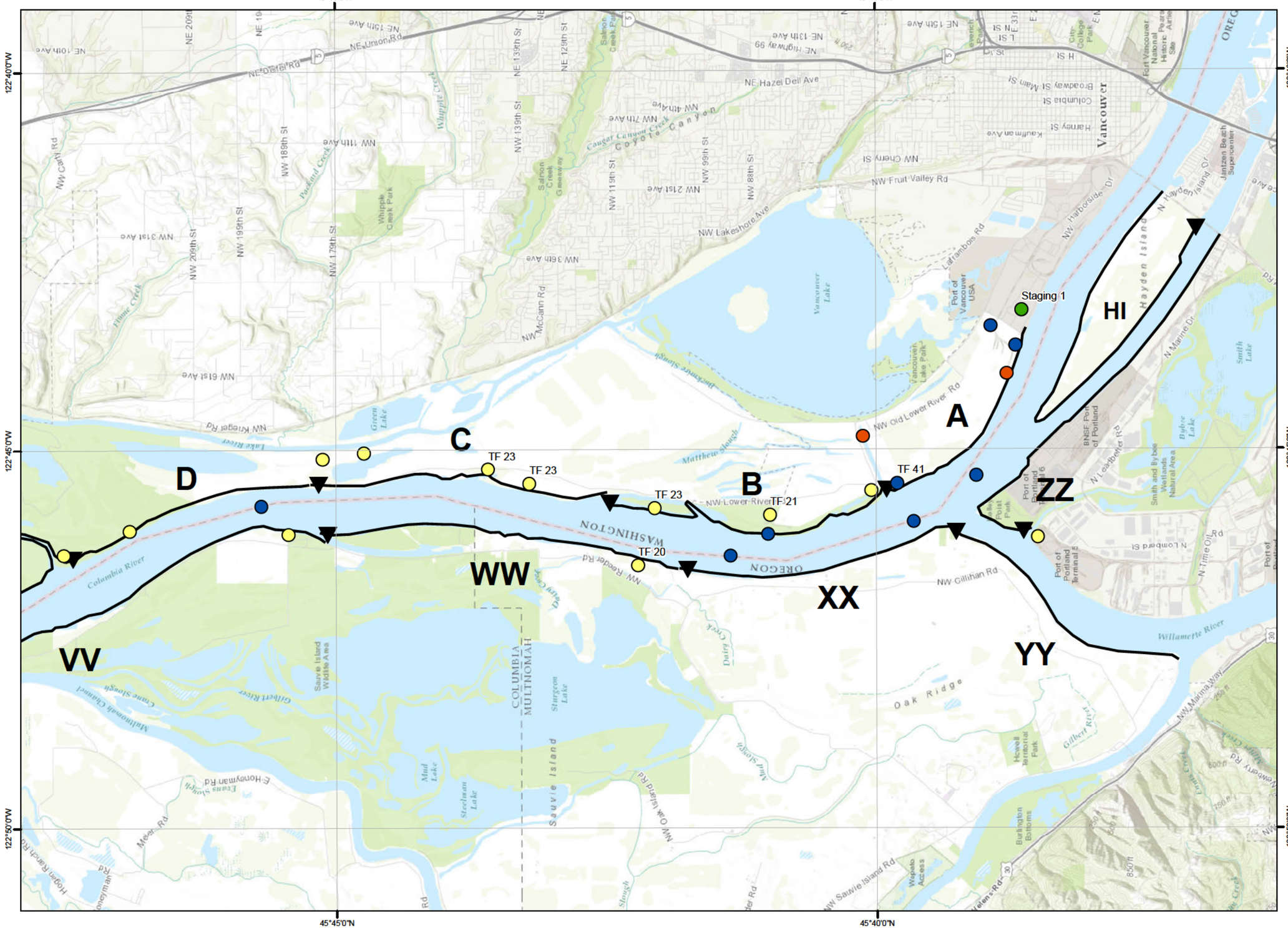
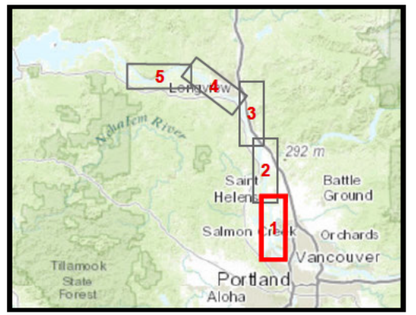
Vancouver Energy Exercise - Map 1





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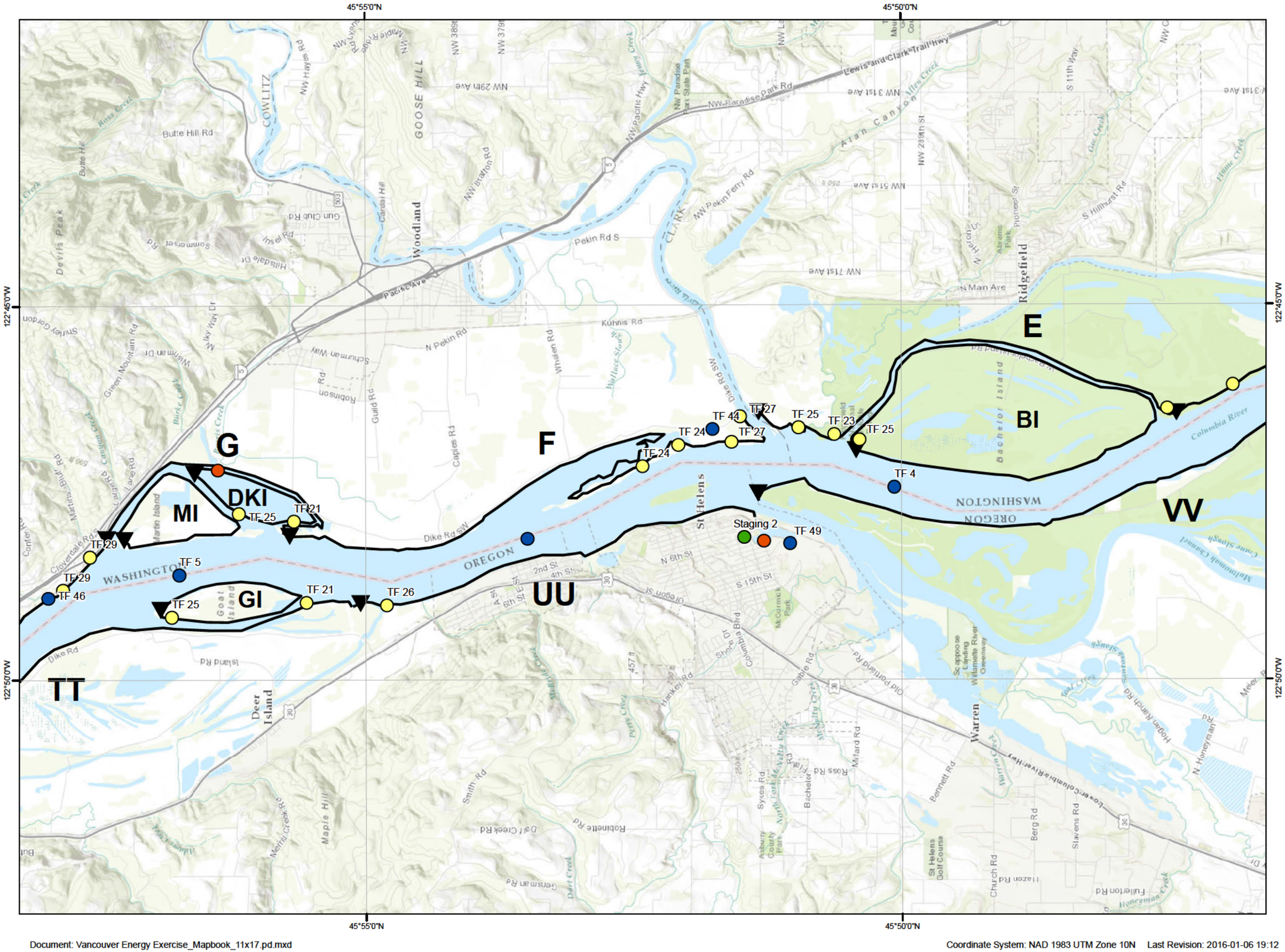
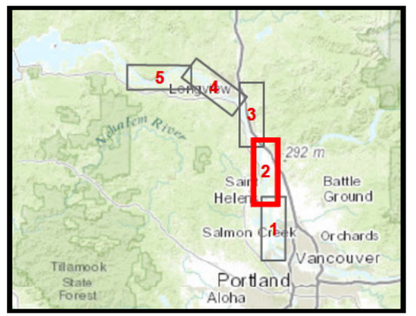
Vancouver Energy Exercise - Map 2





Legend

- Protection Task Force
- Recovery Task Force
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- Water Intakes
- Division

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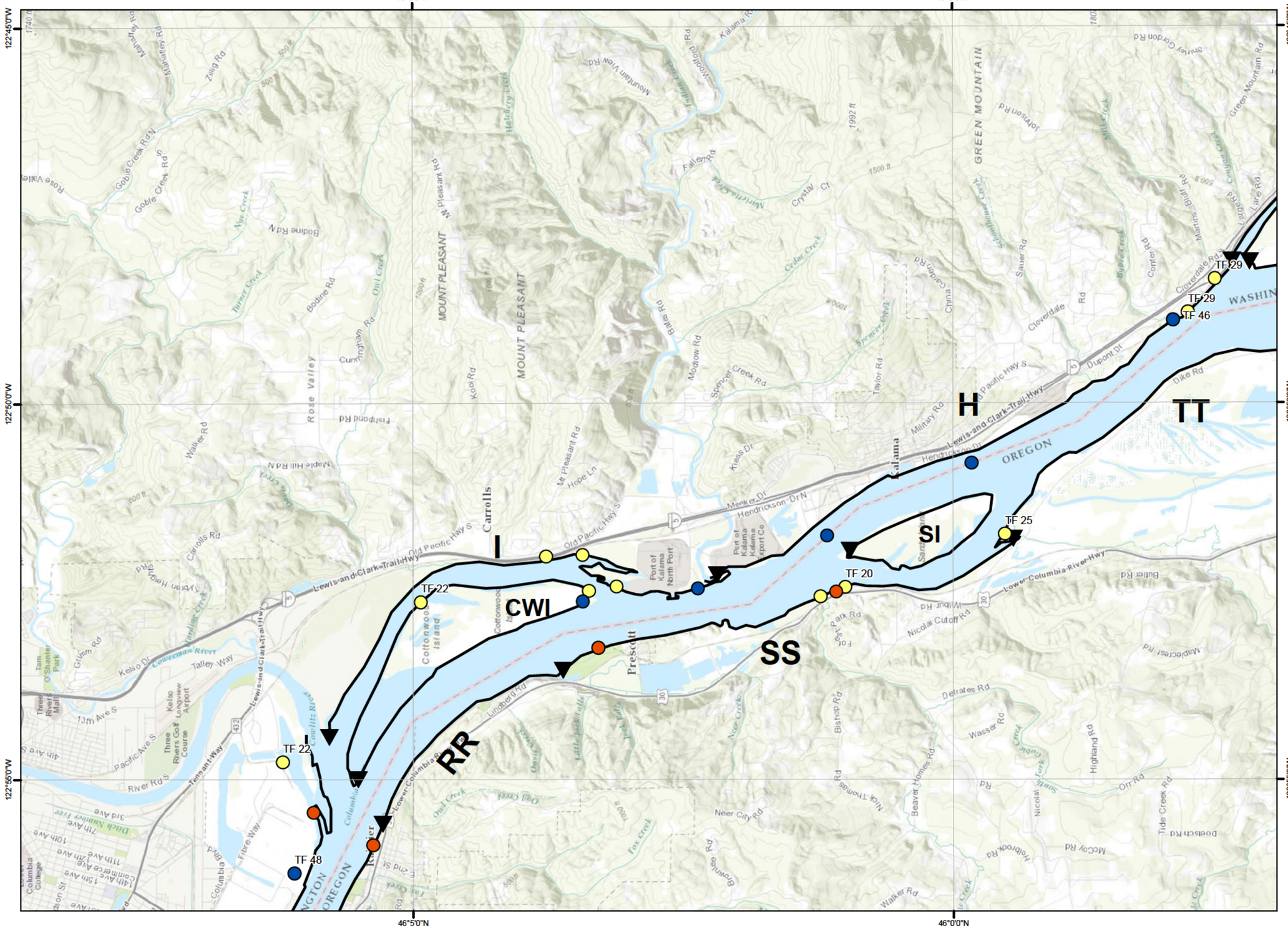

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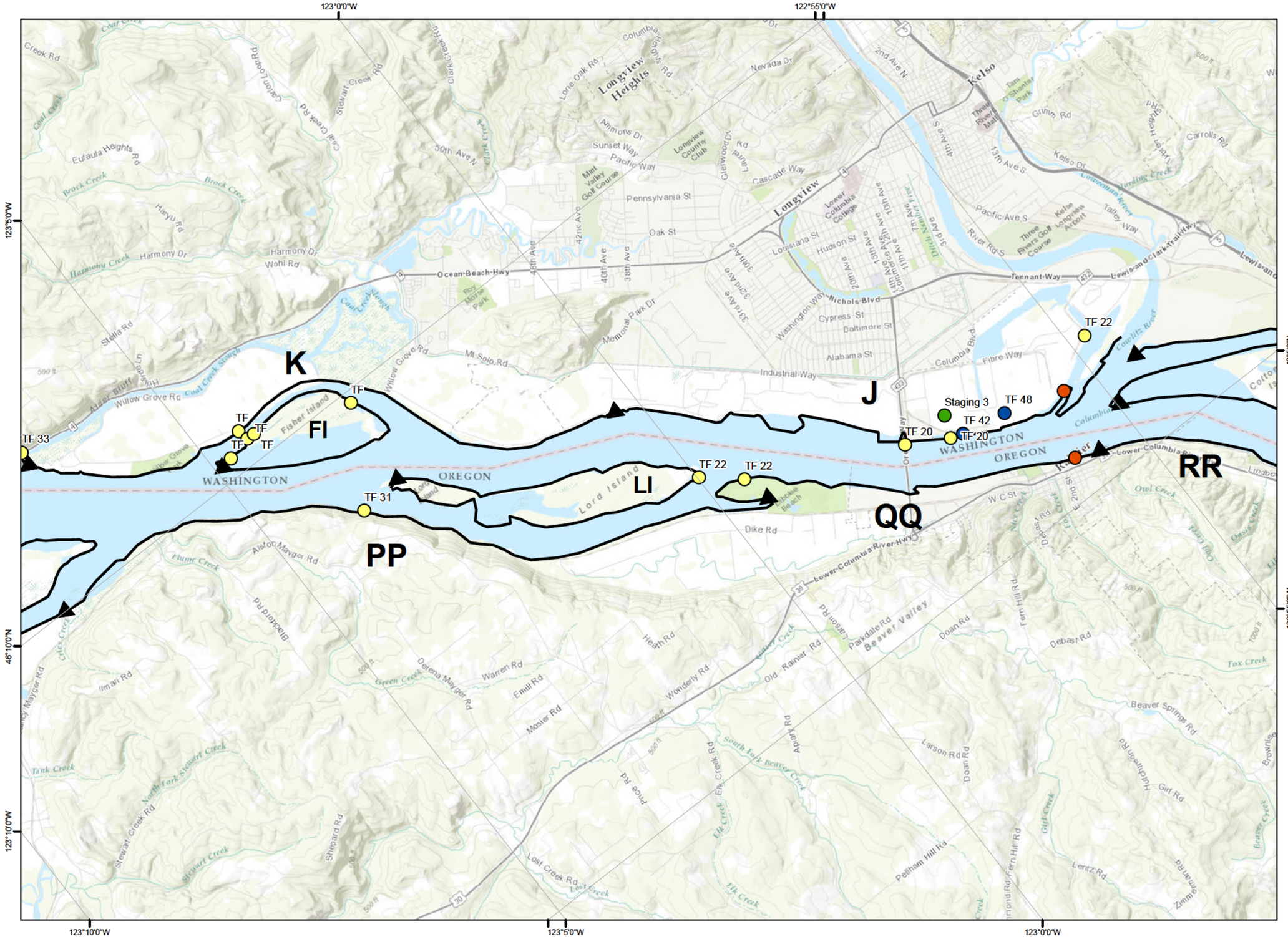

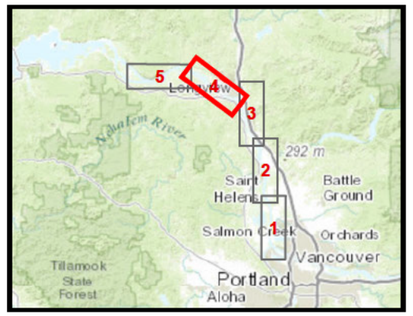

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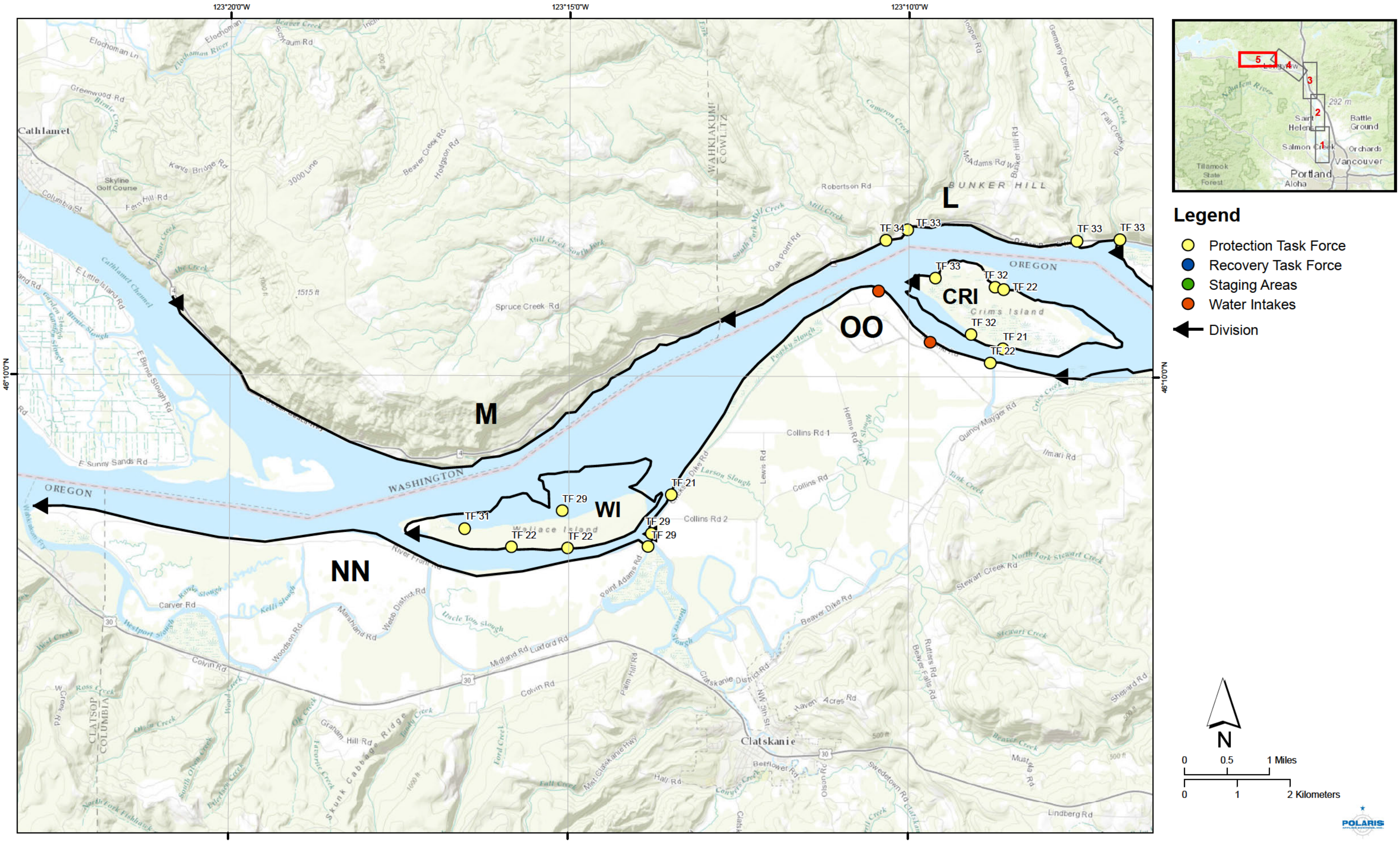
Vancouver Energy Exercise - Map 5



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Document: Vancouver Energy Exercise_Mapbook_11x17.pd.mxd

Coordinate System: NAD 1983 UTM Zone 10N Last Revision: 2016-01-06 19:12

Data Package for Bakken Crude

1. General Plan

2. ADIOS Program for Oil Spill Fate and Transport Modeling
   - Spill Scenario Inputs
   - Oil Budget Table

3. Spill Response Safety Plan
   - Safety Data Sheet included

4. Resources at Risk, GRP Sites, and Protection Areas (ICS 232 and ICS 232a)

5. Operational Task Forces, Equipment, and Assignments (ICS 210)
   - Protection
   - Recovery
   - Shoreline
   - SCAT
   - Special

6. Tactical Planning of Field Activities (ICS 215)

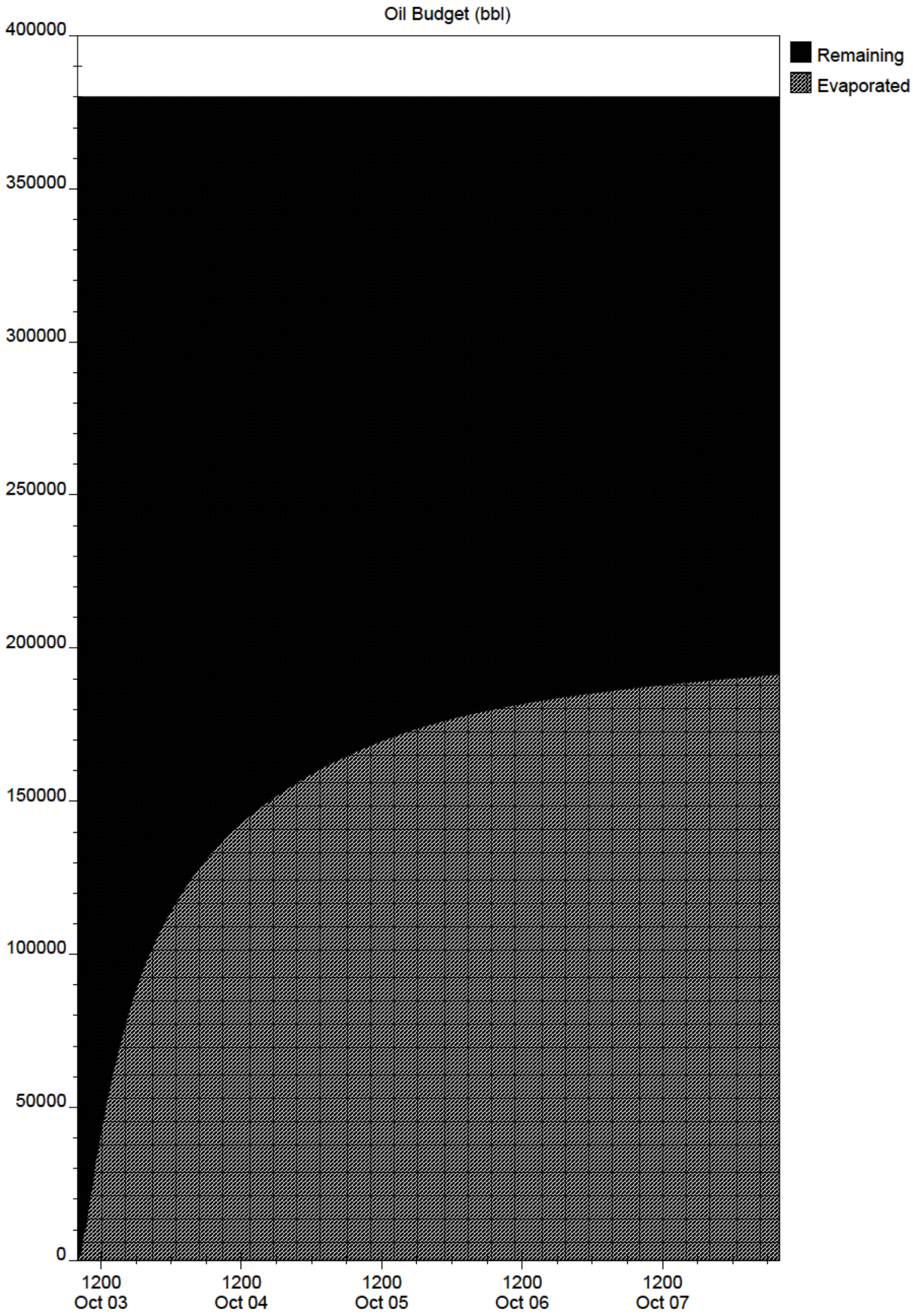
7. WRRL Resource Forms
   - Overall
   - By Response Hour

8. Environmental Plans
   - Waste Management and Disposal Plan
   - Decontamination Plan
   - Oil-Affected Wildlife Management Plan
   - Recovered Oil and Water Management Plan
   - Shoreline Cleanup Assessment Technique (SCAT) Plan
   - Spill Response Sampling Plan

1. Incident Name	Bakken Exercise	GENERAL PLAN
2. Prepared By	E Taylor Date/Time Prepared	3. Operational Period (Date/Time) From: 3 Oct To: Dec
4. Notification (Date and time completed)		5. Response Initiation (Date and time completed)

6. Plan Item (Timeframe ==> (Weeks))	1	2	3	4	5	6	7	8	9	10
Site Characterization, Forecasts, and Analysis										
Site Safety										
Site Security										
Source Stabilization, Salvage, and Lightering										
Surveillance										
On Water Containment and Recovery										
Identify Sensitive Areas / Resources at Risk										
Alternative Response Technology										
Shoreline Protection and Recovery										
Groundwater Remediation										
Wildlife Protection and Rehabilitation										
Logistics Support										
Response Organization										
Communications										
Public Information										
Financial Management and Cost Documentation										
NRDA and Claims										
Training										
Information Management										
Restoration / Mitigation										
Waste Management										
Demobilization										

- **Oil Type**
  - **BAKKEN, MS RIVER SPILL**
  - **Location = none listed**
  - **Synonyms = none listed**
  - **Product Type = crude**
  - **API = 40.8**
  - **Pour Point = unknown**
  - **Flash Point = unknown**
  - **Density = 0.820 g/cc at 15 deg C**
  - **Viscosity = 3.1 cSt at 40 deg C**
  - **Adhesion = unknown**
  - **Aromatics = unknown**
- **Wind and Wave Conditions**
  - **Wind Speed = 6 mph from 110 degrees**
- **Water Properties**
  - **Temperature = 60 deg F**
  - **Salinity = 0 ppt**
  - **Sediment Load = 50 g/m3 (avg. river/estuary)**
  - **Current = 0.8 knots towards 0 degrees**
- **Release Information**
  - **Instantaneous Release**
    - **Time of Release = October 03, 0800 hours**
    - **Amount Spilled = 380000 bbl**


Oil Budget (bbl)
400000
350000
300000
250000
200000
150000
100000
50000
0
Remaining
Evaporated
1200
Oct 03
1200
Oct 04
1200
Oct 05
1200
Oct 06
1200
Oct 07

Spill Scenario - Oil Budget Table

Oil Name = BAKKEN, MS RIVER SPILL
API = 40.8 Pour Point = unknown
Wind Speed = constant at 6 mphWave Height = computed from winds
Water temperature = 60 deg F
Time of Initial Release = October 03, 0800 hours
Total amount of Oil Released = 380000 bbl

Hours Into Spill	Released bbl		Evaporated percent		Remaining percent
1	380,000	-	1	-	99
2	380,000		3		97
4	380,000	-	10	-	90
6	380,000		15		85
8	380,000	-	19	-	81
10	380,000		23		77
12	380,000	-	25	-	75
18	380,000		31		69
24	380,000	-	35	-	65
30	380,000		38		62
36	380,000	-	40	-	60
42	380,000		42		58
48	380,000	-	44	-	56
54	380,000		45		55
60	380,000	-	46	-	54
66	380,000		47		53
72	380,000	-	47	-	53
78	380,000		48		52
84	380,000	-	48	-	52
90	380,000		49		51
96	380,000	-	49	-	51
102	380,000		50		50
108	380,000	-	50	-	50
114	380,000		50		50
120	380,000	-	50	-	50

PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Bakken Crude Oil DRILL **DATE PREPARED:** 3 Oct 2016

OPERATIONAL PERIOD: 3 Oct 2016 – 4 Oct 2016

Safety Plan

APPROVED BY:

Security Officer	**DATE**
Safety Officer	**DATE**
RPIC	**DATE**
FOSC	**DATE**
SOSC-OR	**DATE**
SOSC-WA	**DATE**
LOSC	**DATE**

COMMENTS:

Table of Contents

SECTION 1 – INCIDENT DESCRIPTION

WORK SITE: Vancouver Wa	INCIDENT: Bakken Crude Oil DRILL
DATE/TIME: 3 Oct 2016	SHIFT: Operational Period
PRODUCT: Bakken Crude	SDS (Attached): X
SAFETY OFFICER:	CONTACT RADIO FREQUENCY & PHONE NUMBER:
INCIDENT COMMANDER:	CONTACT RADIO FREQUENCY & PHONE NUMBER:

1.1 EVENT DESCRIPTION

Type of Event:

___ SHIP OR BARGE ___ PIPELINE **X** STORAGE TANK

___ OTHER: _____

Event Description:

Facility spill of 380,000 bbls into Columbia River at RM 105. Worst case discharge with no containment.

1.1 HAZARDS:

Check all that apply:

Oxygen	___	Slips, Trips & Falls	X
Explosive Vapors >10% LEL	X	Wind Chill	X
Benzene	X	High Winds	___
H2S	X	Working 4' Over the Ground	X
High CO	___	Night Ops	X
Fire Hazard	X	Pinch Points	X
Skin Exposure	X	Hypothermia	X
Eye Hazards	X	Other (working on water)	X
Heat Stress	___		

1.2 METEOROLOGICAL OUTLOOK

Current Weather Conditions		Forecasted Weather Conditions	
Wind Speed: 6.5 mph	Wind Direction: ESE	Wind Speed: Same	Wind Direction:
Air Temperature: 60 F	Ceiling:	Air Temperature:	Ceiling:
Precipitation: Rain X	Snow	Precipitation: Rain	Snow
Comments:		Comments:	
Current Water Conditions		**Forecasted Water Conditions**	
Water Temperature: 60 F		Water Temperature: 60	
Wave Height: 0-1	Wave Direction: NA	Wave Height: 0-1	Wave Direction:
Current Speed: 0.8 kts	Current Direction:	Current Speed: 0.8	Current Direction:
Tide Forecast Location: Longview WA		Tide Forecast Location:	
Low Tide Times: 1258, 1229	Low Tide Levels: 0.33', 0.64'	Low Tide Times: 0135, 1252	Low Tide Levels: 0.43', 0.74'
High Tide Times: 0540, 1730	High Tide Levels: 3.6, 4.1'	High Tide Times: 0620, 1800	High Tide Levels: 3.4', 4.2'
Comments:		Comments:	
Today's Sunrise/Sunset		**Tomorrow's Sunrise/Sunset**	
Sunrise Time: 0711	Sunset Time: 1848	Sunrise Time: 0713	Sunset Time: 1846
Comments:		Comments:	
Watches/Warnings/Advisories:			

1 knot = 1.15 mph

SECTION 2 – SAFETY GUIDELINES

2.1 SITE SAFETY

1. This initial plan is intended to provide guidance for the Site Supervisors, Responders and Contractors for post-emergency response to an oil spill.
2. No smoking, eating or drinking is allowed in contaminated areas; smoking will be allowed in the support zone (cold zone) in designated areas only.
3. Work sites and boats are limited to authorized personnel only.
4. A list of personnel on each job site will be kept for each shift showing arrival and departure from the site.
5. The operator of any vessel is responsible for the overall operation of the vessel and is in charge of all emergencies aboard that vessel.

6. Employees and contractors shall:
   a. Report all injuries, illness or near miss incidents to the Site Supervisor, Safety Officer or Section Chief.
   b. Read and sign the Site Safety Plan before starting work at the job site.
   c. Sign the log sheet for each safety briefing.
   d. Report all illness, injuries, or medications they are taking to their Site Supervisor prior to entry or upon exiting the job site.
   e. Report unsafe acts or conditions to the Site Supervisor or the Site Safety Officer. If unsafe conditions or work practices are observed, stop those operations immediately.
   f. Be responsible for inspecting their personal protection equipment (PPE) prior to entry into a job site.
   g. Use the "buddy system" and monitor each other for job-related injuries, exposure to the elements, or any other abnormal behavior.

2.2 SAFETY DATA SHEETS

1. An SDS will be made available and reviewed by all employees and subcontractors at the job site as part of the Site Safety Plan. (attached)

2. Specific Information that should be noted from the SDS is: Product name, Date of SDS, Hazardous components, Chemical and Physical characteristics and Health hazards.

2.3 SAFETY EQUIPMENT – PPE

Conventional Safety Equipment

REQUIRED (yes/no)		PPE TYPE	COMMENTS
YES		Personal Floatation Device	Over water/onboard ship
YES		Hardhat	At all times
YES		Safety Glasses	Helo pad/wildlife handling
YES		Goggles	Clean up/chemical handling /splash hazards
YES		Hearing Protection	Helo pad/equipment operation
YES		Gloves (Material)	Nitrile/PVC when handling oils and/or chemicals/clean up operations Cut-resistant glove for all other work
YES		Rubber Boots	Nitrile/PVC when handling oils and/or chemicals/clean up operations
YES		Yellow Rain Gear	Inclement weather/handling oils and/or chemicals/clean up operations
YES		Other	Chemical Tyvek® may also be used for oil clean up

Additional Safety Equipment

REQUIRED (yes/no)		PPE TYPE	COMMENTS
YES		Half Mask Respirator	As required by air monitoring results and job duties as determined by Safety Officer
YES		Full Face Respirator	As required by air monitoring results and job duties as determined by Safety Officer
YES		Supplied Air	First responder site evaluation and as determined by Safety Officer
		Other	

PPE indicated above is required for entry into Hot Zone areas.

2.4 DAILY DECONTAMINATION GUIDELINES FOR PERSONNEL

1. Three zones will be established and identified as the Hot Zone, Decon Areas and Cold Zone. Decon of equipment and/or personnel will take place in the two designated Decon Areas.

2. Personnel working inside the Hot Zone must check in and out of the Hot Zone. The Buddy System is in effect for all work parties. No one is allowed to enter or leave the site alone.

3. Decon Areas are provided as a control point for decontamination of individuals leaving a contaminated area. It is key in preventing the spread of contamination as well as providing worker support. These areas are identified on the Spill Plan Worksheets.

4. Decon procedures will be explained to response personnel prior to starting work at the job site. This document provides an organized method by which levels of contamination are reduced.

2.5 OFFSITE CONTROL

Response Zones

Control boundaries have been established and the Hot Zone (contaminated area), Decon Areas, and Cold Zone have been identified as follows, (refer to the Spill Plan Work Sheet):

Hot Zone - areas involved with the clean up operations.

Decon Areas and Wildlife handling areas will be adjacent to the hot zones.

Cold Zone - all areas immediately outside the hot zone.

No unauthorized person should be within these areas. No persons shall be in the Hot Zones without proper PPE.

Coordinating access control and on site security will be coordinated by: Security Officer

The Onsite Command Post has been established at: **Red Lion Hotel, Jantzen Beach, 909 North Hayden Dr., Portland, OR 97217 (503) 283 4466**

Community Safety:
Roads: I-5 access
Boaters: USCG Patrol Channel 16
Surrounding Community:
Sheriff: Clark County Sheriff's Office:
Street Address: 707 West 13th Street
Vancouver, WA 98660
Mailing Address: P.O. Box 410,
Vancouver, WA 98666
Main phone: (360) 397-2211
Air: Portalnd (PDX) Air Traffic Control

2.6 COMMUNICATIONS

1. Channel # and Name to be designated as the radio frequency for personnel in Hot Zone.

   Other channels for spill activities are:
   - Air Ops. – Freq. 121.500
   - Air medical to Ambulance – Freq. 154.430
   - Bird Rescue – Channel 16

2. Personnel in the Hot Zone will remain in constant radio communication or within sight of the Site Supervisor. Any failure of radio communication requires an evaluation of whether personnel should leave the Hot Zone.

3. The emergency signal to indicate that all personnel should leave the Hot Zone is to announce "Evacuate" over all radio channels.

4. The following standard hand signals will be used in case of radio failure:

Hands on top of head:	Need assistance
Thumbs up:	I am all right, I understand
Thumbs down:	Negative

2.7 PERSONNEL AND ENVIRONMENTAL MONITORING

Monitoring plan, to include substance monitored, monitoring equipment and frequency.

HAZARD	MONITORING INSTRUMENT	INITIAL FREQUENCY			
LEL	Industrial Scientific TMX 410	continuous			
BENZENE	Drager model GV-100	continuous			
H2S	Industrial Scientific HMX 271	continuous			

Personnel Monitoring

Initial Air monitoring performed. **Respiratory protection is required for all work in hot zones initially.** Air monitoring in hot zones will continue until monitoring results for LEL, Benzene, and H2S have shown that all exposures are below the PEL's. Subsequent air monitoring will be performed prior to each shift and/or prior to each new task being performed.

LEL and H2S monitoring will be performed as weather or work conditions change.

Environmental Monitoring

Initial monitoring to be performed and additional monitoring performed based on initial readings and changing conditions.

2.8 TRAINING

All Responders involved in these operations shall have been appropriately trained in emergency response procedures in accordance with the Tesoro Northwest Oil Spill Response Plan. They shall have been trained to the HAZWOPER level prescribed for them in 40 C.F.R 1910.120.

All Contractor personnel involved in these operations shall have been appropriately trained in emergency response and the appropriate HAZWOPER level.

2.9 EMERGENCY PROCEDURES

Onsite personnel will use the following standard emergency procedures. The Site Safety Officer shall be notified of any onsite emergencies and be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury in the Hot Zone:

Upon notification of an injury in the Hot Zone, the designated emergency signal shall be sounded. All site personnel shall assemble at the decontamination line. The rescue team will enter the Hot Zone (if required) to remove the injured person to the hotline. The Site Safety Officer, Operations Coordinator and Site Supervisor should evaluate the nature of the injury, and the affected person should be decontaminated to the extent possible prior to movement to the Cold Zone. The onsite first responders shall initiate appropriate first aid, and contact should be made for an ambulance. No persons shall reenter the Hot Zone until the cause of the injury or symptoms is determined.

Personnel Injury in the Cold Zone:

Upon notification of an injury in the Cold Zone, the Operations Coordinator and Site Safety Officer will assess the nature of the injury. If the cause of the injury of loss of the injured person does not affect the performance of the onsite personnel, operations may

continue. If the injury increases the risk to others, the designated Emergency Stop Alarm will be sounded and all site personnel shall move to the decontamination line for further instructions. Activities on site will stop until the added risk is removed or minimized.

Fire:
Upon notification of fire on site, or the need for rescue, the designated Emergency Stop Alarm will be sounded and all site personnel shall assemble at the decontamination line. Onsite coordinators will account for there personnel and all unaffected personnel will be moved to a safe distance form the involved area.

Personnel Equipment Failure:
If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Hot or Warm Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure:
If any other equipment on site fails to operate properly, the Operation Coordinator and Site Safety Officer shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety or personnel or prevents completion of the work plan tasks, all personnel shall leave the Hot or Warm Zone until the situation is evaluated and appropriate actions taken.

Emergency Escape Routes:
The following emergency escape routes are designated for use in those situations where egress from the Hot or Warm Zone cannot occur through the Decon Area: Take the shortest, upwind evacuation route out of the HOT or WARM ZONE. Assembly point for evacuation is the closest, safest decon site.

In all situations, when an onsite emergency results in evacuation of the Hot or Warm Zone, personnel shall not reenter until:

- The conditions resulting in the emergency have been corrected.
- The hazards have been reassessed.
- The Site Safety Plan has been reviewed.
- Site personnel have been briefed on any changes in the Site Safety Plan.

SECTION 3 – OIL SPILL RESPONSE SAFETY INFORMATION

The ultimate responsibility for safety rests with the individuals. At all times, they should keep the following safety cycle in mind:

1. Decide to work safely.
2. Exercise good judgement and common sense.
3. Observe all safety regulations and instructions.
4. Think about prevention of unsafe acts.
5. Stop if unsafe conditions are observed.

It is also important to watch out for your fellow worker. Keep an eye out for unsafe acts or unsafe conditions that your fellow worker may not be aware of.

During the conduct of response operations, there may be exposure to chemical and / or physical hazards such as:

- Inhalation of vapors
- Irritation of the skin
- Elevated or lowered body temperatures due to work environment.
- Exhaustion from long hours of demanding work.
- Stress, both physical and mental.
- Injuries due to lifting and body positioning.
- Cuts, bruises, sprains and strains.
- High levels of noise.

To eliminate or reduce these hazards to the maximum extent, it is imperative that the procedures prescribed in the following sections are followed.

3.1 GENERAL SAFETY PRACTICES

- Exercise good sound judgment and common sense
- Follow supervisor's instructions
- Be alert to health and safety hazards
- Attend all required safety meetings
- Wear proper safety equipment
- Set good examples for others
- Make sure tools and equipment are in good working condition.
- Use all tools and equipment as designed.
- Store tools and equipment safely after use.
- Avoid carrying loads that extend above eye level or otherwise obstruct vision.
- Size up loads before attempting to lift. Get help when needed.
- Observe all warning signs.
- Report all injuries when they occur.
- Keep work areas clear. Good housekeeping is a must.

3.2 BOAT AND WATER SAFETY

When boarding a boat, each individual should:

- Have their hands free to ensure good balance
- Know who the vessel captain is. The vessel captain has ultimate authority over all persons on the boat.
- Become familiar with the layout of the boat.
- Know where emergency equipment is located and how to use it (i.e. fire extinguisher, life jackets, life rings, and life rafts).
- Board a vessel only with a U.S.Coast Guard approved personal floatation device. Wear the device properly.

Onboard Vessel
While onboard the vessel:

- Watch out for slippery deck surfaces, especially if they are covered or stained with spilled oil. Use sorbant pads to clean up oil and/or to improve traction along walkways.
- Watch for erratic boat motions. Use safety lines when working on the deck.
- Avoid taking medicines for seasickness because they induce drowsiness
- Maintain awareness of other activities underway while performing your tasks.
- Maintain good housekeeping practices. Keep clear of ropes and lines.
- Wear cut-resistant gloves while handling ropes and cables.
- Wear a personal floatation device.
- Keep safety railings and/or chains in place until it is necessary to remove them to work. Replace railings/chains as soon as possible.

Capsized Craft
If the craft capsizes:

- Make every effort to get out of the water and onto the hull of the craft. If the craft continues to float, it is usually better to remain with it.
- The craft will be seen, and more easily located by rescue personnel than a lone person.
- If you cannot get out of the water, remain calm. Conserve your energy. Float as still as possible with legs together, elbows close to sides, and arms folded across the front of your lifejacket.
- Try to raise an alarm.

Overboard Victim
If a person sees someone fall overboard, the observer should:

- Watch victim constantly. Point to the victim while raising the alarm.
- Notify others by calling "Man Overboard".
- Obtain a life ring to assist in retrieving the victim.

If the overboard victim is rational but shivering when pulled onboard, have them remove wet clothes, put on dry clothing or a blanket, and rest in a warm environment.

If semiconscious or unconscious:

- Check for breathing and heartbeat. Administer CPR in necessary.
- Move victim to a warm environment
- Remove victim's clothes. Do not massage the skin
- Insulate the victim from further heat loss. Wrap in a blanket.
- Do not attempt aggressive warming.
- Gentle warming can be attempted by placing a bottle filled with warm water next to victims head, neck, arm pits, or groin
- Do not give the victim anything to eat or drink, and never offer alcohol.

3.3 VEHICLE SAFETY

All persons called upon to operate a vehicle should:

- Always carry a valid driver's license.
- Wear a seat belt.
- Be familiar with the vehicle's equipment and operation.
- Keep windows and mirrors clean and unobstructed at all times.
- Report any accident or unsafe condition to their supervisor.
- Obey all rules of the road.
- Never engage in horseplay.
- **Drivers can not use cell phones or radios while operating the vehicle**.

3.4 EQUIPMENT SAFETY

The key to equipment safety is knowing how to operate a piece of equipment. If you have not been trained and understand how to operate a piece of equipment, notify your supervisor. While operating equipment, observe the following:

- Keep alert at all times. Know and follow signals of the operators.
- Wear the proper PPE.
- Do not wear loose fitting clothing. Keep hair tied up in such a way that it cannot come into contact with rotating parts.
- Know the safety features of the equipment. Know how to shut down and secure the equipment should an emergency occur.
- Do not operate electrical equipment while standing in water.
- Use walkways and steps where provided. Do not take short cuts.
- Use the proper tools. Do not use tools or equipment for something they were not intended.
- Follow manufactures recommendations and guidelines for equipment and tools.

3.5 HELICOPTER SAFETY

When approaching a helicopter, a person should;

- Look for the pilot to give a hand signal when it is safe to approach the helicopter.
- Always walk towards the front of the helicopter. Never walk towards or around the rear of a helicopter, even when it is idle.
- Wear a hard hat with the chin strap secured.
- Wear proper eye protection (goggles).
- Ensure the pilot briefs the passenger on safety procedures before each flight.

3.6 CHEMICAL HAZARDS

Depending on the specific operations conducted at the spill scene, a person may be exposed to the following substances:

- Crude oil
- Cleaning agents
- Hydrogen Sulfide
- Benzene

Safety Data Sheets (SDS), describing the specific hazards and precautions to be taken when handling each of these products will be available for inspection on the site. Follow precautions carefully.

All containers should be labeled as to their contents. If the containers are unidentified or unlabeled, they should notify their supervisor and not handle the container until it has been properly identified and labeled.

3.7 PHYSICAL HAZARDS

Hypothermia

Water temperature and air temperature can be low enough to expose the body to rapid heat loss and a cooling of the body core temperature. In cold water, the body will lose heat many times faster than in the air. Even outside the water, wet clothing will conduct heat away from the body much faster than dry clothing. Normally a combination of climatic/environmental and body factors results in a person suffering from hypothermia.

Symptoms of hypothermia include:

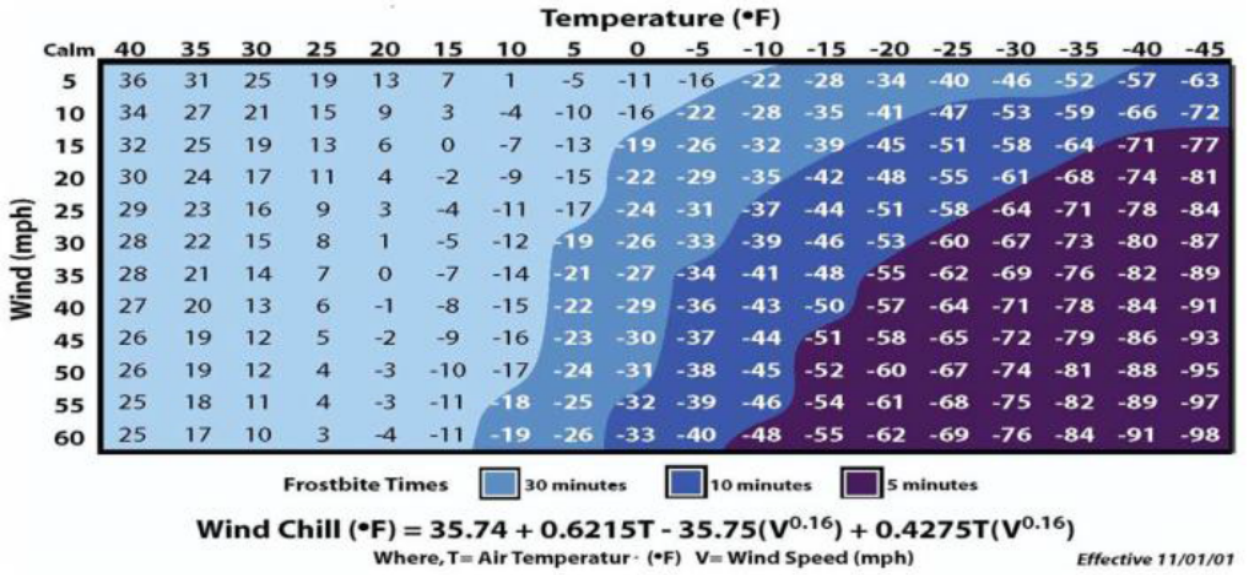
- Continual shivering and paleness.
- Lack of coordination
- Slurring of speech
- Lack of concentration
- Dazed or confused behavior

When a person suffers from severe hypothermia, shivering will stop, blood pressure will drop substantially, consciousness will be clouded, respiration will decrease, and the victim's muscles will become rigid. Unconsciousness will ultimately occur, and death may be imminent.

To protect against hypothermia, a person should:

- Be aware of the weather, check the forecast
- Wear appropriate clothing
- If clothing becomes wet, remove it and dry it as much as possible before putting it back on
- Control sweating by removing layers of clothing so that a uniform body temperature is maintained
- Replenish energy by taking breaks for food and warm liquids

Wind Chill Chart



Temperature (°F)

Wind (mph)	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
5		36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
10		34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
15		32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
20		30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
25		29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
30		28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
35		28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
40		27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
45		26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
50		26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
55		25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
60		25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98

Frostbite Times 30 minutes 10 minutes 5 minutes

$$\text{Wind Chill (°F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

Where, T= Air Temperatur · (°F) V= Wind Speed (mph) *Effective 11/01/01*

Noise

Response operations may require the use of generators, pumps, compressors, engines, and other equipment that generate high levels of noise. Short-term exposure to extremely loud noise and/or long-term exposure to low level noise can cause hearing loss. If a worker is assigned to a high noise area, they should wear proper hearing protection.

Dehydration and Heat Stress

Response operations can involve strenuous activities that can, even in relatively cool weather, lead to excessive sweating. This is even more likely to occur when wearing protective clothing that may reduce the body's ability to discard excess heat. This may lead to dehydration, heat rash, heat cramps, heat exhaustion, and possibly heat stroke.

Symptoms of dehydration:

- Cramping in arms, legs or abdomen
- Feeling faint, dizziness or fatigue

Need to take time to rest, preferably in a shady area, and rehydrate by drinking decaffeinated, non-alcoholic fluids

Symptoms of heat exhaustion:

- Faint, dizzy, nauseous feeling
- Sweating heavily or has pale skin color
- Rapid shallow breathing
- Dilated pupils, weak rapid pulse

Need to report to a first aid station immediately

Heat stroke is a life threatening condition. The body must be cooled down immediately. It is imperative to get medical attention at once.

Lifting hazards:
The following rules for safe lifting practices should be observed:

- Plan the lift and route to travel with the load prior to lifting.
- Know the approximate weight of the object prior to lifting.
- Lift with legs, keep back straight, knees bend, squat down to lift.
- Stand up slowly, keeping the load close to the body.
- Use wide balanced stance, with one foot ahead of the other.
- Move feet to change direction, do not twist at the waist.
- Avoid carrying loads that extend above the eye.
- If lifting/carrying with a partner, communicate all moves prior to performing.
- Push, do not pull heavy objects.
- Do not stand under a suspended load.

Slips, Trips, and Falls
Oily surfaces are extremely slippery. Even in slip resistant footwear, walking through an oily area may be hazardous. Also the decks of ships, the scene of shoreline protection and/or clean up operations and equipment in staging areas can contain numerous obstacles. When engaged in response operations:

- Be alert for oily surfaces.
- Use handrails and safety lines when available.
- Be aware of you surroundings. Identify tripping hazards and address the hazards appropriately.
- Keep all walkways, work surfaces, etc. free of debris, tools, or obstacles that could create a tripping hazard.
- Never engage in horseplay.

3.8 DRUM HANDLING

All drums and containers should be properly labeled. Material in unlabeled drums should not be used. Any such drums should be reported to supervision for action.

Drums and containers should be in good condition prior to being moved. Drums larger than 5 gallons should be lifted and moved with mechanical equipment.

If a drum spill occurs, notify supervision and use appropriate absorbent material or other methods to contain the spill.

3.9 PERSONAL PROTECTIVE EQUIPMENT

The primary objective of personal protective equipment is to prevent accidental contact with hazardous chemicals. Before a chemical can have an adverse effect, it must come into contact with a vulnerable area of the body. There are four methods of contact:

1. Injection - puncture wounds
2. Absorption - through healthy, intact skin or eyes

3. Inhalation - through the mouth or nasal passages. This is the most common route of entry.
4. Ingestion - direct or indirect consumption while eating or drinking

When engaged in response activities:

- Know how to don/doff personal protective equipment
- Know the limitations of the PPE
- Wear hearing protection when noise levels could cause hearing damage
- Safety glasses and slash goggles are not the same. Do not use safety glasses for protection against chemicals.

Use only PPE approved for use with the chemicals being handled. Leather gloves are not rated for use with oils, corrosive chemicals or hydrocarbons
Wear proper footwear. Steel toe shoes are required when working around heavy equipment.

3.10 PERSONAL HYGENE

Good personal hygiene practices are essential to maintaining worker's states of health during response operations. Working with oils and oily wastes is dirty work. The nature of the work should not be allowed to lead workers to forsake basic personal hygiene considerations.

The following guidelines are recommended for all members of the response team:

- Shower and shampoo daily before reporting to work.
- While showering, check for unusual rashes, cuts, infections, etc.
- On sunny days, apply protective sunscreen to exposed skin.
- Use a barrier cream on hands before putting on protective gloves.
- If skin becomes contaminated with a hazardous chemical, report to a decontamination area and wash the affected area thoroughly with soap and water.
- If eyes become contaminated, report to a decontamination area and rinse the eyes for at least 15 minutes with clear water.
- If injured or ill at the work site, report to one's supervisor without delay.
- Do not touch food or drink with contaminated gloves or hands.
- Do not track oil into "clean" areas.
- Do not litter while on the work site.
- Ensure all toilet facilities are clean and sanitized to maintain healthy living conditions. Report any unhealthy conditions to your supervisor.
- Keep change rooms clean and orderly.
- Dispose of garbage and refuse in a sanitary manner.
- Water coolers or cans should be properly covered, labeled, and equipped with a spigot or valve.

3.11 DECONTAMINATION

One or more decontamination areas would be set up during response operations. These areas are to be used for decontamination at the work site, they are not to be used as a substitute for personal hygiene at home.

Decon areas are designed to protect the worker's health and to prevent the spread of contamination into "clean" areas. In the field it is not possible for a worker to remove all contaminated clothes each time they take a break from work. It is essential that a worker cleans their hands and face to avoid injecting or spreading oil or other chemicals to otherwise protected parts of their body.

In the field, the workers will be provided with:

- Soap, water, paper towels, waterless hand cleaner, and/or other materials for washing their face and hands
- An impermeable surface to sit on
- Refuse containers
- Eyewash station

3.12 SANITATION

Proper sanitation facilities must be provided at the clean up site. Lack of proper sanitation can result in outbreaks of dysentery, food poisoning, or other debilitating diseases.

Adequate facilities need to be provided for:

- Potable water
- Non-potable water (clearly labeled)
- Toilet facilities
- Food handling
- Temporary buildings
- Washing facilities
- Shower and change rooms

3.13 ILLUMINATION AND VISIBILITY

Poor visibility can lead to accidents. Clean up workers performing night operations should have personal flashlights. All work areas performing night operations need to be well lit.

3.14 CONFINED SPACES

Any area, which may contain or have the ability to contain toxic/flammable atmospheres, or oxygen deficient or excess, shall be considered to be a confined space. Although not anticipated, if entry to confined spaces needs to be performed, a safe work permit must be issued. The Safety Officer shall issue the safe work permit.

The following are hazards and procedures, which need to be addressed on the permit:

- Atmospheric Monitoring – (Toxic, Flammable, Oxygen Deficient or Excessive.)
- Energy Isolation – LO/TO
- Mechanical Hazards
- Electrical Hazards

Procedures needed, if confined space entry work is required, include, but are not limited to:

- Training
- Qualified Standby
- Emergency Notification
- PPE requirements
- Rescue

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form : Liquid mixture
Name : Bakken Crude
Synonyms : Crude Oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Raw product used in petroleum hydrocarbon and petrochemical refining.

1.2.2. Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Musket Corporation
1111 Bagby St.
Houston, TX 77002
Tel: (713) 332-5726

1.4. Emergency telephone number

Emergency number : CHEMTREC's 24-hr Number: 1-800-424-9300 USA shipments
CANUTEC's 24-hr Number: 1-613-996-6666 CAN shipments

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. WHMIS Classification

B-2 Flammable liquid
D-1A Material causing immediate and serious toxic effects (Very toxic)
D-2B Material causing other toxic effects (Toxic)

2.1.2. Classification according to 2012 29 CFR § 1910.1200 [OSHA GHS]

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Flammable Liquids - Category 2
Aspiration Toxicity - Category 1
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B

Reproductive toxicity - Category 2
Eye Damage/Irritation - Category 2A
Skin Corrosion/Irritation - Category 2

2.1.3. Adverse physicochemical, human health and environmental effects

May contain or release toxic hydrogen sulfide vapor, which may accumulate in confined spaces. Inhaled hydrogen sulfide may cause central nervous system depression resulting in headache, dizziness, nausea, unconsciousness, and death. Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

2.2.1. Labeling according to WHMIS

:

2.2.2. Labelling according to 2012 29 CFR § 1910.1200 [OSHA GHS]

Hazard pictograms (OSHA) :

Signal word (OSHA) : Danger

Hazard statements (OSHA) : Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging fertility or the unborn child.
May cause genetic defects.
May cause cancer.

Precautionary statements (OSHA) : Keep away from heat, sparks, open flames, hot surfaces – No smoking.
Keep container tightly closed.
Use only outdoors or in a well-ventilated area.
Ground container and receiving equipment and use non-sparking, explosion-proof equipment and tools.
Take precautionary measures against static discharge.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear respiratory protection, protective gloves, protective clothing, eye protection, and face protection.
Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
If exposed or concerned: Get medical attention.
Do not breathe vapors or mist.
If swallowed: Immediately call a poison center or doctor.
Do NOT induce vomiting.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center or doctor.
If on skin (or hair): Take off immediately all contaminated clothing.
Rinse skin with water.
If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

If irritation persists: Get medical attention.
In case of fire: Use dry chemical, carbon dioxide, foam, or water fog to extinguish.
Store in a cool, well-ventilated place.
Store locked up.
Dispose of contents and container in accordance with local, regional, national, and international regulations.

2.3. Other hazards

Spills of this product present a serious slipping hazard.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.

3.2. Mixtures

Name	Product identifier (CASRN)	Concentration
Crude Oil[a]	8002-05-9	~100%
Benzene[b]	71-43-2	0.1-1.0%
Cyclohexane[b]	110-82-7	0.1-1.0%
Ethylbenzene[b]	100-41-4	0.1-1.0%
n-Hexane[b]	110-54-3	1.0-5.0%
Hydrogen sulfide[b]	7783-06-4	<0.0005%[c]
Toluene[b]	108-88-3	0.1-1.0%

[a] Crude oil may contain variable levels of impurities, such as paraffinic and aromatic hydrocarbons and small amounts of nitrogen and sulfur compounds.
[b] These ingredients are impurities of a complex mixture.
[c] Concentration is present in %v/v.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If breathing difficulties develop or if victim is not breathing, oxygen should be administered by qualified personnel. Get medical attention immediately.

First-aid measures after skin contact : Remove contaminated clothing/shoes, wipe excess from skin. Wash contaminated area thoroughly with soap and water or waterless hand cleanser. Do not use gasoline or solvent (naphtha, kerosene, *etc.*) for washing this product from exposed skin areas. If irritation or redness develops and persists, get medical attention. Disregard contaminated leather goods.

First-aid measures after eye contact : In case of contact with eyes, remove contact lenses if present and easy to do. Immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 20 minutes. Get medical attention immediately.

First-aid measures after ingestion : Do NOT induce vomiting. Do not give anything by mouth. Wash out mouth with water. Get medical attention immediately. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May contain or release toxic hydrogen sulfide vapor, which may accumulate in confined spaces. May cause irritations to the nose, throat, lungs, and respiratory tract. Inhaled hydrogen sulfide may cause central nervous system depression resulting in headache, dizziness, nausea, unconsciousness, and death.

Symptoms/injuries after skin contact : May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly. Irritation from exposure may aggravate existing open wounds, skin disorders, and dermatitis (skin rash).

Symptoms/injuries after eye contact : Contact with eyes may cause moderate to severe irritation. May cause eye tearing, redness, and discomfort.

Symptoms/injuries after ingestion : May cause aspiration and result in chemical pneumonia, severe lung damage, respiratory failure, or even death. May cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If large quantities have been ingested or inhaled, contact poison treatment specialist immediately. For inhalation of hydrogen sulfide, consider oxygen therapy.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: : Foam, water fog, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media : Do not use water jet, as this could spread the fire; however, water may be used to cool fire-exposed containers.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flash point and explosive limits are highly dependent on the crude oil source. Unless otherwise indicated, treat as a FLAMMABLE LIQUID (refer to Section 9 for flash point, flammable/explosive limits). The vapor is heavier than air and may travel long distances to an ignition source and flash back. Vapor can accumulate in low areas. Runoff to sewer may cause fire or explosion hazard.

Reactivity : This material can be ignited by heat, sparks, flames, or other sources of ignition. If container is not properly cooled, it can rupture in the heat of a fire. When heated, hydrogen sulfide and toxic sulfur oxides may be given off. Refer to Section 10 for combustion products.

5.3. Advice for firefighters

Protective equipment for firefighters : Wear full protective clothing and NIOSH/MSHA-approved pressure-demand self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate the area and eliminate all ignition sources. Stay upwind and away from spill/release. Avoid direct contact with material. Carefully contain and stop the source of the spill, if safe to do so. Wear appropriate personal protective equipment (Refer to Section 8).

6.1.2. For emergency responders

Protective equipment : Wear appropriate personal protective equipment (Refer to Section 8).

Emergency procedures : Inform relevant authorities in accordance with all applicable regulations. Response and clean-up crews must be properly trained and must utilize appropriate personal protective equipment (Refer to Section 8).

6.2. Environmental precautions

Avoid entry of spilt material and runoff into sewer or drainage systems, unless system is designed and permitted to handle such material. Do not discharge solid water stream patterns into the liquid resulting in splashing.

6.3. Methods and material for containment and cleaning up

Containment : Use foam on spills to minimize vapors. Protect bodies of water by diking, absorbents, or absorbent boom, if possible.

Cleaning up : Take up with sand or other inert and oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

6.4. Reference to other sections

Refer to Section 8 for personal protection equipment. Refer to Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Avoid exposure – obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes or clothing. Avoid breathing vapors or mists. Wear appropriate personal protective equipment (Refer to Section 8). Handle as FLAMMABLE LIQUID. Keep container tightly closed. The vapor is heavier than air and may create an explosive mixture of vapor and air. Hydrogen sulfide may accumulate in enclosed spaces. Avoid confined spaces and areas with poor ventilation. Keep away from heat, sparks, and open flame. No smoking. Electrical equipment should be approved for classified area. Use non-sparking, explosion-proof equipment and tools. Take precautionary measures against static discharge. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Workers should wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and wash it before reuse. Keep contaminated clothing away from sources of ignition. Dispose of leather articles including shoes which cannot be decontaminated.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: : This material may contain or release dangerous levels of hydrogen sulfide. In a tank, barge, or other closed container, the vapor space above this material may accumulate hazardous concentrations of hydrogen sulfide. Check atmosphere for oxygen content, hydrogen sulfide and flammability prior to entry.

Storage condition(s) : Keep in a cool, well-ventilated place. Keep container tightly closed. Store locked up. Keep containers closed and clearly labeled. Containers that have been opened must be resealed and kept upright to prevent leakage. Keep away from heat, sparks, and open flame. Keep away from food and drink. Store away from incompatible materials. Hydrogen sulfide can react with iron in crude oil storage tanks or handling equipment to form iron sulfide. Dry iron sulfide can burn on exposure to air (pyrophoric).

Incompatible materials : Strong acids, strong oxidizing agents.

7.3. Specific end use(s)

Raw product used in petroleum hydrocarbon and petrochemical refining.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	Product identifier (CASRN)	Exposure Limits
Crude Oil	8002-05-9	ACGIH: Not established NIOSH: 1800 mg/m^3 (CEIL), 15 minutes; 350 mg/m^3 (TWA) OSHA: Not established
Benzene	71-43-2	ACGIH: 0.5 ppm (TWA); 2.5 ppm (STEL) NIOSH: 0.1 ppm (TWA); 1 ppm (STEL) OSHA: 10 ppm (TWA); 25 ppm (CEIL); 50 ppm (STEL), 10 minutes
Cyclohexane	110-82-7	ACGIH: 100 ppm (TWA) NIOSH: 300 ppm (TWA) OSHA: 300 ppm (TWA); 1050 mg/m^3 (TWA)
Ethylbenzene	100-41-4	ACGIH: 20 ppm (TWA) NIOSH: 100 ppm, 435 mg/m^3 (TWA); 125 ppm, 545 mg/m^3 (ST) OSHA: 100 ppm, 435 mg/m^3 (TWA)
n-Hexane	110-54-3	ACGIH: 50 ppm (TWA) NIOSH: 50 ppm (TWA); 180 mg/m^3 (TWA) OSHA: 500 ppm (TWA); 1800 mg/m^3 (TWA)

Name	Product identifier (CASRN)	Exposure Limits
Hydrogen sulfide	7783-06-4	ACGIH: 1 ppm (TWA); 5 ppm (STEL) NIOSH: 10 ppm (CEIL), 10 minutes OSHA: 20 ppm (CEIL); 50 ppm (STEL), 10 minutes
Toluene	108-88-3	ACGIH: 20 ppm (TWA) NIOSH: 100 ppm, 375 mg/m^3 (TWA); 150 ppm, 560 mg/m^3 (ST) OSHA: 200 ppm (TWA); 300 ppm (CEIL), 500 ppm (10 minute maximum peak)

8.2. Exposure controls

Appropriate engineering controls : Use adequate ventilation to keep vapor concentration of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal protective equipment : Gloves, goggles, protective clothing, respirator

Hand protection : Chemical resistant, impervious gloves.

Eye protection : Safety glasses or goggles.

Skin and Body protection : Chemical resistant clothing.

Respiratory protection : A NIOSH certified air-purifying respiratory with an organic vapor cartridge may be used under conditions where hydrogen sulfide is not detected and airborne concentrations of hydrocarbons are expected to exceed exposure limits. Where there is potential for airborne exposure to hydrogen sulfide above exposure limits, a NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used. If benzene concentrations equal or exceed applicable exposure limits, OSHA requirements for personal protective equipment, exposure monitoring and training may apply.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirments of environmental protection regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Light to dark brown

Odor : "Rotten egg" if hydrogen sulfide is present.

Odor threshold : No information available

pH : No information available

Melting point : Pour Point of <-54°C (<-65.2°F)

Boiling point : Initial Boiling Point of 33.7°C (92.66°F)

Flash point : < 21°C (<69.8°F) (Closed cup)

Evaporation rate : No information available

Flammability (solid, gas) : No information available

Explosive limits : No information available

Vapor pressure : 15.2 psi at 37.8°C (100°F)

Relative vapor density at 20°C : No information available

Relative density : 0.8079 g/mL at 15.56°C (60°F)
Average API Gravity of 43.5 °API at 15.56°C (60°F)

Solubility	: Insoluble in water
Log Pow	: No information available
Log Kow	: No information available
Self ignition temperature	: No information available
Decomposition temperature	: No information available
Viscosity, kinematic	: 3.337 cSt at 15.56°C (60°F)
Viscosity, dynamic	: 2.696 kg/m*s at 15.56°C (60°F)
Explosive properties	: No information available
Oxidizing properties	: No information available

9.2. Other information

Upper flammable Limit	: Variable depending on crude sources ~15%
Lower Flammable Limit	: Variable depending on crude sources ~0.5%
Sensitivity to mechanical impact	: No information available
Sensitivity to static discharge	: Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This product is stable under the normal conditions of use.

10.2. Chemical stability

This product is stable under the normal conditions of use.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization is not known to occur.

10.4. Conditions to avoid

Avoid high temperatures and all sources of ignition. Prevent vapor accumulation.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, metals, metal oxides, interhalogens, metal salts.

10.6. Hazardous decomposition products

May generate carbon oxides, nitrogen oxides, sulfur oxides, sulfur compounds (H_2S), smoke and irritating vapors when heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Product Data:

Routes of entry : Oral, inhalation, skin and eye contact.
Acute toxicity : No product data available.

11.1.2. Ingredient Data:

Name	Product identifier (CASRN)	Route & Species	Acute Toxicity Value (LD_{50}/LC_{50})
Crude Oil	8002-05-9	Oral, rat	>4,300 mg/kg
		Dermal, rabbit	>2,000 mg/kg
Benzene	71-43-2	Oral, rat	930 mg/kg
		Dermal, rabbit	>8,240 mg/kg
		Inhalation, rat (vapor)	13,700 ppm (4h)
Cyclohexane	110-82-7	Oral, rat	6,200 mg/kg
		Dermal, rabbit	>2,000 mg/kg
		Inhalation, rat	>9,500 ppm (4h)
Ethylbenzene	100-41-4	Oral, rat	3,500 mg/kg
		Dermal, rabbit	15,380 mg/kg
		Inhalation, rat	~4,000 ppm (4h)
n-Hexane	110-54-3	Oral, rat	15,820 mg/kg
		Dermal, rabbit	>3,295 mg/kg
		Inhalation, rat	38,500 ppm (4h)
Hydrogen sulfide	7783-06-4	Inhalation, rat (gas)	444 ppm (4h)
Toluene	108-88-3	Oral, rat	3,000 mg/kg
		Dermal, rabbit	12,125 mg/kg
		Inhalation, rat	7,585 ppm (4h)

Skin corrosion/irritation : May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly. Irritation from exposure may aggravate existing open wounds, skin disorders, and dermatitis (skin rash).

Serious eye damage/irritation : Contact with eyes may cause moderate to severe irritation. Exposed victims may experience eye tearing, redness, and discomfort.

Respiratory or skin sensitization : Contact with this product is not expected to cause sensitization, based upon the available data and the known hazards of the components.

Mutagenicity : Some crude oils and crude oil fractions have been positive in mutagenicity studies. This product may contain benzene as a part of complex mixture at ≥0.1% that has been shown to cause mutagenicity in laboratory tests. Therefore, this product is considered to be mutagenic.

Carcinogenicity	: Crude oil was assessed by IARC and results were inconclusive (Group 3: not classifiable as to its carcinogenicity to humans). Crude oil is not listed as a carcinogen by the NTP or OSHA. This product may contain benzene as a part of complex mixture at ≥0.1% that has been shown to cause carcinogenicity in laboratory tests. Therefore, this product is considered to be carcinogenic.
Reproductive toxicity	: This product is known to contain n-hexane as a part of complex mixture at ≥0.1% that has been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity	: Dermal exposure to crude oil during pregnancy resulted in limited evidence of developmental toxicity in laboratory animals. Decreased fetal weight and increased resorptions were noted at maternally toxic doses. No significant effects on pup growth or other developmental landmarks were observed. This product may contain toluene as a part of complex mixture at ≥0.1% that has been shown to cause teratogenicity in laboratory tests. Therefore, this product is considered to be teratogenic.
Specific target organ toxicity (single exposure)	: At high concentrations (500-1,000 ppm), hydrogen sulfide acts as a systemic poison, causing unconsciousness and death. In lower concentrations (50-500 ppm), hydrogen sulfide acts as a respiratory irritant, and may cause fluid in the lungs or bronchial pneumonia.
Specific target organ toxicity (repeated exposure)	: May cause skin irritation with prolonged or repeated contact. Chronic exposure to hydrogen sulfide of 50 ppm or greater may induce bronchitis and inflammation of the mucous membrane of the respiratory system. At 250 ppm, hydrogen sulfide may cause bronchial pneumonia and pulmonary edema.
Aspiration hazard	: May cause aspiration and result in chemical pneumonia, severe lung damage, respiratory failure, or even death. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.
Potential adverse human health effects and symptoms	: Victims of overexposure may experience4 irritation of the digestive track and respiratory tract, nausea, vomiting, diarrhea, headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue.
Toxicologically synergistic materials	: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Coating action of the oil can kill birds, plankton, algae and fish. Keep out of all bodies of water and sewage drainage systems.

12.2. Persistence and degradability

Most crude oils are not regarded as readily biodegradable; however, they will slowly biodegrade.

12.3. Bioaccumulative potential

Hydrocarbon components of crude oil have the potential to bioaccumulate.

12.4. Mobility in soil

No information available.

12.5. Other adverse effects

None anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations : Comply with relevant regulations with regards to disposal, recycling, treatment, transportation and storage of contents and containers.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number:

1267

14.2. UN proper shipping name

PETROLEUM CRUDE OIL

14.3. Transport hazard class(es)

Hazard Class 3

14.4. Packing group

Packing group I

14.5. Special precautions

No information available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

Canada : This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

US : This product has been classified in accordance with the 2012 hazard criteria of the OSHA's HCS and the SDS contains all the information required by the 29 CFR § 1910.1200.

All compounds in this product are listed in the Canada Domestic Substances List (DSL) and the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory (1985).

SECTION 16: OTHER INFORMATION

Name and phone number of the group, department or party responsible for the preparation of the SDS	: Andy Lash, Compliance and Equipment Manager, Musket Corporation Phone: (713) 332-4831
Sources of key data	: Report of Analysis
Abbreviations and acronyms	: ACGIH – American Conference of Governmental Industrial Hygienists bw body weight CAN – Canada CAS – Chemical Abstracts Service CFR – Code of Federal Regulations DSL – Domestic Substances List EPA – Environmental Protection Agency GHS – Globally Harmonized System HCS – Hazard Communication Standard IARC – International Agency for Research on Cancer LC_{50} – Acute lethal concentration causing 50% lethality in animals LD_{50} – Acute lethal dose causing 50% lethality in animals MSDS – Material Safety Data Sheet NIOSH – National Institute of Occupational Safety and Health NTP – National Toxicology Program OSHA – Occupational Safety and Health Administration ppm – parts per million RCRA – The Resource Conservation and Recovery Act SCBA – Self Contained Breathing Apparatus SDS – Safety Data Sheet STEL – Short-Term Exposure Limit (generally 15 minutes) TSCA – Toxic Substances Control Act TWA – Time-Weighted Average US(A)– United States (of America) WHMIS - Workplace Hazardous Materials Information System

Disclaimer: The information given is based on data currently available to us and is believed to be correct. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury or damage from the use of the products described herein.

1. Incident Name Vancouver Energy – Bakken Ex.	2. Operational Period (Date/Time) From: To:	**RESOURCES AT RISK SUMMARY** **ICS 232-CG**

3. Environmentally-Sensitive Areas and Wildlife Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
		Ridgefield National Wildlife Refuge (~ RM 87-92):	Riparian habitat. Salmonid spawning stream and juvenile salmonid rearing habitat in off-river channels. Concentration area for migrating and wintering waterfowl, shorebirds and Sandhill cranes [SE(W)]. Resident nesting waterfowl, Bald eagles [SS (WA)] and Great Blue herons. Audubon Important Bird Area.
		Frenchman's Bar/Shillapoo Wildlife Area (~RM 96-99):	Riparian habitat, pasture and agland that supports wintering and migrating concentrations of waterfowl, shorebirds and Sandhill cranes [SE (WA)]. Juvenile salmonid rearing habitat in off-river channels
		Sauvie Island Wildlife Area and Multnomah Channel (~RM 85-100):	Riparian habitat. Juvenile salmonid rearing habitat in off-river channels. Concentration area for migrating and wintering waterfowl, shorebirds and Sandhill cranes [SE]. Resident nesting waterfowl, Bald eagles [SS (WA)] and Great Blue herons. Oregon Dept. Fish and Wildlife lands. Audubon Important Bird Area.
		Martin/Burke Islands and Vicinity (~RM 79-81):	Riparian habitat. Juvenile salmonid rearing habitat in off-river channels. Concentration area for breeding, migrating and wintering waterfowl. Area supports cavity nesting ducks.
		Cowlitz River Mouth/Carrolls Channel/Kalama River mouth (~ RM 69-73):	Salmonid spawning rivers. Concentrations of waterfowl, seabirds, harbor seals and California sea lions coincide with winter run of Pacific eulachon smelt [FT/SC (WA)].
		Columbia River and Corridor	In addition to the sensitive areas identified above the Columbia River provides essential fish habitat for various listed salmonids and other aquatic species.

Narrative

4. Archaeo-cultural and Socio-economic Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
		See GRPs	Water Intakes (Flushing channel)
		Not listed in GRPs	Water intakes (NWR, Pacific Bio, Paper plants)
			Marinas – vessel traffic

Narrative

5. Prepared by: (Environmental Unit Leader) **Date/Time**

1. Incident Name Vancouver Energy -Bakken Exercise	2. Operational Period (Date/Time) From: 3 Oct 2016 To: 4 Oct 2016	ACP Site Index ICS 232a-CG

3. Index to ACP/GRP sites shown on Situation Map (Table 4-12 and -11, NWACP GRP Lower Columbia, 2015)

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR100.8R	N	**Vancouver Lake Flush Channel – Div B**	Call Port of Vancouver 360-693-3611 to notify them of a spill that could impact the pumping station and Flushing Channel. Port personnel will shut down pumps	**1 hr**
LCR-83.8L-N	N	**City St Helens drinking Wells**	Call City of St. Helens at 503-397-3532. Alert them that they need to monitor and potentially shut off two community wells located along riverbank.	**1 hr**
RM 87-92	N	**Ridgefield NWR**	Call 360-887-4160 - Water intakes (3) (in ERMA)	**2 hr**
R M 8 6 R	N	**Cascade Tissue Group (St. Helens)**	Call 503-397-2900 - Alert them that they may need to monitor and potentially shut off process water intake	**2 hr**
LCR-73.1L-N	N	**PGE Trojan Park**	Call Portland General Electric (PGE) at 503-556-7089. Alert them that they need to monitor and potentially shut off intake at large industrial system located at riverbank. This system also provides drinking water to facility.	**1 hr**
LCR-71.5L-N	N	**City of Prescott**	Call City of Prescott at 503-397-1744. Alert them that they need to monitor and potentially shut off large municipal well located less than 1000 feet from river bank and adjacent to rail line. This well is shown as being groundwater withdrawal & drinking	**1 hr**
LCR-67.8L-N	N	**City of Rainier**	Call City of Rainier at 503-410-2180. Alert them that they may need to monitor and potentially shut off intake.	**1 hr**
R M 6 7 R	N	**Capstone Paper Mill – Longview**	Call 360-425-1550 - Alert them that they may need to monitor and potentially shut off process water intake	**2 hr**
LCR-55.1L-N	N	**PGE Beaver Generating Facility**	Call Portland General Electric (PGE) at 503-728-7211. Alert them that they may need to monitor and potentially shut off intake (industrial and drinking water)	**2 hr**
LCR-53.8L	N	**Pacific Biofuels (listed in GRPs as St. Helens)**	Call 360-703-1385 or 503-369-5959 - Alert them that they may need to monitor and potentially shut off industrial and fire suppression intake (at depth).	**2 hr**

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-CG
Vancouver Energy -Bakken Exercise	From: 3 Oct 2016 To: 4 Oct 2016	

3. Index to ACP/GRP sites shown on Situation Map (Table 4-12 and -11, NWACP GRP Lower Columbia, 2015)

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR100.8R	1	Vancouver Lake Flush Channel – Div B	1000 ft: 600 for collection, 400ft for exclusion; TF-21	D1 1000
WR-0.9R	2	Columbia Slough (OR) – Div ZZ	700 ft – Exclusion; TF-21	D1 1030
LCR99.9R	3	Frenchmans Bar – Div B	500 ft – collection; TF-21	D1 1130
LCR-98.6R	4	Caterpillar Is S – Div B	600 ft - exclusion; TF-21	D1 1230
LCR-97.5R	5	Caterpillar Is N – Div C	400 ft - exclusion; TF-23	D1 1100
LCR-97.0R	6	NW Lower River Rd – Div C	500 ft – collection; TF-23	D1 1200
LCR-98.4L	7	Dairy Creek (OR) – Div WW	300 ft - exclusion; TF-20	D1 1130
LCR-95.0R	8	Ridgefield Levee Breach 2 – Div C	500 ft - exclusion; TF-23	D1 1400
LCR-94.5L	9	Willow Bar Is (OR) – Div WW	600ft – exclusion – TF-24	D1 1400
LCR-94.8R	10	Ridgefield Levee Breach 1 – Div C	300ft - exclusion; TF-24	D1 1230
LCR-94.3R	11	Post Office Lake (WA) – Div D	200 ft – exclusion ; TF-21	D1 1500
LCR-92.3R		Campbell Lake – Div D	300ft - exclusion; TF-24	D2 0735
LCR-91.0R		Ridgefield – Bachelor Is Div D	700 ft – exclusion; TF-21	D2 0830
LCR87.6R		Ridgefield – Bachelor Is Div E	700 ft – deflection; TF-25	D2 0830
LCR-87.3R		Gee Creek Div E	600 ft – exclusion; TF-25	D2 0945
LCR87.5R		Ridgefield – Bachelor Is Div F	700 ft – deflection; TF-23	D2 0845
LCR-86.2R		Woodland – Austin Pt Div F	800 ft- collection; TF-23	D2 1000

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-OS
Vancouver Energy -Bakken Exercise	From: 3 Oct 2016 To: 4 Oct 2016	

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-85.6M		Goerig Slough Div F	1000 ft – exclusion; TF-24	D2 0830
LCR-85.8M		Goerig Slough Div F	800 ft - exclusion; TF-24	D2 0945
LEVR-0.35		Lewis River Div F	600 ft - collection; TF-27	D2 0830
LCR-82.4L		Deer Island Slough (OR) Div TT	400 ft - exclusion; TF-26	D2 0815
LCR-81.8L		Goat Island – South end (OR) Div TT	900 ft - exclusion; TF-21	D2 0830
LCR-81.2R		Burke Island – South end Div G	400 ft - exclusion; TF-21	D2 1000
LCR-81.0M		Martin Is. – South end Div G	800 ft - exclusion; TF-25	D2 1030
LCR-79.8L		Goat Island - N end (OR) Div TT	700 ft - exclusion; TF-25	D2 1145

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-OS
Vancouver Energy -Bakken Exercise	From: 3 Oct 2016 To: 4 Oct 2016	

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR—79.5R		**Martin Island - N end (WA)** **Div G**	**800 ft – exclusion; TF-29**	**D2 0900**
LCR-78.9R		**Mill Creek Outfall** **Div G**	**200 ft boom + 200 ft sorbent - collection; TF-29**	**D2 1000**
LCR-76.0L		**Tide Creek (OR)** **Div SS**	**1000 ft - exclusion; TF-29**	**D2 1100**
LCR-73.7L		**Goble Creek (OR)** **Div SS**	**100 ft - exclusion; TF-20**	**D2 0745**
LCR-71.6R		**Carrolls Channel - S end (WA)** **Div I**	**800 ft – deflection and collection; TF-20**	**D2 0830**
LCR-71.5R		**Carrolls Channel - S End (WA)** **Div I**	**1400 ft – collection; ; TF-22**	**D2 1000**
LCR-71.4R		**Carrolls Channel - S End (WA)** **Div I**	**1000 ft – exclusion; ; TF-20**	**D2 1000**
LCR-70.0R		**Cottonwood Island - E side slough (WA)** **Div I**	**600 ft - exclusion; TF-22**	**D2 0830**
LCR-66.2R		**Port of Longview (WA)** **Div J**	**800 ft - collection; TF-20**	**D2 1100**

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index	ICS 232a-CG (Rev.07/04)	
1. Incident Name **Vancouver Energy -Bakken Exercise**	**2. Operational Period (Date/Time)** From: 3 Oct 2016 To: 4 Oct 2016	**ACP Site Index ICS 232a-OS**

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-65.9R		**Port of Longview (WA)** **Div J**	**700 ft – collection; TF-20**	**D2 1130**
		Port of Longview – slough and water intake **Div J**	**300ft – exclusion** **(slough on north side of Cowlitz River); TF-22**	**D2 0830**
LCR- 64.4L		**Slaughters Dike (OR)** **Div QQ**	**600 ft - collection; TF-22**	**D2 1100**
LCR-64.0M		**Lord Island - E end (OR)** **Div SS**	**1600 ft - collection & exclusion; TF-22**	**D2 1000**
LCR-60.2R		**Fisher Island -E end (WA)** **Div K**	**700 ft - exclusion; TF-30**	**D2 0830**
LCR-59.8L		**Walker Island (OR)** **Div PP**	**600 ft - collection; TF-31**	**D2 0900**
LCR-58.95M		**Fisher Island - West End (WA)** **Div K**	**500 ft -deflection; TF-30**	**D2 1000**
LCR-58.9M		**Fisher Island - W end (WA)** **Div K**	**600 ft - exclusion; TF-30**	**D2 1100**
LCR-58.8R		**Fisher Island Slough - W end (WA)** **Div K**	**1000 ft - collection; TF-31**	**D2 0900**
LCR-58.7M		**Fisher Island/ Hump Island (WA)** **Div HI**	**800 ft - exclusion; TF-32**	**D2 0930**
LCR-55.9R		**Coal Creek Slough (WA)** **Div K**	**500 ft - exclusion; TF-33**	**D2 0930**
LCR-55.7R		**Germany Creek (WA)** **Div L**	**100 ft - exclusion; TF-33**	**D2 1030**
LCR-55.6M		**Crims Island Channel (OR)** **Div CRI**	**300 ft - exclusion; TF-21**	**D2 1200**

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4. Prepared by: **Date/Time**

ACP Site Index	ICS 232a-CG (Rev.07/04)	
1. Incident Name **Vancouver Energy -Bakken Exercise**	**2. Operational Period (Date/Time)** From: 3 Oct 2016 To: 4 Oct 2016	**ACP Site Index ICS 232a-OS**

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-55.5M		Gull/Crims Islands - East opening (OR) – Div CRI	400 ft – exclusion; TF-22	D2 1300
LCR-55.4L		John Slough (OR) – Div QQ	200 ft - exclusion; TF-22	D2 1200
LCR-55.3M		Gull Island- North Side (OR) Div CRI	800 ft -exclusion; TF-32	D2 1130
LCR-55.1M		Crims Island- South Side (OR) Div CRI	700 ft - exclusion; TF-32	D2 1300
LCR-54.4M		Gull/ Crims Islands - W opening (OR) – Div CRI	500 ft - exclusion; TF-33	D2 1200
LCR-54.2R		Abernathy Creek (WA) Div L	300 ft - exclusion; TF-33	D2 1300
LCR-53.8R		Mill Creek (WA) Div L	1000 ft - collection; TF-34	D2 1430
LCR-50.5L		Upstream Wallace Island (OR) Div WI	1800 ft - exclusion; TF-21	D2 1300
LCR-49.8L		Clatskanie River - W side (OR) Div OO	600 ft – collection; TF-29 **Contact property owner first** also referred to as Beaver Slough	D2 1300
LCR-49.7L		Clatskanie River - E side (OR) Div OO	600 ft - exclusion; TF-29	D2 1430
LCR-49.1M		Wallace Island Slough - North center (OR) – Div WI	400 ft - exclusion; TF-29	D2 1530
LCR-48.8M		Wallace Island Slough - South center (OR) – Div WI	500 ft - exclusion; TF-22	D2 1530
LCR-48.6M		Wallace Island Slough - SW end (OR) – Div WI	500 ft - exclusion; TF-22	D2 1630
LCR-48.1		Wallace Island Slough - NW end (OR) – Div WI	600 ft - exclusion; TF-31	D2 1600

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

Protection TF.20

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: BOELTOR at

Period: 04 OCT 1608 30 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24757	MSRC	JB	#3	1		LONGVIEW	
2994	MSRC	JB	#5	1		" "	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR 66.2 800' 1030

65.9 700' 1130

Protection TF-20

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakken

Prepared By: BOGLER at

Period: 04 OCT 16 0830 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29035	CRC	OSRV	CRC-1	1	TF-20	WARREN PDX	Deployed
29149	CRC	Boom	20' Boom	1000	"	1000'	W.R. 0.9
29034	MFSA CRC	OSRV	MFSA-1	1000	TF-22	Bloomers PDX	Deployed
29145	CRC	~~OSRV~~ Boom	20"	1000	" "	1000' Source	1000' Source
29031	CRC	FRV	Protector	1000	TF-21	PDX	Deployed 100.8
29144	CRC	Boom	20"	1000		100.8	1000'

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

CRC-1
TF-20 Complete GRP's W.R. 0.9 - 1000' — Then start to Recovery

MFSA-1
TF-22 Complete GRP's @ Source - 1000 Double-up / Then start to Recover.

Protection TF-20

ICS 210 - Change Status

10/4/16

Incident: Vancouver energy spill drill #1 Bakken

Prepared By: BOEHLER at

Period: 04 OCT 16 0830 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24757	MSRC	Skiff	16'			Longview	
	Jon Boat #3						
29954	MSRC	Skiff	16'			Longview	
	JB #5						
Boom	MSRC 3004	Boom	20"			Longview	
	Trailer 40						
Boom	MSRC 2920	Boom	20"			Longview	
	Trailer 41						

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's 73.7 Exclusion 100' Done 0745

Complete GRP's 71.6 Collection / Deflection 800' 0830

Complet GRP's 71.4 Exclusion 1000 0930

TF-21 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Spill drill #1 Bakken

Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRE	FRV	Protector	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete ORP LCR-55.6 300' Exclusion 1200 Computer/Division CRI

Protection TF-21

ICS 210 - Change Status

Incident: Vancouver energy spill drill #1 Bakken	Prepared By: BOELTER at
Period: 04OCT16 0830 05OCT16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRC	FRV	Protector	1		Stebbins	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR 81.8 900' Exclusion 1000

81.2 400' Exclusion 1100

Protection TF-21

ICS 210 - Change Status

Incident: Ramcover energy spill drill #1 Bakken | Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

Complete GRP's

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	~~Current Status~~
29831	CRC	FRV	Protector	11960	TF-21	PDX	100.8
29141	CRC	Boom	20"	10000		" "	
30314	NRCES	FRV	Next Generation		TF-21	PDX	LCR 99.9/
	NRCES	Boom	20"	2000'			98.6

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR.100.8R – 1000' Protector

Complete GRP's LCR.99.9/LCR 98.6R Next Generation
500' 1000'

TF-21 Protection

ICS 210 - Change Status

Incident: Vancouver energy spill drill #1 Bakken	Prepared By: at
Period: 04OCT16 0830 05OCT16 0700	Version Name: BOELTER

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRC	~~Res~~ ERV	Protector	1		Vancouver	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complete GRP's LCR. 92.3 300' Complete 0735

LCR. 91.0 700' Complete 0845

TF-21 Protector

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 BAKKEN	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29 0311	CRC	FRV	Protector	1	34'	RM 81-8	Available

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

TF-21 Complete GRP'' LCR 50.5 1800' Exclusion complete 1300

Petroleum TF-22

ICS 210 - Change Status

Incident: Vancouver Energy Spill drill #1 Bakken	Prepared By: BOELTER at
Period: 04 OCT 15 0830 05 OCT 16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3007	MSRC	SB	#6	1		Longview	
3110	MSRC	Workboat	Willet	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 04.0 1600' Exclusion 1700

TF-22 Protector

ICS 210 - Change Status

10/4/16

Incident: Vancouver energy Spill drill #1 Bakken | Prepared By: BOOLTER at

Period: 040CT16 0930 050CT16 0200 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	SK-FFS	19'	1		Longview	
	JON BOAT #6						
3110	MSRC	SK-FFS	18' WILLET	1		Longview	
	WILLET						

New Status and/or Location

New Status:

New Location: Up River

Date/Time of Change:

Comments

Complete GRP's LCR. 70.0 Exclusion 600' 0900

71.5 1400

Complete GRP's LCR 69.0 Collection / Exclusion 1600 1000

Water Intake 200'

Use boom from Staged Boom & Cap Stone

TF-22

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #1 Bakken	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	JB	#6	1	18'	RM 55.5	Available
3116	MSRC	Wallet	Wallet	1	18'	RM 55.5	Available

New Status and/or Location

New Status: 1/4/15 @ 1300

New Location:

Date/Time of Change:

DRILL

Comments

TF-22 Complete GRP'S LCR. 48-8 500' 1530

48.6 500' 1636

Protection TF-22

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 BAKKEN	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	JD	#6	1		64.4 BR	
3110	MSRC	Staff	Walk	1		64.4 BR	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 55.5 400' 1300

LCR. 55.4 200' 1200

Protection TF-23

ICS 210 - Change Status

Incident: Vancouver energy Spill drill #1 Bakken	Prepared By: BOELTER at
Period: 04OCT16 0830 05OCT16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28575	NRCES	Workboat	Raider	1		St. Helen	
28545	NRCES	Workboat	Monarch	1		St. Helen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP'S LCR. 87.5 700' 0830

LCR 86.2 800'

1006

Protectors TF-23

ICS 210 - Change Status

Incident: Vancouver energy spill drill #1 Bakken	Prepared By: BOELTER at
Period: 040CT16 0830 050CT16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28575	NRCES	Workboat	Raider	1		PDX	
28545	NRCES	Workboat	Monarch	1		PDX	
	CRC	Boom Trailer	53'			Port of Vancouver	
29180	CRC	Boom	2011	5000'			

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Compute GRPS LCR. 97.5/LCR. 97.0/LCR. 95.0 Div-C
400' 500' 500

Use Boom From Boom Trailer staged @ Port of Vancouver
5000'

Protection: TF-24

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #1 Bakken | Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28591	NRCES	Workboat	Jetcraft	1		5ft Hole	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 85.6. 1000' exclusion 0830

LCR: 85.8 800' exclusion 1000

1850

Protection TF-24

ICS 210 - Change Status

Incident: Vancover Energy Spill drill #1 Bakken | Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28541	NRCES	Workboat	Jet Craft	1		PDX	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complete GRP's LCR. 94.8 / LCR. 94.5. Div C

300' 600'

Use Boom from Boom Trailer staged @ Port of Vancouver

5000'

TF-24 Protections

ICS 210 - Change Status

Incident: Vancower energy spill drill #1 Bakken	Prepared By: BELTER at
Period: 040716 0830 050716 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28591	NRCES	Workboat	Jet craft	1		St. Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 85.6 1000Ft 0830 Exclusn

LCR. 85.8 800' 1000 Exclusion

Protection TF-25

ICS 210 - Change Status

Incident: Vancouver Energy SRM Drill #1 Bakken	Prepared By: BOELTER at
Period: 04OCT16 0830 05OCT16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30319	NRCES	FRV	Near GEN	1		Vancouver	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 87.6 700' 0830

LCR. 87.3 600' 0930

FF-25 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Drill Barn #1 Bakken | Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30314	NRCES	FRV	Next Generation	1		St-Helens	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complet GRP's LCR. 81.0 800Ft Exclusion Exclusion @ 0830 0945

79.8 700F Exclusion 1030 1045

TF-26 Protection

ICS 210 - Change Status

10-4-16

Incident: Vancouver Energy Spill drill #1 Bakken

Prepared By: BOELTER at

Period: 040CT16 0830 050CT16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30500	CRC	Workboat	G-3	1		St Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 86.2 860' Collection 0800

TF-27 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #1 Bakken	Prepared By: Bo ELTER at
Period: 04OCT16 0830 05OCT16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30 499	CRC	IDVR boat	G-3	1		St Helen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's Lev.R. 0.35 600Ft Called

0800

TF-28

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #1 Bakken | Prepared By: Bo ELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29049	CRC	Strikeforce	Fishers	1		St Helens	
29095	CRC	Strikeforce	Fishers	1		St Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 87.3 600' Exclusion 0800

LCR. 87.5 700' Deflection 0900

TF-29 Protection

ICS 210 - Change Status

Incident: VanCouver Energy Spill DRILL #1 Bakken | Prepared By: BOELTER at

Period: 04OCT16 0830 05OCT16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28532	NRCES		Lunch to 2	1		St-Helen	
28533	NRCES		Lunch to 9	1		St Helen	
28534	NREES		Lunch to 5	1		St. Helen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete LCR. 79.5 Exclusion 800 ft 0900

76.0 Exclusion 1000' NLT 1000

TF-29 Protection

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #1 BAKKEN	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28532	NRCES	Workboat	Load # 2	1	20'	RM 76.0	Available
28533	NRCES	Workboat	Load # 4	1	20'	RM 78.0	Available
28534	NRCES	Workboat	Load # 5	1	20'	RM 76.0	Available

New Status and/or Location

New Status: 1/4/15 @ 1100

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 49.8 600' exclusion 1300

49.7 600' " " 1430

49.1 400' " " 1530

TF-30 Protector

ICS 210 - Change Status

Incident: Vancouver Energy Spill DRILL #1 Bakken

Prepared By: BOELTER at

Period: 0400 TH 0830 0500 TH 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29029	CRC	FRV	Columbia Response	1		Longview	
29159	CRC	Boom	20"	2000		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 60.2 700 Exclusi 0830

58.95m 500 1000

58.9 600 Exclus 1100

TF-31 Protection

ICS 210 - Change Status

Incident: Vancover Energy Spill DRILL #1 Bakken	Prepared By: at
Period: 05 OCT 16 0830 to 05 OCT 16 0900	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28487	NRCES	SK-FT	Lund 6430	1		Clat Station	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP. 58.8 1000' 0900

59.8 ~~1000~~ 600 1036

TF-31 Protection

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #	Bakken
Period:	
Prepared By:	at
Version Name:	

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28 4887	NRCES	WORKboat	Lund 1643G	1	20'	RM 58.8	Available

New Status and/or Location

New Status: 11/4/15 @ 0900

New Location:

Date/Time of Change:

DRILL

Comments

TF-31 Complete GRP's LCR. 48.1 1000' exclusion Complete 1000

Protection TF-32 / TF-33

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Bakken	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28488	NRCES	Staff	Lead 6503	1		Clatskanie	
28489	NRCES	Staff	Lead 0214			Longview	
28485	NRCES	Staff	Lead 0206			Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

TF-32 Complete GRPIS Lead 6503 - 58.7 800' 0930

TF-33 Complete GRPIS LCR. 55.9 - 500' 0930

55.7 100' 1030

Protection TF-32 / TF 33

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 Bakken

Prepared By: at

Period:

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28488	NRCES	Skiff	Lund 6503	1	16'	55.7	Available
28489	NRCES	Skiff	Lund 6214	1	18'	55.9	
28485	NRCES	Skiff	Lund 6200	1	18'	55.7	

New Status and/or Location

New Status: 0930

New Location:

Date/Time of Change: 1/4/15

DRILL

Comments

TF-32 - Complete GRP's LCR Complete

55.3 800' 1130

55.1 700' 1300

TF33 Complete GRP's LCR. 54.4 500' 1200

54.2 300' 1300

Protection TF-34

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 Bakken	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
2898	NRCES	SKIFF	Land Cell	1	20'	RM 55.9	Available

New Status and/or Location

New Status: @ 1300

New Location: 1/4/15

Date/Time of Change:

DRILL

Comments

TF 34 Complete GRP's ECR. 53.8 1000' Complete @ 1430

Protection TF-34

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Balsken	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
284886	NRCES	Strike	Land Cell	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 55.6 300' Excl 1030

55.5 400' " " 1130

55.4 200 " " 1306

TF-1

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: CAD at

Period: 04 JAN 03 OCT 16, 0830 - 0700 05 JAN

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7562	MSRC	WB4/SK3/BK/	SBS	1	400 BBL/ 9M	SOURCE	ASSIGNED
29034	CRC	OSRV 3	M&FA-1	1	29 BBL/3588	"	"
29035	CRC	OSRV 3	CLEAN RIVERS-1	1	29 BBL/3588	"	"
29032	"	"	HW ZAELNG	1	" /3720	"	"
29033	"	"	MARK MAFICA	1	" /3720	"	"
29030	"	WB 3	FRU INDEPENDENCE	1		SOURCE CURRENT BUSTR	"
	TESORO VANCOUVER ENERGY	B2 (1)	COLEMAN DUSTER #2	1	#2	"	"
3~~[illegible]~~	" "	SK	13 DISC CRUCIAL	13 DISC	4728 BBL 3,024 3584	"	
30832	MSRC	OSRV 3	MARCO 80-10	1	24/3584	"	

New Status and/or Location

New Status: TASK FORCE #1

New Location: SOURCE DIV A

Date/Time of Change: ~~0830~~ 1930 05 JAN OCT 16

Comments

CREATE TF1, SKIM AT SOURCE IN DIV A AREA

DRILL

TF-2

ICS 210 - Change Status

Incident: VANCOUVER EMERGENCY SPILL DRILL #1 Bakken | Prepared By: CWS | at

Period: ~~0800~~ 09 ~~0800~~ 16 0830 - 0700 PST JAN

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24952	MSRC	OSRV 3	MERLIN	1	28/3588	DIV B	ASSIGNED
3030	MSRC	OSRV 3	PEREGRINE	1	28/3588	"	"
29050	CRC	OSRV 3	SWRB 101		100/3588	"	
29054	CRC	OSRV 3	SWRB 100		100/3588	"	
	HILLSBORO AVIATION	HELO	BELL 206	1	206 B3	"	"

New Status and/or Location

New Status: TF 2

New Location: DIV B AREA

Date/Time of Change: ~~0830~~ ~~09 JAN 16~~
1230 03 OCT 16

Comments

CREATE TF #2, 5KM IN DIV B AREA / LEADING EDGE

DRILL

TF-3

ICS 210 - Change Status

Incident: VANCOUVER TESORO ENVIRON SPILL DRILL #1 | Prepared By: CWS | at

Period: 08 OCT 16 - 0820 - 0700 05 OCT 16 Bakken | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29261	NRCES	OSRU3	MARCO SKIMMER	1	30/3588		
28262	NRCES	OSRU3	" "	1	30/3588		
7554	MSRC	UHO/SK3/WB4 TBH	SBS 19	1	400/1371		
7566	MSRC	" "	SBS 25	1	400/1371		
	TESORO VANCOUVER ENVIRON	B2	CURRENT BUSTER 2	1			
	" "	SK	13 DISC CRUCIAL	1	4728		
V00	MSRC V00	WB	JE McAMIS #1			3 DW CURRENT	
V00	MSRC V00	WB	JB-1			3 BUSTER	

New Status and/or Location

New Status: TASK FORCE # 3

New Location: DW C-D

Date/Time of Change: 1230 030CT16

Comments

CREATE TF # 3 TO SKIM OIL IN AREA OF DW C-D.

DRILL

TF - 4

ICS 210 - Change Status

Incident: VANCOUVER TESORO ENERGY SPILL DRILL #1 | Prepared By: CWS at

Period: 0900 30 OCT 16 0830 - BAKKEN | Version Name:

Incident Resources to Change

	ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28	263	NRCES	OSRV 3	MARCO 1 SEA	1	30/3588		
28	264	NRCES	OSRV 3	MARCO 2 SEA	1	30/3588		
24	669	MSRC	OSRV 3	ANKLET MARCO	1	12/3588		
	7516	MSRC	TB4/SK 3	SOS 123	1	400/805		
	7571	MSRC	WBY	17-3			TOW SOS 123	
31	075	MSRC	B2	CURRENT BUSTER #4		200		
	VOO	MSRC VOO	WB	JE McAMIS #2	1		3 CURRENT	
	VOO	MSRC VOO	WB	MISS MOLLY	1		3 BUSTER TENDER	

New Status and/or Location

New Status: TF - 4

New Location: DIV E - F AREA

Date/Time of Change: 1530 30 OCT 16

Comments

CREATE TF-4, SKIM OIL IN AREA OF DIV D-E-F

DRILL

T-F-5

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1

Prepared By: CWS at

Period: 03 ~~JAN~~ OCT 16 — Bakken

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7518	MSRC	OSRV 1 T	OREGON RESPONDER	1	4000 / 15840		
077	MSRC	BZ	CURRENT BUSTER #4	1	20m		
UOO	MSRC UOO	WB	GEORGE ALLEN	1		3 CURRENT BUSTER	
UOO	MSRC UOO	WB	KEW-N-AL	1		3 #4 TOWOR	
7551	MSRC	SK4/TB4/SRO	SBS/THRUST MASTER	1	400/905		

New Status and/or Location

New Status: TF-5

New Location: DIV F, VV, TT

Date/Time of Change: ~~0830 04 OCT 16~~ 2030 03 OCT 16

Comments

CREATE TF-5, SKIM OIL IN AREA OF DIV F, VV, TT

DRILL

TF-6

ICS 210 - Change Status

Incident: TESORO VANCOUVER ENERGY SPILL DRILL #1

Prepared By: CWS at Bakken

Period: 0700 04 OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7588	MSRC	TB4/WB4/SK3	SBS 21	400 / 1571			
7570	MSRC	" " "	SBS 51	400/905			
29055	CRC	OSRV / TB	SWRB #3	100 / 2473			
29053	CRC	OSRV / TB	SWRB #4	100/ 3588			
29052	CRC	OSRV / TB	SWRB #5	100/ 2473			
29057	CRC	OSRV / TB	SWRB #6	100/ 3586			
29040	CRC	WB4	ELIZIBETH FORSE			PUSH SWRB #3	
3150	MSRC	WB5	SNIPE			PUSH SWRB #4	
3032	MSRC	WB5	JAEGER			PUSH SWRB # 5	
29039	CRC	WB4	20' WORKBOAT			PUSH SWRB #.6	

New Status and/or Location

New Status: TF-6

New Location: DIV GRN AREA

Date/Time of Change: 2000 030CT 16

Comments

CREATE TASK FORCE # 6, SKIM OIL IN AREA OF DIV G & H

DRILL

TF-07

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakker | Prepared By: C. Houck at 1300

Period: 04 OCT 16 0830 05 OCT 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30801	MSRC	CURRENT BUSTER	#4 SYSTEM A	1	#4	ST. HELENS (S)	AVAILABLE
V00	MSRC	V00	SANDWICK	1		VANCOUVER STAGING	" "
V00	MSRC	V00	LADY MARY	1		VANCOUVER STAGING	
V00	MSRC	V00	SNIPE	1		" "	
V00	MSRC	V00	NAUTI-LADY	1		" "	
V00	MSRC	V00	PACIFIC VENTURE	1		" "	
V00	MSRC	V00	FOUR SEASONS	1		" "	
7527	MSRC	OSRV 1	OSRV PARK RESPONDER	1	208'	ST. HELENS	
	HILLSBORO	HELO	6 PASS HELO			VANCOUVER STAG.	

New Status and/or Location

New Status: TF-07

New Location: LEADING EDGE

Date/Time of Change: ~~1930~~ 1430 04 OCT 16

DRILL

Comments

(1400 ETA)

UPON ARRIVAL @ LEADING EDGE. V00 SANDWICK & LADY MARY UTILIZE CB #4 SYSTEM A V00'S LADY MARY AND SNIPE USE 330' BOOM FROM MSRC PARK AND TOW IN "U" CONFIGURATION. DUMP TO PARK WHEN FULL.

V00'S NAUTI-LADY AND PACIFIC VENTURE USE 330' BOOM FROM PARK AND TOW IN "U" CONFIGURATION. - DUMP TO PARK WHEN FULL

PARK RESPONDER DEPLOY 660' BOOM AND UTILIZE TRANSREC TO SUCK OUT POCKET WHEN FULL.

HILLSBORO AVIATION HELO GIVE DIRECTION TO BEST MAXIMIZE RECOVERY

TF - 10

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SKILL DRILL # 1 Bakken

Prepared By: CW at

Period: 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7513	MSRC	TB 2	OSRB 404	1	40,000		
	FOSS	TUG 2	CONNOR FOSS	1		PUSH OSRB 404	
31637	TIDEWATER BL	TB 2	ATLAS	1	23,000		
~~31637~~	TIDEWATER BL	TUG 2	BOB CARLSON	1		PUSH ATLAS OSRB	
30972	TIDEWATER BL	TB 2	BARGE #2	1	18,000		
	TIDEWATER BL	TUG 2	GLENDALE			PUSH BARGE 2	

New Status and/or Location

New Status: TF - 10

New Location: VARIOUS

Date/Time of Change: 05 OCT 16 0700

Comments

CREATE TF-10 (ON WATER STORAGE)

OSRB 404 TAKE POSITION IN LONGVIEW AREA J

OSRB ATLAS TAKE POSITION IN ST. HELEN AREA JJ

OSRB #2 TAKE POSITION IN VANCOUVER AREA A

TO RECEIVE PRODUCT FROM SKIMMERS

DRILL

SCAT TEAMS

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakken

Prepared By: C. Honan at 0900

Period: 04 OCT 16 0800

Version Name:

Incident Resources to Change

	ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
1	7489	MSRC	WB 5	JON BOAT #2	1	14'	ST. HELENS (S.)	AVAILABLE
2	7490	MSRC	WB 4	RESPONSE 5	1	28'	ST. HELENS (S)	
3	2992	MSRC	WB 5	EGRET	1	18'	ST. HELENS (S)	
4	29038	CRC	WB 4	21' BOSTON WHALER	1	21'	VANCOUVER (S.)	
—		HILLSBORO	HELO	BEL 206 BJ JETRANGER	1	6 PASS	VANCOUVER (S)	

New Status and/or Location

New Status: SCAT TEAMS 1-4

New Location: AS DIRECTED

Date/Time of Change: 0900 10/04/16

DRILL

Comments

ASSIGN 4 INDIVIDUAL VESSELS FROM STAGING AREAS FOR SCAT TEAMS.

TEAM 1 JON BOAT #2
2 RESPONSE 5
3 EGRET
4 21' BOSTON WHALER

TF-40

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: CWS at

Period: 03 OCT 16 ~~0700~~

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30329	MSRC	SKIM 2	CRUCIBLE 56 DISC	~~5671~~ 1	5671 EDRC		
7586	MSRC	SKIM 1	STRESS Skimmer	1	15840 EDRC		
7545	MSRC	SKIM 2	DOP 250 Skimmer		3017 EDRC		
7581	MSRC	SKIM 2	DOP 250 Skimmer		3017 EDRC		
7569	MSRC	SKIM 2	DOP 250 Skimmer		3017 EDRC		
24871	CCS	UT-1	UAC TRUCK 53	1	120-		
24872	CCS	UT1	UAC TRUCK 59	1	120-		
25100	CCS	UT1	UAC TRUCK 49	1	120-		
25101	CCS	UT1	UAC TRUCK 51	1	120-		
25102	CCS	UT1	UAC TRUCK 54	1	120-		

New Status and/or Location

New Status: TF-40

New Location: DIV 1A SOURCE

Date/Time of Change: 03 OCT ~~0700~~ 1500

DRILL

Comments

CREATE TF-40. SKIM OIL FROM DOCK ① SOURCE

10 HAZWOPER PERSONNEL TO OPERATE SKIMMERS

TF - 41

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: CWS at

Period: 09 ~~SEP~~ OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29121	CRC	SK 3	36" COATED BOOM		891 EDRC		
29122	CRC	SK 3	" "		891 EDRC		
29123	CRC	SK 3	" "		891 EDRC		
25104	CCS	UT 1	VAC TRUCK 55		120BBL		
	BAKER	AS 4	FRAC TANK 20K	1	20K GAL		
3150	MSRC	WB 5	JON BOAT 7				

New Status and/or Location

New Status: TF - 41

New Location: AIO B GRP LCR 100.8R

Date/Time of Change: 03 OCT 16 1400

DRILL

Comments

CREATE TF - 41, SKIM OIL FROM SHORELINE @ GRP LCR 100.8R

6 HAZWOPER PERSONNEL TO OPERATE SKIMMERS

TF-42

ICS 210 - Change Status

Incident: VANCOUVER ENGLISH SPILL DRILL #1 BAKKEN

Prepared By: CWS at

Period: 04 OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3062	MSRC	SKE2	DESTOIL 250 SKIMMER	1	2914 EDRC		
28258	NRCES	SKE2	OILCOMA CASCADE	1	5465 EDRC		
28214	NRCES	SKE2	LAMOR RUSH	1	3019 EDRC		
28222	NRCES	SKE2	MANTA 5	1	1032 EDRC		
7448	MSRC	SKE2	ARGUS 800 SKIMMER	1	3840 EDRC		
7462	MSRC	SKE2	DESMI OCEAN SKIMMER	1	3017 EDRC		
24668	MSRC	SKE2	NOR 250 SKIMMER	1	3017 EDRC		
28493	NRCES	WO5	6504 SKIFF	1			
3026	MSRC	B2	20" TEL 2		1200		

New Status and/or Location

New Status: TF-42

New Location: TF-42 DIV J

Date/Time of Change: 0700 04 OCT 16

DRILL

Comments

CREATE TF-42, SKIM OFF @ PORT OF LONGVIEW

ADD 14 HAZWOPER PERSONELL TO MAN SKIMMERS

TF-42

ICS 210 - Change Status

Incident: UNCONVENTIONAL ENERGY SOLUTIONS DRILL #1 BAKKEN

Prepared By: CWS at

Period: 04 OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
1429	CCS	UT2	UAC TRK 55		80		
1436	CCS	UT2	UAC TRK 62		80		
1437	CCS	UT2	UAC TRK 63		80		
1438	CCS	UT2	UAC TRK 65		80		
1439	CCS	UT2	UAC TRK 69		80		
29705	CCS	UT2	UAC TRK 68		80		
	BAKER	PS4	FRAC TRAILER		476	LONGVIEW	ASSIGNED
	BAKER	PS4	11		476		
	BAKER	PS4	11		476		

New Status and/or Location

New Status:

New Location: TF-42

Date/Time of Change: 04 OCT 16 0700

DRILL

DW

Comments

ADD EQUIPMENT TO TF-42 TO SUPPORT SOLUTIONS @ THE PORT OF LONGVIEW.

TF-43

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL # 1 BAKKEN | Prepared By: CWS | at

Period: 04 OCT 16 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3011	MSRC	SKIMK	MORRIS M-II/24		206 EDRL		
3054	~~AT~~ MSRC	SKIMK	AQUA GUARD #1		360 EDRL		
28218	NRCES	SK3	VIKOMA IZK DISC		480 EDRL		
28219	NRCES	SK3	VIKOMA IZK DISC		480 EDRL		
1499	CCS	UTZ	AQUATECK A8		(80)		
1500	CCS	UTZ	AQUATECK A7		(80)		
29495	NRCES	WBS	SKIFF 6216				

New Status and/or Location

New Status:

New Location: TF-43 DIV B LCR 99.9

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-43, SKIM OIL FROM SHORELINE IN DIV B @ GRP LCR 99.9

X4 HAZ WOPER PERSONNEL TO OPERATE SKIMMER

TF-44

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: CWS at

Period: 04 OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3062	MSRC	SK2	DESTROIL 250		2914 EDRC		
29251	NRCES	SK3	FOILEX 150		1131 EDRC		
3044	MSRC	SK4	DESTROIL 150		754 EDRC		
28215	NRCES	SK3	AQUA GUARD RBS 10		662 EDRC		
28216	NRCES	SK3	AQUA GUARD RBS 10		662 EDRC		
28260	NRCES	SK3	AQUA GUARD RBS 10		662 EDRC		
28225	NRCES	SK3	MORRIS M1 30		686 EDRC		
28223	NRCES	SK3	MORRIS M1 30		686 EDRC		
29157	CRC	WB4	20' ANNULUS				

New Status and/or Location

New Status: ASSIGNED

New Location: TF-44

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-44 IN DIV G & GRP ~~86~~ LCR 86.2 TO SKIM OIL

X 12 HAZWOPER PERSONELL TO OPERATE SKIMMERS

TF-4C

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Bakken

Prepared By: CWS at

Period:

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	BAKER	~~PSAC~~ PS 4	FRAC TANK	1	20.476		
	BAKER	PS 4	FRAC TANK	1	476		
	BAKER	PS4	FRAC TANK	1	476		
24701	CCS	VT2	VACTRK 61		80		
24702	CCS	VT2	VACTRK 64		80		
24703	CCS	VT2	VACTRK 67		80		

New Status and/or Location

New Status:

New Location: CONT.

Date/Time of Change:

DRILL

Comments

CONT.

TF-45 DIV A

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN

Prepared By: C. HOWCK at 12:30

Period: 04 OCT 16 0830 05OCT16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NRCES	PERSONNEL	40 HR HAZ TECH + SUPERVISORS	110		VANCOUVER TERMINAL	ASSIGNED
	UNITED RENTALS	BACK HOE	16'	1			VANCOUVER TERM
	UNITED RENTALS	TRASH PUMPS		6			
	UNITED RENTALS	SKID STEERS		4			
	BAKER	TRUCK - ROLLOFF		1			
	BAKER	ROLL OFF BIN	20 YD	2		VANCOUVER STAGING	ASSIGNED
	BAKER	ROLL OFF BIN	20 YD	2			

New Status and/or Location

New Status: TF-45

New Location: VANCOUVER TERMINAL

Date/Time of Change: 12:30 04OCT16

DRILL

Comments

10 NRCES SUPERVISORS WITH 100 NRCES LABOR TECH'S UTILIZE HEAVY INDUSTRIAL EQUIPMENT TO HELP MITIGATE SPILLED MATERIAL IN DIVISION A @ THE SOURCE (TERMINAL) TEAM'S TO SPLIT TERMINAL INTO TWO AREAS OF OPERATION WITH 1 BACKHOE, 2 SKID STEERS, 2 ROLL OFF BOXES AND 3 TRASH PUMPS PER SIDE.

TF - 46

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakken

Prepared By: CWS at

Period: 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29114	CRC	SK 4	RO CLEAN RopeMop		30 GPM		
28229	NRCES	SK 4	Rope Mop		96 GPM		
28231	"	"	"		"		
28234	"	"	"		"		
28324	NRCES	UT 2	VAC TRK PERSONNEL		120 BBL		
28325	NRCES	UT 1	VAC TRK PERSONNEL		120 BBL		
	BAKER	PSH	FRAC TANK (POX)		250,000 GAL		
28500	NRCES	WB 5	LOAD SKIFF 14'				

New Status and/or Location

New Status: ASSIGNED

New Location: TF - 46

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-46 SKIM OIL IN DIV G (4) GRP LCR 78.9 R

TF-47

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakken

Prepared By: CWS at

Period: 04 OCT 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28254	NRCES	SK 4	2" SKIMMER PAK	1	175 EDRC		
28230	NRCES	SK 4	CS1/11-A3 SKIMMER	1	288 EDRC		
3034	MSRC	SK 4	ROPE MOP	1	48 EDRC		
28571	NRCES	SK 4	SEA WOLF SKIMMER	1	178 EDRC		
3037	MSRC	SK 4	ROPE MOP		48 EDRC		
28339	NRCES	UT 2	UAC TREK 70		70 BBC		
28330	NRCES	UT 2	UAC TREK 130		130 BBC		
	BARGE	PS 4	FRAC TANK		20,000 GAL		

New Status and/or Location

New Status: ASSIGNED

New Location: TF-47

Date/Time of Change: 0900 04 OCT 16

DRILL

Comments

CREATE TF-47 TO SKIM OIL @ GRP LCR 71.5 DIU I

TF-48

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #1 Bakken

Prepared By: at

Period: 04 OCT 16 1400

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NWFF	40HR HAZWOPR	PERSONELL	5 SUP 45 CREW			
7573	MSRC	UHO / ALL	SUPPORT TRAILER	1			

New Status and/or Location

New Status: ASSIGNED

New Location: TF-48

Date/Time of Change: 04 OCT 16 1400

DRILL

Comments

WORK PRE-CLEANING SHORELINE FROM LONGVIEW STAGING AS DIRECTED

TF-49

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 BAKER

Prepared By: at

Period: 04 OCT 16 1400

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NWFF	40HR HAZWOPR	PERSONEL	5 SUP/45 CREW			
29182 31	CRC	~~SITE~~ TRD	SHORELINE CLN. TRAILER				

New Status and/or Location

New Status: ASSIGNED

New Location: TF-49

Date/Time of Change: 04 OCT 16 1400

DRILL

Comments

WORK PRE-CLEANING SHORELINE FROM ST HELENS STAGING AS DIRECTED

CTEH AIR MONITORING TEAMS (60 - 69) ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL # 1 Bakken | Prepared By: C Houle at 12:15

Period: 04 OCT 16 - 0830 05 OCT 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
~~CTEH~~	CTEH TF-60	AIR MONITORING		1		STAGING	TF-60 DIV A
	61			1			TF-61 DIV B
	62			1			TF-62 DIV XX
	63			1			TF-63 DIV D
	64			1			TF-64 DIV ~~ZZ~~
	65			1			TF-65 DIV BKI/MI
	66			1			TF-66 DIV UU
	67			1			TF-67 DIV BI
	68			1			TF-68 DIV J
	69			1			TF-69 DIV SS

New Status and/or Location

New Status: ASSIGNED

New Location: TF's 60-69

Date/Time of Change: 12:15

DRILL

Comments

ASSIGN ID CTEH INDIVIDUALS TO LOCATE THEMSELVES IN DIVISIONS AND CONDUCT AIR MONITORING. CONTINUOUSLY

60 - DIV A
61 - DIV B
62 - DIV XX
63 - DIV D
64 - DIV ~~ZZ~~
65 - DIV BKI/MI
66 - DIV UU
67 - DIV BI
68 - DIV J
69 - DIV SS

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 BAKKEN | Prepared By: C. HOUCK at 11:45

Period: 04OCT16 0830 - 0700 05OCT16 | Version Name: [illegible]

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29~~63~~163	CRC	WILDLIFE TRASPORT	TRAILER	1		AVAILABEL	ASSIGNED
29096	CRC	WILDLIFE REHAB	SHELTER	1		"	"
29170	CRC	WILDLIFE REHAB	TRAILER	1		"	"
30045	MSRC	WILDLIFE TRAILER/SHELTER	SYSTEM	1		"	"
	IOSA	PERSONNEL		10		ORDERED @ TIME OF MOBILIZATION	

New Status and/or Location

New Status: ST. HELENS STAGING

New Location: REMAIN @ STAGING.

Date/Time of Change: 1145

DRILL

Comments

ASSIGN IOSA TO SET UP WILDLIFE REHAB SHELTERS @ ST. HELENS STAGING. AS PER CUSTOMER, ORDER 1BRRC TO STAFF SHELTERS WITH APPROPRIATE WILDLIFE HANDLER PERSONNEL

COMMUNICATIONS SUITE

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Bakken

Prepared By: C. Hanson at 1200

Period: 04 OCT 16 - 0830 - 05 OCT 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30167	MSRC	COMMUNICATIONS	EQUIPMENT	FULL SUITE		VANCOUVER STAGING	ASSIGNED
7481				1			
7500							
7501							
7535							
7536							
[redacted]		PERSONNEL	COMM'S TECH'S	5			

New Status and/or Location

New Status: ASSIGNED

New Location: AS DIRECTED.

Date/Time of Change: 1200 04 OCT 16

DRILL

Comments

AS DIRECTED BY RP SET UP MOBILE COMMUNICATIONS SUITE TO SUPPORT THE COMMAND POST NEEDS. ALSO SET UP MOBILE REPEATERS FOR LAND MOBILE COMM'S, DISTRIBUTE HANDHELDS AS NECESSARY AND STAFF FOR 24 HOURS.

1. Incident Name Vancouver Energy – Bakken Exercise		2. Operational Period (Date/Time) From: 3 Oct 0830 To: 4 Oct 0830														OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment														9. "X" here if 204a Needed			
		Resource	Boom (x100 ft)	Work Boat	Current Buster	OSRV	SBS	40 Hr Hazwoper	OSRB	Vac Truck	Frac Tank-476	Shore-side Skimmer	Aircraft	Air Monitoring		6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	
A	Task Force 1, Source	Req.	0	1	1	5	1	14								Current buster system – VE asset, 1330 disc – VE asset			
		Have	0	1	1	5	1	14											☐
		Need	0	0	0	0	0	0											
A	Task Force 22, Protection	Req.	40	3				7								Double wrap source 3,000 ft boom – VE asset			
		Have	40	3				7											☐
		Need	0	0				0											
A	Task Force 2, Recovery	Req.				4	2	8					3						
		Have				4	2	8					1						☐
		Need				0	0	0					2						
B	Task Force 21, Protection	Req.	25	2				4								LCR100.8R LCR-98.6R,			
		Have	25	2				4											☐
		Need	0	0				0											
C	Task Force 23, Protection	Req.	24	1				2								LCR-97.5, LCR-97.0, LCR-95.0R LCR-94.8			
		Have	24	1				2											☐
		Need	0	0				0											
ZZ/ OR	Task Force 20, Protection	Req.	10	1				2								WR-0.9R, Priority 2, DivZZ, Columbia Slough; 1000 ft			
		Have	10	1				2											☐
		Need	0	0				0											
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy – Bakkan Exercise		2. Operational Period (Date/Time) From: 3 Oct 0830 To: 4 Oct 0830														OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment														9. "X" here if 204a Needed			
		Resource	Boom (x100 ft)	Skifft & Oper	Current Buster	OSRV	SBS	40 Hr Hazwoper	OSRB	Vac Truck	Frac Tank-476	Shore-side Skimmer	Aircraft	Air Monitoring		6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	
SCAT	Helo Team (1) SCAT-1 (WA) SCAT-2 (WA) SCAT-3 (OR) SCAT-4 (OR)	Req.		3				5					1						
		Have																	☐
		Need																	
Wildlife	Wild 1 (OR) Wild 2 (WA)	Req.		2				2											
		Have																	☐
		Need																	
Sampling	Sample-1 (upstream) Sample-2 (downstm)	Req.		2															
		Have																	☐
		Need																	
Decon A	Staging A - Vancouver	Req.																	
		Have																	☐
		Need																	
Decon B	Staging B - St. Helens	Req.																	
		Have																	☐
		Need																	
Decon C	Staging C - Longview	Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy – Bakkan Exercise		2. Operational Period (Date/Time) From: 3 Oct 0830 To: 4 Oct 0830													OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment													9. "X" here if 204a Needed			
		Resource	Suction Pumps	Vac Truck	Rolloff Tank	Skmmer	Flush pump							Supervisor	Labor (HAZ)	6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	
A	TF- Cleanup at VE site	Req.																	
		Have																	☐
		Need																	
A	TF- Cleanup DIV A shoreline	Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station	
A	Onwater Recovery	Req.		5	2	16	1			1			1	1	1			☐
		Have																
		Need																
A	Onwater Protection	Req.	40			4												☐
		Have																
		Need																
A	Shoreline Cleanup	Req.				125	5	5	2		4	1						☐
		Have																
		Need																
A	Staging	Req.				11										1	1	☐
		Have																
		Need																
		Req.																☐
		Have																

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station	
B	Onwater Recovery	Req.		4		13				2				2				☐
		Have																
		Need																
B	Onwater Protection	Req.																☐
		Have																
		Need																
B	Shoreline Cleanup	Req.			2	17	7	3	1			1						☐
		Have																
		Need																
B	Staging	Req.																☐
		Have																
		Need																
		Req.																☐
		Have																

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			
OPERATIONAL PLANNING WORKSHEET								June 2000										ICS 215-OS	

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
C/D	Onwater Recovery	Req.		4	4	18	1						1	2					☐
		Have																	
		Need																	
C/D	Onwater Protection	Req.																	☐
		Have																	
		Need																	
C/D	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
C/D	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
E/F	Onwater Recovery	Req.		4	3	21							1	1					☐
		Have																	
		Need																	
E/F	Onwater Protection	Req.																	☐
		Have																	
		Need																	
E/F	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
E/F	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station	
F/UU/TT	Onwater Recovery	Req.	13	2	2	22						1	1	1				☐
		Have																
		Need																
F/UU/TT	Onwater Protection	Req.																☐
		Have																
		Need																
F/UU/TT	Shoreline Cleanup	Req.																☐
		Have																
		Need																
F/UU/TT	Staging	Req.																☐
		Have																
		Need																
		Req.																☐
		Have																

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
G/H	Onwater Recovery	Req.		6	6	26								6					☐
		Have																	
		Need																	
G/H	Onwater Protection	Req.																	☐
		Have																	
		Need																	
G/H	Shoreline Cleanup	Req.			2	29	12	3	4										☐
		Have																	
		Need																	
G/H	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

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3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
H	Onwater Recovery	Req.	13	1	7	21				1			1						☐
		Have																	
		Need																	
H	Onwater Protection	Req.																	☐
		Have																	
		Need																	
H	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
H	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
I	Onwater Recovery	Req.																	☐
		Have																	
		Need																	
I	Onwater Protection	Req.																	☐
		Have																	
		Need																	
I	Shoreline Cleanup	Req.				10	5	2	1										☐
		Have																	
		Need																	
I	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
J	Onwater Recovery	Req.				6									1				☐
		Have																	
		Need																	
J	Onwater Protection	Req.																	☐
		Have																	
		Need																	
J	Shoreline Cleanup	Req.	12			22	7	6	3										☐
		Have																	
		Need																	
J	Staging	Req.				56						1					1		☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 1, Bakken	2. Operational Period (Date/Time) From: 10/3; 0830 To: 10/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	Wildlife (100 bird)	OSRB/tug	Decon	Coms Station		
UU	Onwater Recovery	Req.				7									1				☐
		Have																	
		Need																	
UU	Onwater Protection	Req.																	☐
		Have																	
		Need																	
UU	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
UU	Staging	Req.				61						1		1		1			☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

Ordered

Incident/Drill Name						Date	Prepared by										
			Vancouver Energy Spill Drill #1			1/13/2016 11 23					MSRC						
							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAAAAAA		
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #1		96			Vancouver	WA	10/3/2016 10 30	Assigned	TF-01		Vancouver Terminal
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #2		96			Vancouver	WA	10/3/2016 10 30	Assigned	TF-03		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #1	4,728				Vancouver	WA	10/3/2016 10 30	Assigned	TF-01		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #2	4,728				Vancouver	WA	10/3/2016 10 30	Assigned	TF-03		Vancouver Terminal
MSRCNW	30802	30802	OSRV	OSRV3	30-10, harbor skimmer 30'	Skimmer, Marco	3588	24		4	Portland	OR	10/3/2016 10 30	Assigned	TF-01	CCS	Vancouver Terminal
MSRCNW	3032	3032	Skiff	WB5	JAEGER	Seine Skiff, 18ft.				2	Astoria	OR	10/3/2016 10 30	Assigned	TF-06	MSRC	Vancouver Terminal
MSRCNW	7487	7487	Skiff	WB5	Jon Boat #4	JB, 15ft / 25hp				2	Astoria	OR	10/3/2016 10 30			MSRC	Vancouver Terminal
MSRCNW			SUPERVISOR		MSRC SUPERVISOR					1	Astoria	OR	10/3/2016 10 30				Vancouver Terminal
MSRCNW	3026	7451	Boom	B2	Trailer MSRC02, Boom, Kepner	20"			1200		Astoria	OR	10/3/2016 10 30	Assigned	TF-42 DIV J		Vancouver Terminal
CCSPNE	24871		Storage	VT1	PT-53 Tanker (WA 5941YB)	1979 Stemco Thompson 120		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	24872		Storage	VT1	PT-59 Tanker (WA 6886LS)	1987 Spen Semi-Trailer 120		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25100		Storage	VT1	PT-49 Tanker (WA 9754RO)	1995 Polar 42' with Certified		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25101		Storage	VT1	PT-51 Tanker (WA 8666TI)	1982 Trailmaster Tanker Nor		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25102		Storage	TT1	PT-54 Tanker (WA 0057SV)	1981 Proco Tank Trailer		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25104		Storage	TT1	PT-55 Tanker (WA 2640XY)	1993 SPCNS Tank Trailer		120		1	Longview	WA	10/3/2016 10 30	Assigned	TF-41 DIV B	CCS	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 10 30	Assigned	TF-02	HILLSBORO	Vancouver Staging
CRC	29031	29141	Vessel	WB3	FRV Protector	34' Munson (includes boom t				2	Astoria	OR	10/3/2016 10 30	Available	TF-21	CRC/NRC	81.8
CRC	29034	29145	OSRV	OSRV3	OSRV MFSA 1	34' Kvichak W/ Marco Belt S	3720	24		2	Portland	OR	10/3/2016 10 30	Assigned	TF-22 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29035	29144	OSRV	OSRV3	OSRV Clean Rivers 1	34' Kvichak w/ Marco Belt SK	3720	24		2	Portland	OR	10/3/2016 10 30	Assigned	TF-20 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29039		Vessel	WB4	20' Workboat	20' Alumaweld I w/115 hp				1	Portland	OR	10/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29049	29049	Equipment	VH0	Boom Trailer	45' Trailer (includes boom fro					Vancouver	WA	10/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29050	29050	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100		2	Vancouver	WA	10/3/2016 10 30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29054	29054	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Portland	OR	10/3/2016 10 30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29133		Boom	B3	12" Boom	American Marine			3000		Portland	OR	10/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29157		Vessel	WB4	20' Workboat	20' Alumaweld II w/90 hp				1	Portland	OR	10/3/2016 10 30	Assigned	TF-44 DIV G	CRC/NRC	Vancouver Terminal
CRC	29172		Equipment	COM	Command & Communications Tr	53' Specialty Trailer - Comm				1	Portland	OR	10/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29180	29180	Equipment	VH0	Boom Trailer	48' Trailer					St. Helens	OR	10/3/2016 10 30	Assigned	TF-23	CRC/NRC	Vancouver Terminal
CRC	29182	29182	Shoreline	TR0	Shoreline Cleanup Trailer	30' Blazer Trailer					Portland	OR	10/3/2016 10 30	Assigned	TF-49	CRC/NRC	Vancouver Terminal
CRC	29192		Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	31771		Shoreline	TRO	Shoreline Clean-up Trailer	100 Man Shoreline Clean-up				1	Portland	OR	10/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29055	29055	OSRV	OSRV3	Shallow Water Recovery Barge	30' American Eagle w/ Lori S	2473	100	400	2	Clatskanie	OR	10/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29053	29053	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Portland	OR	10/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29052	29052	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100	400	2	Astoria	OR	10/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29057	29057	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Longview	WA	10/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
MSRCNW	30751	7562	Equipment	VH0	Shallow Water Barge 23	Trailer #B18 WB-29 Trailer					Portland	OR	10/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7511	7562	Equipment	PTP	Shallow Water Barge 23	Pump, DOP 250, 440 gpm					Portland	OR	10/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	29594	7562	Skimmer Portable	SK3	Shallow Water Barge 23	Skimmer, QME Tri	905				Portland	OR	10/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7555	7562	Vessel	WB4	Shallow Water Barge 23	Work Boat, WB-29 <29'				4	Portland	OR	10/3/2016 11 30	Assigned	TF-01	MSRC/TONGUE PT	Vancouver Terminal
MSRCNW	7560	7562	Boom	B2	Shallow Water Barge 23	24"			60		Portland	OR	10/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7562	7562	Storage	TB4	Shallow Water Barge 23	Shallow Water Barge, non		400			Portland	OR	10/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	24950	3025	Boom	B2	Trailer MSRC57,Boom, Kepner	20"			1500		Portland	OR	10/3/2016 11 30				Vancouver Staging
MSRCNW	7499	30117	Boom	B2	Trailer MSRC64, Medium Fence	24"			2000		Portland	OR	10/3/2016 11 30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 11 30	Assigned	TF-45 DIV A	BAKER	Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30				Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11 30				Vancouver Staging
MSRCNW	3150	3150	Skiff	WB5	Jon Boat #7	Jon Boat #7				2	Tacoma	WA	10/3/2016 12 00	Assigned	TF-41 DIV B	MSRC	Vancouver Staging
MSRCNW	3152	3152	Skiff	WB5	SN PE	Seine Skiff 18ft.				2	Tacoma	WA	10/3/2016 12 00	Assigned	TF-06	MSRC	Vancouver Staging
MSRCNW	3137	3136	Boom	B3	Trailer MSRC60, Boom, Acme	12"			3500		Tacoma	WA	10/3/2016 12 00				Vancouver Staging
MSRCNW	3139	3138	Boom	B2	Trailer MSRC70 Boom Acme	30"			4000		Tacoma	WA	10/3/2016 12 00				Vancouver Staging
MSRCNW	7482		Boom	B2	Boom, Intertidal	26"			2000		Astoria	OR	10/3/2016 12 30				Vancouver Staging
MSRCNW	7494		Boom	B2	Boom, Medium Fenceboom	24"			2000		Astoria	OR	10/3/2016 12 30				Vancouver Staging
MSRCNW	3004	3003	Boom	B2	Trailer MSRC40, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12 30	Assigned	TF-20		Vancouver Staging
MSRCNW	2970	2969	Boom	B2	Trailer MSRC41, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12 30	Assigned	TF-20		Vancouver Staging
MSRCNW	3128	3127	Boom	B2	Trailer MSRC45, Boom, Acme	18"			3500		Seattle	WA	10/3/2016 12 30				Vancouver Staging

Ordered

							189,607	95,764	140,630	716								
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
CCSPNE	1428		Storage	VT2	#55 Liquid Vacuum Truck (WA 3	1987 Kenworth Liquid Vacuu		80		1	Longview	WA	10/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1436		Storage	VT2	#62 Liquid Ring/Vacuum Truck (	1990 Freightliner Ace Liquid		80		1	Longview	WA	10/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1437		Storage	VT2	#63 Air Mover/Vacuum Truck (W	1994 Ford Guzzler Ace Vacu		80		1	Longview	WA	10/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1438		Storage	VT2	#65 Combo Truck [Jet Rod/Vac]	2005 Sterling Combo Truck M		80		1	Longview	WA	10/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1439		Storage	VT2	#69 Air Mover/Vacuum Truck (W	1994 Kenworth/Vactor Vacuu		80		1	Longview	WA	10/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CRC	29029	29154	Vessel	WB3	FRV Columbia Responder	32' Kvichak (includes boom f				2	St Helens	OR	10/3/2016 12 30	Available	TF-30	CRC/NRC	LONGV EW STAGING
CRC	29030	29132	Vessel	WB3	FRV Independence	32' Browns (includes boom fi				2	Longview	WA	10/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29032	29143	OSRV	OSRV3	OSRV HW Zarling	34' Kvichak W/ Marco Belt sk	3720	24		2	Rainier	OR	10/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29033	29142	OSRV	OSRV3	OSRV Mark O. Hatfield	34' Kvichak W/ Marco Belt sk	3720	24		2	Cathlamet	WA	10/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29038		Vessel	WB4	21' Workboat	21' Boston Whaler w/150 hp				1	Linnton (KM)	OR	10/3/2016 12 30	Assigned	SCAT 4	CRC/NRC	Vancouver Staging
CRC	29040		Vessel	WB4	Elizabeth Furse	27' Allday				2	Linnton (KM)	OR	10/3/2016 12 30	Assigned	TF-06	CRC/NRC	Vancouver Staging
CRC	29114		Skimmer Portable	SK4	Ro-Clean Rope Mop Skimmer	Hatz Diesel	30				Portland	OR	10/3/2016 12 30	Assigned	TF-46 DIV G	CRC/NRC	Vancouver Staging
CRC	29121		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	10/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29122		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	10/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29123		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	10/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29132	29030	Boom	B3	14" Boom	American Marine (includes W			1500		Longview	WA	10/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29139	29180	Boom	B2	20" Boom	American Marine (includes W			5000		St. Helens	OR	10/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29142	29033	Boom	B2	20" Boom	American Marine (includes W			1100		Portland	OR	10/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29143	29032	Boom	B2	20" Boom	American Marine (includes W			1000		Rainier	OR	10/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29154	29029	Boom	B3	12" Boom	American Marine (include W			2000		St. Helens	OR	10/3/2016 12 30	Assigned	TF-30	CRC/NRC	LONGV EW STAGING
CRC	29163	29163	Wildlife	WR0	Wildlife Transport Trailer	32' Climate Control Cargo Tr				1	Linnton (KM)	OR	10/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
CRC	29046	29170	Wildlife	WR0	Wildlife Rehabilitation Shelter	19' x 35' Western Shelters G					Portland	OR	10/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
CRC	29170	29170	Wildlife	WR0	Wildlife Rehabilitation Trailer	48' Specialty Trailer - Wildlife				1	Linnton (KM)	OR	10/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
NRCES	28261		OSRV	OSRV3	Trailer 6169, Belt Skimmer Vess	Marco/IC	3588	30		2	Portland	OR	10/3/2016 12 30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28262		OSRV	OSRV3	Belt Skimmer Vessel	Marco/I-I	3588	30		2	St Helens	OR	10/3/2016 12 30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28541		Vessel	WB4	JETCRAFT 6464 (#9)	Workboat 20'				2	Portland	OR	10/3/2016 12 30	Assigned	TF-24	NRCES	Vancouver Staging
NRCES	28545		Vessel	WB4	Monarch 6016	Workboat 18'				1	Portland	OR	10/3/2016 12 30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	28575	28575	Vessel	WB3	Raider 6028	Response Vessel 34'				2	Portland	OR	10/3/2016 12 30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	30314		Vessel	WB3	FRV Next Generation	36' Munson				2	Clatskanie	OR	10/3/2016 12 30	Assigned	TF-21 / TF-25	NRCES	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-60 DIV A	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-61 DIV B	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-62 DIV XX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-63 DIV D	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-64 DIV ZZ	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-65 DIV BX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-66 DIV UU	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-67 DIV BI	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-68 DIV J	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12 30	Assigned	TF-69 DIV SS	CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					2			10/3/2016 12 30			CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					1			10/3/2016 12 30			CTEH	Vancouver Staging
TBL			Vessel	TUG2	BOB CARLSON					5			10/3/2016 12 30	Assigned	TF-10	TBL	
TBL	31637		Storage	TB2	Barge Atlas	272' x 42' x 17'		23000			Vancouver	WA	10/3/2016 12 30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28263		OSRV	OSRV4	Belt Skimmer Vessel (6059)	Marco/1C, #1	3588	30		2	Seattle, South P	WA	10/3/2016 12 30	Assigned	TF-04		
NRCES	28264		OSRV	OSRV4	Belt Skimmer Vessel (6060)	Marco/1C, #2	3588	30		2	Seattle, South P	WA	10/3/2016 12 30	Assigned	TF-04		
MSRCNW	24952	24952	OSRV	OSRV3	MERL N	Skimmer, Marco	3588	28		2	Everett	WA	10/3/2016 13 30	Assigned	TF-02	MSRC	SA NT HELENS STAG NG
MSRCNW	3030	3030	OSRV	OSRV3	PEREGRINE	Skimmer Marco	3588	28		2	Everett	WA	10/3/2016 13 30	Assigned	TF-02	MSRC	SA NT HELENS STAG NG
MSRCNW	3119	3118	Boom	B1	Trailer MSRC62, Boom, Cape C	42"			2000		Richmond Beach	WA	10/3/2016 13 30				Vancouver Staging
MSRCNW	3125	3124	Boom	B2	Trailer MSRC68, Boom, Acme	30"			2000		Richmond Beach	WA	10/3/2016 13 30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 13 30			BAKER	LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13 30				LONGV EW STAGING
NRCES	28229		Skimmer Portable	SK4	Rope Mop	OMI/MK II-4VE	96				Portland	OR	10/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28231		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28234		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28254		Skimmer Portable	SK4	Wier Skimmer	2" Skim-pak	178				Portland	OR	10/3/2016 13 30	Assigned	TF-47		
NRCES	28230		Skimmer Portable	SK4	Rope Mop	CSI/Model II-A3	288				Portland	OR	10/3/2016 13 30	Assigned	TF-47		

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAA	AAAAAAAAAAA	AA	AAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
NRCES	28218		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13 30	Assigned	TF-43 DIVB		
NRCES	28219		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13 30	Assigned	TF-43 DIVB		
CRC	29044		Skiff	WB5	16' Skiff	16' Skiff w/25 hp				1	Linnton (KM)	OR	10/3/2016 13 30	Assigned	TF-28	CRC/NRC	
CRC	29045		Skiff	WB5	16' Skiff	16' Skiff w/ 25hp				1	Clatskanie	OR	10/3/2016 13 30	Assigned	TF-28	CRC/NRC	
CRC	30499		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13 30	Assigned	TF-27	CRC/NRC	
CRC	30500		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13 30	Assigned	TF-26	CRC/NRC	
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14 00	Assigned	SCAT	HILLSBORO	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14 00	Available	TF-07	HILLSBORO	Vancouver Staging
MSRCNW	7571	7571	Vessel	WB4	17-3	Work Boat, 17-3 <29'				3	Everett	WA	10/3/2016 14 30	Assigned	TF-04	ASSIGNED TO SWB	SA NT HELENS STAG NG
MSRCNW	30329		Skimmer Portable	SK2	Crucial Skimmer C-Disc 56/30	Skimmer, Disc	5671				Everett	WA	10/3/2016 14 30	Assigned	TF-40		SA NT HELENS STAG NG
MSRCNW	31075	31075	Boom	B2	Current Buster #4 System B	Current Buster #4		196	200		Everett	WA	10/3/2016 14 30	Assigned	TF-04		SA NT HELENS STAG NG
MSRCNW	3062		Skimmer Portable	SK2	Destroil 250, Skimmer	Skimmer, weir	2914				Everett	WA	10/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	3045	3044	Equipment	SR0	Destroil DS-150 Power Pack	HPU diesel hydraulic					Everett	WA	10/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	3044	3044	Skimmer Portable	SK4	Destroil DS-150, Skimmer	Skimmer, weir	754				Everett	WA	10/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	7545		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7561		Skimmer Portable	SK3	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7569		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7489	7489	Skiff	WB5	Jon Boat #2	JB, 15ft / 15hp				2	Everett	WA	10/3/2016 14 30	Assigned	SCAT 1	MSRC	SA NT HELENS STAG NG
MSRCNW	3010	3011	Equipment	SR0	Morris, Power Pack,Diesel Amer	HPU, diesel hydraulic					Everett	WA	10/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	3011	3011	Skimmer Portable	SK4	Morris Skimmer MI-11/24	Skimmer Disk	206				Everett	WA	10/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	3043	3011	Storage	PS4	Morris, Tank, Portable	Buoywall Tank		14			Everett	WA	10/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	7490	7490	Vessel	WB4	Response 5	Work Boat 28'				2	Everett	WA	10/3/2016 14 30	Assigned	SCAT 2	MSRC	SA NT HELENS STAG NG
MSRCNW	3036	3034	Equipment	SR0	Rope Mop #1, Generator, Portal	Portable Generator Diesel					Everett	WA	10/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3034	3034	Skimmer Portable	SK4	Rope Mop #1, Skimmer, MI-14E	Skimmer, Rope Mop	48				Everett	WA	10/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3035	3034	Storage	PS4	Rope Mop #1, Tank, Portable	Plastic Fish Box		4			Everett	WA	10/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	30987	7554	Equipment	PTP	Shallow Water Barge 19	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7552	7554	Boom	B2	Shallow Water Barge 19	24"			60		Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7553	7554	Skimmer Portable	SK3	Shallow Water Barge 19	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7554	7554	Storage	TB4	Shallow Water Barge 19	Shallow Water Barge non		400			Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7567	7554	Vessel	WB4	Shallow Water Barge 19	Work Boat, WB-28 <29'				4	Astoria	OR	10/3/2016 14 30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7563	7566	Vessel	WB4	Shallow Water Barge 25	Work Boat WB-30 <29'				4	Astoria	OR	10/3/2016 14 30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7564	7566	Boom	B2	Shallow Water Barge 25	18"			60		Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7566	7566	Storage	TB4	Shallow Water Barge 25	Shallow Water Barge, non		400			Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7480	7566	Skimmer Portable	SK3	Shallow Water Barge 25	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	29593	7566	Equipment	PTP	Shallow Water Barge 25	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7586	7586	Skimmer Portable	SK1	STRESS Skimmer	Pump, CCN 150	15840				Everett	WA	10/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	30048	3075	Boom	B3	Trailer MSRC20, Boom, Acme	6"			2000		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	24758	3073	Boom	B2	Trailer MSRC29 Intertidal Boom	26"			1650		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7483	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			2000		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7495	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7496	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7573	7573	Equipment	VH0	Trailer Support	Equipment Cache					Everett	WA	10/3/2016 14 30	Assigned	TF-48		SA NT HELENS STAG NG
MSRCNW	30315	7573	Boom	B3	Trailer Support, Boom Acme	6"			600		Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7486	7573	Skiff	WB5	Trailer Support, Jon Boat #1	JB, 14ft / 15hp					Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30990	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30991	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	31489	7573	Storage	PS4	Trailer Support Tank Fastank	Open top storage tank		57		1	Everett	WA	10/3/2016 14 30				SA NT HELENS STAG NG
CCSPNE	1499		Storage	VT2	A8 Air Mover/Vacuum Truck (W	1994 Ford Master Vacuum		80		1	Aberdeen	WA	10/3/2016 14 30	Assigned	TF-43 DIVB	CCSPNE	LONGV EW STAGING
CCSPNE	1500		Storage	VT2	A7 Air Mover/Vacuum Truck (W	1988 Ford Vactor Vacuum		80		1	Port Townsend	WA	10/3/2016 14 30	Assigned	TF-43 DIVB	CCSPNE	LONGV EW STAGING
CCSPNE	24701		Storage	VT2	#61 Air Mover/Vacuum Truck (O	1999 Int'l Truck with Guzzler		80		1	Portland	OR	10/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24702		Storage	VT2	#64 Air Mover/Vacuum Truck (W	2005 Sterling Vacuum Truck		80		1	Longview	WA	10/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24703		Storage	VT2	#67 Liquid Vacuum Truck (OR Y	1994 International 80 bbl Liq		80		1	Portland	OR	10/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24705		Storage	VT2	#68 Liquid Vacuum Truck (WA (	1997 Freightliner 80 bbl Liqu		80		1	Longview	WA	10/3/2016 14 30	Assigned	TF-42 DIV J	CCSPNE	LONGV EW STAGING
TBL				TUG2	GLENDALE					5	Wauna	WA	10/3/2016 14 30	Assigned	TF-10	TBL	Vancouver Staging
TBL	30972		Storage	TB2	Barge #2	242' x 42' x 16.6'		18000			Wauna	WA	10/3/2016 14 30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28212	28420	Skimmer Portable	SK4	Disc Skimmer/ Power Pack	Vikoma Kebab K-4	36				Seattle South P	WA	10/3/2016 14 30				
NRCES	28214		Skimmer Portable	SK2	Trailer Pier 90, Brush Skimmer	Lamor/OPC2	3019				Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28222		Skimmer Portable	SK4	Wier Skimmer (7310)	Manta 3, portable	1032				Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28228		Skimmer Portable	SK4	Rope Mop (5052)	OMI/MK II-4VE	96				Seattle, South P	WA	10/3/2016 14 30				
NRCES	28248		Skimmer Portable	SK4	Wier Skimmer (3280)	2" Skimpak (4300)	178				Seattle, South P	WA	10/3/2016 14 30				
NRCES	28251		Skimmer Portable	SK3	Wier Skimmer (4168)	Foilex 150	1131				Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-44 DIV G		

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique to-assign (5)	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
NRCES	28258		Skimmer Portable	SK2	Wier Skimmer (6370)	Vikoma Cascade	5465				Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28493		Skiff	WB5	Lund Skiff 6504	Workboat 12' - (LS) Green				2	Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28495		Skiff	WB5	Lund Skiff 6216	Workboat 12'				2	Portland	OR	10/3/2016 14 30	Assigned	TF-43 DIVB		
NRCES	28498		Skiff	WB5	Lund Skiff 6537	Workboat 14'				2	Seattle South P	WA	10/3/2016 14 30				
NRCES	28499		Skiff	WB5	Lund Skiff 6017	Workboat 12'				2	Portland	OR	10/3/2016 14 30				
NRCES	28500		Skiff	WB5	Lund Skiff 6319	Workboat 14'				2	Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28501		Skiff	WB5	Greenwater Skiff 6025	Workboat 12'				2	Portland	OR	10/3/2016 14 30				
NRCES	28532		Vessel	WB4	Green Lund #2	Workboat 20', 60hp				2	Pasco	WA	10/3/2016 14 30	Available	TF-29		76
NRCES	28533		Vessel	WB4	Green Lund #4	Workboat 20' / 75 HP				2	Spokane	WA	10/3/2016 14 30	Available	TF-29		76
NRCES	28534		Vessel	WB4	Green Lund # 5	Workboat 20', 75 HP Mercur				2	Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-29		76.6
NRCES	28485		Skiff	WB5	Lund Skiff 6200	Workboat 12'				2	Seattle South P	WA	10/3/2016 14 30	Available	TF-33		55.7
NRCES	28486		Skiff	WB5	Lund Skiff 6611	Workboat 12'				2	Seattle, Pier 90	WA	10/3/2016 14 30	Available	TF-34		55.4
NRCES	28487		Skiff	WB5	Lund Skiff 6430	Workboat 12' 15hp outboard				2	Seattle Pier 90	WA	10/3/2016 14 30	Available	TF-31		58.8
NRCES	28488		Skiff	WB5	Lund Skiff 6503	Workboat 14' - (SS) Green				2	Anacortes	WA	10/3/2016 14 30	Available	TF-32		58.7
NRCES	28489		Skiff	WB5	Lund Skiff 6214	Workboat 14' - (SS) 15hp				2	Seattle, South P	WA	10/3/2016 14 30	Available	TF-33		55.9
NRCES	28255	28571	Skimmer Portable	SK4	Weir Skimmer (Sea Wolf)	2" Skim-pak	178				Port Townsend	WA	10/3/2016 14 30	Assigned	TF-47		
NRCES	28324		Storage	VT1	Trailer 3135, Vacuum	PersVac, 120 bbls	686	120			Portland	OR	10/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28325		Storage	VT1	Vacuum Trailer (3181)	PersVac, 120 bbls	686	120			Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28337		Storage	VT2	Vacuum Truck (2054)	Thompson, 70bbl	686	70		1	Seattle, South P	WA	10/3/2016 14 30				
NRCES	28338		Storage	VT2	Vacuum Truck (2055)	Thompson 70bbl	686	70		1	Seattle South P	WA	10/3/2016 14 30				
NRCES	28339		Storage	VT2	Vacuum Truck (2058)	Thompson T800 70bbl	686	70		1	Seattle, South P	WA	10/3/2016 14 30	Assigned	TF-47		
NRCES	28350		Storage	VT1	Trailer 3369 Vacuum	Dragon Products 130 bbl		130			Portland	OR	10/3/2016 14 30	Assigned	TF-47		
MSRCNW	3055	3054	Equipment	SR0	Aquaguard #1, Power Pack Hyd	HPU, 4.8 hp.					Anacortes	WA	10/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	3056	3054	Equipment	PTP	Aquaguard #1, Pump, Diesel	Pump, 50 gpm diaphram					Anacortes	WA	10/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	3054	3054	Skimmer Portable	SK4	Aquaguard #1, Skimmer, RBS-5	Skimmer,brush/disk/drum	360				Anacortes	WA	10/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	24669	24669	OSRV	OSRV3	AUKLET, 28' harbor skimmer	Skimmer, Marco	3588	12		2	Port Angeles	WA	10/3/2016 15 30	Assigned	TF-04	MSRC	SA NT HELENS STAG NG
MSRCNW	3155		Boom	B2	Boom, Acme	18"			1700		Port Angeles	WA	10/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2992	2992	Skiff	WB5	EGRET	Seine Skiff, 18ft.				2	Anacortes	WA	10/3/2016 15 30	Assigned	SCAT 3	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	24757	24757	Skiff	WB5	Jon Boat #3	JB 15ft / 20hp				2	Bellingham	WA	10/3/2016 15 30	Assigned	TF-20	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	2994	2994	Skiff	WB5	Jon Boat #5	Jon Boat #5				2	Anacortes	WA	10/3/2016 15 30	Assigned	TF-20	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	3107	3107	Skiff	WB5	Jon Boat #6	John Boat #6				2	Port Angeles	WA	10/3/2016 15 30	Available	TF-22	MSRC/TONGUE PT	55.5
MSRCNW	3039	3037	Equipment	SR0	Rope Mop #2, Generator, Portal	Portable Generator Diesel					Port Angeles	WA	10/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3037	3037	Skimmer Portable	SK4	Rope Mop #2, Skimmer, MI-14E	Skimmer, Rope Mop	48				Port Angeles	WA	10/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3038	3037	Storage	PS4	Rope Mop #2, Tank, Portable	Plastic Fish Box		4			Port Angeles	WA	10/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	7484	30115	Boom	B2	Trailer MSRC05, Intertidal Boom	26"			2000		Port Angeles	WA	10/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	7498	30115	Boom	B2	Trailer MSRC05, Medium Fence	24"			2000		Port Angeles	WA	10/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	3092	3091	Boom	B2	Trailer MSRC42, Boom, Kepner	20"			1000		Port Angeles	WA	10/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2986	2985	Equipment	VH0	Trailer MSRC43	Trailer PS#1					Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	2985	2985	Storage	TB4	Trailer MSRC43, PS #1 & #2 Mi	Barge Mini		220			Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	2988	2985	Equipment	VH0	Trailer MSRC44	Trailer, PS#2					Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	2972	2971	Boom	B2	Trailer MSRC65, Boom, Acme	30"			4160		Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	2974	2973	Boom	B2	Trailer MSRC66, Boom, Acme	18"			2900		Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	3088	3087	Boom	B2	Trailer MSRC73, Boom, Acme	30"			3200		Port Angeles	WA	10/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2976	2975	Boom	B2	Trailer MSRC75, Boom, Acme	20"			4500		Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	2978	2977	Boom	B2	Trailer MSRC76, Boom, Acme	30"			4000		Anacortes	WA	10/3/2016 15 30				LONGV EW STAGING
MSRCNW	3110	3110	Skiff	WB5	WILLET	Seine Skiff, 18ft.				2	Port Angeles	WA	10/3/2016 15 30	Available	TF-22	MSRC	55.5
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	10/3/2016 15 30	Assigned	TF-41 DIV B		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	10/3/2016 15 30	Assigned			Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15 30				SA NT HELENS STAG NG
CRC	29177	29177	Equipment	VH0	Boom Trailer	48' Trailer			5000		Longview	WA	10/3/2016 15 30				
CRC	29131	29177	Boom	B2	20" Boom	American Marine			5000		Longview	WA	10/3/2016 15 30				
CRC	29185	29185	Equipment	VH0	Boom Trailer	48' Trailer					Clatskanie	OR	10/3/2016 15 30				

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
CRC	29140	29185	Boom	B2	20" Boom	American Marine (includes W			5000		Clatskanie	OR	10/3/2016 15 30				
CRC	29179	29179	Equipment	VH0	Boom Trailer	48' Trailer					Longview	WA	10/3/2016 15 30				
CRC	29129		Boom	B2	20" Boom	American Marine			4200		Longview	WA	10/3/2016 15 30				
NRCES	28215		Skimmer Portable	SK3	Brush/DrumSkimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28216		Skimmer Portable	SK3	Brush/Drum Skimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28260	28574	Skimmer Portable	SK3	Brush/Drum Skimmer (Response	Aqua-Guard/RBS-10	662				Seattle, Fisherm	WA	10/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28225		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Anacortes	WA	10/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28223		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Port Angeles	WA	10/3/2016 16 00	Assigned	TF-44 DIV G		
CRC	29174	29174	Equipment	VH0	Boom Trailer	48' Trailer					Astoria	OR	10/3/2016 16 00				
CRC	29125	29174	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	10/3/2016 16 00				
CRC	29138	29176	Boom	B2	20" Boom	American Marine (includes W			2500		Skamokawa	WA	10/3/2016 16 00				
CRC	29176	29176	Equipment	VH0	Boom Trailer	28' Trailer (miscellaneous bo					Skamokawa	WA	10/3/2016 16 00				
CRC	29184	29184	Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 16 00				
CRC	29135	29184	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	10/3/2016 16 00				
GDS					40 HOUR HAZWOPER TECHS	PERSONNEL				41	SEATTLE	WA	10/3/2016 16 30				Vancouver Staging
MSRCNW	7544	7546	Boom	B2	Shallow Water Barge 123	24"			60		Tacoma	WA	10/3/2016 16 30	Assigned	TF-04	MSRC/GDS	Vancouver Staging
MSRCNW	7546	7546	Storage	TB4	Shallow Water Barge 123	Shallow Water Barge, non		400			Tacoma	WA	10/3/2016 16 30	Assigned	TF-04	SEE 17-3	Vancouver Staging
MSRCNW	24672	7546	Skimmer Portable	SK3	Shallow Water Barge 123	Skimmer, QME Tri	905				Tacoma	WA	10/3/2016 16 30	Assigned	TF-04		Vancouver Staging
MSRCNW	3079	3078	Boom	B2	Trailer MSRC17, Boom, Acme	30"			4000		Ferndale	WA	10/3/2016 16 30				LONGV EW STAGING
MSRCNW	3022	3021	Boom	B2	Trailer MSRC27 Boom Acme	30"			4000		Blaine	WA	10/3/2016 16 30				LONGV EW STAGING
MSRCNW	7497	24951	Boom	B2	Trailer MSRC52, Medium Fence	24"			2000		Ferndale	WA	10/3/2016 16 30				LONGV EW STAGING
MSRCNW	3024	3023	Boom	B2	Trailer MSRC77 Boom Acme	18"			3200		Blaine	WA	10/3/2016 16 30				LONGV EW STAGING
NRCES	28227		Skimmer Portable	SK4	Rope Mop (6147)	OMI/MK I-4E	96				Pasco	WA	10/3/2016 16 30				
MSRCNW	30801	30801	Boom	B2	Current Buster #4, System A	Current Buster #4		196	200		Neah Bay	WA	10/3/2016 17 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	30800	30801	Equipment	VH0	Current Buster #4, System A Tra	Trailer #S12					Neah Bay	WA	10/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7556	7558	Boom	B2	Shallow Water Barge 21	24"			60		Port Angeles	WA	10/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
MSRCNW	7557	7558	Skimmer Portable	SK3	Shallow Water Barge 21	Skimmer,GT-185	1371				Port Angeles	WA	10/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
MSRCNW	7558	7558	Storage	TB4	Shallow Water Barge 21	Shallow Water Barge		400			Port Angeles	WA	10/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
FOSS	7559	7558	Vessel	WB4	Shallow Water Barge 21	Work Boat 12-3 <29'				3	Port Angeles	WA	10/3/2016 17 30	Assigned	TF-06	MSRC/GDS	SA NT HELENS STAG NG
MSRCNW	7445	7593	Boom	B2	Trailer MSRC09, Boom, Qualted	18"			1500		Neah Bay	WA	10/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7446	30116	Boom	B2	Trailer MSRC26 Boom Qualted	18"			1500		Neah Bay	WA	10/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	3123	3122	Boom	B1	Trailer MSRC63, Boom, Cape C	42"			2000		Neah Bay	WA	10/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	3090	3089	Boom	B1	Trailer MSRC74, Boom, Kepner	42"			2000		Neah Bay	WA	10/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7547	7570	Vessel	WB4	Shallow Water Barge 51	Work Boat, WB-1 <29'				3	Bellingham	WA	10/3/2016 18 30	Assigned	TF-06	MSRC/GDS	LONGV EW STAGING
MSRCNW	7568	7570	Boom	B2	Shallow Water Barge 51	24"			60		Bellingham	WA	10/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
MSRCNW	7570	7570	Storage	TB4	Shallow Water Barge 51	Shallow Water Barge, non		400			Bellingham	WA	10/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
MSRCNW	24671	7570	Skimmer Portable	SK3	Shallow Water Barge 51	Skimmer, QME Tri	905				Bellingham	WA	10/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	10/3/2016 19 30	Assigned	TF-46 DIV G		SA NT HELENS STAG NG
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 19 30	Assigned	TF-47		SA NT HELENS STAG NG
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 19 30				SA NT HELENS STAG NG
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	10/3/2016 19 30				SA NT HELENS STAG NG
MSRCNW	30167	7500	Equipment	COM	Mobile Comms Support Equipme	Flatbed Trailer, 40'					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7481		Equipment	COM	Com,Hand Held Radio Package	Radios					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7500	7500	Equipment	COM	Mobile Comms Suite	Flatbed Trailer, 48'					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7501	7500	Equipment	COM	Mobile Comms Suite Sat packag	Sat system					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7535		Equipment	COM	Com,Portable Base Station & Re	Repeaters					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7536		Equipment	COM	Com Portable Internet Access	Internet access					Everett	WA	10/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW			Personnel	COM	Communications TECH	Communications Tech				5	Everett	WA	10/3/2016 20 00	Assigned		MSRC	Vancouver Staging
MSRCNW	7448		Skimmer Portable	SK2	Aardvac 800 Skimmer	Skimmer, Vacuum System	3840	13			Astoria	OR	10/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	7462		Skimmer Portable	SK2	Desmi Ocean Skimmer	Skimmer System	3017				Astoria	OR	10/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	24668		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Astoria	OR	10/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	7514	7518	Boom	B1	OSRV, Oregon Responder	67"			1320		Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7516	7518	Equipment	PTP	OSRV, Oregon Responder	Pump, CCN 150, 2200 gpm					Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7518	7518	OSRV	OSRV1	OSRV Oregon Responder	Skimmer Transrec	10567	4000	1320	10	Astoria	OR	10/3/2016 20 30	Assigned	TF-05	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7519	7518	Skimmer Portable	SK1	OSRV, Oregon Responder	Skimmer,STRESS Weir	15840				Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7520	7518	Vessel	WB4	OSRV Oregon Responder	Rigid Hull Boat 6m					Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7521	7518	Vessel	WB4	OSRV, Oregon Responder	Rigid Hull Boat, 6m					Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7522	7518	Vessel	WB3	OSRV, Oregon Responder	Workboat 32'				2	Astoria	OR	10/3/2016 20 30	Assigned	TF-05	MSRC	Vancouver Staging
MSRCNW	31077	7518	Boom	B2	OSRV, Oregon Responder	Current Buster #4, System C		196	200		Astoria	OR	10/3/2016 20 30	Assigned	TF-05		Vancouver Staging
NRCES	28226		Skimmer Portable	SK3	Brush, drum & disc Skimmer	Aqua-Guard RBS-10	662				Neah Bay	WA	10/3/2016 21 00				
MSRCNW	7548	7551	Boom	B2	Shallow Water Barge 133	24"			60		Anacortes	WA	10/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
MSRCNW	7549	7551	Equipment	SR0	Shallow Water Barge 133	Propulsion unit W/ Crane				3	Anacortes	WA	10/3/2016 21 30	Assigned	TF-05	MSRC/GDS	LONGV EW STAGING
MSRCNW	7550	7551	Skimmer Portable	SK4	Shallow Water Barge 133	Skimmer, QME Tri	905				Anacortes	WA	10/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING
MSRCNW	7551	7551	Storage	TB4	Shallow Water Barge 133	Shallow Water Barge, Self		400			Anacortes	WA	10/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	10/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	10/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
FOSS			TUG2		CONNOR FOSS	TUG BOAT - OSRB 404				5	ASTORIA	OR	10/3/2016 22 30		TF-10	FOSS	Vancouver Staging
MSRCNW	7513	7513	Storage	TB2	OSRB, 404	Tank Barge		40000		3	Astoria	OR	10/3/2016 22 30		TF-10	GDS TANK PIC	Vancouver Staging
MSRCNW	31220	7513	Boom	B1	OSRB, 404, EFC 67" Boom	67"			660		Astoria	OR	10/3/2016 22 30		TF-10		Vancouver Staging
NRCES			Personnel		40 hour haz techs and supervisors					110			10/4/2016 7 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
IOSA			Personnel							10			10/4/2016 7 00	Available			SA NT HELENS STAG NG
BAKER	30045		Wildlife	WR0	Trailer Wildlife Rehabilitation	Trailer 53' with lift gate and					Everett	WA	10/4/2016 7 00	Assigned			SA NT HELENS STAG NG
UNITED RENTALS			Skid Steers							4			10/4/2016 7 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
VOO			VOO	WB	JE McAmis #1	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-03	Self Crewed	Vancouver Staging
VOO			VOO	WB	JB-1	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-03	Self Crewed	Vancouver Staging
VOO			VOO	WB	JE McAmis #2	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-04	Self Crewed	Vancouver Staging
VOO			VOO	WB	Miss Molly	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-04	Self Crewed	Vancouver Staging
VOO			VOO	WB	George Allen	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-05	Self Crewed	Vancouver Staging
VOO			VOO	WB	Ken and Al	VOO WORKBOAT				2	Astoria	OR	10/4/2016 8 30	Assigned	TF-05	Self Crewed	Vancouver Staging
VOO			VOO	WB	Sandwick	VOO WORKBOAT				2	Portland	OR	10/4/2016 8 30	Available	TF-07	Self Crewed	Vancouver Staging
NWFFE			40 HR HAZWOPER		PERSONNEL	PERSONNEL SHOREL NE CU				100	Philomath	WA	10/4/2016 8 30	Assigned	TF-48/TF-49		Vancouver Staging
VOO			VOO	WB	Snipe	VOO WORKBOAT				2	Chinook	WA	10/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Lady Mary	VOO WORKBOAT				2	Chinook	WA	10/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Nauti-Lady	VOO WORKBOAT				2	Ilwaco	WA	10/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Pacific Venture	VOO WORKBOAT				2	Ilwaco	WA	10/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Four Seasons	VOO WORKBOAT				2	Ilwaco	WA	10/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
UNITED RENTALS			Back hoe		16'					1			10/4/2016 14 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
MSRCNW	7463		Skimmer Portable	SK2	Desmi Ocean Skimmer	Skimmer System	3017				Port Angeles	WA	10/4/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30130	7527	Skimmer Portable	SKP	OSRV, Park Responder	Skimmer, STRESS Weir	15840				Port Angeles	WA	10/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7523	7527	Boom	B1	OSRV Park Responder	67"			1320		Port Angeles	WA	10/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7527	7527	OSRV	OSRV1	OSRV, Park Responder	Skimmer, Transrec	10567	4000	1320	10	Port Angeles	WA	10/4/2016 14 30	Available	TF-07	MSRC/ARROW	SA NT HELENS STAG NG
MSRCNW	7529	7527	Vessel	WB4	OSRV, Park Responder	Rigid Hull Boat, 6m					Port Angeles	WA	10/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7530	7527	Vessel	WB4	OSRV, Park Responder	Rigid Hull Boat, 6m					Port Angeles	WA	10/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7531	7527	Vessel	WB3	OSRV, Park Responder	Workboat 32'				2	Port Angeles	WA	10/4/2016 14 30	Available	TF-07	MSRC/ARROW	SA NT HELENS STAG NG
UNITED RENTALS			Trash Pumps							6			10/4/2016 14 30	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
MSRCNW	24865	7527	Equipment	PTP	OSRV, Park Responder	Pump, CCN-150, 2200 gpm					Port Angeles	WA	10/5/2016 14 00	Available	TF-07		SA NT HELENS STAG NG
Clean Harbors			40 HR HAZWOPER			PERSONNEL SHOREL NE CU				200	National	US	10/6/2016 7 00			CLEAN HARBORS	Vancouver Staging

Ordered

Incident/Drill Name: Vancouver Energy Spill Drill #1 **Date:** 1/13/2016 11:24 **Prepared by:** MSRC

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA_A	AAAAAAAAAAAAA		
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #1		96			Vancouver	WA	10/3/2016 10:30	Assigned	TF-01		Vancouver Terminal
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #2		96			Vancouver	WA	10/3/2016 10:30	Assigned	TF-03		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #1	4,728				Vancouver	WA	10/3/2016 10:30	Assigned	TF-01		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #2	4,728				Vancouver	WA	10/3/2016 10:30	Assigned	TF-03		Vancouver Terminal
MSRCNW	30802	30802	OSRV	OSRV3	30-10, harbor skimmer 30'	Skimmer, Marco	3588	24		4	Portland	OR	10/3/2016 10:30	Assigned	TF-01	CCS	Vancouver Terminal
MSRCNW	3032	3032	Skiff	WB5	JAEGER	Seine Skiff, 18ft.				2	Astoria	OR	10/3/2016 10:30	Assigned	TF-06	MSRC	Vancouver Terminal
MSRCNW	7487	7487	Skiff	WB5	Jon Boat #4	JB, 15ft / 25hp				2	Astoria	OR	10/3/2016 10:30			MSRC	Vancouver Terminal
MSRCNW			SUPERVISOR		MSRC SUPERVISOR					1	Astoria	OR	10/3/2016 10:30				Vancouver Terminal
MSRCNW	3026	7451	Boom	B2	Trailer MSRC02, Boom, Kepner	20"			1200		Astoria	OR	10/3/2016 10:30	Assigned	TF-42 DIV J		Vancouver Terminal
CCSPNE	24871		Storage	VT1	PT-53 Tanker (WA 5941YB)	1979 Stemco Thompson 120		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	24872		Storage	VT1	PT-59 Tanker (WA 6886LS)	1987 Spen Semi-Trailer 120 I		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25100		Storage	VT1	PT-49 Tanker (WA 9754RO)	1995 Polar 42' with Certified		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25101		Storage	VT1	PT-51 Tanker (WA 8666TI)	1982 Trailmaster Tanker Non		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25102		Storage	TT1	PT-54 Tanker (WA 0057SV)	1981 Proco Tank Trailer		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25104		Storage	TT1	PT-55 Tanker (WA 2640XY)	1993 SPCNS Tank Trailer		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-41 DIV B	CCS	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 10:30	Assigned	TF-02	HILLSBORO	Vancouver Staging
CRC	29031	29141	Vessel	WB3	FRV Protector	34' Munson (includes boom fi				2	Astoria	OR	10/3/2016 10:30	Assigned	TF-21	CRC/NRC	Vancouver Terminal
CRC	29034	29145	OSRV	OSRV3	OSRV MFSA 1	34' Kvichak W/ Marco Belt Sk	3720	24		2	Portland	OR	10/3/2016 10:30	Assigned	TF-22 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29035	29144	OSRV	OSRV3	OSRV Clean Rivers 1	34' Kvichak w/ Marco Belt Sk	3720	24		2	Portland	OR	10/3/2016 10:30	Assigned	TF-20 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29039		Vessel	WB4	20' Workboat	20' Alumaweld I w/115 hp				1	Portland	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29049	29049	Equipment	VH0	Boom Trailer	45' Trailer (includes boom fro					Vancouver	WA	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29050	29050	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100		2	Vancouver	WA	10/3/2016 10:30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29054	29054	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Portland	OR	10/3/2016 10:30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29133		Boom	B3	12" Boom	American Marine			3000		Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29157		Vessel	WB4	20' Workboat	20' Alumaweld II w/90 hp				1	Portland	OR	10/3/2016 10:30	Assigned	TF-44 DIV G	CRC/NRC	Vancouver Terminal
CRC	29172		Equipment	COM	Command & Communications T	53' Specialty Trailer - Comma				1	Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29180	29180	Equipment	VH0	Boom Trailer	48' Trailer					St. Helens	OR	10/3/2016 10:30	Assigned	TF-23	CRC/NRC	Vancouver Terminal
CRC	29182	29182	Shoreline	TR0	Shoreline Cleanup Trailer	30' Blazer Trailer					Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29192		Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	31771		Shoreline	TRO	Shoreline Clean-up Trailer	100 Man Shoreline Clean-up				1	Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29055	29055	OSRV	OSRV3	Shallow Water Recovery Barge	30' American Eagle w/ Lori S	2473	100	400	2	Clatskanie	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29053	29053	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Portland	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29052	29052	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100	400	2	Astoria	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29057	29057	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Longview	WA	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
MSRCNW	30751	7562	Equipment	VH0	Shallow Water Barge 23	Trailer #B18 WB-29 Trailer					Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7511	7562	Equipment	PTP	Shallow Water Barge 23	Pump, DOP 250, 440 gpm					Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	29594	7562	Skimmer Portable	SK3	Shallow Water Barge 23	Skimmer, QME Tri	905				Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7555	7562	Vessel	WB4	Shallow Water Barge 23	Work Boat, WB-29 <29'				4	Portland	OR	10/3/2016 11:30	Assigned	TF-01	MSRC/TONGUE PT	Vancouver Terminal
MSRCNW	7560	7562	Boom	B2	Shallow Water Barge 23	24"			60		Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7562	7562	Storage	TB4	Shallow Water Barge 23	Shallow Water Barge, non		400			Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	24950	3025	Boom	B2	Trailer MSRC57,Boom, Kepner	20"			1500		Portland	OR	10/3/2016 11:30				Vancouver Staging
MSRCNW	7499	30117	Boom	B2	Trailer MSRC64, Medium Fence	24"			2000		Portland	OR	10/3/2016 11:30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A	BAKER	Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30				Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30				Vancouver Staging
MSRCNW	3150	3150	Skiff	WB5	Jon Boat #7	Jon Boat #7				2	Tacoma	WA	10/3/2016 12:00	Assigned	TF-41 DIV B	MSRC	Vancouver Staging
MSRCNW	3152	3152	Skiff	WB5	SNIPE	Seine Skiff, 18ft.				2	Tacoma	WA	10/3/2016 12:00	Assigned	TF-06	MSRC	Vancouver Staging
MSRCNW	3137	3136	Boom	B3	Trailer MSRC60, Boom, Acme	12"			3500		Tacoma	WA	10/3/2016 12:00				Vancouver Staging
MSRCNW	3139	3138	Boom	B2	Trailer MSRC70, Boom, Acme	30"			4000		Tacoma	WA	10/3/2016 12:00				Vancouver Staging
MSRCNW	7482		Boom	B2	Boom, Intertidal	26"			2000		Astoria	OR	10/3/2016 12:30				Vancouver Staging
MSRCNW	7494		Boom	B2	Boom, Medium Fenceboom	24"			2000		Astoria	OR	10/3/2016 12:30				Vancouver Staging
MSRCNW	3004	3003	Boom	B2	Trailer MSRC40, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12:30	Assigned	TF-20		Vancouver Staging
MSRCNW	2970	2969	Boom	B2	Trailer MSRC41, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12:30	Assigned	TF-20		Vancouver Staging
MSRCNW	3128	3127	Boom	B2	Trailer MSRC45, Boom, Acme	18"			3500		Seattle	WA	10/3/2016 12:30				Vancouver Staging
CCSPNE	1428		Storage	VT2	#55 Liquid Vacuum Truck (WA 3	1987 Kenworth Liquid Vacuu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1436		Storage	VT2	#62 Liquid Ring/Vacuum Truck (	1990 Freightliner Ace Liquid F		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1437		Storage	VT2	#63 Air Mover/Vacuum Truck (W	1994 Ford Guzzler Ace Vacu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1438		Storage	VT2	#65 Combo Truck [Jet Rod/Vac]	2005 Sterling Combo Truck M		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1439		Storage	VT2	#69 Air Mover/Vacuum Truck (W	1994 Kenworth/Vactor Vacuu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CRC	29029	29154	Vessel	WB3	FRV Columbia Responder	32' Kvichak (includes boom fi				2	St.Helens	OR	10/3/2016 12:30	Available	TF-30	CRC/NRC	LONGVIEW STAGING
CRC	29030	29132	Vessel	WB3	FRV Independence	32' Browns (includes boom fr				2	Longview	WA	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29032	29143	OSRV	OSRV3	OSRV HW Zarling	34' Kvichak W/ Marco Belt sk	3720	24		2	Rainier	OR	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging

Ordered

							189,607	95,764	140,630	716								
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA A	AAAAAAAAAAAAAA		
CRC	29033	29142	OSRV	OSRV3	OSRV Mark O. Hatfield	34' Kvichak W/ Marco Belt sk	3720	24		2	Cathlamet	WA	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29038		Vessel	WB4	21' Workboat	21' Boston Whaler w/150 hp				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned	SCAT 4	CRC/NRC	Vancouver Staging
CRC	29040		Vessel	WB4	Elizabeth Furse	27' Allday				2	Linnton (KM)	OR	10/3/2016 12:30	Assigned	TF-06	CRC/NRC	Vancouver Staging
CRC	29114		Skimmer Portable	SK4	Ro-Clean Rope Mop Skimmer	Hatz Diesel	30				Portland	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29121		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29122		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29123		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29132	29030	Boom	B3	14" Boom	American Marine (includes W			1500		Longview	WA	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29139	29180	Boom	B2	20" Boom	American Marine (includes W			5000		St. Helens	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29142	29033	Boom	B2	20" Boom	American Marine (includes W			1100		Portland	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29143	29032	Boom	B2	20" Boom	American Marine (includes W			1000		Rainier	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29154	29029	Boom	B3	12" Boom	American Marine (include WF			2000		St. Helens	OR	10/3/2016 12:30	Assigned	TF-30	CRC/NRC	LONGVIEW STAGING
CRC	29163	29163	Wildlife	WR0	Wildlife Transport Trailer	32' Climate Control Cargo Tra				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
CRC	29046	29170	Wildlife	WR0	Wildlife Rehabilitation Shelter	19' x 35' Western Shelters Ga					Portland	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
CRC	29170	29170	Wildlife	WR0	Wildlife Rehabilitation Trailer	48' Specialty Trailer - Wildlife				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
NRCES	28261		OSRV	OSRV3	Trailer 6169, Belt Skimmer Vess	Marco/IC	3588	30		2	Portland	OR	10/3/2016 12:30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28262		OSRV	OSRV3	Belt Skimmer Vessel	Marco/I-I	3588	30		2	St Helens	OR	10/3/2016 12:30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28541		Vessel	WB4	JETCRAFT 6464 (#9)	Workboat 20'				2	Portland	OR	10/3/2016 12:30	Assigned	TF-24	NRCES	Vancouver Staging
NRCES	28545		Vessel	WB4	Monarch 6016	Workboat 18'				1	Portland	OR	10/3/2016 12:30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	28575	28575	Vessel	WB3	Raider 6028	Response Vessel 34'				2	Portland	OR	10/3/2016 12:30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	30314		Vessel	WB3	FRV Next Generation	36' Munson				2	Clatskanie	OR	10/3/2016 12:30	Assigned	TF-21 / TF-25	NRCES	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-60 DIV A	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-61 DIV B	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-62 DIV XX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-63 DIV D	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-64 DIV ZZ	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-65 DIV BX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-66 DIV UU	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-67 DIV BI	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-68 DIV J	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-69 DIV SS	CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					2			10/3/2016 12:30			CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					1			10/3/2016 12:30			CTEH	Vancouver Staging
TBL			Vessel	TUG2	BOB CARLSON					5			10/3/2016 12:30	Assigned	TF-10	TBL	
TBL	31637		Storage	TB2	Barge Atlas	272' x 42' x 17'		23000			Vancouver	WA	10/3/2016 12:30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28263		OSRV	OSRV4	Belt Skimmer Vessel (6059)	Marco/1C, #1	3588	30		2	Seattle, South Pa	WA	10/3/2016 12:30	Assigned	TF-04		
NRCES	28264		OSRV	OSRV4	Belt Skimmer Vessel (6060)	Marco/1C, #2	3588	30		2	Seattle, South Pa	WA	10/3/2016 12:30	Assigned	TF-04		
MSRCNW	24952	24952	OSRV	OSRV3	MERLIN	Skimmer, Marco	3588	28		2	Everett	WA	10/3/2016 13:30	Assigned	TF-02	MSRC	SAINT HELENS STAGING
MSRCNW	3030	3030	OSRV	OSRV3	PEREGRINE	Skimmer, Marco	3588	28		2	Everett	WA	10/3/2016 13:30	Assigned	TF-02	MSRC	SAINT HELENS STAGING
MSRCNW	3119	3118	Boom	B1	Trailer MSRC62, Boom, Cape C	42"			2000		Richmond Beach	WA	10/3/2016 13:30				Vancouver Staging
MSRCNW	3125	3124	Boom	B2	Trailer MSRC68, Boom, Acme	30"			2000		Richmond Beach	WA	10/3/2016 13:30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 13:30			BAKER	LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
NRCES	28229		Skimmer Portable	SK4	Rope Mop	OMI/MK II-4VE	96				Portland	OR	10/3/2016 13:30				
NRCES	28231		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13:30				
NRCES	28234		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13:30				
NRCES	28254		Skimmer Portable	SK4	Wier Skimmer	2" Skim-pak	178				Portland	OR	10/3/2016 13:30	Assigned	TF-47		
NRCES	28230		Skimmer Portable	SK4	Rope Mop	CSI/Model II-A3	288				Portland	OR	10/3/2016 13:30	Assigned	TF-47		
NRCES	28218		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13:30	Assigned	TF-43 DIVB		
NRCES	28219		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13:30	Assigned	TF-43 DIVB		
CRC	29044		Skiff	WB5	16' Skiff	16' Skiff w/25 hp				1	Linnton (KM)	OR	10/3/2016 13:30	Assigned	TF-28	CRC/NRC	
CRC	29045		Skiff	WB5	16' Skiff	16' Skiff w/ 25hp				1	Clatskanie	OR	10/3/2016 13:30	Assigned	TF-28	CRC/NRC	
CRC	30499		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13:30	Assigned	TF-27	CRC/NRC	
CRC	30500		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13:30	Assigned	TF-26	CRC/NRC	
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14:00	Assigned	SCAT	HILLSBORO	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14:00	Available	TF-07	HILLSBORO	Vancouver Staging
MSRCNW	7571	7571	Vessel	WB4	17-3	Work Boat, 17-3 <29'				3	Everett	WA	10/3/2016 14:30	Assigned	TF-04	ASSIGNED TO SWE	SAINT HELENS STAGING
MSRCNW	30329		Skimmer Portable	SK2	Crucial Skimmer C-Disc 56/30	Skimmer, Disc	5671				Everett	WA	10/3/2016 14:30	Assigned	TF-40		SAINT HELENS STAGING
MSRCNW	31075	31075	Boom	B2	Current Buster #4, System B	Current Buster #4		196	200		Everett	WA	10/3/2016 14:30	Assigned	TF-04		SAINT HELENS STAGING
MSRCNW	3062		Skimmer Portable	SK2	Destroil 250, Skimmer	Skimmer, weir	2914				Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	3045	3044	Equipment	SR0	Destroil DS-150, Power Pack	HPU, diesel hydraulic					Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	3044	3044	Skimmer Portable	SK4	Destroil DS-150, Skimmer	Skimmer, weir	754				Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	7545		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	7561		Skimmer Portable	SK3	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAA A	AAAAAAAAAAAAAA		
MSRCNW	7569		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	7489	7489	Skiff	WB5	Jon Boat #2	JB, 15ft / 15hp				2	Everett	WA	10/3/2016 14:30	Assigned	SCAT 1	MSRC	SAINT HELENS STAGING
MSRCNW	3010	3011	Equipment	SR0	Morris, Power Pack,Diesel Amer	HPU, diesel hydraulic					Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	3011	3011	Skimmer Portable	SK4	Morris, Skimmer, MI-11/24	Skimmer,Disk	206				Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	3043	3011	Storage	PS4	Morris, Tank, Portable	Buoywall Tank		14			Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	7490	7490	Vessel	WB4	Response 5	Work Boat, 28'				2	Everett	WA	10/3/2016 14:30	Assigned	SCAT 2	MSRC	SAINT HELENS STAGING
MSRCNW	3036	3034	Equipment	SR0	Rope Mop #1, Generator, Portab	Portable Generator Diesel					Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3034	3034	Skimmer Portable	SK4	Rope Mop #1, Skimmer, MI-14E	Skimmer, Rope Mop	48				Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3035	3034	Storage	PS4	Rope Mop #1, Tank, Portable	Plastic Fish Box		4			Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	30987	7554	Equipment	PTP	Shallow Water Barge 19	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7552	7554	Boom	B2	Shallow Water Barge 19	24"			60		Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7553	7554	Skimmer Portable	SK3	Shallow Water Barge 19	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7554	7554	Storage	TB4	Shallow Water Barge 19	Shallow Water Barge, non		400			Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7567	7554	Vessel	WB4	Shallow Water Barge 19	Work Boat, WB-28 <29'				4	Astoria	OR	10/3/2016 14:30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7563	7566	Vessel	WB4	Shallow Water Barge 25	Work Boat, WB-30 <29'				4	Astoria	OR	10/3/2016 14:30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7564	7566	Boom	B2	Shallow Water Barge 25	18"			60		Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7566	7566	Storage	TB4	Shallow Water Barge 25	Shallow Water Barge, non		400			Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7480	7566	Skimmer Portable	SK3	Shallow Water Barge 25	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	29593	7566	Equipment	PTP	Shallow Water Barge 25	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7586	7586	Skimmer Portable	SK1	STRESS Skimmer	Pump, CCN 150	15840				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	30048	3075	Boom	B3	Trailer MSRC20, Boom, Acme	6"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	24758	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			1650		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7483	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7495	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7496	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7573	7573	Equipment	VH0	Trailer Support	Equipment Cache					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30315	7573	Boom	B3	Trailer Support, Boom Acme	6"			600		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7486	7573	Skiff	WB5	Trailer Support, Jon Boat #1	JB, 14ft / 15hp					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30990	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30991	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	31489	7573	Storage	PS4	Trailer Support, Tank, Fastank	Open top storage tank		57		1	Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
CCSPNE	1499		Storage	VT2	A8 Air Mover/Vacuum Truck (WA	1994 Ford Master Vacuum		80		1	Aberdeen	WA	10/3/2016 14:30	Assigned	TF-43 DIVB	CCSPNE	LONGVIEW STAGING
CCSPNE	1500		Storage	VT2	A7 Air Mover/Vacuum Truck (WA	1988 Ford Vactor Vacuum		80		1	Port Townsend	WA	10/3/2016 14:30	Assigned	TF-43 DIVB	CCSPNE	LONGVIEW STAGING
CCSPNE	24701		Storage	VT2	#61 Air Mover/Vacuum Truck (O	1999 Int'l Truck with Guzzler		80		1	Portland	OR	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24702		Storage	VT2	#64 Air Mover/Vacuum Truck (W	2005 Sterling Vacuum Truck		80		1	Longview	WA	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24703		Storage	VT2	#67 Liquid Vacuum Truck (OR Y	1994 International 80 bbl Liqu		80		1	Portland	OR	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24705		Storage	VT2	#68 Liquid Vacuum Truck (WA 0	1997 Freightliner 80 bbl Liqui		80		1	Longview	WA	10/3/2016 14:30	Assigned	TF-42 DIV J	CCSPNE	LONGVIEW STAGING
TBL				TUG2	GLENDALE					5	Wauna	WA	10/3/2016 14:30	Assigned	TF-10	TBL	Vancouver Staging
TBL	30972		Storage	TB2	Barge #2	242' x 42' x 16.6'		18000			Wauna	WA	10/3/2016 14:30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28212	28420	Skimmer Portable	SK4	Disc Skimmer/ Power Pack	Vikoma Kebab K-4	36				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28214		Skimmer Portable	SK2	Trailer Pier 90, Brush Skimmer	Lamor/OPC2	3019				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28222		Skimmer Portable	SK4	Wier Skimmer (7310)	Manta 3, portable	1032				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28228		Skimmer Portable	SK4	Rope Mop (5052)	OMI/MK II-4VE	96				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28248		Skimmer Portable	SK4	Wier Skimmer (3280)	2" Skimpak (4300)	178				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28251		Skimmer Portable	SK3	Wier Skimmer (4168)	Foilex 150	1131				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		
NRCES	28258		Skimmer Portable	SK2	Wier Skimmer (6370)	Vikoma Cascade	5465				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28493		Skiff	WB5	Lund Skiff 6504	Workboat 12' - (LS) Green				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28495		Skiff	WB5	Lund Skiff 6216	Workboat 12'				2	Portland	OR	10/3/2016 14:30	Assigned	TF-43 DIVB		
NRCES	28498		Skiff	WB5	Lund Skiff 6537	Workboat 14'				2	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28499		Skiff	WB5	Lund Skiff 6017	Workboat 12'				2	Portland	OR	10/3/2016 14:30				
NRCES	28500		Skiff	WB5	Lund Skiff 6319	Workboat 14'				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28501		Skiff	WB5	Greenwater Skiff 6025	Workboat 12'				2	Portland	OR	10/3/2016 14:30				
NRCES	28532		Vessel	WB4	Green Lund #2	Workboat 20', 60hp				2	Pasco	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28533		Vessel	WB4	Green Lund #4	Workboat 20' / 75 HP				2	Spokane	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28534		Vessel	WB4	Green Lund # 5	Workboat 20', 75 HP Mercury				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28485		Skiff	WB5	Lund Skiff 6200	Workboat 12'				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-33		LONGVIEW STAGING
NRCES	28486		Skiff	WB5	Lund Skiff 6611	Workboat 12'				2	Seattle, Pier 90	WA	10/3/2016 14:30	Assigned	TF-34		
NRCES	28487		Skiff	WB5	Lund Skiff 6430	Workboat 12' 15hp outboard				2	Seattle, Pier 90	WA	10/3/2016 14:30	Assigned	TF-31		CLATSKANIE
NRCES	28488		Skiff	WB5	Lund Skiff 6503	Workboat 14' - (SS) Green				2	Anacortes	WA	10/3/2016 14:30	Assigned	TF-32		CLATSKANIE
NRCES	28489		Skiff	WB5	Lund Skiff 6214	Workboat 14' - (SS) 15hp				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-33		LONGVIEW STAGING
NRCES	28255	28571	Skimmer Portable	SK4	Weir Skimmer (Sea Wolf)	2" Skim-pak	178				Port Townsend	WA	10/3/2016 14:30	Assigned	TF-47		
NRCES	28324		Storage	VT1	Trailer 3135, Vacuum	PersVac, 120 bbls	686	120			Portland	OR	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28325		Storage	VT1	Vacuum Trailer (3181)	PersVac, 120 bbls	686	120			Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28337		Storage	VT2	Vacuum Truck (2054)	Thompson, 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28338		Storage	VT2	Vacuum Truck (2055)	Thompson, 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28339		Storage	VT2	Vacuum Truck (2058)	Thompson T800 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-47		
NRCES	28350		Storage	VT1	Trailer 3369, Vacuum	Dragon Products, 130 bbl		130			Portland	OR	10/3/2016 14:30	Assigned	TF-47		
CRC	29,114			SK4	RO CLEAN ROPE MOP	30 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28,229			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA A	AAAAAAAAAAAAAA		
NRCES	28,231			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28,234			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
MSRCNW	3055	3054	Equipment	SR0	Aquaguard #1, Power Pack Hydr	HPU, 4.8 hp.					Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	3056	3054	Equipment	PTP	Aquaguard #1, Pump, Diesel	Pump, 50 gpm diaphram					Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	3054	3054	Skimmer Portable	SK4	Aquaguard #1, Skimmer, RBS-5	Skimmer,brush/disk/drum	360				Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	24669	24669	OSRV	OSRV3	AUKLET, 28' harbor skimmer	Skimmer, Marco	3588	12		2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-04	MSRC	SAINT HELENS STAGING
MSRCNW	3155		Boom	B2	Boom, Acme	18"			1700		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2992	2992	Skiff	WB5	EGRET	Seine Skiff, 18ft.				2	Anacortes	WA	10/3/2016 15:30	Assigned	SCAT 3	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	24757	24757	Skiff	WB5	Jon Boat #3	JB, 15ft / 20hp				2	Bellingham	WA	10/3/2016 15:30	Assigned	TF-20	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	2994	2994	Skiff	WB5	Jon Boat #5	Jon Boat #5				2	Anacortes	WA	10/3/2016 15:30	Assigned	TF-20	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	3107	3107	Skiff	WB5	Jon Boat #6	John Boat #6				2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-22	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	3039	3037	Equipment	SR0	Rope Mop #2, Generator, Portab	Portable Generator Diesel					Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3037	3037	Skimmer Portable	SK4	Rope Mop #2, Skimmer, MI-14E	Skimmer, Rope Mop	48				Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3038	3037	Storage	PS4	Rope Mop #2, Tank, Portable	Plastic Fish Box		4			Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	7484	30115	Boom	B2	Trailer MSRC05, Intertidal Boom	26"			2000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	7498	30115	Boom	B2	Trailer MSRC05, Medium Fence	24"			2000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	3092	3091	Boom	B2	Trailer MSRC42, Boom, Kepner	20"			1000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2986	2985	Equipment	VH0	Trailer MSRC43	Trailer, PS#1					Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2985	2985	Storage	TB4	Trailer MSRC43, PS #1 & #2 Mir	Barge Mini		220			Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2988	2985	Equipment	VH0	Trailer MSRC44	Trailer, PS#2					Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2972	2971	Boom	B2	Trailer MSRC65, Boom, Acme	30"			4160		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2974	2973	Boom	B2	Trailer MSRC66, Boom, Acme	18"			2900		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	3088	3087	Boom	B2	Trailer MSRC73, Boom, Acme	30"			3200		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2976	2975	Boom	B2	Trailer MSRC75, Boom, Acme	20"			4500		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2978	2977	Boom	B2	Trailer MSRC76, Boom, Acme	30"			4000		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	3110	3110	Skiff	WB5	WILLET	Seine Skiff, 18ft.				2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-22	MSRC	LONGVIEW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-41 DIV B		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	10/3/2016 15:30	Assigned			Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
CRC	29177	29177	Equipment	VH0	Boom Trailer	48' Trailer			5000		Longview	WA	10/3/2016 15:30				
CRC	29131	29177	Boom	B2	20" Boom	American Marine			5000		Longview	WA	10/3/2016 15:30				
CRC	29185	29185	Equipment	VH0	Boom Trailer	48' Trailer					Clatskanie	OR	10/3/2016 15:30				
CRC	29140	29185	Boom	B2	20" Boom	American Marine (includes W			5000		Clatskanie	OR	10/3/2016 15:30				
CRC	29179	29179	Equipment	VH0	Boom Trailer	48' Trailer					Longview	WA	10/3/2016 15:30				
CRC	29129		Boom	B2	20" Boom	American Marine			4200		Longview	WA	10/3/2016 15:30				
NRCES	28215		Skimmer Portable	SK3	Brush/DrumSkimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28216		Skimmer Portable	SK3	Brush/Drum Skimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28260	28574	Skimmer Portable	SK3	Brush/Drum Skimmer (Respons	Aqua-Guard/RBS-10	662				Seattle, Fisherm	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28225		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Anacortes	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28223		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Port Angeles	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
CRC	29174	29174	Equipment	VH0	Boom Trailer	48' Trailer					Astoria	OR	10/3/2016 16:00				
CRC	29125	29174	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	10/3/2016 16:00				
CRC	29138	29176	Boom	B2	20" Boom	American Marine (includes W			2500		Skamokawa	WA	10/3/2016 16:00				
CRC	29176	29176	Equipment	VH0	Boom Trailer	28' Trailer (miscellaneous bo					Skamokawa	WA	10/3/2016 16:00				
CRC	29184	29184	Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 16:00				
CRC	29135	29184	Boom	B2	20 ' Boom	American Marine			5000		Astoria	OR	10/3/2016 16:00				
GDS					40 HOUR HAZWOPER TECHS	PERSONNEL				41	SEATTLE	WA	10/3/2016 16:30				Vancouver Staging
MSRCNW	7544	7546	Boom	B2	Shallow Water Barge 123	24"			60		Tacoma	WA	10/3/2016 16:30	Assigned	TF-04	MSRC/GDS	Vancouver Staging
MSRCNW	7546	7546	Storage	TB4	Shallow Water Barge 123	Shallow Water Barge, non		400			Tacoma	WA	10/3/2016 16:30	Assigned	TF-04	SEE 17-3	Vancouver Staging
MSRCNW	24672	7546	Skimmer Portable	SK3	Shallow Water Barge 123	Skimmer, QME Tri	905				Tacoma	WA	10/3/2016 16:30	Assigned	TF-04		Vancouver Staging
MSRCNW	3079	3078	Boom	B2	Trailer MSRC17, Boom, Acme	30"			4000		Ferndale	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	3022	3021	Boom	B2	Trailer MSRC27, Boom, Acme	30"			4000		Blaine	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	7497	24951	Boom	B2	Trailer MSRC52, Medium Fence	24"			2000		Ferndale	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	3024	3023	Boom	B2	Trailer MSRC77, Boom, Acme	18"			3200		Blaine	WA	10/3/2016 16:30				LONGVIEW STAGING
NRCES	28227		Skimmer Portable	SK4	Rope Mop (6147)	OMI/MK I-4E	96				Pasco	WA	10/3/2016 16:30				
MSRCNW	30801	30801	Boom	B2	Current Buster #4, System A	Current Buster #4		196	200		Neah Bay	WA	10/3/2016 17:30	Available	TF-07		SAINT HELENS STAGING
MSRCNW	30800	30801	Equipment	VH0	Current Buster #4, System A Tra	Trailer #S12					Neah Bay	WA	10/3/2016 17:30				SAINT HELENS STAGING
MSRCNW	7556	7558	Boom	B2	Shallow Water Barge 21	24"			60		Port Angeles	WA	10/3/2016 17:30	Assigned	TF-06		SAINT HELENS STAGING

PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Tank 001 Leak **DATE PREPARED: January 4, 2016**

OPERATIONAL PERIOD: 0800 10 3 16 to 10 4 16 (24 hour period)

Incident Waste Management & Disposal Plan

APPROVED BY:

RPIC	**DATE**
FOSC	**DATE**
SOSC	**DATE**
LOSC	**DATE**
TRIBAL REPRESENTATIVE (If Applicable)	**DATE**

COMMENTS:

INCIDENT WASTE MANAGEMENT & DISPOSAL PLAN

Disposal Plan for Oil Spills in Washington State

Vancouver Energy Tank 001 Spill
(Incident Name)

Responsible Party:	**Vancouver Energy**
Spilled Material:	**Bakken Crude Oil**
Spill Volume (estimate):	385,000 Barrels (worst case)
Spill Location:	Tank 001
Spill Date/Time:	10-03-2016
Report Update Time:	10-3-16 @ 1000

Disposal Plan Authorization

This Incident Waste Management & Disposal Plan has been written at the request of the USCG and the Washington State Department of Ecology. The responsible party (Vancouver Energy) will recover the maximum feasible amount of oil spilled during the above named incident. In addition, an unknown quantity of oily waste debris (including plastics, sands, river debris, etc.) will be recovered. When disposing of this material, the responsible party will abide by all applicable state, local and federal laws and regulations. Disposed material will be tracked to provide an accurate means of estimating total oil recovered. *Each section of this incident-specific disposal plan addresses and corresponds with the waste disposal "Guideline" found in 9620 of NWACP*.

This plan may be amended as necessary to ensure compliance with all applicable laws and regulations. Amendment may occur only upon mutual agreement of the responsible party, the Federal OSC (USCG/EPA), and/or the State OSC (WDOE).

Submitted By: Jeff Baker Planning, Dept. EUL Date: 10-3-2016

Approved by SOSC: _____ Date: _____

Reviewed by USCG/EPA: _____ Date: _____

Approved by Responsible Party: _____ Date: _____

Approved by Local Government Representative(s) (Optional):

_____ Date: _____

_____ Date: _____

SECTION I WASTE HANDLERS

The following licensed transporters and approved treatment and disposal facilities are to be used for waste handling and disposition. All waste handlers have read and are working in accordance with this plan.

Name of Company	Disposal Functions	Company Representative
Safety-Kleen (Clean Harbors) 16540 SE 130th Ave, Clackamas, OR 97015 Phone: (503) 655-5798	Transportation	503-655-5798 800-669-5740
Waste Management Columbia Ridge Recycling and Landfill 18177 Cedar Springs Lane Arlington, OR 97812	Disposal/Recycling	541- 454-2030
Chemical Waste Management Hazardous Waste Facility 17629 Cedar Springs Lane Arlington, OR 97812	Disposal/Recycling	800-963-4776
Oil Re-Refining Company, Inc. 4150 N Suttle Road, Portland, OR	Oil Recycling	503-286-5027
Thermo Fluids 12533 SE Carpenter Drive Clackamas OR 97015	Recovery/Recycling	800.350.7565

SECTION II DESIGNATION

The Waste Management Specialist will make proper waste classification and arrangements for transportation or further treatment at the staging areas:

1. SA-1 Port of Vancouver, WA (First Operational Period), see Figure ____
2. SA-2 City of St. Helens, OR (Second Operational Period) Near River Mile 47, see Figure ___
3. *SA-3* Port of Longview, WA (Third Operational Period) see Figure ___

The spilled material was deemed **non-hazardous waste** based on the following testing, waste profiles, or operator knowledge:

Bakken Crude Oil (BCO) contains a sizable portion of gasoline range petroleum hydrocarbons, which will evaporate off in the initial phases of spill recognition and response. The remaining portion of BCO will display TPH diesel and longer-chain hydrocarbons, which are not considered hazardous.

Operator Knowledge is basis of determination.

SECTION III INTERIM WASTE STORAGE, SEGREGATION and TRACKING

A. INTERIM STORAGE OF SOLID MATERIAL

Interim waste storage of solid waste and debris collected during the recovery and cleanup operations will be staged in **Interim Waste Storage Area No. 1, (SA-1)** located on Port of Vancouver property. Proper waste classification, segregation, and packaging in addition to making arrangements for recycling, treatment, or disposal will be managed at each Storage Area.

See Figure _____ for Waste Storage Area locations. Refer to Figure ___ "Schematic Drawing of Waste Staging Area" for area setup. Each Waste Staging Area will be approximately 100' by 100' with perimeter containment berms approximately 1-foot high.

Perimeter containment can be constructed of easily available material: railroad ties, lumber (2" x 4" or 2" x 10"), 8" x 16" cinder blocks or hay bales. Visqueen or any pit liner material joined by duct tape and draped over railroad ties or similar will provide sufficient containment.

The area beneath each Waste Storage Area will be inspected, and if needed, investigated to ensure no impacts are left behind.

See attached **Waste Staging Area Material/Supplies Order** list for materials required to construct a typical **Area.**

B. SEGREGATION

Various types of wastes will be generated during the response to this spill. Each waste type will require different disposal methods. To facilitate the disposal of wastes, all waste materials should be segregated by type for temporary storage and/or transport.

As oil is recovered, it should be placed in sealable containers: 5 gallons cans with lids or caps, 55-gallon drums, portable tanks, tank trucks, or any other container that can be sealed to prevent spillage.

Oiled solid wastes should be placed in leak-proof containers to prevent leakage during handling and transportation. Double walled clear (for ease of identifying contents) plastic bags should be used for this purpose. For larger materials or those which could penetrate the bags, debris boxes or similar containers could be used as long as they are lined with plastic or by some other means to prevent leakage. Lined waste bins and lined dump truck beds may also be used for collection of oiled solid wastes. To the extent possible, efforts should be made to commingle similar types of recovered organic, response material and PPE/non-sorbent debris. For example segregate/commingle:

- Oiled organic debris: wood, aquatic vegetation, etc.
- Oil sorbent material: oil snares, pads and booms
- PPE and other typically non-sorbent materials

D. TRACKING

The on-site Waste Management Specialist will properly classify, inventory and document waste recovery, as well as make arrangements for transportation or further treatment at the each waste staging area on a daily basis. Tracking and inventory will document the amount of oiled material recovered each day throughout the response. Recovered Oil Quantification will be managed and documented concurrently with tracking oiled debris.

E. DECANTING

Decanting authorization form (if approved) should be attached.

☐ APPROVED ☐ DENIED ■ NOT REQUESTED

SECTION IV DECONTAMINATION

(See Attached TESORO DECONTAMINATION PLAN and Figure for further information.)

SECTION V ANIMAL CARCASSES

Oil Affected Wildlife Management Plan is in preparation.

SECTION VI WASTE DISPOSITION and FINAL DISPOSITION

(see ICS Form 209 for Final Waste Status Summary)

TYPE	Recovered	Stored	Disposed of
Oil (bbl)			
Oily Liquids (bbl)			
Oily Solids (tons)			
Solids (tons)			

(See TESORO RECOVERED OIL AND OIL WATER MANAGEMENT PLAN and TESORO RECOVERED OIL QUANTIFICATION PLAN for further information.)

A. RECOVERABLE OIL

1.1. FEDERAL NATURAL RESOURCES DAMAGE ASSESSMENT OIL RECOVERY CREDIT PROCEDURES; WASHINGTON STATE OIL RECOVERY COMPENSATION SCHEDULE

The amount of spilled oil recovered during cleanup operations must be estimated. The amount of free oil, oily water, oil recovered from absorbents and decontamination water, and oil trapped in contaminated soil will be estimated separately. Materials identified as contributing to the total recovered hydrocarbons include, but are not limited to, oil collected in skimming tanks, oil from decontamination procedures, recovered oil tar balls, oily absorbents, oily debris, and oiled personal protective equipment (PPE) such as gloves and coveralls. Table 1 in the attached "RECOVERED OIL QUANTIFICATION PLAN" should be used to document the total amount of oil recovered in a given spill response. The Federal NRDA guidelines for recovery credit will be used as the primary reference for a release of this size. (See also Washington Department of Ecology document "Compensation Schedule Credit for Oil Recovery, RDA Committee Resolution 96-1." Tesoro's Recovered Oil Quantification Plan is included as Attachment 2 to this report.) Two representatives from the Department of Ecology may be present at each waste storage area (refinery effluent plant, and refinery bundle pad) at 1200 to take the daily (24-hour) measurement.

Oil recovered will be transported by Safety-Kleen or equal to Oil Re-Refining Company, Thermo Fluids or equal.

Company Name	Contact Information
Oil Re-Refining Co.	see above for contact numbers
Thermo Fluids, Inc.	see above for contact numbers

B. BURNABLE MATERIAL

Burnable material includes oily wood, debris, PPE, sorbents, oil snares and other suitable organic material collected during cleanup operations. The debris will be transported from the interim storage site by US Ecology to their incineration site in Idaho.

C. OTHER MATERIAL:

This material may consist of sand and tar balls and other assorted material that has been collected from the cleanup effort and has been stored at interim storage sites. All of this material will be transported to a licensed Waste Management facility for landfill.

Tesoro --- This is a Drill

PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Spill **DATE PREPARED: January 3, 2016**

OPERATIONAL PERIOD:1/3/16 @ 0830 - 1/4/16 @ 0830 (24 hour period)

Decontamination Plan

APPROVED BY:

RPIC	**DATE**
FOSC	**DATE**
SOSC	**DATE**
LOSC	**DATE**
TRIBAL REP (If Applicable)	**DATE**

COMMENTS:

DECONTAMINATION PLAN

Vancouver Energy Spill

January 4, 2016

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1.0 DECONTAMINATION PLAN

Personnel decontamination areas and equipment decontamination areas will be established on-site during the spill response. The decontamination areas will be established coincident with 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 in the Waste Management Plan as Decontamination Areas are co-located with Waste Staging Areas (**Figure DA-1**). Three Waste Staging Areas with Coincident Decontamination Areas are planned for the initial operational periods of the Vancouver Energy Spill response.

Decontamination (decon) areas will be lined with visqueen and industrial matting that can be disposed of after closure of each 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 DA-2** provides a schematic 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 500-barrel Baker tank for storing liquids from the cleaning/decon pool. The cleaning pool will be within secondary containment to capture spilled material. Material will be transferred from the cleaning pool to the Baker tank via transfer buckets or small trash pump 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.

Each decon station shall be equipped with the following equipment, which **must be procured by LOGISTICS:**

- **1000 feet of caution tape**
- **Six free-standing guide posts/traffic cones**
- **Two plastic 55-gallon drums – open top with lid**
- **Two plastic 55-gallon drums – open top with bung opening lid**
- **Eight packs of sorbent wipes (minimum 50 pads each)**
- **Two (minimum) 3 gallon pump/spray bottle (e.g. insecticide pump sprayer)**
- **Four galvanized 50-gallon wash tubs**
- **Two plastic buckets and two scrub brushes**
- **Two child wading pools**
- **Labels for drummed waste**

The drums will be labeled as follows:

1. Oiled PPE

2. Other Oiled Debris (i.e. sorbent pads, boom, etc.)

3. Un-oiled Debris

A tally of materials and supplies needed to construct personnel and equipment decontamination areas is presented in **Table DA-1**. Each of these areas will be lined with and surrounded by 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

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.

2. Station #2 – Step into galvanized washtubs and remove all visible contamination from clothing and boots via wash brush. Absorbent pads and water sprayers 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 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 personal 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, in the immediate vicinity of the temporary waste storage 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 enclosure for cleaning equipment and, a Baker tank for storage of liquids. The cleaning pool or diked 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 *Incident Disposal 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.

TABLE DA-1

DECONTAMINATION AREA CONSTRUCTION MATERIALS AND EQUIPMENT

Decontamination Area	Construction Barricades (#)	Drums (#)	Kiddie Pools	Pads (#)	Wash Tubs (#)	Caution Tape (feet)	Visqueen (feet)	Other
(1) Personnel Decontamination Area **Area No. 1, 2 & 3**	50	15	5	200 Bundles	12	500	10,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(2) Personnel Decontamination Area **Area No. 4 & 5 (IF NEEDED)**	50	15	5	200 Bundles	12	500	10,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(3) Equipment Decontamination Area **Area 1, 2 & 3**	50	20	5	400 Bundles	5	500	20,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(4) Equipment Decon. Area **Area 4 & 5 (IF NEEDED)**	50	20	5	400	5	500	20,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties

Figure DA-1
Site-Specific Decontamination Area Locations

See Waste Management Plan for locations of Waste Staging Areas. Decontamination Areas are co-located with Waste Staging Areas No. 1 @ Port of Vancouver, No. 2 @ Saint Helens and No.3 @ the Port of Longview.

Figure DA-2
Decontamination Area Schematic

THIS IS A DRILL

OIL-AFFECTED WILDLIFE MANAGEMENT PLAN

VANCOUVER ENERGY

Incident Name:	**Vancouver Energy Spill**
Responsible Party:	**Vancouver Energy**
Spilled Material:	**Bakken Crude Oil**
Spill Volume (estimate):	**385,000 Barrels (Worst Case)**
Spill Location:	**TANK VE001@ Port of Vancouver, WA**
Spill Date/Time:	**October 3, 2016 @ 0830**
Report Update Time:	**January 5, 2016**
Submitted By:	**JM Baker Deputy EUL, Planning Section**
Approved By:	_____

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LIST OF ATTACHMENTS

1.0 MANAGEMENT OF OIL-AFFECTED ANIMALS AND ANIMAL CARCASSES

Management of animal carcasses and the collection and care of wildlife affected by the VE Tank 001oil spill are addressed below.

1.1 Collection of Oiled Wildlife

The wildlife impacted from the Bakken crude oil may either be dead or alive at the time of collection, sample collection, triage and/or storage. Dead wildlife will be either collected by the private sector and brought to an incident Command Center or collected by retrieval groups authorized by the incident command center. **Living wildlife that is oiled should only be captured by appropriately trained personnel, if possible.** Oiled birds are to be brought to the incident Command Center for stabilization, triage, cleaning, treatment and rehabilitation. EPA, SCAT, Tri-State Animal Rescue have been called to acquire additional assistance and expertise. Oiled wildlife will be collected, if possible, and moved to nearest veterinary office or other approved animal care facility.

1.1.1 Animal Carcasses

All dead wildlife should be ultimately routed to the Vancouver Energy Terminal for storage and inventory tracking. The Wildlife Rehabilitation Plan of Action provided in **Attachment 1** should be used. Disposal of animal carcasses will not occur until any necessary natural resource damage assessment (NRDA) activities are completed. The following procedures will apply in the collection of *dead* oiled wildlife:

A. A photograph or sketch of the location where each carcass will be collected and after which the oiled wildlife will be retrieved from the environment and transferred to the incident Command Center.

B. Each wildlife carcass will be wrapped in aluminum foil (dull side facing the oil), placed in a plastic bag, tagged with identifier tracking information and moved to a storage unit to keep chilled (not frozen). This task can take place prior to transferring to the incident Command Center. Identifier tracking information includes a label indicating the date and time the animal was found, the animal's location, and name and phone number of the person finding the animal should be provided with the carcass.

C. The wildlife will be transferred to the incident Command Center or other location designated by the IC for chilled storage following proper chain of custody protocol.

D. Upon receipt at the Command Center, all affected wildlife will be inspected by responsible party (RP), U.S. Fish and Wildlife, and the state's (WA and/or OR) Department of Fish and Game/Wildlife personnel.

E. Two identical samples of the oil will be collected following appropriate sampling procedures. For birds, feathers will be plucked, taking care to change gloves for each bird to avoid cross contamination.

F. Once the feather sample is collected, the wildlife carcass will be placed in a cooler specifically requisitioned for this purpose located at the Vancouver Energy Terminal or incident Command Center.

G. The cooler will be locked at all times. Access to the cooler will be regulated with a sign-in sheet, and the freezer key will be kept in a secured area of the Command Center or Terminal. Security will be managed by the appropriate spill response staff. A compilation of the number of animal carcasses disposed of and the methods used for their disposal will be developed following the approvals of the IC and NRDA stakeholders.

6.1.2 Living Oiled Wildlife

Living wildlife that is oiled should only be captured ONLY by appropriately trained personnel. Oiled birds are to be brought to the incident Command Center or other formally designated facility for stabilization, triage, cleaning, treatment and rehabilitation by the following licensed wildlife rehabilitation contractor:

Contractor(s) identified for this incident:

Tri-State Bird Rescue 302-737-7241

International Bird Rescue 707.207.0380

Other living wildlife that is oiled, such as otters, beavers, etc. will be managed by the following licensed wildlife rehabilitation contractor:

Tri-State Bird Rescue 302-737-7241

Oiled Wildlife Care Network 530- 752-4167

Wildlife will be transferred to the on-site, or if necessary, a designated off-site rehabilitation center authorized by the Incident Command. Primary locations will be designated local veterinary clinics until supplies unit arrives. Wildlife will be administered care as directed by the authorized person at the rehabilitation center. The authorized caregiver will retrieve two oil samples from the affected wildlife. The samples will then be stored in a chilled cooler until direction is given from the incident Command Center as to either send the samples to a laboratory for analysis or send them directly to Vancouver Energy Terminal designated oil-affected wildlife storage for further storage or processing. Document location, type and apparent impacts for all oiled mammals that are observed and not retrievable, including: photographs, River Mile, date & time, and reported to the state's Department of Fish and Game/Wildlife or equivalent.

The following are recommended analyses for oiled wildlife samples:

- Polycyclic Aromatic Hydrocarbons (PAHs)
- N-Alkanes and Isoprenoids
- Steranes and Triterpanes
- Total petroleum hydrocarbons (TPH) (Water Only)

The samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected. A large freezer or cooler will be requisitioned for the Vancouver Energy Terminal.

ATTACHMENT 1

WILDLIFE REHABILITATION PLAN OF ACTION

Spill Event: Vancouver Energy Tank 001

Location: Vancouver Energy Terminal, Port of Vancouver, WA

Date: October 3, 2016

Name of Person filling out form: _____

1. Contractor Call Outs:

   A.

   B.

2. Equipment on Site (MSRC)

   A.

   B.

3. Equipment on Site (CRC)

   A.

   B.

4. Number of Personnel

	On-Site	En Route
A.		
B.		
C.		
D.		

5. Location of Wildlife Rehabilitation Unit

6. Agency Coordination

WILDLIFE REHABILITATION TRAILER

Various spill response organizations or other response resources own or have rapid access to wildlife rehabilitation equipment such as a wildlife rehabilitation trailer that is dedicated to clean oiled wildlife. The trailer typically has two areas containing equipment for cleaning activities. One area has water softeners and heaters, wash and rinse tables, and a freezer to store wildlife that could not be revived. The other area of the trailer typically serves as a field laboratory and is equipped with a refrigerator/freezer, microwave oven, osterizers, water picks, and force feeders. The trailer should hold enough supplies to operate for approximately 24 hours.

The cleaning process is a tedious one that requires personnel licensed and trained specifically in the handling of animals in distress. After wildlife is cleaned and inspected by a wildlife veterinarian, animals are returned to their environment. The following table identifies equipment and supplies available for use within a typical trailer and should be considered the minimum quantity of supplies needed in a response.

Every effort should be made early in a response to establish communication with an approved wildlife rehabilitation contractor in the area. The wildlife rehab contractor should be put on standby at a minimum, and mobilized during the early stages of the response if conditions indicate this resource will be needed.

Washington Department of Fish and Wildlife, MSRC and CRC all maintain oiled wildlife response equipment that can be mobilized to the spill site for use during the response, as initial response measures, at a minimum.

REQUIRED EQUIPMENT AND SUPPLIES AVAILABLE IN A TYPICAL WILDLIFE REHABILITATION TRAILER

	Description
3	Submersible effluent Pumps
4	Rubber matting
4	Mops
9	Large catch nets
2	Oil resistance water hoses
80	Bottles of dawn detergent
1	Desk lamp
2	Water picks
2	Osterizers
12	Rolls of banding tape
8	#2000 SPA nozzles
15	Latex gloves
2	Selector Dickerson temp. reading
4	Plastic dishpan containers
8	Rubbermaid pans (11.5 quarts)
2	Desk chairs
24	Lbs. salt
12	Ft. 4/4 power cord
50	Ft. Dayco LP gas hose (water supply)
2	Coleman roughneck – A/C unit
1	Refrigerator/freezer (M#2539639001)
1	Freezer on movable stand (M#FC083LTW3)
1	Microwave (M#565-8944090)
4	Large sky kennels
4	Medium sky kennels
2	Aqua model 170 FP heaters (w/1" gas hose)
1	Electric in-line heater
12	Ratchet straps
1	Polyethylene tarp
15	Ft. 2" suction hoses
	Assorted bird tags – aluminum sizes 12-24
	Assorted plastic bird tags
	Assorted gauze
1	300-gallon propane tank
3	Extra large sky kennels
1	Roll #531 safety grid 4'x40'
12	#740L vinyl blue gloves
8	Black covers for tubs
1	2P280 booster pump assemble w/fittens
1	2P356 washtub pump assemble w/fittens
1	14/3 G.F.C.I. cord – 50'
1	12/3 G.F.C.I. duplex cord – 50'
2	Rinse table manifolds
2	1 ½" bottom suction screens

	Description
1	Twin model 9000 econominder
	Automatic water conditioner
6	Aluminum fold-up tables
12	#3 galvanized washtubs
2	Aluminum rinse tables w/sump
7	5/8"-50' garden hoses (hot water)
2	10'x10' waste water tanks (1400 gallons)
10	Rubbermaid storage containers (black)
1	Spare tire
1	48qt. Igloo ice chest containing: 2 flashlights 8 small fish nets 1 box field report cards 6 hand brushes 4 eye goggles 2 small funnels 2 garden nozzles 2 small bird force feeders 7 cans OFF spray
1	Tool box containing: 2 #24 pliers 2 #16 pliers 2 #14 pliers 2 #12 pliers 2 #10 pliers 2 pairs of Singer scissors 1 soft tape measure 1 pair pliers 9 heat lamp fixtures 9 heat lamp bulbs 5 small electrical cords (light brown) 5 medium-duty electrical cords (orange) 1 5 lb. Kiddle fire extinguisher 6 heavy-duty electrical cords (black) 3 face shields 2 5/8 x 25' garden hoses (hot water) 2 5/8 x 12' garden hoses (hot water) 1 GE telephone 2 12/3 G.F.C.I. cord – 50'
6	1 ½ x 15' PVC hoses (green)
12	PVC aprons (yellow)
4	Thermometers

RECOVERED OIL AND WATER MANAGEMENT PLAN

Vancouver Energy Company

Incident Name: Vancouver Energy Spill

Responsible Party: Vancouver Energy

Spilled Material: Bakken Crude Oil

Spill Volume (estimate): 385,000 bbls

Spill Location: Vancouver Energy Tank 001

Spill Date/Time: October 3, 2016

Report Update Time: January 5, 2016

Submitted By: Jeff Baker, Deputy EUL, Planning Section

Approved By: _____

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ATTACHMENTS

1.0 RECOVERED OIL

Oil and oil mixed with either river water or emulsified mixtures will be collected from the spill area using oil recovery equipment (i.e. skimmers) deployed by the Oil Spill Response Organization (OSRO) or other response contractor. **Recovered oil and water mixtures must be immediately transported to designated waste staging areas, bulk storage fractionation tanks (frac tanks), on-water storage vessels, or facility storage tanks designated for use in the spill response operations. Oil recovered on the Columbia River must be loaded into a 25,000 bbl barge (CRC or MSRC) for transfer and accumulation/storage at the Vancouver Energy Terminal. In the event that on-Terminal storage volume becomes insufficient, or unavailable, additional on-water storage will be procured to continue recovery operations until Terminal tankage is available for unloading. Recovered oil and water will be unloaded and transferred into designated facility storage, where volumes will be tracked and documented for Recovered Oil Quantification oer WADOE regulations using Recovered Oil Data Form ECY-050-49a (Rev. 01/2013) included herein as Attachment 1.**

Proper tank, drum and container gauging is a critical component of all response actions.
No recovered oil, oil/water mixtures can be discharged or disposed of prior to gauging and volume inventory reconciliation completion.
Third party certified gauging contractors must be mobilized so that accurate documentation of recovered oil and oil/water volumes can be achieved.

Primary Gauging Contractor for VE Tank 001 Spill:

Inspectorate
2501 SE Columbia Way # 300, Vancouver, WA 98661
(360) 574-7060

After transfer to the Vancouver Energy storage tanks, the recovered oil/water mixture should be allowed sufficient time to settle and phase separate. Potential management methods for the recovered hydrocarbon fraction include: re-injection or recycling into a crude or bunker fuel process stream, oil reclamation, and recycling at other oil industry facilities. The volume and the presence or absence of other potential contaminants in the oil must be determined through sampling and documentation prior to recycling.

2.0 OILY WATER

Oily water recovered as part of the cleanup process will be managed by one of the following methods:

a) Reclaimed along with entrained oil by a 3rd party vendor retained by Vancouver Energy,

b) Injected into a Tesoro refinery wastewater or bilge water treatment plant, if available,

c) Discharged to a publicly-owned treatment works (POTW) wastewater influent stream (local, state, or federal approval required), or

d) Treated on-site in a portable, temporary wastewater treatment system in accordance with applicable surface-water quality standards and discharged (state/federal permit approval required).

2.1 Oily Water Decanting

Decanting of water from oily mixtures is a common procedure used during a spill response. Decanting is the process of draining off recovered water from portable tanks, barges, collection wells, or other containers to increase available recovered oil storage capacity.

During a response, it may become necessary for Vancouver Energy to request the Federal and/or state on-scene coordinator (FOSC/SOSC) authority to decant water while recovering oil so that response operations do not become impaired. Authorization from FOSC is required in all cases; authorization from the SOSC is required for decanting activities in state waters. Expeditious review and approval of such requests is necessary to ensure efficient recovery operations. The request, decision and permission to decant **must** be documented. Decanting permit applications appear as **Attachment 2 and Attachment 3**.

The following criteria should be considered when determining whether decanting is applicable, unless circumstances dictate otherwise:

A. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated response area within a collection area, vessel collection well, recovery belt, weir area, or directly in front of a recovery system.

B. Vessels employing sweep booms with recovery pumps in the apex of the boom should decant forward of the recovery pump.

C. All vessels, motor vehicles and other equipment not equipped with an oil/water separator should allow a retention time of at least 30 minutes for oil held in internal or portable tanks and should transfer oil/water mixtures to a vessel or on-shore equipment with approved oil-water separation technology. Unequipped vessels should not decant oil-water mixtures.

D. Visual monitoring of the decanting area shall be maintained at all times so that discharge of oil in the decanted water is detected promptly.

3.0 Recovered Oil Quantification Estimation and Tracking

The amounts of free oil, oily water, oil entrained in: absorbents, PPE, debris (adsorbed), decontamination unit waste material and wash water, soil and sediment will be estimated independently and then summed to account for all recovered oil. Table R-1 provides a summary used by response personnel to track and document the total amount and sources of recovered oil during the spill response.

Unless otherwise directed by WA DOE, all petroleum volumes will be estimated following the guidance and formulas included in the California Office of Spill Prevention and Response Chapter 7, Subchapter 2 "Determining Amount of Recovered Hydrocarbons Recovered."

4.0 DISPOSAL OF RECOVERED OIL AND OILY WATER

Recovered oil and oily water will be transported by **MSRC, CRC or Safety-Kleen** to the **Vancouver Energy Terminal.** Approved oil reclamation contractors are identified in the Incident Waste Management & Disposal Plan. Applicable company names and contacts for the disposal of recovered oil and oily water are as follows:

1. Ernie Quesada **(CRC)** **Phone: _____**

2. Jeffrey M. Baker (Tesoro) **Phone: (253) 896-8708**

3. Vancouver Energy Terminal Mgr. **Phone: TBD**

ATTACHMENT 2

OIL SPILL REQUEST FOR DECANTING AUTHORIZATION

Responsible Party (RP): Vancouver Energy

Date: 1/5/16

The RP hereby requests permission to decant free water from its on-water storage systems. The free water collected during skimming operations will be decanted back into a contaminated area (i.e., into containment boom).

The following information is provided for your consideration:

RP: **Vancouver Energy**
Name of Oil Spill: **Vancouver Energy Spill**
Location of Spill (latitude/longitude): 45 Deg, 38', 4.19" N by 122 Deg, 42', 10.55" W
Vessel Names: **Barge: Leo**
Tug Boat (if needed): Aleutian
Product: **Bakken Crude Oil**
Skimming Platforms: _____
Weather: **Calm**
Tides: N/A Spill Occurred in Columbia River near River Mile 105,

☐ Approved ☐ Disapproved

RP Representative Signature: _____

Dates Approval Effective: _____

Conditions (circle numbers that apply):

1. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated response area within a collection area, vessel collection well, recovery belt, or weir area, or directly in front of a recovery system.
2. Visual monitoring of the decanting shall be maintained at all times so that discharge of oil in the decanted water is detected promptly.
3. Decanting in areas where vacuum trucks, portable tanks, or other collection systems are used for shore cleanup will be subject to the same rules as vessels.
4. Additional site-specific conditions (continue on reverse side if necessary).

_____ USCG

_____ SOSC

ATTACHMENT 2a

Additional Decant Permit Application Information

Vancouver Energy Company (VE) submits this Conditional Use Decanting Permit Application to efficiently skim the maximum amount of crude oil on river water from this spill response. *This Conditional Use Decanting Permit pertains only to skimming vessels working around the VE Terminal and the areas downstream in the Columbia River to River Mile 45*. If additional areas require decanting, a subsequent Conditional Decanting Permit Application will be submitted to Unified Command. In addition, the decanting will only be employed if barge water transfer is not feasible or practical, as described below.

Vessel traffic within the River could create excessive down time for skimmers as operations move farther away from the VE Terminal. In order to minimize on-water traffic skimmers will unload recovered oil into a 25,000 bbl barge provided by CRC or MSRC. When full, the barge will unload the recovered oil at the VE Terminal dock and will transfer the material to available storage tanks via one of the crude oil lines from dock to Terminal storage tanks.

Conditional to oil reaching areas past those listed above, VE requests permission to decant water from skimming operations in the Columbia River.

ATTACHMENT 3

Northwest Area Contingency Plan

7.3.2 Oil Spill Decanting Authorization Form	
The federal and state OSCs, under authority of RCW 90.56.320(1) and WAC 173-201A-110 (in Washington), or ORS/OAR _____ (in Oregon), hereby approve the use of decanting as a means of expediting the recovery of oil during the following spill cleanup operation:	
Date(s) Approval Effective: **10/3/16 – 13/31/16**	
Name of Spill Incident: **Vancouver Energy Spill**	
Federally Defined Response Area: **Columbia River @ River Mile 105**	
Name of Requester: **Vancouver Energy**	
Location and Description of Proposed Decanting Operation: (continue on reverse, if necessary) **Columbia River – River Mile 105 to 45**	
The decanting operation must meet the following conditions: 1. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated "Response Area" within a collection area, vessel collection well, recovery belt, weir area, or directly in front of a recovery system. 2. Vessels employing sweep booms with recovery pumps in the apex of the boom shall decant forward of the recovery pumps. 3. Vessels not equipped with an oil/water separator should allow at least thirty (30) minutes of retention time for oil held in internal or portable tanks before decanting commences. 4. Containment boom must / need not (circle one) be deployed around the collection area to prevent loss of decanted oil or entrainment. 5. Visual monitoring of the decanting shall be maintained at all times so that discharge of oil in the decanted water is detected promptly. 6. Decanting in areas where vacuum trucks, portable tanks, or other collection systems are used for shore cleanup will be subject to the same rules as vessels. 7. Additional conditions: (continue on reverse if necessary)	
SIGNATURE: **Federal OSC**	Date:
SIGNATURE: **State OSC**	Date:
NOTE: When verbal authorization is given, a copy of this form must be immediately expedited to the requester (must be a person of authority in the cleanup organization) to ensure that the conditions and limitations are clearly understood by all parties.	

Incident Name: Bakkan Exercise
SHORELINE CLEANUP ASSESSMENT TEAM WORK PLAN

This incident-specific SCAT plan is approved:

FOSC	Date
WA- SOSC	Date
OR - SOSC	Date
RPIC	Date
LIC	Date

cc: Operations Section, Shoreline Cleanup Supervisor
Operations Section Chief
National Oceanographic and Atmospheric Administration, SSC
U.S. Environmental Protection Agency
U.S. Department of Interior, U.S. Fish and Wildlife Service
State Historic Preservation Officer
State Agencies

Acronyms:
SCAT – Shoreline Cleanup Assessment Technique
EUL – Environmental Unit Leader
NEB – Net Environmental Benefit
QA/QC – Quality Assurance/Quality Control
SOS – Shoreline Oiling Survey
STR – Shoreline Treatment Recommendation

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1. Plan Purpose and Objectives

a. Purpose

Shoreline Cleanup and Assessment Technique (SCAT) is a systematic method for surveying an affected shoreline after an oil spill. The SCAT approach uses standardized terminology to document shoreline oiling conditions. SCAT is designed to support decision-making for shoreline cleanup that is consistent with the principles of Net Environmental Benefit (NEB). It is flexible in its scale of surveys and in the detail of datasets collected. SCAT surveys begin early in the response to assess initial shoreline conditions, and ideally continue to work in advance of operational cleanup. Until SCAT provides data for shoreline treatment recommendations, shoreline cleanup workers should follow the Shoreline Ecological Considerations in Appendix A.

Surveys continue during the response to verify shoreline oiling, cleanup effectiveness, and eventually, to conduct final evaluations of shorelines to ensure they meet cleanup endpoints.

This work plan has been developed to describe the process for initiating and implementing SCAT actions for Columbia River and adjoining shorelines impacted by a **Bakkan crude** oil spill.

The SCAT process for this incident is intended to:

1. Systematically survey and document the area affected by oil to provide rapid and accurate geographic description of the shoreline oiling conditions and real- time issues or constraints;
2. Recommend treatment or cleanup options for oiled shorelines to OPS and UC;
3. Recommend shoreline cleanup endpoint standards to OPS and UC;
4. Monitor and evaluate shoreline treatment;
5. Provide inspection teams for segment sign off, and
6. Manage data collected from shoreline surveys.

b. Objectives

The objectives of the SCAT process for this incident are to:

1. Quickly collect data on shoreline oiling conditions using standard protocols and mechanisms;
2. Utilize shoreline oiling data to enhance and expedite shoreline treatment planning, decision-making, and response activities; and
3. Assure that a "net environmental benefit" (NEB) for an oiled shoreline is achieved by shoreline cleanup.
4. Ensure that impacts to Tribal and Cultural resources as well as endangered species and essential fish habitats are minimized.

c. Fundamental Principles:

The fundamental principles of the shoreline assessment surveys include:

1. A systematic assessment of all (oiled and non-oiled) shorelines in the affected area;
2. A division of shorelines into homogeneous geographic units or "segments";
3. The use of a standard set of terms and definitions for documentation;
4. A survey team that is objective and trained; and
5. The timely provision of data and information for decision making and planning.

2. Health and Safety

The Site Safety Officer prepared a Site Safety Plan addressing safety issues related to the incident. The Site Safety Plan addresses the principal safety and health hazards from boat and water operations and shoreline assessment and cleanup operations. The site safety plan covers training, equipment safety, protective clothing and equipment, decontamination, and first aid and medical evacuation procedures to be used during the response.

Specific safety considerations for SCAT operations include the following:

- Follow the Site Safety Plan.
- Attend daily safety meetings regarding SCAT work.
- Wear personal protective equipment.
- Use personal flotation devices when transiting across water and review safe boating practices
- Observe careful personal hygiene during the workday.
- Watch for slips, trips, and falls.
- Wear hearing protection when designated.
- Watch for cold stress.
- Avoid interaction with wildlife.
- Protect hands.
- Operate equipment according to instructions.
- Practice good housekeeping in work areas.

3. Organization, Staffing, and Schedule

Organization

The SCAT Coordinator is in charge of the Shoreline Cleanup Assessment Technique operations. The SCAT Coordinator reports directly to the Environment Unit Leader, but must maintain a close working relationship with the Operations Section, resource agencies, and other affected parties. In the field, SCAT teams may receive priorities and technical directions from the SCAT Coordinator via the SCAT Field Team Manager.

Staffing

The field SCAT teams will consist of up to 4 members (plus vessel/aircraft operators as needed), ideally with the following representation (one or more roles may be combined, or not be applicable):

- Federal government representative
- State government representative
- Responsible Party
- Tribal government representative

Specific area information and site considerations are available from personnel at the ICP, including:

- Local government and/or oversight organization
- WDFW and OR-FW for ecological constraints
- Archeologist or cultural resource specialists who can advise on precautions and constraints to protect cultural resources, if needed

A total of **4** SCAT teams have been assembled and deployed for the initial stages of this incident with the ability to increase teams for field or aerial survey.

Field SCAT Team participants will be selected from representatives for industry; tribal, state and federal agencies; and/or local municipalities or landowners at the discretion of the IC to provide the primary expertise described above. A listing of the current organization (command & field) is outlined below.

The SCAT Data Manager is responsible for the maintenance of the SCAT data base and for the production of maps and tables as needed. The SCAT Data Manager may request the assignment of a SCAT Documentation specialist, as needed.

Command Post

- **SCAT Coordinator – Elliott Taylor (POLARIS);**
- **SCAT Data Manager / Data Entry – Teresa Allard (POLARIS).**
- **SCAT GIS Support – Stephen Gmur/Travis Scott (POLARIS)**
- **Archeologist/Cultural Specialist: Cowlitz tribe (others for consult: Nez Perce, Yakima, Warm Springs, Umatilla). (360)–577-6962 www.cowlitz.org**

Initial Aerial Reconnaissance (overflight 3 Oct @1000) and Aerial Surveys:

- **WA State Rep –** (ECY) Steve Bell
- **OR State Rep –** (DEQ) TBD
- **RP –** (ECY) Gary Mauseth (POLARIS)

SCAT Team 1:

- **Federal Rep –** (USCG) tbd
- **WA State Rep –** (ECY)Dale Davis
- **RP –** Andrew Graham (POLARIS)
- **Tribal/Local Gov't reps–** Cowlitz (Arch)

SCAT Team 2:

- **Federal Rep –** (USCG) tbd
- **WA State Rep –** (ECY)Ron Holcomb
- **RP –** Ed Owens (POLARIS)
- **Tribal/Local Gov't reps–** _____

SCAT Team 3:

- **Federal Rep –** (USCG) tbd
- **WA State Rep –** (ECY)Sonja Larson
- **RP –** Greg Challenger (POLARIS)
- **Tribal/Local Gov't reps–** Cowlitz (Cultural)

SCAT Team 4:

- **Federal Rep –** (USCG) tbd
- **OR State Rep –** (DEQ) tbd
- **RP –** Jose Rios (POLARIS)
- **Tribal/Local Gov't reps–** _____

Efforts will be made to minimize personnel substitutions and select team members who can stay with the SCAT operations, or to have a systematic schedule of alternates; people who see conditions change through time have a better frame of reference for assessing the success of cleanup operations.

Initial and subsequently new field team members will be "calibrated" by having them visit shorelines of differing morphology to review the agreed-upon shoreline descriptors and to confirm how oil impacts will be described throughout the response process. Currently deployed SCAT Teams have been calibrated.

Team Priority – Areas where heavy oiling has been noted or which are of specific ecological importance will be prioritized to maximize recovery opportunities and to reduce overall impacts.

Schedule

The schedule for SCAT Field Teams will be defined daily, and be reflected in the 204s as well as on SCAT planning tools (Appendix G).

4. SCAT Survey Methods

Shoreline surveys will be conducted for this incident by different methods and at different scales depending upon the size of the affected area, character of the shoreline type, and level of detail that is required. The following table presents a summary of the survey methods that will be used for this incident, key objectives of the survey methods, and the purpose of each survey method.

Table1 Summary of SCAT Survey Methods		
Survey Method	**Key Objectives**	**Purpose**
Aerial Reconnaissance	Define the overall incident scale to develop regional objectives. Mapping or documentation not required.	Make specific observations, but not to map or document the oiling conditions, so that relatively large areas can be covered in a relatively short time period.
Systematic Ground Survey	Systematically document shoreline oiling conditions in all segments within the affected area.	Systematically document shoreline oiling conditions in all segments within the affected area and to complete shoreline oiling summary ("SOS") forms, generate sketch maps for each oiled segment and complete Shoreline Treatment Recommendations. ("STRs").
Spot Ground Survey	Systematically document shoreline oiling conditions for selected segments within the affected area.	Systematically document oiling conditions for selected segments within the affected area and to complete SOS forms, generate sketch maps for each oiled segment and complete Shoreline Treatment Recommendations ("STR").
Inspection Survey	Evaluate effectiveness of treatment methods employed by Operations in meeting shoreline treatment standards.	Systematically document shoreline conditions after treatment and cleanup of segments within the affected area against the applicable treatment standards and complete shoreline oiling summary forms and generate sketch maps for those segments. Make recommendations for closure or further cleanup actions and complete Shoreline Inspection Reports ("SIRs") for each segment for which "No Future Treatment" is being recommended.

Shoreline Segmentation Strategy

No –pre-SCAT segmentation exists for this part of the Columbia River. SCAT segments are to be defined by the SCAT team organization and will be tied to operational divisions, proceeding downstream within each division.

5. Field Documentation and Information Transfer

Field documentation will consist, where possible, exclusively of standardized forms. Examples include the shoreline oiling summary (SOS), shoreline treatment recommendation (STR) forms, segment inspection report and photograph log of found in Appendices B thru E.

Aerial Surveys

Completed field documents (notes, sketches, videos and photos) from aerial reconnaissance teams are to be provided by the team members and inspected at the Command Post for QA/QC the same day to ensure that any necessary revisions are made prior to the surveys of the next day.

Ground Surveys

The SCAT Field Team Manager and each Field Teams are responsible for ensuring that the following tasks and field documentation are completed.

- Complete SOS Form
- Complete STR Form
- Sketch(es) of the segment if oil is observed
- GPS coordinates of segment endpoints and specific features
- Digital photographs and log date/time/location if oil is observed
- Dig pits/trenches if subsurface oil is suspected

The **SOS form for river shorelines** will be used for oiling assessment.

The completed field documentation (SOSs, STRs, sketches and photos) from the ground survey teams are to be provided to the Field Team Manager (or Data Manger). This documentation shall be inspected at the command post for QA/QC on the same day as the survey to ensure that any necessary revisions are made prior to the surveys of the next day.

All GPS units and digital cameras will be surrendered to SCAT Data Manger immediately upon return to the Command Post for downloading. The Data Manager will ensure that device times are synchronized and that all waypoints, track logs, and digital pictures are erased from each device prior to being redeployed with Field Teams.

In order to facilitate planning, the Team Members will notify the SCAT Field Team Manager on a daily basis if any segments are identified that will require Operations mobilization.

6. Command Post Data Management and Results

Data QA/QC

Data from SCAT field surveys is used to plan cleanup activities for the subsequent shoreline cleanup operations.

The SCAT Data Manager receives and logs incoming SCAT field forms, sketches, and other information (films, videotapes, etc.) and reviews the field information. The review involves a quick check to make sure that all sections of the forms have been completed and that the information appears reasonable and consistent. Any questions regarding missing information or apparent inconsistencies are discussed with the field team members before the next field assignment. After the quality control is complete, forms are copied and distributed as needed and key information is transferred to tables or computer data files.

Data Outputs
In general, the types of data, graphics, and tables that will be generated from the SCAT database may include:

- Maps of shoreline segments and soil/sediment types
- Oiling conditions
- Estimates of surface oil volumes, changes in volume through time
- SCAT field survey status
- Treatment recommendations
- Cleanup treatment status
- Lengths of oiled shoreline (by oil rating and/or shoreline type)
- Lengths treated (by oil rating and/or treatment method)
- Area surveyed

Record Keeping
Original SCAT field forms, sketches, and other information (photos, videotapes, etc.) and data, graphics, and tables generated during the incident will be provided by the SCAT Data Manager to the Documentation Section for retention. Only copies of these records will be distributed for use by stakeholders (i.e. RP, USCG, EPA, state agencies, etc.).

7. Spill Cleanup Endpoints Standards

All spills have a point at which active cleanup and removal gives way to the natural degradation of the oil. In many cases, this termination point is developed through a process lead by the SCAT Coordinator (Cleanup Endpoint Stakeholder Group) and formalized by the Unified Command. In most cases, the endpoint will be assumed to have been reached when worker safety would be compromised or the remaining oil presents less of a risk to the community or the resources than the treatment methods available.

The cleanup endpoints for this spill are detailed in Appendix F.

After the Operations Division Supervisor or Shoreline Supervisor considers that cleanup in a segment has been completed, the segment will be inspected by a Sign-Off team, that will (a) determine whether the cleanup criteria have been met and (b) make a recommendation to the Unified Command regarding that segment. The team will use the criteria outlined in Appendix G to make this determination. At the time of the inspection, the land manager or representative will accompany the team and a segment inspection report (SIR) form will be completed. The Land Manager or representative may add notes in the "COMMENTS" text block on the SIR.

If the SCAT team (in consultation with the land manager) determines that no oil is present in the segment or that the cleanup has met the endpoint criteria, then the members of the SCAT team representing the UC will sign the SIR and forward a No Further Action recommendation to the UC for approval. Note that a determination that cleanup endpoints have been reached does not indicate that the segment is necessarily recovered or restored under the definition of the NRDA process.

If the SCAT team determines that a segment fails to meet the cleanup criteria the team will indicate this on the SIR. They will specify where work is still required in order for the segment to pass inspection and will forward the form to the Operations Section Chief via the SCAT Coordinator and the EUL.

The SCAT signoff process is intended to be a consensus-based team assessment. If, however, the team members are not in agreement regarding whether or not the endpoint criteria are met, then a sheet listing the reasons for disagreement is attached to the SIR and forwarded to the UC for resolution.

SCAT Work Plan Appendix A
Pre-SCAT Shoreline Ecological Considerations for Operations

The following pages show Ecological Considerations to be followed.

General Operations Shoreline Ecological Considerations and Guidance (Pre-SCAT)

This Guidance is intended to:

- Provide recommendations to Operations personnel to conduct initial shoreline response actions associated with near shore waters prior to formal SCAT surveys and approved Shoreline Treatment Recommendations; and,
- Provide approved methods for cleaning of bulk oil from shorelines until the source is controlled and the threat of re-oiling is minimized.

These guidelines will be superseded by SCAT Shoreline Treatment Recommendations (STRs) specific to each segment. When an STR is developed for a segment, this plan no longer applies.

Allowable Pre-SCAT and STR Cleanup Methods

- Skimming and vacuum of floating oil on the water surface
- Use gentle flushing with low pressure/high volume ambient water into containment and collection.
- Passive use of sorbents may be deployed following the ecological constraints below.
- Oiled debris (wrack such as algae, dead vegetation, woody debris) that is small (<4" dia) may be removed.
- **No mechanical equipment or chemical agents are approved on shorelines. Shoreline work in the initial pre-SCAT stage is all manual (hand removal of oily debris) and passive (sorbent).**

Specific shoreline cleanup recommendations will be issued by SCAT as necessary in the shoreline treatment recommendation process following detailed SCAT surveys of oiled shorelines.

ECOLOGICAL CONSTRAINTS:

- Response personnel should not walk into marsh, freshwater wetlands or areas with oil and soft sediments other than to retrieve and/or reposition stranded boom or other oil spill response equipment.
- All work is to be conducted from boats in very soft sediments; there will be no foot or boat traffic in areas where the workers boot penetrates more than several inches into the sediment
- Do not stage boats such that the vegetation is crushed.
- During flushing, prevent suspension of bottom sediments (do not create a muddy plume)
- Do not disturb any wetland soils
- No cutting of vegetation allowed unless specified by the Environmental Unit (EU)
- Areas where oil inside wetlands may be removed will be identified by the EU
- Response equipment/vessels should not penetrate into wetlands
- Vehicle and mechanical equipment should avoid soft soils and wetlands
- Workers should avoid walking above the flood plain or high tide line and take care near large woody debris and other material on beaches that may be used for nesting activity and wildlife habitat.
- No removal of large woody debris that is oiled is approved at this time.
- Follow overflight restrictions issued by Air Operations.
- Access corridors should be clearly marked in the field.
- Decon stations should be set up at all access corridors.
- Boat operators should always be aware of prop/blade washing.

- Do not disturb wildlife. If oiled wildlife are encountered, follow the instructions of Wildlife Operations which may include the considerations below.

WILDLIFE CONSIDERATIONS:

Wildlife Contact Telephone: _____

- All dead and live stranded birds, mammals, fish & reptiles should immediately be reported to the Wildlife Hotline listed:
- Do not attempt to handle the wildlife or disturb nests or bird colonies
- If possible, be prepared to provide information such as:
    - Dead or alive
    - Species if known - if not, describe the animal/bird
    - Number of animals/birds/nests
    - If nest has been identified with flags
    - Current environmental conditions
    - Observer contact information
- Determine the location of the animal/bird, preferably with GPS
- If possible, take photographs and record noteworthy information

PUBLIC SAFETY

The public should not be picking up oil or observing operations. Please advise the public of safety issues. Do not engage the public in discussions and refer them to the information hotline. The number for the Public to call regarding volunteer work or other information is:

1-800 965-8675

For issues with the public, call security at: XXX-XXX-XXXX

SCAT Work Plan Appendix B – SHORELINE OILING SUMMARY FORM

The following page shows the Shoreline Oiling Summary Form to be used.

*Use supplement
Sketch / Map:

Calibration IS VERY IMPORTANT! Do a calibration exercise to make sure that all teams are consistently using the same terminology and estimations.

Units: Use either metric (m, cm) or English (yd, ft, in). Circle the units used.

Tide Height: Circle the two letters indicating the progression of the tidal stage during the survey, either rising or falling.

Segment/Survey Length: Always record both segment and survey lengths on the first survey, especially where the SCAT team creates the segments in the field. On repeat surveys, always enter in the Survey Length, especially if only part of the segment is surveyed.

Start/End GPS: The preferred format for latitude and longitude is decimal degrees, but be consistent among teams. Record the datum if different than WGS84.

SURFACE OILING CONDITIONS

Zone ID: Use a different ID for each oil occurrence, e.g., two distinct bands of oil at mid-tide and high-tide levels, or alongshore where the oil distribution changes from 10 % to 50%. Describe each oil occurrence on a separate line. Record the shoreline type(s) present in each oiled zone using the terminology in section 4 or the ESI code.

Tidal Zone: Use the codes to indicate the location of the oil being described, as in the lower (LI), mid (MI), or upper (UI) intertidal zone, or in the supra (SU) tidal zone (above the normal high tide level).

Distribution: Enter the estimated percent of oil on the surface (preferred), or codes for the following intervals:

C	Continuous	91-100% cover
B	Broken	51-90%
P	Patchy	11-50%
S	Sporadic	<1-10%
T	Trace	<1%

Surface Oiling Descriptors - Thickness: Use the following codes: TO
Thick Oil (fresh oil or mousse > 1 cm thick)
CV Cover (oil or mousse from >0.1 cm to <1 cm on any surface)
CT Coat (visible oil <0.1 cm, which can be scraped off with fingernail) ST
Stain (visible oil, which cannot be scraped off with fingernail)
FL Film (transparent or iridescent sheen or oily film)

Surface Oiling Descriptors - Type
FR Fresh Oil (unweathered, liquid oil)
MS Mousse (emulsified oil occurring over broad areas)
TB Tar balls (discrete accumulations of oil <10 cm in diameter) PT
Patties (discrete accumulations of oil >10 cm in diameter)
TC Tar (highly weathered oil, of tarry, nearly solid consistency)
SR Surface Oil Residue (non-cohesive, oiled surface sediments) AP
Asphalt Pavements (cohesive, heavily oiled surface sediments) No
No oil (no evidence of any type of oil)

SUBSURFACE OILING CONDITIONS

Oiled Interval: Measure the depths from the sediment surface to top/bottom of subsurface oiled layer. Enter multiple oil layers on separate lines.

Subsurface Oiling Descriptors: Use the following codes:
OP Oil-Filled Pores (pore spaces are completely filled with oil)
PP Partially Filled Pores (the oil does not flow out of the sediments when disturbed)
OR Oil Residue (sediments are visibly oiled with black/brown coat or cover on the clasts, but little or no accumulation of oil within the pore spaces)
OF Oil Film (sediments are lightly oiled with an oil film, or stain on the clasts) TR
Trace (discontinuous film or spots of oil, or an odor or tackiness)

Sheen Color: Describe sheen on the water table as brown (B), rainbow (R), silver (S), or none (N).

SCAT Work Plan Appendix C – SHORELINE TREATMENT RECOMMENDATION FORM

The following page shows the spill-specific Shoreline Treatment Recommendations for shore types within the response area.

INCIDENT NAME

Shoreline Treatment Recommendation STR# ___
Operational Permit to Work

Segment: Survey Date:

Start Latitude: **End Lat:**
Start Longitude: **End Long:** **Length (m):** _____

Shoreline Type: *Primary* _____ *Secondary* _____

Oiled Areas for Treatment:

Auto entry directly populated from data base of:
Zone: Shoreline Type, L x W, Oil % Dist, Oil Character, Oil Thickness, Oiling Category
e.g. Zone A: Sand beach, 200 m x 1 m, 10% Fresh oil, pooled, Oiling Category: Heavy

Cleanup Recommendations:

(Use standard terms and definitions from a Word document or populate database with these standard statements)

Staging and/or Logistics Constraints/Waste Issues:

Ecological Concerns:

Cultural / Historical Concerns:

Safety Concerns:

Attachments: Segment Map Sketch SCAT Form Fact Sheet Other

Prepared by: _____ Date Prepared: _____

Date					
Time					
	to SOSC	to Land Mgr	to SHPO	to EU Leader	to _____

Final Approval _____ **State OSC Rep** _____ **Federal OSC Rep** _____ **EU Lead**

Submitted to OPS _____

** When Treatment is completed, send a Segment Completion Report to SCAT **

SCAT Work Plan Appendix D – SEGMENT INSPECTION REPORT FORM

The following page shows the Segment Inspection Report form.

Segment Inspection Report for _____

Segment ID: _____ **Segment Name** _____
Survey Date: _____ **Survey Time:** _____
Tides: _____ **Weather:** _____
Inspection Completed Along Entire Segment: Yes / No

Result/Recommendation:

☐ No oil observed.

☐ Meets cleanup endpoints.

☐ No further treatment recommended.

☐ Further treatment recommended.

(Provide written details of issues and required actions.)

☐ Continued monitoring required.

(Provide written details of frequency and schedule.)

SCAT Team Members:

	Name	Signature
FOSC Rep		
SOSC Rep		
RP Rep		
Tribal/Landowner/Other Rep		

SCAT Work Plan Appendix E – PHOTO CONTENT/LOG

SCAT PHOTO LOG FORMAT

These standards should be reviewed and confirmed during each incident by the Data Manager.

Item	Format	Example
Date	Date	dd mmm yyyy
Time	Time	24 hour
Team	Team	N or L
Location Name *	Location Name *	text
Segment Number	Segment Number	LLL-NN
Ops Division *	Ops Division *	N or L
Latitude	Latitude	dd.ddddd
Longitude	Longitude	ddd.ddddd
Waypoint *	Waypoint *	NNN
Subject	Subject	text

* optional

NOTES:

1. Ensure the GPS is on with the "trackline" active. For aerial tracks, use a 1-second fix, for ground/walking use about a 2-second fix. **DO NOT KEEP THE SAVED TRACKLINES ON THE GPS** – download tracks to a computer file each day. NOTE: Do not save the track to the GPS. If you save to the GPS then the track fixes are averaged and so we lose the ability to sync the times of the track fixes to the photos.

2. Ensure GPS and camera times are close to sync particularly the time zone.

3. Take photo of GPS time at least twice a day.

4. **The purpose of the photographs is to document the character of any oil observed within a segment**. Do not take too many photos of the oiled zone or location as one or two good photos only are necessary for documentation.

5. If there is **no oil** found within in segment then only take two photos, one at the start and end of the segment. Preferably take a photo alongshore approximately at the High Water Level to record the general character of the segment.

6. Photography would be required if any cultural resources are identified.

7. **WAYPOINTS**: Not necessary to take a waypoint at every photo location, but is valuable for specific items of interest that are photographed (such as the start and/or end of an oiled area or a pit in which oil is found).

8. **SCALE**: For distant or panorama shots always try to have a person in the middle distance for scale. For close-up shots always use a scale (the back of the field note book scale is preferred rather than a pencil or a coin!!)

SCAT PHOTO LOG

INCIDENT NAME:

Time	Date	Team	Location	Segment	Ops Div	Lat	Long	Waypoint	Subject

SCAT Work Plan Appendix F – RECOMMENDED TREATMENT AND ENDPOINT PLAN for Bakkan Crude

Introduction

All spills have a point at which the active clean-up, removal, and recovery operations give way to natural processes of oil degradation. In most cases, this termination point is qualitative, developed through a consensus-based process and field verified by representatives from the Unified Command (UC) in consultation with the appropriate federal, state, and local trustees. In all cases, the endpoint is reached when responder safety would be compromised or the remaining oil presents less of a risk to the community and natural resources than the response and recovery methods available.

The determination as to cleanup methods, priorities, and termination will be made via UC representatives.

Completion of active shoreline countermeasures is a decision of the On-Scene Coordinator (OSC). Support of the OSC requires recommendations on shoreline countermeasures and also recommendations on when to terminate cleanup operations. Evaluating the results of countermeasures and the recommendation to terminate response efforts requires a consensus of members who may have varying interests and roles. One key element for all parties to examine is to determine if the continued use of a particular countermeasure will result in more damage to the environment than would occur as a result of terminating any active response measures.

The Endpoint Plan provides a cleanup endpoints and constraints for each shoreline type. There may be unique factors in any given segment that will require a different approach. At the end, there is a summary table of this information.

Endpoints for No Further Action

These guidelines establish endpoints for operations for the **Vancouver Energy Bakkan crude WCD internal tabletop exercise**. These endpoints may be amended to address as yet unforeseen circumstances and do not constitute shoreline restoration or full recovery criteria, which may be addressed through a longer-term process. These endpoints define the conclusion of cleanup operations while attempting to minimize overall impact (including those from operations) to sensitive resources.

Stranded Free Oil Product

- Oiled shorelines shall be free of bulk product and not produce rainbow sheen under all weather and tidal conditions.
- There shall be no appreciable mobile oiled debris that is recoverable. Oil film, stain and minor sheening may still be present if best professional judgment of the Environmental Unit determines that further recovery will not produce environmental benefit. Such residual oiling would be allowed to degrade naturally.

Specific Target Cleanup End-Points for Various Habitat Types:

Fine-Grain Sand Beaches

- Beaches shall be free of bulk oil and not produce rainbow sheen during tidal events.
- Light oil stain on beach sediment that does not produce rainbow sheen may be allowed to weather and degrade naturally.
- Minor residual sheen that is dull in color or silver may remain and weather naturally.

Do not remove unoiled wrack. Access to upland areas must be restricted to prevent additional environmental damage. Snare may be used for passive recovery of sheen adjacent to shoreline.

Bulkheads and Piers

- All hard structures shall be free of bulk oil and not produce sheens that would represent a secondary oil source.
- Minor residual sheen that is dull in color or silver may remain and weather naturally.

Where appropriate, clean-up crews may use a variety of flushing techniques from low pressure ambient water to high pressure/high volume ambient water flushing into containment and collection. High pressure should not be used where attached marine organisms (algae, bivalves, echinoderms) are abundant. Passive snare may be deployed. High pressure flushing will require segment specific approval from the EU.

Marshes /Tidal Mudflats

- These areas shall be free of free floating and potentially mobile oil, including oiled debris and wrack at the fringe marsh.
- There shall be no appreciable sheens released from marsh. Minor residual sheen that is dull in color or silver may remain and weather naturally.
- **Stay out of these areas unless otherwise directed.**

Aggressive cleanup on marshes/mudflats may actually cause greater long- term damage. **There must not be any physical cleanup activities in marsh areas that will cause damage to marsh vegetation or entrainment/entrapment of oil product into sediments**. Snare boom should be staked along the front edge of oiled marsh for passively recovery of sheens. These snares must be inspected and replaced routinely. Low pressure deluge flushing with ambient water may also be deployed from the upper marsh to flush product into containment and collection. Deployment of this technique should not involve walking into soft sediments or marsh vegetation. Best professional judgment by the Environmental Unit/SCAT will be used to determine if further treatment or cleanup would have no environmental benefit and may delay, rather than accelerate, recovery of the vegetation. This judgment will be based on fact, past studies or data from previous oil spills.

Riprap/Rubble

Type I Riprap is defined as shorelines that are not commonly accessed by the public or have sensitive wildlife concerns. Type I riprap should meet the following criteria:

- Oiled riprap shall be free of bulk oil and not produce appreciable sheen under all weather conditions.
- Some inaccessible patches of oil may not be feasible to remove.
- Safety is paramount. Areas of broken rebar and other damaged materials should

be avoided.
- Minor residual sheen that is dull in color or silver may remain and weather naturally.

High Public Use Areas

High Public Use Areas are defined as shorelines that have a greater potential for members of the public (and their pets) coming into direct contact with residual oil pollution and will likely necessitate a higher cleanup standard. The following additional cleanup criteria apply to public use area.

- No oil residues that would present a contact hazard to the public (residents, visitors, or pets).
- High Public Use or Public Access Areas will require "case-by-case" assessment and identification of cleanup requirements.

Where appropriate, clean-up crews may use a variety of flushing techniques from low pressure ambient water to high pressure/high volume ambient water flushing into containment and collection. High pressure should not be used where attached marine organisms (algae, bivalves, echinoderms) are abundant. Passive snare may be deployed.

Note: Because Bakkan crude is a very light oil, focus for cleanup will be on pooled and heavier concentrations only.

General Shoreline Treatment Recommendations and Endpoints

Additional treatment options may be beneficial or necessary for specific shoreline segments. This will be handled on a case by case basis.

Habitat Type	Cleanup Endpoints	Recommended Cleanup Methods	Constraints
Wetlands	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Snare boom should be staked along the front edge of oiled marsh for passively recovery of sheens. Collect heavily oiled debris by small boats at high tide. Any additional cleanup requires EU approval.	Do not disturb vegetated areas, even if oiled No foot traffic in vegetated wetland areas
Vegetated shorelines	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Manual removal of oily debris less than 4" diameter. Skimming and vacuum of floating oil on the water surface. Use flushing with sea water along the vegetated fringe to release trapped oil. Where remaining oil poses a significant threat to bird concentration areas, sorbent snare may be deployed. Such areas will be identified by the EU	There will be limited foot traffic in vegetated areas (access points only) During flushing, prevent suspension of bottom sediments (do not create a muddy plume) No cutting of vegetation at this time
Marshes/Tidal flats (mud and/or sand)	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Snare boom should be staked along the front edge of oiled tidal flat for passively recovery of oil and rainbow sheens. Collect heavily oiled debris by small boats at high tide, or on foot in firmer areas. Any additional cleanup requires EU approval.	Do not enter tidal flats to recover oil or oily debris if boots sink more than 2 inches into the mud.
Bulkheads and Piers	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a silver sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil Minimal use of sorbents	Do not remove or intentionally dislodge organisms on bulkheads or piers.
Rip rap/rubble shoreline	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a silver sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil. Passive snare may be deployed. Minimal use of sorbents	Do not remove or intentionally dislodge organisms on rip rap.
Fine grained sand shorelines, and mixed gravel	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil Minimal use of sorbents, snare is preferred	Use barriers and signs to prevent public access to oiled areas Do not remove unoiled wrack. Access to upland areas must be restricted to prevent collateral damage High Public Use or Public Access Areas will require segment specific recommendations.
Oiled Debris	Removal of all readily accessible heavily oiled debris (releases liquid oil when disturbed)	Manual removal using appropriate hand tools (rakes, pitchforks, etc.) of items less than 4 inches in diameter.	Do not remove clean or possibly oiled debris No cutting of vegetation allowed

SCAT Work Plan Appendix G – EXAMPLE Management, Planning, and Tracking Forms

SCAT TEAM DAILY LOGISTICS PLANNER

SCAT TEAM LOGISTICS for 18 Dec 2014					Issued : 18 Dec 2014 Time : 13:30	
Team	**Staff**		**Survey Area**	**Mission**	**Logistical Arrangements**	**Time**
SCAT #1	Team Lead	Andy Graham	OPS Div A	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 1	1230
	FED	**TBD**				
	STATE	**Dale Davis**				
	Tribal	**TBD**				
SCAT #2	Team Lead	Gary Mauseth	OPS Div B	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 1	1230
	FED	**TBD**				
	STATE	**Ron Holcomb**				
SCAT #3	Team Lead	Greg Challenger	OPS Div D	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 2	1230
	FED	**TBD**				
	STATE	**Sonja Larsen**				
	Tribal	**TBD**				
SCAT #4	Team Lead	Jose Rios 206 601 7911	Aerial	Aerial overview survey, as much of area as possible focusing on heavily oiled areas. Afternoon aerial reconnaissance of mud flats.	Helo	1400
	FED	**TBD**				
	STATE	**TBD**				

Mission Codes

SCAT = Standard Shoreline Oiling Assessment Survey **PTA** = Post-Treatment Assessment **SIR** = Segment Inspection Report Survey

OLS = OPS Liaison Support **BP** = Beach Profiling Survey **MON** = Monitoring **PM** = Photo-Monitoring

Time

Enter scheduled time for each logistics action

INITIAL SPILL RESPONSE SAMPLING PLAN – Vancouver Energy

Incident Name: **Bakken Crude Spill Drill**

Date: **January 5, 2015**

Submitted by:

Approved by:

FOSC	Date
WA- SOSC	Date
OR - SOSC	Date
RPIC	Date
LIC	Date

SPILL RESPONSE SAMPLING PLAN
TABLE OF CONTENTS

Introduction

This section sets forth the methodology and procedure for collecting, sampling, and storing oil, tar balls, soil/sediment, water and biota samples. This suggested sampling plan will facilitate the collection of samples that may be needed to assess the potential for natural resource damages resulting from an oil spill and assist with the characterization of the product as it relates to an effective response. This plan is not meant to be comprehensive and is meant to capture some initial time sensitive data until NRDA Trustees and or health regulatory authorities develop more detailed plans.

Section 1. OIL SAMPLING AND CHARACTERIZATION

1.1 Oil and Oiled Waste to be Tested

Oil sampling for physical and chemical characterization to aid in the response and Natural Resource Damage Assessment (NRDA) should be done immediately following the spill. Samples of the neat product from the tank where it was released and initial samples of oil on water and shoreline should be collected for characterization. Samples from the environment should be collected every few days while the spill response is ongoing to evaluate physical and chemical weathering of the oil. Physical and chemical analyses include specific gravity, flash point, pour point, total oil and grease, THC, GCFID saturated hydrocarbons, BTEX and PAH and Total Organic Carbon.

Some oiled waste material may be tested to determine if a) the waste is a federal or state hazardous waste, and b) if not hazardous, if the waste concentration is low enough in total oil and grease or total organic carbon to be accepted in the local landfill or RCRA Class III disposal facility.

Generally, Sampling 10% of an oiled waste stream would adequately characterize (i.e., one in ten bags of oily debris may be sampled or one in ten drums will be sampled) the material lost in a spill event. Spent oiled boom and sorbent material as well as contaminated soil, sand or other loose, natural material would be composite sampled as means to classify the material.

1.2 Sampling Procedures and Guidelines for Whole Oil

Oil and oily material sampling will follow guidelines to include at a minimum:

a) Third party contractors will be used to collect all neat and contaminated material samples.

b) Third party contractors will be used to gauge all tanks containing oil-water mixtures.

c) Samples will be collected in pre-cleaned glass containers provided by an accredited analytical laboratory.

d) Containers will be labeled with information such as the date, sample type, and sample location.

e) Solid material type samples (e.g., PPE) will be collected with the assistance of a clean utility knife or scissors.

f) Liquid samples will be collected with the assistance of an appropriate liquid sampling devices.

g) Sampling equipment will be decontaminated with isopropyl alcohol and water and thoroughly rinsed between each sample collected.

h) Nitrile or other protective gloves will be used for sample collection, and changed between samples to prevent cross contamination.

i) All used sampling equipment and contaminated material associated with sampling will be consolidated, containerized and moved to the Waste Staging Area.

j) Proper chain of custody protocol will be followed.

Section 2. SAMPLING PLAN FOR OIL-CONTAMINATED MEDIA

The Shoreline Oiling Summary form (see SCAT Plan) should be completed in conjunction with the water and sediment sampling. **Table 1** or a similar data management approach should be used to record information for all the samples collected during the oil spill response effort as part of sample data management.

2.1 Oiled Wildlife

The wildlife impacted from an oil spill may either be dead or alive at the time of collection, sampling, and storing. Dead wildlife should only be collected by retrieval groups authorized by the incident command center and brought to a Wildlife Recovery and Rehabilitation Center. All oiled wildlife should ultimately be routed to the Wildlife Recovery and Rehabilitation Center. Before permission is granted for removing oiled wildlife, specific guidance from the Wildlife Branch of the Operation Section will be provided.

Refer to specific sampling and retrieval instructions contained in the Oil Affected Animals and Animal Carcass Management Plan for wildlife sampling. Be prepared to provide the following:

- Dead or alive
- Species if known - if not, describe the animal/bird
- Number of animals/birds/nests
- If nest has been identified with flags
- Current environmental conditions
- Observer contact information
- Location of the animal/bird, preferably with GPS
- photographs and record noteworthy information

2.2 Sampling Protocol for Contaminated Soil/Sediment

The purpose of sampling the beach sediments (e.g., mud, sand and/or gravel) in unoiled areas is to determine the baseline concentration of oil fractions, especially potentially toxic ones such as aromatics, that are present prior to the spilled oil reaching the beach and to determine what

proportion of the petroleum hydrocarbon present comes from the spilled oil compared to other sources.

The emphasis of the ephemeral sampling program is on beaches that are unoiled, but are likely to be oiled. Sampling of oiled beaches, unoiled reference beaches, and oiled or unoiled rocky shores could be done by first-responders using the methods described below. However, once a beach is oiled, the oil is generally persistent for several days to weeks or months, and could be sampled by Tesoro staff or contractors at a later date under a NRDA sampling program developed in consultation with Natural Resource Trustees. Also, samples for sediment grain size and total organic carbon analyses can generally be deferred for a few days. Offshore and subtidal sediments are typically not affected by spilled oil in the first few days (except for oil that is heavier than water when released) and could also await sampling by Tesoro staff or contractors. Subtidal sampling requires either divers or specialized sampling equipment that may not be readily available to first-responders.

Samples should be obtained from the potentially oiled and unoiled reference areas in the following sequence of decreasing priority:

1. Areas ahead of the oil slick that have not been oiled but are likely to be within 24-48 hours.
2. Areas that have not been oiled, but may be 2-5 days hence.
3. Reference areas unlikely to be oiled.
4. Areas known or suspected to be oiled by the spill. A range of SCAT oiling conditions (H,M,L,VL) may be sampled.

Priority category (1) is the critical sampling effort and must be completed before oil reaches the area. Sampling of sediments in oiled areas can be left for a few days. Samples should be collected only once per location unless a “pre-oiled” location becomes an oiled location.

Within each of the potentially oiled areas, especially priority category (1), habitats should generally be sampled in the following sequence of decreasing priority:

1. Areas known or suspected to be utilized by threatened or endangered species.
2. Wetlands and/or mangrove swamps.
3. Tidal mudflats.
4. Sand/gravel beaches.

Field judgement may be used to modify this sequence. For example, if oil will reach a sand beach within 3 hours and a wetland after 12 hours, then the sand beach could be sampled first. Information on areas of specific habitats that are utilized by threatened or endangered species should be available from the Area Contingency Plan or Geographic Response Plan, and/or the local state or Federal fish and wildlife agencies. The proximity of these areas to the point of release and oil movement may dictate that the habitat areas are sampled first.

Collection of discrete samples should be performed in the priority sequence described above, preferably on the first day of the response. Subsequent sampling at the same locations will

probably be done by Tesoro or contractors, so station locations need to be marked and documented. Two types of chemical analyses will be completed: VOAs and TPH/PAHs.

Stations should be located at the same elevation relative to mean lower low water (MLLW) or other standard tidal datum used in the area. If practical, three tidal elevations should be sampled, in the following sequence of decreasing priority:

1. Mean high water here most of the oil is typically stranded and greatest intertidal beach recreation use occurs; though biological diversity is lower here.
2. Mean sea level where less oil is stranded but intertidal biological diversity begins to increase.
3. Mean low water where the least oil is stranded.

At each sample station, obtain at least three replicate samples within a 5-meter diameter. The sampling procedure for each sediment sample is described in the following eight steps:

- Prior to any sampling and after marking the station location, photograph or video the sampling site. Take video and/or the photos in both directions along the shore as well as from the waterline toward the backshore, and from the backshore to the waterline. Try to get permanent and distinctive landmarks in some photos and/or video for future reference.
- Collect sample with pre-cleaned core sampler, preferably stainless steel. Brass core liners or plastic, PVC, or acrylic pipe may be used if that is all that is available. Cores should be 10-cm long, if possible, and at least 2.5-cm, preferably 5-cm, in diameter. In gravel or small cobble, it may be necessary to dig the 10-cm deep sample out using a pre-cleaned trowel, spoon or similar tool.
- Fill out label on bottle with the following information: sample number (each sample container must have discrete number), sample type, date, location of sampling, analysis to be conducted, time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- Use 8-oz. Screw-cap jar with Teflon liners, preferably glassware pre-cleaned and provided by the analytical laboratory. Fill jar completely with soil/sediment if possible; a minimum of 100-ml is required for analysis. Replace cap and make sure cap cover is tightly sealed. As an alternative, the core can be left in the core sampler and frozen on dry ice at the site. This allows the sediment stratigraphy, if any, and depth of visible oil penetration into the sediment to be documented. The core can be sectioned, if needed.
- Wash all equipment that will be used to collect sample with solvent (preferably isopropyl alcohol or methanol) or Alconox detergent and rinse completely with distilled water prior to use and between each sample collection to prevent cross-contamination of samples. Equipment to be cleaned includes shovels, spatulas, mixing bowls, corers, etc.
- Place sample in an ice chest with dry ice if available or, at minimum, with frozen "Blue Ice" to maintain a temperature of 4° C. If Blue Ice is not available, use ice cubes or block of ice. Transfer to a freezer for temporary storage at –20° C.

- Samples should be sent to the laboratory within 24-48 hours, if possible, and held at -20° C prior to extraction. Maximum holding time prior to extraction and analysis is 14 days.
- Mark the location of the sample sites using stakes and flagging distances/directions to permanent landmarks, etc. so the stations can be relocated for subsequent sampling programs.

For all contaminated soil/sand sampling, the following guidelines will be used:

a) Samples will be collected in pre-cleaned glass containers from an accredited analytical laboratory.

b) Containers will be labeled with date and time, sample type, sample location, unique sample number, and the samplers' signature.

c) Samples will be collected with the assistance of a clean scooping device (either a one-time disposable or a device that can be decontaminated between each sample).

d) Reusable sampling equipment will be decontaminated with isopropyl alcohol and water between the collection of each sample.

e) Nitrile or other protective gloves will be worn during the collection of each individual sample and changed between samples.

f) Proper chain of custody protocol will be followed.

The samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected.

2.3 Sampling Protocol for Surface Water

The purpose of sampling the near surface water column (upper 1-meter) in unoiled and oiled areas is to determine the concentration of petroleum components and what portion of the petroleum hydrocarbons present may come from the spilled oil as a result of physical mixing, dissolution, adsorption to suspended particles, etc.

Petroleum components in the water column may be at concentrations that could be toxic to fish, crustaceans, plankton, and eggs and larvae, all of which may constitute substantial injury and thus monetary damages equal to the cost of providing equivalent services in the Natural Resource Damage Assessment (NRDA) process. The concentration of petroleum hydrocarbons in the upper 1-meter of the water column is highest in the first few hours to a day following a release of fresh oil, and decreases very rapidly. Therefore, first responders should collect water samples during the first day of the spill to document the time-concentration relationship.

The **first** priority is to collect samples in areas that are not yet affected by the oil, but which are expected to be affected based on trajectory analyses and professional opinion of the Unified Command. Begin with the sensitive areas that are likely to be oiled within the first few hours to 1-2 days.

The **second** priority is to collect samples in oiled areas, provided it is safe and permitted by the Unified Command. Within the oiled areas, the first priority is to sample in the main oil slick followed by sampling at the leading margin where the oil slick has begun to break up and the oil has begun to weather. If oil is already ashore, some sampling could be conducted in the offshore area adjacent to the oiled shoreline.

The **third** priority is to identify and sample reference areas. These are areas unlikely to be affected by the spill and that are similar to the affected areas. In general, the selection and sampling of reference areas should be left to Tesoro environmental personnel or their NRDA consultant in consultation with the trustees as appropriate.

The second and third priority samples should be collected within 48 hours after the spill, if practical. These samples may be collected by Tesoro, or environmental contractors, if they arrive within the first 24-48 hours.

Discrete samples should be collected in the priority sequence described above, beginning on the first day of the spill and at least once per day thereafter until Tesoro contractors arrive.

At each sample station, sampling should meet the following criteria:

- Three replicate samples from each sample depth (e.g., 0.5 meter, 2 meter, and 5 meter below water surface) will be collected.
- Samples should be taken as close in time and location as practical.
- Samples taken about 0.5 to 1-meter below the surface; additional sample depths may be taken at 2-meters and 5-meters below the surface if time and equipment allow, and if there has been sufficient wave energy to suggest that oil may be physically dispersed into the water column.
- Sampler to be cleaned between each sample (especially important for sample obtained in the oiled areas) using solvent (preferably isopropyl alcohol or methanol) or Alconox detergent plus distilled water rinse.
- Sampler must not be deployed directly through oil at the surface. If it is, the sampler must be decontaminated before being used again.

Samples should be obtained with a water sampler capable of obtaining at least 1-liter of water. The sampler should be deployed from the surface and kept closed during deployment and retrieval. Any visible oil at the water surface should be “moved aside” with a water hose, compressed air, or a paddle before sampler deployment. The sampler should be cleaned between samples. The preferred sampler is a Marble or Valskon sampler. If this sampler is not available, samples can be obtained at approximately 0.5-1.0 meter below the surface by holding a 1-pt or 1-gal jar under water, opening it, and closing it after the jar is filled. The sample can be poured into the specific sample jars with the volatile organic analysis (VOA) sample collected first.

Two types of samples will be obtained for chemical analyses: one for VOAs and one for TPH and polycyclic aromatic hydrocarbons (PAHs). For VOA:

- Use only standard, pre-cleaned, 40-ml glass, screw-cap, VOA vials with Teflon-faced silicone septum and containing 2 drops of hydrochloric acid as preservative. These will be provided by the laboratory.
- Fill out label on bottle with the following information: sample number, sample type (e.g., water), date, location of sampling, analysis to be conducted (e.g., volatile organic), time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- After retrieving the field sample, pour the VOA sample gently into bottle to prevent formation of air bubbles in the vial as it is being filled. Fill vial until a meniscus is formed over the lip of the vial. Cover with screw-cap lid. After tightening the lid, invert the bottle and tap to check for air bubbles. If bubbles are present, pour out the sample, add 2 drops of hydrochloric acid, and refill with sample.
- Seal each VOA vial in a separate plastic bag to prevent cross-contamination.
- Place sample in small ice chest with frozen "Blue-Ice" or ice cubes to maintain a temperature of 4° C.
- Transfer to refrigerator for storage at 4° C and send samples to analytical laboratory within 24-48 hours, if possible (maximum holding time prior to extraction and analysis is 7 days). Do not freeze.

For TPH and PAHs:

- Use only pre-cleaned amber glass bottles, preferably from an analytical laboratory. Five ml of 6N hydrochloric acid per liter of water should be added as a preservative. Preferably, the acid will be added by the laboratory; if not, it will need to be added by the field sampling team. Use one-liter, glass, screw-cap bottles with Teflon liners.
- Fill out label on bottle with the following information: sample number (each sample container must have a discrete number), sample type, date, location of sampling, analysis to be conducted (TPH and PAHs), time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- Carefully fill bottle completely with water. Replace the cap and check to make sure screw-cap covers are tightly in place.
- Place sample in small ice chest with frozen "Blue-Ice" to maintain a temperature of 4° C. If "Blue-Ice" is not available, use ice cubes or block of ice.
- Transfer to refrigerator for storage at 4° C and send samples to the analytical laboratory within 24-48 hours, if possible. Do not freeze water samples.

The following guidelines will be used for all surface-water sampling:

a) Samples will be collected in pre-cleaned glass containers obtained from an accredited analytical laboratory. All surface-water samples will contain a minimum volume of one liter.

b) Containers will be labeled with the date and time, sample type, sample location, unique sample number, and signed by the sampler.

c) Samples will be collected with the assistance of a clean collection device such as a Nanson bottle or Valskon sampler (either a one-time disposable or a device that can be decontaminated between each sample).

d) Reusable sampling equipment will be decontaminated with isopropyl alcohol and deionized water between collection of each sample.

e) Nitrile or other protective gloves will be worn during the collection of each individual sample and changed between samples.

f) Proper chain of custody protocol will be followed.

Surface water samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected.

2.4 Sampling Protocol for Tissue

Tissue samples may be collected to support various objectives during a natural resource damage assessment. Samples may be taken in proximity to oiled sediments or oil strandings to assist in evaluations of weathering and fingerprinting of oil; to investigate an exposure pathway; beneath floating oil to determine the degree to which constituents are being released into the water column; to support exposure and transport modeling; and for other reasons. Other samples may be taken for biological assessments.

Prior to collecting samples, a plan should be developed that clearly establishes sampling objectives including the types and locations of samples to be collected. This protocol establishes the procedures that ensure sample integrity and the reliability of chemical characterizations as evidence in a damage assessment case.

Other parameters – see group-specific work plan

Sampling Equipment

- Shovels, dredges, tongs, grabs or gloved hands are used to collect shellfish from intertidal and subtidal areas. For infaunal species, a screen is useful for sieving out sediment.
- All non-disposable sampling gear must be decontaminated before using and between sampling stations. Wash with laboratory-grade detergent and then rinse well with clean water. If taking multiple samples at an oiled station, decontaminate sampling equipment between samples.

Tissue Sample Collection Methods

- Take relevant photos at all sites before sampling (see GPS and photography bullet below).

- Attached organisms are pried away from the substrate with a knife, trowel, etc. Infaunal samples should be rinsed with clean site water to remove sediment. Collect live animals (shells intact and tightly closed) if possible. Note the condition of dead animals if collected.
- Wear nitrile or other non-contaminating gloves and change gloves after each sample to avoid cross-contamination.
- Refer to workgroup sampling plan for approximate number (volume) of individuals needed to obtain the estimated 30 g tissue wet weight for the target species. Don't shuck or filet!
- If fish or shellfish are collected only for fingerprinting purposes, individual size is not important so long as the required mass is gathered. For other objectives, e.g., morphometrics, gonad assessments, harvest or food-chain exposure, individuals may need to be an appropriate or similar size. If required by work plan, record individual size.
- Group all individuals for a sample into aluminum foil and placed in double Ziploc bags; or without foil, into a certified-clean glass jar. For bags, the inner bag is labeled with marker pen and a waterproof sample label placed between the two bags. Jars are labeled on an adhesive label and directly on the lid. Use clear tape to protect the paper label.
- Avoid sources of contamination such as exhaust fumes and engine cooling systems on vessels. Work up-wind of any exhausts. Segregate dirty/clean areas. Lay out clean substrates to work on and replace frequently. Take precautions so as not to cross-contamination of the site from oil on boots and shovels.
- If possible, sample least-oiled areas first, followed by the more contaminated areas to minimize risk of cross-contamination. Avoid sampling from creosoted pilings.
- Immediately place all samples in coolers on ice. Ship samples to the laboratory as soon as possible; samples should be received by the lab for processing or freezing within 7 days of collection. If holding samples for several days is unavoidable samples may be stored frozen before shipping to the laboratory.

2.4 Suggested Analyses

For all oil samples or samples contaminated by released oil, the following are recommended analyses:

- Volatile Organic Compounds
- Polycyclic Aromatic Hydrocarbons
- BTEX
- Total Petroleum Hydrocarbons (water only).
- TOC (sediment), % lipids and % water (tissues) as appropriate.
- Physical analyses for oil samples may include: gravity, pour point, flash point.
- Analyses for waste disposal will differ from NRDA analyses as indicated in the Waste Management Plan.

Samples will be transported in specially designated portable coolers. These supplies will be provided by Tesoro's accredited analytical laboratory. Tesoro's local contract analytical laboratory is:

Company name: Analytical Resources
Company address: 400 9th Avenue N, Seattle, WA 98109
Phone: (206) 695-6211
Fax: (206) 695-6201
Contact Name: Mary Lou Fox

OR

Company name: TestAmerica Portland
Company address: 9405 SW Nimbus Avenue
Beaverton, OR 97008-7145
Phone:503.906.9200
Fax: 503.906.9210

Record the presence of oil, weather conditions, etc. in field notes. Record GPS coordinates for each sample.

Take relevant photographs of the sampling locations and sample collection itself if possible. Make sure each photograph or series can be later associated with the corresponding sampling location GPS (see NRDA Field Photography Guidance). Do not delete, open or alter any photos.

Containers will be labeled with date and time, sample type, sample location (waste storage area number), unique sample number, and the samplers' signature. Labels will be provided by the contract analytical laboratory.

The samples will be stored in the field in chilled coolers (4° C). The samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected. Proper chain of custody protocol will be followed.

All sampling, COC, shipping, GPS and photo files are submitted to the data manager.

Section 3. Proposed Initial Sampling

Two sample groups are proposed; upstream and downstream. The downstream group will sample ahead of the oil in unoiled areas and the upstream group will collect reference data and work downstream as time allows.

The downstream group will begin at RM 50 and sample near each shoreline and in the middle of the river for a cross sectional sample of three sites. The nearshore samples should be in approximately 10 feet of water or less. At each site, surface water will be collected at depths

of < 1 meter, 2 and 5 meters (mid river only). A sediment grab sample will also be collected at each site. Two additional sediment samples will be collected on each river bank at the water level. This equals approximately 9 water samples and 5 sediment samples at each transect. This will be repeated every 5 miles up to the facility. Sample vessels should work from clean areas to dirty areas to avoid contamination of potentially clean samples.

The upstream group should collect two reference transect data sets upstream from the spill and work downstream to meet the other group as time allows.

This effort should be repeated after several days and again in the future as dictated by data results and more formal NRDA plans.

Tissue sampling will be dictated by formal NRDA plans; however, background data may be important. Tissue at several locations upstream and downstream is preferable.

TABLE 1
ENVIRONMENTAL SAMPLE COLLECTION SUMMARY
EVENT NAME: _____

Sample ID Number	Sample Collection Date	Sample Collection Time	Type of Sample [1]	Sample Collection Location	Intended Analyses [2]	Sampler's Name	Comments

[1]: SAMPLE TYPE
S=SOIL
SED=SEDIMENT
OIL=NEAT OIL
TAR=TAR BALLS/PATTIES
W=WATER

[2]: INTENDED ANALYSIS
VOA=VOLATILE ORGANICS
PAH=POLYSYSLIC AROMATIC HYDROCARBONS
TPH=TOTAL PETROLEUM HYDROCARBONS
HOLD=SAMPLE COLLECTED BUT HELD FOR FUTURE ANALYSIS

DEPARTMENT OF ECOLOGY
State of Washington

Spill Prevention, Preparedness, and Response Program
WASHINGTON STATE
Department of Ecology
Spill Prevention, Preparedness, and Response Program
Response Section
P.O. Box 47600, Olympia, WA 98504-7600
Office Phone: (360) 407-7455, Fax: (360) 407-7288 or toll free 1-800-664-9184

Recovered Oil Data Form

1. General Spill Information

Spill Date:_____ Spill Time (24 hr clock):_____ Potential Liable Party (PLP):_____

Clean-up Contractor (if different from PLP)_____

Spill Source_____ Spill Location_____

Oil Common Name (circle): Diesel/Gasoline/Jet Fuel/Kerosene/Lube oil/hydraulic oil/transformer mineral oil/bunker oil/ intermediate fuel oil #_____/crude oil_____/asphalt/vegetable oil/other_____

Non-Persistent ☐ *WAC 173-183-100(25)* Persistent ☐ *WAC 173-183-100(30)*

Specific Gravity_____ Specific Gravity_____(lab data attached yes ☐ no ☐)

Report all volumes in gallons

2. Mechanical/Hand Recovery Operations (skimmers, vacuum trucks, barges, other temporary storage devices)

Date & time recovery operations ended for liquids in storage device _____

Recovered water-oil mixture storage device location _____

Storage Device volume before recovery operations (ideal is zero) _____

- Storage device contents description _____
- Gallons of water _____
- Gallons of oil _____

Storage device volume after recovery operations _____

- Settling time (duration) _____
- Total water volume _____
- Total oil volume _____

For settling times less than 12 hours

- Depth of oil layer in storage device _____
- Storage device dimensions _____
- Percent oil content of water fraction _____
- Lab data attached from 2 samples of water fraction for each storage device yes ☐ no ☐

3. Oleophilic Sorbent Material recovery operations

Date & time used sorbent materials were removed from the water _____

Recovered sorbent material properly handled/stored (proper segregation, double bagged, sealed from rain) yes ☐ no ☐

Storage Location of spent sorbent material _____

Volumetric Data

- Total gallons of water-oil mixture squeezed from material _____
- Total water recovered _____
- Total oil recovered _____

Gravimetric Data

- Total weight of oiled sorbent material _____
- Total weight of pre-oiled sorbent material _____
- Total weight of oil in sorbent material (using 25% as water content – unless demonstrated to be different) _____
- Total gallons of oil in sorbent material _____

4. Oiled debris data

Date & time oiled debris was collected from the water's surface _____

Debris collection areas (List locations - only debris collected from the water's surface) _____

Oiled debris segregated from other oiled wastes yes ☐ no ☐

Water content minimized yes ☐ no ☐

Percent oil content _____

(Lab data attached for minimum of 2 samples from each collection area) yes ☐ no ☐

- Total weight of oiled debris _____
- Total weight of oil in debris _____
- Total gallons of oil in debris _____

5. Signature Block

I attest that the above information is accurate to the best of my knowledge _____

PLP or Representative Signature Date

I accept the above information and have made the following determination:

Effective Containment yes ☐ no ☐ Shoreline contact of spill yes ☐ no ☐

Signature of State On-Scene Coordinator _____ Date_____

This form complies with the requirements of WAC 173-183-870.

For questions regarding this form or the Oil Recovery Credit Process contact:
Dale Davis (360) 407-6972 or Alison Meyers (360) 407-7114

Data Package for Dilbit

1. General Plan

2. ADIOS Program for Oil Spill Fate and Transport Modeling
   - Spill Scenario Inputs
   - Oil Budget Table

3. Spill Response Safety Plan
   - Safety Data Sheet included

4. Resources at Risk, GRP Sites, and Protection Areas (ICS 232 and ICS 232a)

5. Operational Task Forces, Equipment, and Assignments (ICS 210)
   - Protection
   - Recovery
   - Shoreline
   - SCAT
   - Special

6. Tactical Planning of Field Activities (ICS 215)

7. WRRL Resource Forms
   - Overall
   - By Response Hour

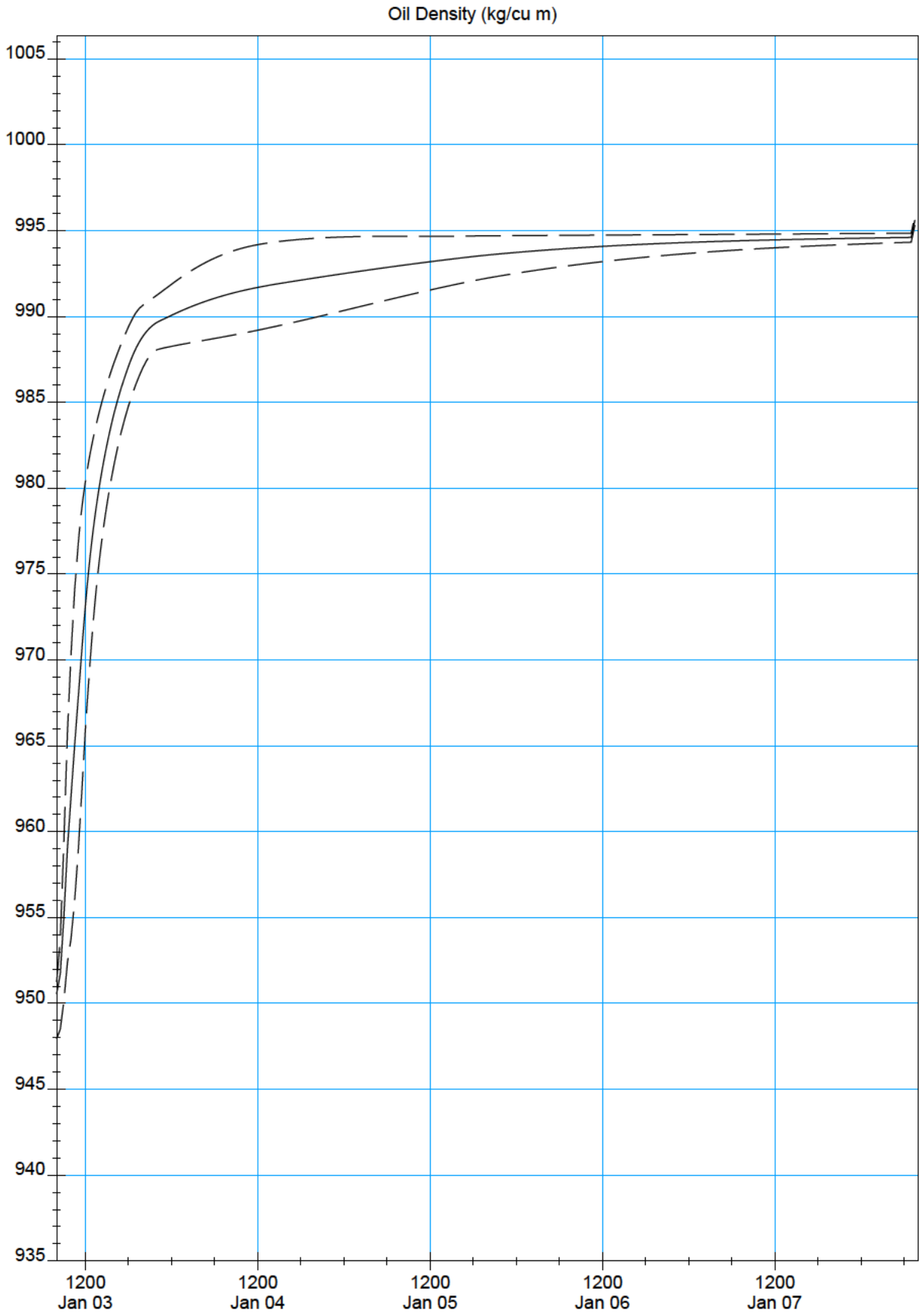
8. Environmental Plans
   - Waste Management and Disposal Plan
   - Decontamination Plan
   - Oil-Affected Wildlife Management Plan
   - Recovered Oil and Water Management Plan
   - Shoreline Cleanup Assessment Technique (SCAT) Plan
   - Spill Response Sampling Plan

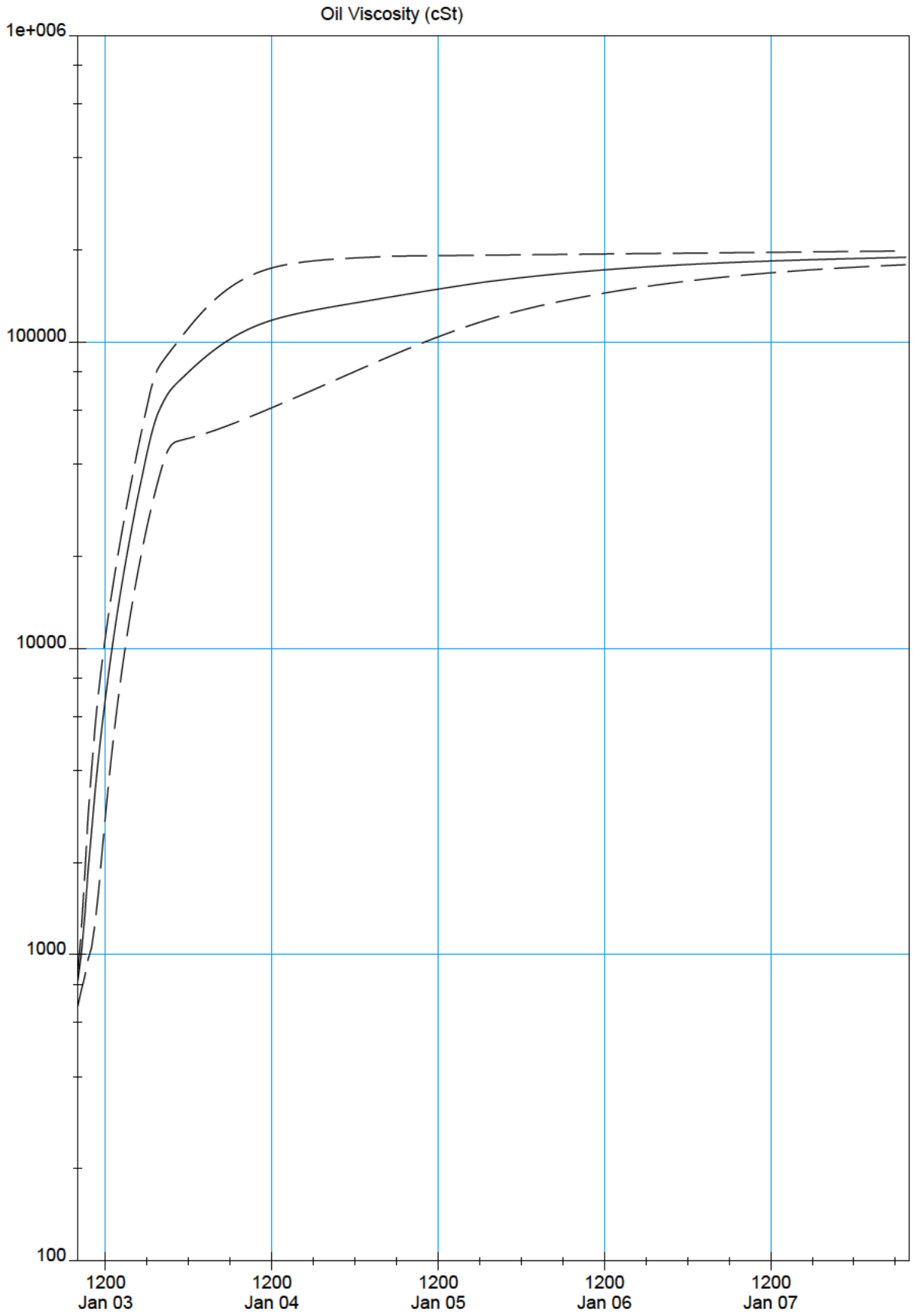
9. Submerged Oil Assessment and Recovery
   - Submerged Oil Assessment and Recovery Plan
   - ICS Form 213, Submerged Oil Message

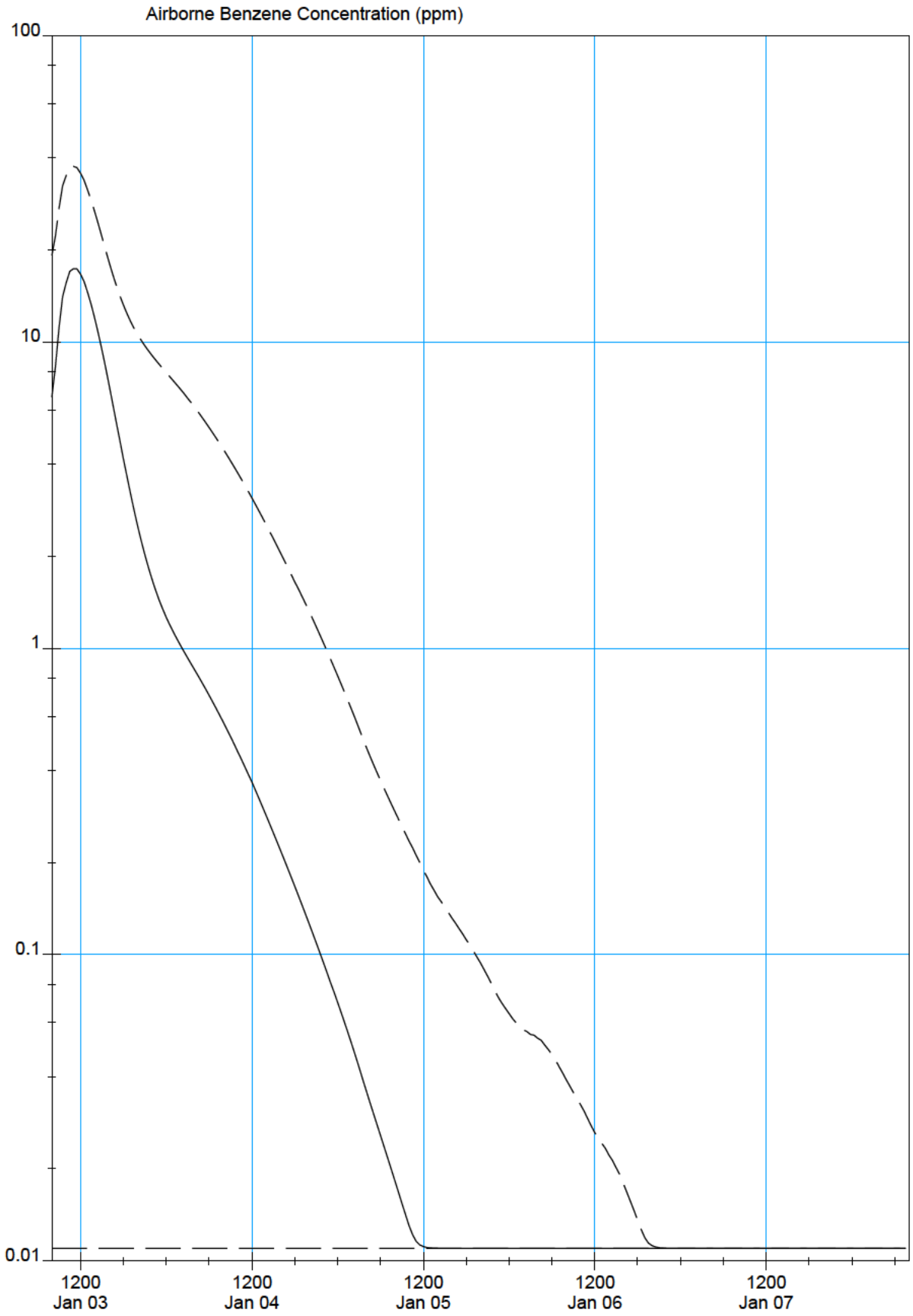
1. Incident Name	Dilbit Exercise	GENERAL PLAN
2. Prepared By	E Taylor	Date/Time Prepared
3. Operational Period (Date/Time) From: 3 Jan To: March		
4. Notification (Date and time completed)		5. Response Initiation (Date and time completed)

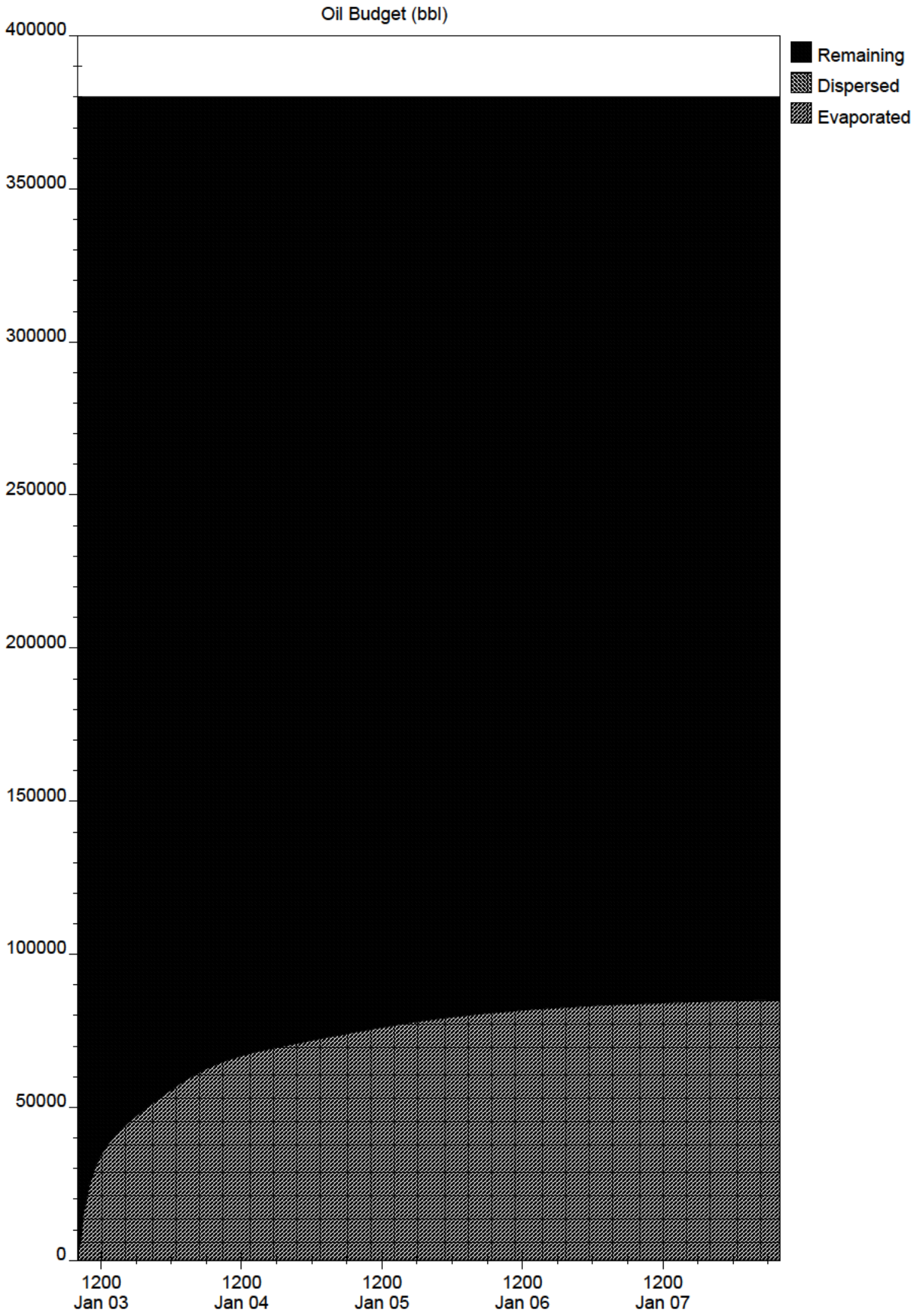
6. Plan Item	Timeframe ==> (Weeks)	1	2	3	4	5	6	7	8	9	10
Site Characterization, Forecasts, and Analysis											
Site Safety											
Site Security											
Source Stabilization, Salvage, and Lightering											
Surveillance											
On Water Containment and Recovery											
Identify Sensitive Areas / Resources at Risk											
Alternative Response Technology											
Shoreline Protection and Recovery											
Groundwater Remediation											
Wildlife Protection and Rehabilitation											
Logistics Support											
Response Organization											
Communications											
Public Information											
Financial Management and Cost Documentation											
NRDA and Claims											
Training											
Information Management											
Restoration / Mitigation											
Waste Management											
Demobilization											

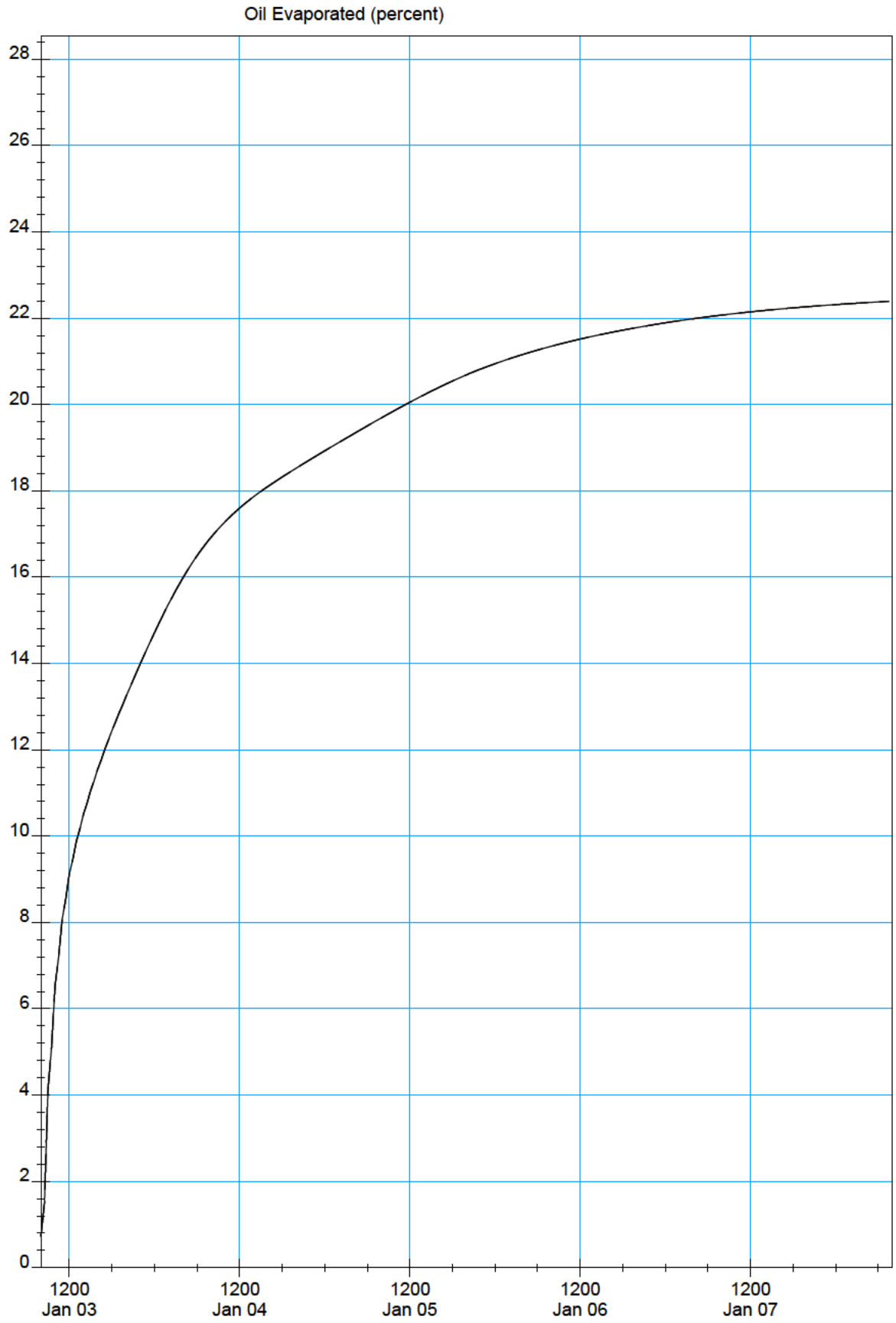
- **Oil Type**
  - **Dilbit - Cold Lake Pipeline Spec (custom oil)**
  - **Location = ALBERTA, CANADA**
  - **Synonyms = COLD LAKE DILBIT**
  - **Product Type = crude**
  - **API = 18.9**
  - **Pour Point = -45 deg C**
  - **Flash Point = -35 deg C**
  - **Density = 0.940 g/cc at 15 deg C**
  - **Viscosity = 350.0 cSt at 15 deg C**
  - **Adhesion = unknown**
  - **Aromatics = unknown**
- **Wind and Wave Conditions**
  - **Wind Speed = 10 knots from 110 degrees**
- **Water Properties**
  - **Temperature = 40 deg F**
  - **Salinity = 0 ppt**
  - **Sediment Load = 50 g/m3 (avg. river/estuary)**
  - **Current = 0.9 knots towards 0 degrees**
- **Release Information**
  - **Instantaneous Release**
    - **Time of Release = January 03, 0800 hours**
    - **Amount Spilled = 380000 bbl**


Oil Density (kg/cu m)
1005
1000
995
990
985
980
975
970
965
960
955
950
945
940
935
1200
Jan 03
1200
Jan 04
1200
Jan 05
1200
Jan 06
1200
Jan 07


Oil Viscosity (cSt)
1e+006
100000
10000
1000
100
1200
Jan 03
1200
Jan 04
1200
Jan 05
1200
Jan 06
1200
Jan 07


Airborne Benzene Concentration (ppm)
100
10
1
0.1
0.01
1200
Jan 03
1200
Jan 04
1200
Jan 05
1200
Jan 06
1200
Jan 07


Oil Budget (bbl)
400000
350000
300000
250000
200000
150000
100000
50000
0
Remaining
Dispersed
Evaporated
1200
Jan 03
1200
Jan 04
1200
Jan 05
1200
Jan 06
1200
Jan 07


Oil Evaporated (percent)
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
1200
Jan 03
1200
Jan 04
1200
Jan 05
1200
Jan 06
1200
Jan 07

Spill Scenario - Oil Budget Table

Oil Name = Dilbit - Cold Lake Pipeline Spec (custom oil)
API = 18.9 Pour Point = -45 deg C
Wind Speed = constant at 10 knotsWave Height = computed from winds
Water temperature = 40 deg F
Time of Initial Release = January 03, 0800 hours
Total amount of Oil Released = 380000 bbl

Hours Into Spill	Released bbl		Evaporated percent		Dispersed percent		Remaining percent
1	380,000	-	1	-	0	-	99
2	380,000		5		0		95
4	380,000	-	9	-	0	-	91
6	380,000		10		0		90
8	380,000	-	11	-	0	-	89
10	380,000		12		0		88
12	380,000	-	13	-	0	-	87
18	380,000		15		0		85
24	380,000	-	17	-	0	-	83
30	380,000		18		0		82
36	380,000	-	18	-	0	-	82
42	380,000		19		0		81
48	380,000	-	20	-	0	-	80
54	380,000		20		0		80
60	380,000	-	21	-	0	-	79
66	380,000		21		0		79
72	380,000	-	21	-	0	-	79
78	380,000		22		0		78
84	380,000	-	22	-	0	-	78
90	380,000		22		0		78
96	380,000	-	22	-	0	-	78
102	380,000		22		0		78
108	380,000	-	22	-	0	-	78
114	380,000		22		0		78
120	380,000	-	22	-	0	-	78

PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Dilbit Exercise **DATE PREPARED:** 3 Jan 2016

OPERATIONAL PERIOD: 3 Jan 2016 – 4 Jan 2016

Safety Plan

APPROVED BY:

Security Officer	**DATE**
Safety Officer	**DATE**
RPIC	**DATE**
FOSC	**DATE**
SOSC- OR	**DATE**
SOSC- WA	**DATE**
LOSC	**DATE**

COMMENTS:

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SECTION 1 – INCIDENT DESCRIPTION

WORK SITE: Vancouver Wa	INCIDENT: Vancouver Energy Diluted Bitumen
DATE/TIME: 3 January 2016	SHIFT: Operational Period
PRODUCT: Diluted Bitumen	SDS (Attached): X
SAFETY OFFICER:	CONTACT RADIO FREQUENCY & PHONE NUMBER:
INCIDENT COMMANDER:	CONTACT RADIO FREQUENCY & PHONE NUMBER:

1.1 EVENT DESCRIPTION

Type of Event:

___ SHIP OR BARGE ___ PIPELINE _**X**_ STORAGE TANK

___ OTHER: _____

Event Description:

Facility spill of 380,000 bbls into Columbia River at RM 105. Worst case discharge with no containment.

1.1 HAZARDS:

Check all that apply:

Oxygen	___	Slips, Trips & Falls	X
Explosive Vapors >10% LEL	___	Wind Chill	X
Benzene	X	High Winds	___
H2S	X	Working 4' Over the Ground	X
High CO	___	Night Ops	X
Fire Hazard	X	Pinch Points	X
Skin Exposure	X	Hypothermia	X
Eye Hazards	X	Other (working on water)	___
Heat Stress	___		

1.2 METEOROLOGICAL OUTLOOK

Current Weather Conditions				Forecasted Weather Conditions			
Wind Speed:	10 mph	Wind Direction:	N	Wind Speed:	Same	Wind Direction:	
Air Temperature:	40 F	Ceiling:		Air Temperature:		Ceiling:	
Precipitation:	Rain X	Snow		Precipitation:	Rain	Snow	
Comments:	Possible freezing rain			Comments:			
Current Water Conditions				**Forecasted Water Conditions**			
Water Temperature:	40 F			Water Temperature:	40		
Wave Height:	0-1	Wave Direction:	NA	Wave Height:	0-1	Wave Direction:	
Current Speed:	0.8 kts	Current Direction:		Current Speed:	0.8	Current Direction:	
Tide Forecast Location:	Longview WA			Tide Forecast Location:			
Low Tide Times:	0436	Low Tide Levels:	1.9’	Low Tide Times:	0532	Low Tide Levels:	2.0’
	1914		1.8’		2012		1.6’
High Tide Times:	1046	High Tide Levels:	5.1	High Tide Times:	0012	High Tide Levels:	5.0’
					1132		3.1’
Comments:				Comments:			
Today’s Sunrise/Sunset				**Tomorrow’s Sunrise/Sunset**			
Sunrise Time:	0750	Sunset Time:	1653	Sunrise Time:	0748	Sunset Time:	1655
Comments:				Comments:			
Watches/Warnings/Advisories:							

1 knot = 1.15 mph

SECTION 2 – SAFETY GUIDELINES

2.1 SITE SAFETY

1. This initial plan is intended to provide guidance for the Site Supervisors, Responders and Contractors for post-emergency response to an oil spill.

2. No smoking, eating or drinking is allowed in contaminated areas; smoking will be allowed in the support zone (cold zone) in designated areas only.

3. Work sites and boats are limited to authorized personnel only.

4. A list of personnel on each job site will be kept for each shift showing arrival and departure from the site.

5. The operator of any vessel is responsible for the overall operation of the vessel and is in charge of all emergencies aboard that vessel.

6. Employees and contractors shall:
   a. Report all injuries, illness or near miss incidents to the Site Supervisor, Safety Officer or Section Chief.
   b. Read and sign the Site Safety Plan before starting work at the job site.
   c. Sign the log sheet for each safety briefing.
   d. Report all illness, injuries, or medications they are taking to their Site Supervisor prior to entry or upon exiting the job site.
   e. Report unsafe acts or conditions to the Site Supervisor or the Site Safety Officer. If unsafe conditions or work practices are observed, stop those operations immediately.
   f. Be responsible for inspecting their personal protection equipment (PPE) prior to entry into a job site.
   g. Use the "buddy system" and monitor each other for job-related injuries, exposure to the elements, or any other abnormal behavior.

2.2 MATERIAL SAFETY DATA SHEETS

1. An MSDS will be made available and reviewed by all employees and subcontractors at the job site as part of the Site Safety Plan.

2. Specific Information that should be noted from the MSDS is: Product name, Date of MSDS, Hazardous components, Chemical and Physical characteristics, and Health hazards.

2.3 SAFETY EQUIPMENT – PPE

Conventational Safety Equipment

REQUIRED (yes/no)		PPE TYPE	COMMENTS
YES		Personal Floatation Device	Over water/onboard ship
	NO	Hardhat	At all times
YES		Safety Glasses	Helo pad/wildlife handling
YES		Goggles	Clean up/chemical handling /splash hazards
YES		Hearing Protection	Helo pad/equipment operation
YES		Gloves (Material)	Nitrile/PVC when handling oils and/or chemicals/clean up operations
YES		Rubber Boots	Nitrile/PVC when handling oils and/or chemicals/clean up operations
YES		Yellow Rain Gear	Inclimate weather/handling oils and/or chemicals/clean up operations
YES		Other	Chemical Tyvek may also be used for oil clean up

Additional Safety Equipment

REQUIRED (yes/no)		PPE TYPE	COMMENTS
YES		Half Mask Respirator	As required by air monitoring results
	NO	Full Face Respirator	As required by air monitoring results
	NO	Supplied Air	As required by air monitoring results
		Other	

PPE indicated above is required for entry into Hot Zone areas.

2.4 DAILY DECONTAMINATION GUIDELINES FOR PERSONNEL

1. Three zones will be established and identified as the Hot Zone, Decon Areas and Cold Zone. Decon of equipment and/or personnel will take place in the two designated Decon Areas.

2. Personnel working inside the Hot Zone must check in and out of the Hot Zone. The Buddy System is in effect for all work parties. No one is allowed to enter or leave the site alone.

3. Decon Areas are provided as a control point for decontamination of individuals leaving a contaminated area. It is key in preventing the spread of contamination as well as providing worker support. These areas are identified on the Spill Plan Worksheets.

4. Decon procedures will be explained to response personnel prior to starting work at the job site. This document provides an organized method by which levels of contamination are reduced.

2.5 OFFSITE CONTROL

Response Zones
Control boundaries have been established and the Hot Zone (contaminated area), Decon Areas, and Cold Zone have been identified as follows, (refer to the Spill Plan Work Sheet):

Hot Zone - areas involved with the clean up operations.

Decon Areas and Wildlife handling areas will be adjacent to the hot zones.

Cold Zone - all areas immediately outside the hot zone.

No unauthorized person should be within these areas. No persons shall be in the Hot Zones without proper PPE.

Coordinating access control and on site security will be coordinated by: Tesoro Safety

The Onsite Command Post has been established at: **Red Lion Hotel, Jantzen Beach**

Community Safety:
Roads: I-5 access
Boaters: USCG Patrol
Surrounding Community:
Sheriff: Clark County Sheriff's Office:
Street Address: 707 West 13th Street
Vancouver, WA 98660
Mailing Address: P.O. Box 410,
Vancouver, WA 98666
Main phone: (360) 397-2211
Air: Portland (PDX) Air Traffic Control

2.6 COMMUNICATIONS

1. Channel # and Name has been designated as the radio frequency for personnel in Hot Zone.

   Other channels for spill activities are:
   - Air Ops. – Freq. 121.500
   - Air medical to Ambulance – Freq. 154.430
   - Bird Rescue – Channel 16

2. Personnel in the Hot Zone will remain in constant radio communication or within sight of the Site Supervisor. Any failure of radio communication requires an evaluation of whether personnel should leave the Hot Zone.

3. The emergency signal to indicate that all personnel should leave the Hot Zone is to announce "Evacuate" over all radio channels.

4. The following standard hand signals will be used in case of radio failure:

Hands on top of head:	Need assistance
Thumbs up:	I am all right, I understand
Thumbs down:	Negative

2.7 PERSONNEL AND ENVIRONMENTAL MONITORING

Monitoring plan, to include substance monitored, monitoring equipment and frequency.

HAZARD	MONITORING INSTRUMENT	FREQUENCY			
LEL	Industrial Scientific TMX 410	continuous	hourly	daily	other
BENZENE	Drager model GV-100	continuous	hourly	daily	other
H2S	Industrial Scientific HMX 271	continuous	hourly	daily	other
OTHER		continuous	hourly	daily	other

Personnel Monitoring

Initial Air monitoring performed. Based on findings, **respiratory protection is required for intial responders and in areas of concentrated oil**. Elsewhere, monitoring results for LEL, Benzene, and H2S have shown that all exposures are below the PEL's. Air monitoring will be performed prior to each shift and/or prior to each new task being performed.

Monitoring for LEL and H2S to be performed prior to and while working under docks or other semi-confined to confined spaces. A safe work permit needs to be issued for these operations.

Environmental Monitoring
Initial monitoring to be performed and additional monitoring performed based on initial readings and changing conditions.

2.8 TRAINING

All Responders involved in these operations shall have been appropriately trained in emergency response procedures in accordance with the Tesoro Northwest Oil Spill Response Plan. They shall have been trained to the HAZWOPER level prescribed for them by the Tesoro training database.

All Tesoro Contractor personnel involved in these operations shall have been appropriately trained in emergency response and the appropriate HAZWOPER level.

2.9 EMERGENCY PROCEDURES

Onsite personnel will use the following standard emergency procedures. The Site Safety Officer shall be notified of any onsite emergencies and be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury in the Hot Zone:
Upon notification of an injury in the Hot Zone, the designated emergency signal shall be sounded. All site personnel shall assemble at the decontamination line. The rescue team will enter the Hot Zone (if required) to remove the injured person to the hotline. The Site Safety Officer, Operations Coordinator and Site Supervisor should evaluate the nature of the injury, and the affected person should be decontaminated to the extent possible prior to movement to the Cold Zone. The onsite first responders shall initiate appropriate first aid, and contact should be made for an ambulance. No persons shall reenter the Hot Zone until the cause of the injury or symptoms is determined.

Personnel Injury in the Cold Zone:
Upon notification of an injury in the Cold Zone, the Operations Coordinator and Site Safety Officer will assess the nature of the injury. If the cause of the injury of loss of the injured person does not affect the performance of the onsite personnel, operations may continue. If the injury increases the risk to others, the designated Emergency Stop Alarm will be sounded and all site personnel shall move to the decontamination line for

further instructions. Activities on site will stop until the added risk is removed or minimized.

Fire/Explosion:
Upon notification of fire or explosion on site, or the need for rescue, the designated Emergency Stop Alarm will be sounded and all site personnel shall assemble at the decontamination line. Onsite coordinators will account for there personnel and all unaffected personnel will be moved to a safe distance form the involved area.

Personnel Equipment Failure:
If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Hot Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure:
If any other equipment on site fails to operate properly, the Operation Coordinator and Site Safety Officer shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety or personnel or prevents completion of the work plan tasks, all personnel shall leave the Hot Zone until the situation is evaluated and appropriate actions taken.

Emergency Escape Routes:
The following emergency escape routes are designated for use in those situations where egress from the Hot Zone cannot occur through the Decon Area: Take the shortest, upwind evacuation route out of the HOT ZONE. Assembly point for evacuation is the closest, safest decon site.

In all situations, when an onsite emergency results in evacuation of the Hot Zone, personnel shall not reenter until:

- The conditions resulting in the emergency have been corrected.
- The hazards have been reassessed.
- The Site Safety Plan has been reviewed.
- Site personnel have been briefed on any changes in the Site Safety Plan.

SECTION 3 – OIL SPILL RESPONSE SAFETY INFORMATION

The ultimate responsibility for safety rests with the individuals. At all times, they should keep the following safety cycle in mind:

1. Decide to work safely.
2. Exercise good judgement and common sense.
3. Observe all safety regulations and instructions.
4. Think about prevention of unsafe acts.
5. Stop if unsafe conditions are observed.

It is also important to watch out for your fellow worker. When ever possible, the buddy system should be adopted. Keep an eye out for unsafe acts or unsafe conditions that your fellow worker may not be aware of.

During the conduct of response operations, there may be exposure to chemical and / or physical hazards such as:

- Inhalation of vapors
- Irritation of the skin
- Elevated or lowered body temperatures due to work environment.
- Exhaustion from long hours of demanding work.
- Stress, both physical and mental.
- Injuries due to lifting and body positioning.
- Cuts, bruises, sprains and strains.
- High levels of noise.

To eliminate or reduce these hazards to the maximum extent, it is imperative that the procedures prescribed in the following sections are followed.

3.1 GENERAL SAFETY PRACTICES

- Exercise good sound judgment and common sense
- Follow supervisor's instructions
- Be alert to health and safety hazards
- Attend all required safety meetings
- Wear proper safety equipment
- Set good examples for others
- Make sure tools and equipment are in good working condition.
- Use all tools and equipment as designed.
- Store tools and equipment safely after use.
- Avoid carrying loads that extend above eye level or otherwise obstruct vision.
- Size up loads before attempting to lift. Get help when needed.
- Observe all warning signs.
- Report all injuries when they occur.
- Keep work areas clear. Good housekeeping is a must.

3.2 BOAT AND WATER SAFETY

When boarding a boat, each individual should:

- Have their hands free to ensure good balance
- Know who the vessel captain is. The vessel captain has ultimate authority over all persons on the boat.
- Become familiar with the layout of the boat.
- Know where emergency equipment is located and how to use it (i.e. fire extinguisher, life jackets, life rings, and life rafts).

- Board a vessel only with a U.S.Coast Guard approved personal floatation device. Wear the device properly.

Onboard Vessel
While onboard the vessel:

- Watch out for slippery deck surfaces, especially if they are covered or stained with spilled oil. Use sorbant pads to clean up oil and/or to improve traction along walkways.
- Watch for erratic boat motions. Use safety lines when working on the deck.
- Avoid taking medicines for seasickness because they induce drowsiness
- Maintain awareness of other activities underway while performing your tasks.
- Maintain good housekeeping practices. Keep clear of ropes and lines.
- Wear gloves while handling ropes and cables.
- Wear a personal floatation device.
- Keep safety railings and/or chains in place until it is necessary to remove them to work. Replace railings/chains as soon as possible.

Capsized Craft
If the craft capsizes:

- Make every effort to get out of the water and onto the hull of the craft. If the craft continues to float, it is usually better to remain with it.
- The craft will be seen, and more easily located by rescue personnel than a lone person.
- If you cannot get out of the water, remain calm. Conserve your energy. Float as still as possible with legs together, elbows close to sides, and arms folded across the front of your lifejacket.
- Try to raise an alarm.

Overboard Victim
If a person sees someone fall overboard, the observer should:

- Watch victim constantly. Point to the victim while raising the alarm.
- Notify others by calling "Man Overboard".
- Obtain a life ring to assist in retrieving the victim.

If the overboard victim is rational but shivering when pulled onboard, have them remove wet clothes, put on dry clothing or a blanket, and rest in a warm environment.

If semiconscious or unconscious:

- Check for breathing and heartbeat. Administer CPR in necessary.
- Move victim to a warm environment
- Remove victim's clothes. Do not massage the skin
- Insulate the victim from further heat loss. Wrap in a blanket.
- Do not attempt aggressive warming.
- Gentle warming can be attempted by placing a bottle filled with warm water next to victims head, neck, arm pits, or groin
- Do not give the victim anything to eat or drink, and never offer alcohol.

3.3 VEHICLE SAFETY

All persons called upon to operate a vehicle should:

- Always carry a valid driver's license.
- Wear a seat belt.
- Be familiar with the vehicle's equipment and operation.
- Keep windows and mirrors clean and unobstructed at all times.
- Report any accident or unsafe condition to their supervisor.
- Obey all rules of the road.
- Never engage in horseplay.
- **Drivers can not use cell phones or radios while operating the vehicle**.

3.4 EQUIPMENT SAFETY

The key to equipment safety is knowing how to operate a piece of equipment. If you have not been trained and understand how to operate a piece of equipment, notify your supervisor. While operating equipment, observe the following:

- Keep alert at all times. Know and follow signals of the operators.
- Wear the proper PPE.
- Do not wear loose fitting clothing. Keep hair tied up in such a way that it cannot come into contact with rotating parts.
- Know the safety features of the equipment. Know how to shut down and secure the equipment should an emergency occur.
- Do not operate electrical equipment while standing in water.
- Use walkways and steps where provided. Do not take short cuts.
- Use the proper tools. Do not use tools or equipment for something they were not intended.
- Follow manufactures recommendations and guidelines for equipment and tools.

3.5 HELICOPTER SAFETY

When approaching a helicopter, a person should;

- Look for the pilot to give a hand signal when it is safe to approach the helicopter.
- Always walk towards the front of the helicopter. Never walk towards or around the rear of a helicopter, even when it is idle.
- Wear a hard hat, and use one's hand to secure it to one's head.
- Wear proper eye protection.
- Ensure the pilot brief's the passenger on safety procedures before each flight.

3.6 CHEMICAL HAZARDS

Depending on the specific operations conducted at the spill scene, a person may be exposed to the following substances:

- Crude Oil
- Hydrogen Sulfide
- Cleaning agents

Safety Data Sheets (SDS), describing the specific hazards and precautions to be taken when handling each of these products will be available for inspection on the site. Follow precautions carefully.

All containers should be labeled as to their contents. If the containers are unidentified or unlabeled, they should notify their supervisor and not handle the container until it has been properly identified and labeled.

3.7 PHYSICAL HAZARDS

Hypothermia
Water Temperature and air temperature can be low enough to expose the body to rapid heat loss and a cooling of the body core temperature. In cold water, the body will lose heat many times faster than in the air. Even outside the water, wet clothing will conduct heat away from the body much faster than dry clothing. Normally a combination of climatic/environmental and body factors results in a person suffering from hypothermia.

Symptoms of hypothermia include:

- Continual shivering and paleness.
- Lack of coordination
- Slurring of speech
- Lack of concentration
- Dazed or confused behavior

When a person suffers from severe hypothermia, shivering will stop, blood pressure will drop substantially, consciousness will be clouded, respiration will decrease, and the victim's muscles will become rigid. Unconsciousness will ultimately occur, and death may be imminent.

To protect against hypothermia, a person should:

- Be aware of the weather, check the forecast
- Wear appropriate clothing
- If clothing becomes wet, remove it and dry it as much as possible before putting it back on
- Control sweating by removing layers of clothing so that a uniform body temperature is maintained
- Replenish energy by taking breaks for food and warm liquids

New wind chill chart

Frostbite occurs in 15 minutes or less

Wind (MPH) \ Temperature (°F)	30	25	20	15	10	5	0	-5	-10	-15	-10	-25
5	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40
10	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47
15	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51
20	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55
25	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58
30	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60
35	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62
40	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64
45	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65
50	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67
55	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68
60	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69

http://usatoday30.usatoday.com/weather/winter/windchill/wind-chill-chart.htm

Noise

Response operations may require the use of generators, pumps, compressors, engines, and other equipment that generate high levels of noise. Short-term exposure to extremely loud noise and/or long-term exposure to low level noise can cause hearing loss. If a worker is assigned to a high noise area, they should wear proper hearing protection.

Dehydration and Heat Stress

Response operations can involve strenuous activities that can, even in relatively cool weather, lead to excessive sweating. This is even more likely to occur when wearing protective clothing that may reduce the body's ability to discard excess heat. This may lead to dehydration, heat rash, heat cramps, heat exhaustion, and possibly heat stroke.

Symptoms of dehydration:

- Cramping in arms, legs or abdomen
- Feeling faint, dizziness or fatigue

Need to take time to rest, preferably in a shady area, and rehydrate by drinking decaffeinated, non-alcoholic fluids

Symptoms of heat exhaustion:

- Faint, dizzy, nauseous feeling
- Sweating heavily or has pale skin color
- Rapid shallow breathing
- Dilated pupils, weak rapid pulse

Need to report to a first aid station immediately

Heat stroke is a life threatening condition. The body must be cooled down immediately. It is imperative to get medical attention at once.

Lifting hazards:
The following rules for safe lifting practices should be observed:

- Plan the lift and route to travel with the load prior to lifting.
- Know the approximate weight of the object prior to lifting.
- Lift with legs, keep back straight, knees bend, squat down to lift.
- Stand up slowly, keeping the load close to the body.
- Use wide balanced stance, with one foot ahead of the other.
- Move feet to change direction, do not twist at the waist.
- Avoid carrying loads that extend above the eye.
- If lifting/carrying with a partner, communicate all moves prior to performing.
- Push, do not pull heavy objects.
- Do not stand under a suspended load.

Slips, Trips, and Falls
Oily surfaces are extremely slippery. Even in slip resistant footwear, walking through an oily area may be hazardous. Also the decks of ships, the scene of shoreline protection and/or clean up operations and equipment in staging areas can contain numerous obstacles. When engaged in response operations:

- Be alert for oily surfaces.
- Use handrails and safety lines when available.
- Be aware of you surroundings. Identify tripping hazards and address the hazards appropriately.
- Keep all walkways, work surfaces, etc. free of debris, tools, or obstacles that could create a tripping hazard.
- Never engage in horseplay.

3.8 DRUM HANDLING

All drums and containers should be properly labeled. Material in unlabeled drums should not be used. Any such drums should be reported to supervision for action.

Drums and containers should be in good condition prior to being moved. Drums larger than 5 gallons should be lifted and moved with mechanical equipment.

If a drum spill occurs, notify supervision and use appropriate absorbent material or other methods to contain the spill.

3.9 PERSONAL PROTECTIVE EQUIPMENT

The primary objective of personal protective equipment is to prevent accidental contact with hazardous chemicals. Before a chemical can have an adverse effect, it must come into contact with a vulnerable area of the body. There are four methods of contact:

1. Injection - puncture wounds
2. Absorption - through healthy, intact skin or eyes
3. Inhalation - through the mouth or nasal passages. This is the most common route of entry.
4. Ingestion - direct or indirect consumption while eating or drinking

When engaged in response activities:

- Know how to don/doff personal protective equipment
- Know the limitations of the PPE
- Wear hearing protection when noise levels could cause hearing damage
- Safety glasses and slash goggles are not the same. Do not use safety glasses for protection against chemical.

Use only PPE that has been approved for use with the chemicals being handled. Leather gloves are not rated for use with oils, corrosive chemicals or hydrocarbons Wear proper footwear. Steel toe shoes are recommended when working around heavy equipment.

3.10 PERSONAL HYGENE

Good personal hygiene practices are essential to maintaining worker's states of health during response operations. Working with oils and oily wastes is dirty work. The nature of the work should not be allowed to lead workers to forsake basic personal hygiene considerations.

The following guidelines are recommended for all members of the response team:

- Shower and shampoo daily before reporting to work.
- While showering, check for unusual rashes, cuts, infections, etc.
- On sunny days, apply protective sunscreen to exposed skin.
- Use a barrier cream on hands before putting on protective gloves.
- If skin becomes contaminated with a hazardous chemical, report to a decontamination area and wash the affected area thoroughly with soap and water.
- If eyes become contaminated, report to a decontamination area and rinse the eyes for at least 15 minutes with clear water.
- If injured or ill at the work site, report to one's supervisor without delay.
- Do not touch food or drink with contaminated gloves or hands.
- Do not track oil into "clean" areas.
- Do not litter while on the work site.
- Ensure all toilet facilities are clean and sanitized to maintain healthy living conditions. Report any unhealthy conditions to your supervisor.
- Keep change rooms clean and orderly.
- Dispose of garbage and refuse in a sanitary manner.
- Water coolers or cans should be properly covered, labeled, and equipped with a spigot or valve.

3.11 DECONTAMINATION

One or more decontamination areas would be set up during response operations. These areas are to be used for decontamination at the work site, they are not to be used as a substitute for personal hygiene at home.

Decon areas are designed to protect the worker's health and to prevent the spread of contamination into "clean" areas. In the field it is not possible for a worker to remove all contaminated clothes each time they take a break from work. It is essential that a worker cleans their hands and face to avoid injecting or spreading oil or other chemicals to otherwise protected parts of their body.

In the field, the workers will be provided with:

- Soap, water, paper towels, waterless hand cleaner, and/or other materials for washing their face and hands
- An impermeable surface to sit on
- Refuse containers
- Eyewash station

3.12 SANITATION

Proper sanitation facilities must be provided at the clean up site. Lack of proper sanitation can result in outbreaks of dysentery, food poisoning, or other debilitating diseases.

Adequate facilities need to be provided for:

- Potable water
- Non-potable water (clearly labeled)
- Toilet facilities
- Food handling
- Temporary buildings
- Washing facilities
- Shower and change rooms

3.13 ILLUMINATION AND VISIBILITY

Poor visibility can lead to accidents. Clean up workers performing night operations should have personal flashlights. All work areas performing night operations need to be well lit.

3.14 CONFINED SPACES

Any area, which may contain or have the ability to contain toxic/flammable atmospheres, or oxygen deficient or excess, shall be considered to be a confined space. When entry to confined spaces needs to be performed, **a safe work permit needs to be issued**. The Safety Officer shall issue the safe work permit. The following are hazards and procedures, which need to be addressed on the permit:

- Atmospheric Monitoring – (Toxic, Flammable, Oxygen Deficient or Excessive.)
- Energy Isolation – LO/TO
- Mechanical Hazards
- Electrical Hazards

Procedures needed:

- Training
- Qualified Standby
- Emergency Notification
- PPE requirements
- Rescue

SECTION 1 – MATERIAL IDENTIFICATION

Material Name: HEAVY CRUDE OIL/DILUENT MIX
Synonyms: Bow River (BR); Cold Lake Blend (CLB); Christina Lake Dil-bit Blend (CDB), Christina Lake Blend (CSB); Western Canadian Blend (WCB); Western Canadian Select (WCS); Wabasca Heavy (WH)
Use: Process stream, fuels and lubricants production
WHMIS Classification: Class B, Div. 2, Class D, Div. 2, Sub-Div. A and B
NFPA: **Fire**: 2 **Reactivity**: 0 **Health**: 3
TDG Shipping Name: Petroleum Crude Oil
TDG Class: 3 **UN**: 1267
TDG Packing Group: II (boiling point 35 deg. C or above, and flash point less than 23 deg. C)
Manufacturer/Supplier: CENOVUS ENERGY INC.
500 Centre Street SE, PO Box 766
Calgary, AB T2P 0M5
Emergency Telephone: 1-877-458-8080, CANUTEC 1-613-996-6666 (Canada)
Chemical Description: A naturally occurring mixture of paraffins, naphthalenes, aromatic hydrocarbons and small amounts of sulphur and nitrogen compounds mixed with condensate

SECTION 2 – HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentrations (%)	C.A.S. Nos.	LD50/LC50 Specify Species & Route	Exposure Limits
Bitumen	50 – 90	8052-42-4		5 mg/m^3 (OEL, PEL oil mist)
Hydrocarbon Diluent	10 – 50	N.Av.	N.Av.	900 mg/m^3 (OEL)*
Benzene	0.03 - 0.3	71-43-2	LD50, rat, oral, 930 mg/kg LC50, rat, 4 hr, 13200 ppm	0.5 ppm (OEL, TLV) 10 ppm (PEL)
Hydrogen Sulphide§	<0.1	7783-06-04	LC50, rat, 4 hrs, 444 ppm	10 ppm (OEL), 1 ppm (TLV), 20 ppm (PEL-C)

OEL = AB Occupational Exposure Limit; TLV = ACGIH Threshold Limit Value; PEL = OSHA Permissible Exposure Limit; C = Ceiling; *OEL for gasoline; §Hydrogen Sulfide in liquid, vapour phase may contain higher concentrations

SECTION 3 – PHYSICAL DATA FOR MATERIAL

Physical State: Liquid
Specific Gravity: 0.91 – 0.94
Vapour Density (air=1): 2.5 -5.0 (estimated)
Percent Volatiles, (v/v): 15 - 30 (estimated)
pH: N.Av.
Vapour Pressure, Reid (kPa): 76 @ 38ºC
Odour Threshold (ppm): N.Av.
Evaporation Rate: N.Av.
Boiling Pt. (deg.C): 35 – 180ºC
Freezing Pt. (deg.C): <20
Coefficient of Water/Oil Distribution: <0.1
Odour & Appearance: Brown/black liquid, hydrocarbon odour
(N.Av. = not available N.App. = not applicable)

SECTION 4 – FIRE AND EXPLOSION

Flammability: Yes **Conditions**: Material will ignite at normal temperatures.
Means of Extinction: Foam, CO_2, dry chemical. Explosive accumulations can build up in areas of poor ventilation.
Special Procedures: Use water spray to cool fire-exposed containers, and to disperse vapors if spill has not ignited. Cut off fuel and allow flame to burn out.
Flash Point (deg.C) & Method: <-35 (PMCC)
Upper Explosive Limit (% by vol.): 8 (estimated)
Lower Explosive Limit (% by vol.): 0.8 (estimated)
Auto-Ignition Temp. (deg.C): 250 (estimated)
Sensitivity to Impact: No
Sensitivity to Static Discharge: Yes, at normal temperatures
TDG Flammability Classification: 3
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, sulphur oxides

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable **Conditions**: Heat
Incompatibility: Yes **Substances**: Oxidizing agents (e.g. chlorine)
Reactivity: Yes **Conditions**: Heat, strong sunlight
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, sulphur oxides

SECTION 6 – TOXICOLOGICAL PROPERTIES OF PRODUCT

Routes of Entry:
Skin Absorption : Yes **Skin Contact**: Yes **Eye Contact**: Yes
Inhalation: **Acute**: Yes **Chronic**: Yes **Ingestion**: Yes
Effects of Acute Exposure: Vapour may cause irritation of eyes, nose and throat, dizziness and drowsiness. Contact with skin may cause irritation and possibly dermatitis. Contact of liquid with eyes may cause severe irritation/burns.
Effects of Chronic Exposure: Due to presence of benzene, long term exposure may increase the risk of anemia and leukemia. Repeated skin contact may increase the risk of skin cancer.
Sensitization to Product: No.
Exposure Limits of Product: 0.5 ppm (OEL for benzene)
Irritancy: Yes
Synergistic Materials: None reported
Carcinogenicity: Yes **Reproductive Effects**: Possibly **Teratogenicity**: Possibly **Mutagenicity**: Possibly

SECTION 7 – PREVENTIVE MEASURES

Personal Protective Equipment: Use positive pressure self-contained breathing apparatus, supplied air breathing apparatus or cartridge air purifying respirator approved for organic vapours where concentrations may exceed exposure limits (note: cartridge respirator not suitable for hydrogen sulfide, oxygen deficiency or IDLH situations) – see also Storage below).
Gloves: Viton (nitrile adequate for short exposure to liquid)
Eye: Chemical splash goggles. **Footwear**: As per safety policy **Clothing**: As per fire protection policy
Engineering Controls: Use only in well ventilated areas. Mechanical ventilation required in confined areas. Equipment must be explosion proof.
Leaks & Spills: Stop leak if safe to do so. Use personal protective equipment. Use water spray to cool containers. Remove all ignition sources. Provide explosion-proof clearing ventilation, if possible. Prevent from entering confined spaces. Dyke and pump into containers for recycling or disposal. Notify appropriate regulatory authorities.
Waste Disposal: Contact appropriate regulatory authorities for disposal requirements.
Handling Procedures & Equipment: Avoid contact with liquid. Avoid inhalation. Bond and ground all transfers. Avoid sparking conditions.
Storage Requirements: Store in a cool, dry, well ventilated area away from heat, strong sunlight, and ignition sources.
Special Shipping Provisions: N.App.

Caution: Hydrogen sulfide may accumulate in headspaces of tanks and other equipment, even when concentrations in the liquid product are low. Overexposure to hydrogen sulphide may cause dizziness, headache, nausea and possibly unconsciousness and death. Factors increasing this risk include heating, agitation and contact of the liquid with acids or acid salts. Assess the exposure risk by gas monitoring. Wear air supplying breathing apparatus if necessary.

SECTION 8 – FIRST AID MEASURES

Skin: Flush skin with water, removing contaminated clothing. Get medical attention if irritation persists or large area of contact. Decontaminate clothing before re-use.

Eye: Immediately flush with large amounts of lukewarm water for 15 minutes, lifting upper and lower lids at intervals. Seek medical attention if irritation persists.

Inhalation: Ensure own safety. Remove victim to fresh air. Give oxygen, artificial respiration, or CPR if needed. Seek medical attention immediately.

Ingestion: Give 2-3 glasses of milk or water to drink. DO NOT INDUCE VOMITING. Keep warm and at rest. Get immediate medical attention.

SECTION 9 – PREPARATION DATE OF MSDS

Prepared By: Cenovus Energy Inc. Health and Safety
Phone Number: 1-403-766-2000
Preparation Date: April 10, 2013

1. Incident Name Vancouver Energy – Dilbit Ex.	2. Operational Period (Date/Time) From: 3 Jan 2016 To: 4 Jan 2016	**RESOURCES AT RISK SUMMARY** **ICS 232-CG**

3. Environmentally-Sensitive Areas and Wildlife Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
		Ridgefield National Wildlife Refuge (~ RM 87-92):	Riparian habitat. Salmonid spawning stream and juvenile salmonid rearing habitat in off-river channels. Concentration area for migrating and wintering waterfowl, shorebirds and Sandhill cranes [SE(W)]. Resident nesting waterfowl, Bald eagles [SS (WA)] and Great Blue herons. Audubon Important Bird Area.
		Frenchman's Bar/Shillapoo Wildlife Area (~RM 96-99):	Riparian habitat, pasture and agland that supports wintering and migrating concentrations of waterfowl, shorebirds and Sandhill cranes [SE (WA)]. Juvenile salmonid rearing habitat in off-river channels
		Sauvie Island Wildlife Area and Multnomah Channel (~RM 85-100):	Riparian habitat. Juvenile salmonid rearing habitat in off-river channels. Concentration area for migrating and wintering waterfowl, shorebirds and Sandhill cranes [SE]. Resident nesting waterfowl, Bald eagles [SS (WA)] and Great Blue herons. Oregon Dept. Fish and Wildlife lands. Audubon Important Bird Area.
		Martin/Burke Islands and Vicinity (~RM 79-81):	Riparian habitat. Juvenile salmonid rearing habitat in off-river channels. Concentration area for breeding, migrating and wintering waterfowl. Area supports cavity nesting ducks.
		Cowlitz River Mouth/Carrolls Channel/Kalama River mouth (~ RM 69-73):	Salmonid spawning rivers. Concentrations of waterfowl, seabirds, harbor seals and California sea lions coincide with winter run of Pacific eulachon smelt [FT/SC (WA)].

Narrative

See ICS 232 for GRPs and implementation priority

4. Archaeo-cultural and Socio-economic Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
		See GRPs (232)	Water Intakes (Flushing channel)
		Not listed in GRPs (see 232)	Water intakes (NWR, Pacific Bio, Paper plants)
		Ridgefield & St Helens	Marinas – vessel traffic

Narrative

Consult with Tribal Liaison and SHPO for archaeo sensitivities

5. Prepared by: (Environmental Unit Leader) **Date/Time**

1. Incident Name Vancouver Energy -Dilbit Exercise	2. Operational Period (Date/Time) From: 3 Jan 2016 To: 4 Jan 2016	ACP Site Index ICS 232a-CG

3. Index to ACP/GRP sites shown on Situation Map (Table 4-12 and -11, NWACP GRP Lower Columbia, 2015)

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR100.8R	N	**Vancouver Lake Flush Channel – Div B**	Call Port of Vancouver 360-693-3611 to notify them of a spill that could impact the pumping station and Flushing Channel. Port personnel will shut down pumps	**1 hr**
LCR-83.8L-N	N	**City St Helens drinking Wells**	Call City of St. Helens at 503-397-3532. Alert them that they need to monitor and potentially shut off two community wells located along riverbank.	**1 hr**
RM 87-92	N	**Ridgefield NWR**	Call 360-887-4160 - Water intakes (3) (in ERMA)	**2 hr**
RM 86R	N	**Cascade Tissue Group (St. Helens)**	Call 503-397-2900 - Alert them that they may need to monitor and potentially shut off process water intake	**2 hr**
LCR-73.1L-N	N	**PGE Trojan Park**	Call Portland General Electric (PGE) at 503-556-7089. Alert them that they need to monitor and potentially shut off intake at large industrial system located at riverbank. This system also provides drinking water to facility.	**1 hr**
LCR-71.5L-N	N	**City of Prescott**	Call City of Prescott at 503-397-1744. Alert them that they need to monitor and potentially shut off large municipal well located less than 1000 feet from river bank and adjacent to rail line. This well is shown as being groundwater withdrawal & drinking	**1 hr**
LCR-67.8L-N	N	**City of Rainier**	Call City of Rainier at 503-410-2180. Alert them that they may need to monitor and potentially shut off intake.	**1 hr**
RM 67R	N	**Capstone Paper Mill – Longview**	Call 360-425-1550 - Alert them that they may need to monitor and potentially shut off process water intake	**2 hr**
LCR-55.1L-N	N	**PGE Beaver Generating Facility**	Call Portland General Electric (PGE) at 503-728-7211. Alert them that they may need to monitor and potentially shut off intake (industrial and drinking water)	**2 hr**
LCR-53.8L	N	**Pacific Biofuels (listed in GRPs as St. Helens)**	Call 360-703-1385 or 503-369-5959 - Alert them that they may need to monitor and potentially shut off industrial and fire suppression intake (at depth).	**2 hr**

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-CG
Vancouver Energy - Dilbit Exercise	From: 3 Jan 2016 To: 4 Jan 2016	

3. Index to ACP/GRP sites shown on Situation Map (Table 4-12 and -11, NWACP GRP Lower Columbia, 2015)

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR100.8R	1	Vancouver Lake Flush Channel – Div B	1000 ft: 600 for collection, 400ft for exclusion; TF-21	D1 1000
WR-0.9R	2	Columbia Slough (OR) – Div ZZ	700 ft – Exclusion; TF-21	D1 1030
LCR99.9R	3	Frenchmans Bar – Div B	500 ft – collection; TF-21	D1 1130
LCR-98.6R	4	Caterpillar Is S – Div B	600 ft - exclusion; TF-21	D1 1230
LCR-97.5R	5	Caterpillar Is N – Div C	400 ft - exclusion; TF-23	D1 1100
LCR-97.0R	6	NW Lower River Rd – Div C	500 ft – collection; TF-23	D1 1200
LCR-98.4L	7	Dairy Creek (OR) – Div WW	300 ft - exclusion; TF-20	D1 1130
LCR-95.0R	8	Ridgefield Levee Breach 2 – Div C	500 ft - exclusion; TF-23	D1 1400
LCR-94.5L	9	Willow Bar Is (OR) – Div WW	600ft – exclusion – TF-24	D1 1400
LCR-94.8R	10	Ridgefield Levee Breach 1 – Div C	300ft - exclusion; TF-24	D1 1230
LCR-94.3R	11	Post Office Lake (WA) – Div D	200 ft – exclusion ; TF-21	D1 1500
LCR-92.3R		Campbell Lake – Div D	300ft - exclusion; TF-24	D2 0735
LCR-91.0R		Ridgefield – Bachelor Is Div D	700 ft – exclusion; TF-21	D2 0830
LCR87.6R		Ridgefield – Bachelor Is Div E	700 ft – deflection; TF-25	D2 0830
LCR-87.3R		Gee Creek Div E	600 ft – exclusion; TF-25	D2 0945
LCR87.5R		Ridgefield – Bachelor Is Div F	700 ft – deflection; TF-23	D2 0845
LCR-86.2R		Woodland – Austin Pt Div F	800 ft- collection; TF-23	D2 1000

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-OS
Vancouver Energy - Dilbit Exercise	From: 3 Jan 2016 To: 4 Jan 2016	

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-85.6M		Goerig Slough Div F	1000 ft – exclusion; TF-24	D2 0830
LCR-85.8M		Goerig Slough Div F	800 ft - exclusion; TF-24	D2 0945
LEVR-0.35		Lewis River Div F	600 ft - collection; TF-27	D2 0830
LCR-82.4L		Deer Island Slough (OR) Div TT	400 ft - exclusion; TF-26	D2 0815
LCR-81.8L		Goat Island – South end (OR) Div TT	900 ft - exclusion; TF-21	D2 0830
LCR-81.2R		Burke Island – South end Div G	400 ft - exclusion; TF-21	D2 1000
LCR-81.0M		Martin Is. – South end Div G	800 ft - exclusion; TF-25	D2 1030
LCR-79.8L		Goat Island - N end (OR) Div TT	700 ft - exclusion; TF-25	D2 1145

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index ICS 232a-CG (Rev.07/04)

1. Incident Name	2. Operational Period (Date/Time)	ACP Site Index ICS 232a-OS
Vancouver Energy - Dilbit Exercise	From: 3 Jan 2016 To: 4 Jan 2016	

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR–79.5R		Martin Island - N end (WA) Div G	800 ft – exclusion; TF-29	D2 0900
LCR-78.9R		Mill Creek Outfall Div G	200 ft boom + 200 ft sorbent - collection; TF-29	D2 1000
LCR-76.0L		Tide Creek (OR) Div SS	1000 ft - exclusion; TF-29	D2 1100
LCR-73.7L		Goble Creek (OR) Div SS	100 ft - exclusion; TF-20	D2 0745
LCR-71.6R		Carrolls Channel - S end (WA) Div I	800 ft – deflection and collection; TF-20	D2 0830
LCR-71.5R		Carrolls Channel - S End (WA) Div I	1400 ft – collection; ; TF-22	D2 1000
LCR-71.4R		Carrolls Channel - S End (WA) Div I	1000 ft – exclusion; ; TF-20	D2 1000
LCR-70.0R		Cottonwood Island - E side slough (WA) Div I	600 ft - exclusion; TF-22	D2 0830
LCR-66.2R		Port of Longview (WA) Div J	800 ft - collection; TF-20	D2 1100

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index	ICS 232a-CG (Rev.07/04)	
1. Incident Name **Vancouver Energy - Dilbit Exercise**	**2. Operational Period (Date/Time)** From: 3 Jan 2016 To: 4 Jan 2016	**ACP Site Index ICS 232a-OS**

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-65.9R		**Port of Longview (WA)** **Div J**	**700 ft – collection; TF-20**	**D2 1130**
		Port of Longview – slough and water intake **Div J**	**300ft – exclusion** **(slough on north side of Cowlitz River); TF-22**	**D2 0830**
LCR- 64.4L		**Slaughters Dike (OR)** **Div QQ**	**600 ft - collection; TF-22**	**D2 1100**
LCR-64.0M		**Lord Island - E end (OR)** **Div SS**	**1600 ft - collection & exclusion; TF-22**	**D2 1000**
LCR-60.2R		**Fisher Island -E end (WA)** **Div K**	**700 ft - exclusion; TF-30**	**D2 0830**
LCR-59.8L		**Walker Island (OR)** **Div PP**	**600 ft - collection; TF-31**	**D2 0900**
LCR-58.95M		**Fisher Island - West End (WA)** **Div K**	**500 ft -deflection; TF-30**	**D2 1000**
LCR-58.9M		**Fisher Island - W end (WA)** **Div K**	**600 ft - exclusion; TF-30**	**D2 1100**
LCR-58.8R		**Fisher Island Slough - W end (WA)** **Div K**	**1000 ft - collection; TF-31**	**D2 0900**
LCR-58.7M		**Fisher Island/ Hump Island (WA)** **Div HI**	**800 ft - exclusion; TF-32**	**D2 0930**
LCR-55.9R		**Coal Creek Slough (WA)** **Div K**	**500 ft - exclusion; TF-33**	**D2 0930**
LCR-55.7R		**Germany Creek (WA)** **Div L**	**100 ft - exclusion; TF-33**	**D2 1030**
LCR-55.6M		**Crims Island Channel (OR)** **Div CRI**	**300 ft - exclusion; TF-21**	**D2 1200**

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

ACP Site Index	ICS 232a-CG (Rev.07/04)	
1. Incident Name **Vancouver Energy - Dilbit Exercise**	**2. Operational Period (Date/Time)** From: 3 Jan 2016 To: 4 Jan 2016	**ACP Site Index** **ICS 232a-OS**

3. Index to ACP/GRP sites shown on Situation Map

Site #	Priority	Site Name and/or Physical Location	Action	Status
LCR-55.5M		**Gull/Crims Islands - East opening (OR) – Div CRI**	**400 ft – exclusion; TF-22**	**D2 1300**
LCR-55.4L		**John Slough (OR) – Div QQ**	**200 ft - exclusion; TF-22**	**D2 1200**
LCR-55.3M		**Gull Island- North Side (OR)** **Div CRI**	**800 ft -exclusion; TF-32**	**D2 1130**
LCR-55.1M		**Crims Island- South Side (OR)** **Div CRI**	**700 ft - exclusion; TF-32**	**D2 1300**
LCR-54.4M		**Gull/ Crims Islands - W opening (OR) – Div CRI**	**500 ft - exclusion; TF-33**	**D2 1200**
LCR-54.2R		**Abernathy Creek (WA)** **Div L**	**300 ft - exclusion; TF-33**	**D2 1300**
LCR-53.8R		**Mill Creek (WA)** **Div L**	**1000 ft - collection; TF-34**	**D2 1430**
LCR-50.5L		**Upstream Wallace Island (OR)** **Div WI**	**1800 ft - exclusion; TF-21**	**D2 1300**
LCR-49.8L		**Clatskanie River - W side (OR)** **Div OO**	**600 ft – collection; TF-29** **Contact property owner first** also referred to as Beaver Slough	**D2 1300**
LCR-49.7L		**Clatskanie River - E side (OR)** **Div OO**	**600 ft - exclusion; TF-29**	**D2 1430**
LCR-49.1M		**Wallace Island Slough - North center (OR) – Div WI**	**400 ft - exclusion; TF-29**	**D2 1530**
LCR-48.8M		**Wallace Island Slough - South center (OR) – Div WI**	**500 ft - exclusion; TF-22**	**D2 1530**
LCR-48.6M		**Wallace Island Slough - SW end (OR) – Div WI**	**500 ft - exclusion; TF-22**	**D2 1630**
LCR-48.1		**Wallace Island Slough - NW end (OR) – Div WI**	**600 ft - exclusion; TF-31**	**D2 1600**

Note: This form is designed to be posted next to the situation map. Use additional sheets, as needed.

4. Prepared by: **Date/Time**

Protection TF.20

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Debrief

Prepared By: BOELTOR at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24757	MSRC	JB	#3	1		LONGVIEW	
2994	MSRC	JB	#5	1		" "	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR 66.2 800' 1030

65.9 700' 1130

Protection TF-20

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 D.1 b.1 | Prepared By: BOGLTER at

Period: 04 Jan 16 0830 05 Jan 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29035	CRC	OSRV	CRC-1	1	TF-20	WRG PDX	Deployed
29144	CRC	Boom	20' Boom	1000	"	1000'	W.R. 0.9
29034	MFSA CRC	OSRV	MFSA-1	1000	TF-22	Swan Island PDX	Deployed
29145	CRC	OSPRA Boom	20"	1000	"	1000' Source	1000' Source
29031	CRC	FRV	Portable	1000	TF-21	PDX	Deployed w/ 1000'
29141	CRC	Boom	20"	1000		100.8	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

CRC-1
TF-20 Complete GRP's W.R. 0.9 - 1000' — Then start to Recovery

MFSA-1
TF-22 Complete GRP's @ Source - 1000 Double-up / Then start to Recover.

Protection TF-20

ICS 210 - Change Status

10/4/16

Incident: Vancouver energy spill drill #2 Drill

Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24757	MSRC	Skiff	16'			Longview	
	Jon Boat #3						
2994	MSRC	Skiff	16'			Longview	
	JB #5						
Boom	MSRC 3004	Boom	20"			Longview	
	Trailer 4/0						
Boom	MSRC 2970	Boom	20"			Longview	
	Trailer 4/1						

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's 73.7 Exclusion 100' Done 0745

Complete GRP's 71.6 Collection / Deflection 800' 0830

Complet GRP's 71.4 Exclusion 1000 0930

TF-21 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Spill drill #2 Drill | Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRE	ERV	Protection	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete ORP LCR-55.6 300' Exclusion 1200 complete/Division CRI

Protector TF-21

ICS 210 - Change Status

Incident: Vancouver energy spill drill #7 Drill	Prepared By: BOELTER at
Period: 04 Jan 16 0830 05 Jan 16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRC	FRV	Protector	1		Stellen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR 81.8 900' Exclusion 1000

81.2 400' Exclusion 1100

Protector TF-21

ICS 210 - Change Status

Incident: Vancouver energy spill drill #2 Drill

Prepared By: BOELTER at

Period: 04Jan16 0830 05Jan16 0700

Version Name:

Incident Resources to Change

Complete GRP's

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	~~Current Status~~
29031	CRC	FRV	Protector	11960	TF-21	PDX	100.8
29141	CRC	Boom	20"	10000		" "	
30314	NRCES	FRV	Next Generation		TF-21	PDX	LCR 99.9/
	NRCES	Boom	20"	2000'			98.6

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR.100.8R – 1000' Protector

Complete GRP's LCR.99.9/LCR 98.6R Next Generation
500' 1000'

TF-21 Protection

ICS 210 - Change Status

Incident: Vancover energy spill drill #2 Drill

Prepared By: at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name: BOELTER

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29031	CRC	~~Fire~~ FRV	Protector	1		Vancouver	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complete GRP's LCR. 92.3 300' Complete 0735

LCR. 91.0 700' Complete 0845

TF-21 Protector

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 1 Drill

Prepared By: at

Period:

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29 0311	CRC	FRV	Protector	1	34'	RM 81-8	Available

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

TF-21 Complete GRP" LCR 50.5 1800' Exclusion Complete 1300

Pretextra TF-22

ICS 210 - Change Status

Incident: Vancouver Energy Spill drill #2 Drill

Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name: [illegible]

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	JB	#6	1		Longview	
3110	MSRC	Workboat	Willet	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 04.0 1600' Exclusion 1700

TF-22 Protector

ICS 210 - Change Status

10/4/16

Incident: Vancouver energy Spill drill #2 Debit

Prepared By: BOOLTER at

Period: 04 Jan 16 0930 05 Jan 16 0200

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	SK-FFS	19'	1		Longview	
	JON BOAT #6						
3110	MSRC	SK-FFS	18' WILLET	1		Longview	
	WILLET						

New Status and/or Location

New Status:

New Location: Up River

Date/Time of Change:

Comments

Complete GRP's LCR. 70.0 Exclusion 6000' 0900

71.5 1400

Complete GRP's LCR 69.0 Collection / Exclusion 1600 1000

Water Intake 200'

Use boom from Staged Boom & Cap Stone

TF-22

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #2 Dillet.	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	JB	#6	1	18'	Rm 55.5	Available
3116	MSRC	Wallet	Wallet	1	18'	Rm 55.5	Available

New Status and/or Location

New Status: 1/4/15 @ 1300

New Location:

Date/Time of Change:

DRILL

Comments

TF-22 Complete GRP'S LCR. 48-8 500' 1530

48.6 500' 1636

Protection TF-22

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 2 Dillet	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3107	MSRC	JB	#6	1		64.4 BR	
3110	MSRC	Staff	Willett	1		64.4 RM	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 55.5 400' 1300

LCR. 55.4 200' 1200

Protection TF-23

ICS 210 - Change Status

Incident: Vancouver energy Spill drill #2 Dilbit	Prepared By: BOELTER at
Period: 04 Jan 16 0830 05 Jan 16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28575	NRCES	Workboat	Raider	1		St. Helens	
28545	NRCES	Workboat	MONarch	1		St. Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 87.5 700' 0830

LCR 86.2 800'

1000

Protection TF-23

ICS 210 - Change Status

Incident: Vancouver energy spill drill #2 Drill

Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28575	NRCES	Workboat	Raider	1		PDX	
28595	NRCES	Workboat	Monarch	1		PDX	
	CRC	Boom Trailer	53'			Port of Vancouver	
29180	CRC	Boom	2011	5000'			

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Compute GRPIS LCR. 97.5/LCR. 97.0/LCR. 95.0 Div-C
400' 500' 500

Use Boom From Boom Trailer Staged @ Port of Vancouver
5000'

Protection: TF-24

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #2 Debrief

Prepared By: BOELTER at

Period: 04 JUN 16 0830 05 JUN 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28591	NRCES	Workboat	Jet Craft	1		St Helen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRPs LCR. 85.6. 1000' exclusion 0830

LCR. 85.8 800' exclusion 1000

1800

Protection TF-24

ICS 210 - Change Status

Incident: Vancover Energy Spill drill #2 Debrief | Prepared By: BOELTER at

Period: 04-Jan 16 0630 05 Jan 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28541	NRCES	Workboat	Jet Craft	1		PDX	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complete GRP's LCR. 94.8 / LCR. 94.5, Div C

300' 600'

Use Boom from Boom Trailer staged @ Port of Vancouver

5000'

TF-24 Protection

ICS 210 - Change Status

Incident: Vancouver energy spill drill #1 - pilot

Prepared By: BELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28591	NRC ES	Workboat	Jet craft	1		St. Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 85.6 1000FT 0830 Exclusn

LCR. 85.8 800' 1000 Exclusion

Protection TF-25

ICS 210 - Change Status

Incident: Vancouver Energy SPM Drill #7 Delbert | Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30319	NRCES	FRV	Next Gen	1		Vancouver	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complete GRP's LCR. 87.6 700' 0830

LCR. 87.3 600' 0930

FF-25 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Drill Dock #1 Talbot

Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30319	NRCES	FRV	Next Generation	1		St. Helens	

New Status and/or Location

New Status:

New Location: DRILL

Date/Time of Change:

Comments

Complet GRP's LCR. 81.0 800Ft Exclusion Exclusion @ 0945

79.8 700F Exclusion 1045

TF-26 Protection

ICS 210 - Change Status

10-4-15

Incident: Vancouver Energy Spill drill #2 Dalbert

Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30500	CRC	Workboat	G-3	1		St Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 86.2 860' Collection 0800

TF-27 Protected

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #2 Dilbert	Prepared By: BOELTER at
Period: 06 Jan 16 0830 to 05 Jan 16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30 499	CRC	Work boat	G-3	1		St Helen	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's Lev. 0.35 600Ft Collect 0800

TF-28

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill #2 Debrief	Prepared By: Bo Elder at
Period: 05/3/16 0830 05/3/16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29049	CRC	Sheriffs	Fishers	1		St Helens	
29095	CRC	Sheriffs	Fishers	1		St Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 87.3 600' Exclusion 0800

LCR. 87.5 700' Reflection 0900

TF-29 Protection

ICS 210 - Change Status

Incident: VanCouver Energy Spill DRILL #1 Dilbert | Prepared By: BOELTER at

Period: 04 Jan 16 0830 05 Jan 16 0700 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28532	NRCES		Land #2	1		St-Helens	
28533	NRCES		Land #9	1		St Helens	
28534	NREES		Land #5	1		St. Helens	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete LCR. 29.5 Exclusion 800 ft 0900

76.0 Exclusion 1000' NLT 1300

TF-29 Protection

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #2 Dalbat

Prepared By: at

Period:

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28532	NRCES	Workboat	Land #2	1	20'	Rm 76.0	Available
28533	NRCES	Workboat	Land #4	1	20'	Rm 76.0	Available
28534	NRCES	Workboat	Land #5	1	20'	Rm 76.0	Available

New Status and/or Location

New Status: 1/4/15 @ 1100

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LER. 49.8 600' exclusion 1300

49.7 600' " " 1430

49.1 400' " " 1530

TF-30 Protection

ICS 210 - Change Status

Incident: Vancouver Energy Spill DRILL #2 Dilbit

Prepared By: BOELTER at

Period: 04 Jun 16 0830 05 Jun 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29029	CRC	FRV	Columbia Response	1		Longview	
29154	CRC	Boom	20"	2000		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 60.2 700 Exclusion 0830

58.95m 500 1000

58.9 600 Exclusion 1100

TF-31 Protection

ICS 210 - Change Status

Incident: Vancover Energy Spill DRILL #2 Dilbert	Prepared By: at
Period: Sun 16 0630 to 05 Sun 16 0700	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28487	NRCES	Skiff	Lund 6430	1		Clatskanie	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP. 58.8 1000' 0900

58.8 ~~1000~~ 600 1030

TF-31 Protection

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #1 Debrief	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28482	NRCES	Workboat	Lund 6436	1	20'	RM 58.8	Avail

New Status and/or Location

New Status: 11/4/15 @ 0900

New Location:

Date/Time of Change:

DRILL

Comments

TF-31 Complete GRP's LCR. 48.1 1000' exclusion Complete 1000

Protection TF-32 / TF-33

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Dilbert	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
284188	NRCES	Staff	Lunch 0503	1		Clatskanie	
284189	NRCES	Staff	Lunch 0214			Longview	
284185	NRCES	Staff	Lunch 0206			Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

TF-32 Complete GRPs Lunch 0503 - 58.7 800' 0930

TF-33 Complete GRPs LCR. 55.9 - 500' 0930

55.7 100' 1030

Protection TF-32 / TF 33

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #1 Day 1	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28488	NRCES	Skiff	Lund 6503	1	16'	58.7	Available
28489	NRCES	Skiff	Lund 6214	1	18'	55.9	
28485	NRCES	Skiff	Lund 6200	1	18'	55.7	

New Status and/or Location

New Status: 0930

New Location:

Date/Time of Change: 1/4/15

DRILL

Comments

TF-32 - Complete GRP's LCR 55.3 800' Complete 1130

55.1 700' 1300

TF33 Complete GRPs LCR. 54.4 500' 1200

54.2 300' 1300

Protection TF-34

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL #2 Debrief	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
2898	NRCES	SKIFF	Land 6611	1	20'	RM 55.9	Available

New Status and/or Location

New Status: @ 1300

New Location: 1/4/15

Date/Time of Change:

DRILL

Comments

TF 34 Complete GRP's ECR. 53.8 1000' Complete @ 1430

Protector TF-34

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Debit	Prepared By: at
Period:	Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
284816	NRCES	Skiff	Lund 16ell	1		Longview	

New Status and/or Location

New Status:

New Location:

Date/Time of Change:

DRILL

Comments

Complete GRP's LCR. 55.6 300' Excl 1030

55.5 400' " 1130

55.4 200 " 1300

TF-1

ICS 210 - Change Status

Incident: VANCOUVER ENGRG SPILL DRILL Dibbit | Prepared By: CJD at

Period: 03 04 Jan 16, 0830 - 0700 05 JAN | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7562	MSRC	WB4/SK3/BK/	SBS	1	400 BBL/ 9m	SOURCE	ASSIGNED
29034	CRC	OSRV 3	MSFA - 1	1	29 BBL/3588	"	"
29035	CRC	OSRV 3	CLEAN RIVERS - 1	1	29 BBL/3588	"	"
29032	"	"	HW ZALINK	1	" /3720	"	"
29033	"	"	MARK MAFI 60	1	" /3720	"	"
29030	"	WB 3	FRW INDEPENDENCE	1		SOURCE CURRENT BUSTER	"
	TESORO VANCOUVER ENGRG	BZ (1)	CURRENT BUSTER #2	1	#2	"	"
~~3[illegible]~~	" "	SK	13 DISC CRUCIAL	13 DISC	~~3,034 BBL~~ 4728 BBL	"	
30832	MSRC	OSRV 3	MARCO 30-10	1	24/3588	"	

New Status and/or Location

New Status: TASK FORCE #1

New Location: SOURCE DIV A

Date/Time of Change: ~~0830~~ 1930 05 ~~JAN~~ OCT 16

Comments

CREATE TF1, SKIM AT SOURCE IN DIV A AREA

DRILL

TF-2

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL DAY 1

Prepared By: CWS at

Period: ~~0F~~ 03 JAN 16 0830 - 0700 0 SAME

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
24952	MSRC	OSRV 3	MERLIN	1	28/3588	DIV B	ASSIGNED
3030	MSRC	OSRV 3	PEREGRINE	1	28/3588	"	"
29050	CRC	OSRV 3	SWRB 101		100/3588	"	
29054	CRC	OSRV 3	SWRB 100		100/3588	"	
	HILLSBORO AVIATION	HELO	BELL 206	1	206 B3	"	"

New Status and/or Location

New Status: TF 2

New Location: DIV B AREA

Date/Time of Change: ~~0830 03 JAN 16~~ 1230 03 OCT 15

Comments

CREATE TF #2, SKIM IN DIV B AREA / LEADING EDGE

DRILL

TF-3

ICS 210 - Change Status

Incident: VANCOUVER TESORO ENVIRON SPILL DRILL #2 | Prepared By: CWS | at

Period: 08 JUN 16 - 0830 - 0700 05 JUN 16 DRILL | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
Z 9261	NRCES	OSRU3	MARCO SKIMMER	1	30/3588		
Z 8262	NRCES	OSRU3	" "	1	30/3588		
7554	MSRC	U40/SK3/WB4 TBH	SBS 19	1	400/1371		
7566	MSRC	" "	SBS 25	1	400/1371		
	TESORO VANCOUVER ENVIRON	B2	CURRENT BUSTER 2	1			
	" "	SK	13 DISC CRUCIAL	1	4728		
V00	MSRC V00	WB	JE McAMIS #1			3 DW CURRENT	
V00	MSRC V00	WB	JB-1			3 BUSTER	

New Status and/or Location

New Status: TASK FORCE # 3

New Location: DW C-D

Date/Time of Change: 1230 030CT16

Comments

CREATE TF # 3 TO SKIM OIL IN AREA OF DW C-D.

DRILL

TF - 4

ICS 210 - Change Status

Incident: VANCOUVER TESORO ENERGY SPILL DRILL #2 | Prepared By: CWS at

Period: 09 JAN 16 0830 - DRILL | Version Name:

Incident Resources to Change

	ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28	263	NRCES	OSRV 3	MARCO 1 SEA	1	30/3588		
29	264	NRCES	OSRV 3	MARCO 2 SEA	1	30/3588		
24	669	MSRC	OSRV 3	ANKLET MARCO	1	12/3588		
	7576	MSRC	TB4/SK 3	SOS 123	1	400/805		
	7571	MSRC	WBY	17-3			TOW SOS 123	
31	075	MSRC	B2	CURRENT BUSTER #4		200		
	VOO	MSRC VOO	WB	JE McAMIS #2	1		3 CURRENT BUSTER TENDER	
	VOO	MSRC VOO	WB	MISS MOLLY	1			

New Status and/or Location

New Status: TF - 4

New Location: DIV E - F AREA

Date/Time of Change: 1530 030CT16

Comments

CREATE TF-4, SKIM OIL IN AREA OF DIV D-E-F

DRILL

TF-5

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL WELL #2 DRILL

Prepared By: CWS at

Period: 03 JUN 16 —

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7518	MSRC	OSRV 1 T	OREGON RESPONDER	1	4000 / 15840		
077	MSRC	BZ	CURRENT BUSTER #4	1	20m		
UOO	MSRC UOO	WB	GEORGE ALLEN	1		3 CURRENT BUSTER #4 TOWING	
UOO	MSRC UOO	WB	KEW-N-AL	1			
7551	MSRC	SKM/TBM/SRO	SBS / THRUST MASTER	1	400 / 905		

New Status and/or Location

New Status: TF-5

New Location: DIV F, VV, TT

Date/Time of Change: ~~0830 04 OCT 16~~ 2030 03 OCT 16

Comments

CREATE TF-5, SKIM OIL IN AREA OF DIV F, VV, TT

DRILL

TF-6

ICS 210 - Change Status

Incident: TESORO VANCOUVER ENERGY SPILL DRILL #2

Prepared By: CWS at

Period: 0700 04 JUN 16 Drill

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7588	MSRC	TB4/WB4/SKS	SBS 21	400 / 1571			
7570	MSRC	" " "	SBS 51	400 / 905			
29055	CRC	OSRV / TB	SWRB #3	100 / 2473			
29053	CRC	OSRV / TB	SWRB #4	100 / 3588			
29052	CRC	OSRV / TB	SWRB #5	100 / 2473			
29057	CRC	OSRV / TB	SWRB #6	100 / 3586			
29040	CRC	WB4	ELIZIBETH FURSE			PUSH SWRB #3	
3150	MSRC	WB5	SNIPE			PUSH SWRB #4	
3032	MSRC	WB5	JAEGER			PUSH SWRB #5	
29039	CRC	WB4	20' WORKBOAT			PUSH SWRB #6	

New Status and/or Location

New Status: TF-6

New Location: DIV G&H AREA

Date/Time of Change: 2000 030CT16

Comments

CREATE TASK FORCE #6, SKIM OIL IN AREA OF DIV G & H

DRILL

TF-07

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Dilbit

Prepared By: C Houck at 1300

Period: 04 Jan 16 0830 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30801	MSRC	CURRENT BUSTER	#4 SYSTEM A	1	#4	ST. HELENS (S)	AVAILABLE
V00	MSRC	V00	SANDWICK	1		VANCOUVER STAGING	" "
V00	MSRC	V00	LADY MARY	1		VANCOUVER STAGING	
V00	MSRC	V00	SNIPE	1		" "	
V00	MSRC	V00	NAUTI-LADY	1		" "	
V00	MSRC	V00	PACIFIC VENTURE	1		" "	
V00	MSRC	V00	FOUR SEASONS	1		" "	
7527	MSRC	OSRV 1	OSRV PARK RESPONDER	1	208'	ST. HELENS	
	HILLSBORO	HELO	6 PASS HELO			VANCOUVER STAG.	

New Status and/or Location

New Status: TF-07

New Location: LEADING EDGE

Date/Time of Change: ~~1930~~ 1430 04 OCT 16

DRILL

Comments

(1400 ETA)

UPON ARRIVAL @ LEADING EDGE. V00 SANDWICK & LADY MARY UTILIZE CB#4 SYSTEM A V00'S LADY MARY AND SNIPE USE 330' BOOM FROM MSRC PARK AND TOW IN "U" CONFIGURATION. DUMP TO PARK WHEN FULL.

V00'S NAUTI-LADY AND PACIFIC VENTURE USE 330' BOOM FROM PARK AND TOW IN "U" CONFIGURATION. - DUMP TO PARK WHEN FULL

PARK RESPONDER DEPLOY 660' BOOM AND UTILIZE TRANSREC TO SUCK OUT POCKET WHEN FULL.

HILLSBORO AVIATION HELO GIVE DIRECTION TO BEST MAXIMIZE RECOVERY

TF - 10

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL # 2 Dilbit

Prepared By: CWS at

Period: 05 SEP 16 0200

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
7513	MSRC	TB 2	OSRB 404	1	40,000		
	FOSS	TUG 2	CONNOR FOSS	1		PUSH OSRB 404	
31637	TIDEWATER BL	TB 2	ATLAS	1	23,000		
~~31637~~	TIDEWATER BL	TUG 2	BOB CARLSON	1		PUSH ATLAS OSRB	
30972	TIDEWATER BL	TB 2	BARGE #2	1	18,000		
	TIDEWATER BL	TUG 2	GLENDALE			PUSH BARGE 2	

New Status and/or Location

New Status: TF - 10

New Location: VARIOUS

Date/Time of Change: 05 OCT 16 0700

Comments

CREATE TF-10 (ON WATER STORAGE)

OSRB 404 TAKE POSITION IN LONGVIEW AREA J

OSRB ATLAS TAKE POSITION IN ST. HELEN AREA JJ

OSRB #2 TAKE POSITION IN VANCOUVER AREA A

TO RECEIVE PRODUCT FROM SKIMMERS

DRILL

SCAT TEAMS

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Debit

Prepared By: C. Hanan at 0900

Period: 03 Jan 16 0800

Version Name:

Incident Resources to Change

	ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
(1)	7489	MSRC	WB 5	JON BOAT #2	1	14'	ST. HELENS (5.)	AVAILABLE
(2)	7490	MSRC	WB 4	RESPONSE 5	1	28'	ST. HELENS (5)	
(3)	2992	MSRC	WB 5	EGRET	1	18'	ST. HELENS (5)	
(4)	29038	CRC	WB 4	21' BOSTON WHALER	1	21'	VANCOUVER (5.)	
—		HILLSBORO	HELO	BELL 206 B3 JETRANGER	1	6 PASS	VANCOUVER (5)	

New Status and/or Location

New Status: SCAT TEAMS 1-4

New Location: AS DIRECTED

Date/Time of Change: 0900 ~~10/04/16~~ 1/4/16

DRILL

Comments

ASSIGN 4 INDIVIDUAL VESSELS FROM STAGING AREAS FOR SCAT TEAMS.

TEAM 1 JON BOAT #2
2 RESPONSE 5
3 EGRET
4 21' BOSTON WHALER

TF-40

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Drift

Prepared By: CWS at

Period: 03 Jan 16 ~~0700~~

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30329	MSRC	SKZ	CONTAINER 56 DISC	~~5677~~ 1	5671 EDRC		
7586	MSRC	SK 1	STRESS SKIMMER	1	15840 EDRC		
7545	MSRC	SK 2	DOP 250 SKIMMER		3017 EDRC		
7581	MSRC	SK 2	DOP 250 SKIMMER		3017 EDRC		
7569	MSRC	SK2	DOP 250 SKIMMER		3017 EDRC		
24971	CCS	UT-1	UAC TRUCK 53	1	120 -		
24972	CCS	UT1	UAC TRUCK 59	1	120 -		
25100	CCS	UT1	UAC TRUCK 49	1	120 -		
25101	CCS	UT1	UAC TRUCK 51	1	120 -		
25102	CCS	UT1	UAC TRUCK 54	1	120 -		

New Status and/or Location

New Status: TF-40

New Location: DIV A SOURCE

Date/Time of Change: 03 ~~OCT~~ ~~0700~~ 1500 Jan

DRILL

Comments

CREATE TF-40. SKIM OIL FROM DOCK 5 SOURCE

10 HAZWOPER PERSONNEL TO OPERATE SKIMMERS

TF - 41

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Debrief

Prepared By: CWS at

Period: 09 Jan, 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29121	CRC	SK 3	36" COATED DRUM		891 EDRC		
29122	CRC	SK 3	" "		891 EDRC		
29123	CRC	SK 3	" "		891 EDRC		
25104	CCS	UT 1	VAC TRUCK 55		120BBL		
	BAKER	AS 4	FRAC TANK 20K	1	20K GAL		
3150	MSRC	WB 5	JON BOAT 7				

New Status and/or Location

New Status: TF - 41

New Location: A10 B GRP LCR 100.8R

Date/Time of Change: 03 OCT 16 1400

DRILL

Comments

CREATE TF - 41, SKIM OIL FROM SHORELINE @ GRP LCR100.8R

6 HAZWOPER PERSONELL TO OPERATE SKIMMERS

TF-42

ICS 210 - Change Status

Incident: VANCOUVER ENGLISH SPILL DRILL #2 Div. J

Prepared By: CWS at

Period: 04 Jan 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3062	MSRC	SKE 2	DESMI 250 SKIMMER	1	2914 EDRC		
28258	NRCES	SKE 2	VIKOMA CASCADE	1	5465 EDRC		
28214	NRCES	SKE 2	LAMOR BRUSH	1	3019 EDRC		
28222	NRCES	SKE 2	MARTA 5	1	1032 EDRC		
7448	MSRC	SKE 2	ARGUS 800 SKIMMER	1	3840 EDRC		
7462	MSRC MSRC	SKE 2	DESMI OCEAN SKIMMER	1	3017 EDRC		
27668	MSRC MSRC	SKE 2	NOR 250 SKIMMER	1	3017 EDRC		
28493	NRCES	WO5	6504 SKIFF	1			
3026	MSRC	B2	20" TEL 2		1200		

New Status and/or Location

New Status: TF-42

New Location: TF-42 DIV J

Date/Time of Change: 0700 04 OCT 16

DRILL

Comments

CREATE TF-42, SKIM OFF @ PORT OF LONGVIEW

ADD 14 MAZWOPER PERSONELL TO MAN SKIMMERS

TF-42

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SAND DRILL #2 Drill

Prepared By: CWS at

Period: 04 JUN 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
1429	CCS	UT2	UAC TRK 55		80		
1436	CCS	UT2	UAC TRK 62		80		
1437	CCS	UT2	UAC TRK 63		80		
1438	CCS	UT2	UAC TRK 65		80		
1439	CCS	UT2	UAC TRK 69		80		
29705	CCS	UT2	UAC TRK 68		80		
	BAKER	PS4	FRAC TANK		476	LONGVIEW	ASSIGNED
	BAKER	PS4	11		476	1	
	BAKER	PS4	11		476		

New Status and/or Location

New Status:

New Location: TF-42

Date/Time of Change: 04 OCT 16 0700

DRILL

DW

Comments

ADD EQUIPMENT TO TF-42 TO SUPPORT SAND DRILL @ THE PORT OF LONGVIEW.

TF-43

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Drill | Prepared By: CWS at

Period: 04 Jan 16 | Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
3011	MSRC	SK 24	MORRIS M-N/24		206 EDRC		
3054	~~AO~~ MSRC	SK 41	AQUA GUARD #1		360 EDRC		
28218	NRCES	SK 3	VIKOMA 12K DISC		480 EDRC		
28219	NRCES	SK 3	VIKOMA 12K DISC		480 EDRC		
1499	CCS	UTZ	AQUATECK A8		(80)		
1500	CCS	UTZ	UAC TEK A7		(80)		
28495	NRCES	WBS	SKIFF 621L				

New Status and/or Location

New Status:

New Location: TF-43 DIV B LCR 99.9

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-43, SKIM OIL FROM SHORELINE IN DIV B @ GRP LCR 99.9

X4 HAZWOPER PERSONNEL TO OPERATE SKIMMER

TF-44

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL Drill

Prepared By: CWS at

Period: 04 Jan 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30627	MSRC	SK 2	DESTROIL 250		2914 EDRC		
28251	NRCES	SK 3	FOILEX 150		1131 EDRC		
30444	MSRC	SK 4	DESTROIL 150		754 EDRC		
28215	NRCES	SK 3	AQUA GUARD RBS 10		662 EDRC		
28216	NRCES	SK 3	AQUA GUARD RBS 10		662 EDRC		
28260	NRCES	SK 3	AQUA GUARD RBS 10		662 EDRC		
28225	NRCES	SK 3	MORRIS M1 30		686 EDRC		
28223	NRCES	SK 3	MORRIS M1 30		686 EDRC		
29157	CRC	WB4	20' ANNMANIFOLD				

New Status and/or Location

New Status: ASSIGNED

New Location: TF-44

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-44 IN DIV G & GRP ~~86~~ LCR 86.2 TO SKIM OIL

X 12 HAZWOPER PERSONELL TO OPERATE SKIMMERS

TF-44

ICS 210 - Change Status

Incident: Vancouver Energy Spill Drill Debrief

Prepared By: CWS at

Period:

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	BAKER	~~FRAC~~ PS 4	FRAC TANK	1	20 476		
	BAKER	PS 4	FRAC TANK	1	476		
	BAKER	PS4	FRAC TANK	1	476		
24701	CCS	VT2	VACTRK 61		80		
24702	CCS	VT2	VACTRK 64		80		
24703	CCS	VT2	VACTRK 67		80		

New Status and/or Location

New Status:

New Location: CONT.

Date/Time of Change:

DRILL

Comments

CONT.

TF-45 DIV A

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #1 Drill

Prepared By: C. HOWK at 12:30

Period: 04 Jan 16 0530 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NRCES	PERSONNEL	40 HR HAZ TECH + SUPERVISORS	120		VANCOUVER TERMINAL	ASSIGNED
	UNITED RENTALS	BACK HOE	16'	1			VANCOUVER TEAM
	UNITED RENTALS	TRASH PUMPS		6			
	UNITED RENTALS	SKID STEERS		2			
	BAKER	TRUCK - ROLLOFF		1			
	BAKER	ROLL OFF BIN	20 YD	2		VANCOUVER STAGING	ASSIGNED
	BAKER	ROLL OFF BIN	20 YD	2			

New Status and/or Location

New Status: TF-45

New Location: VANCOUVER TERMINAL

Date/Time of Change: 12:30 04 OCT 16

DRILL

Comments

10 NRCES SUPERVISORS WITH 100 NRCES LABOR TECH'S UTILIZE HEAVY INDUSTRIAL EQUIPMENT TO HELP MITIGATE SPILLED MATERIAL IN DIVISION A @ THE SOURCE (TERMINAL) ~~BREAK APART~~ TEAM'S TO SPLIT TERMINAL INTO TWO AREAS OF OPERATION WITH 1 BACKHOE, 2 SKID STEERS, 2 ROLL OFF BOXES AND 3 TRASH PUMPS PER SIDE.

TF - 46

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Drill

Prepared By: CWS at

Period: 05 Jan '16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29114	CRC	SK 4	RO CLEAN RopsMop		30 GPM		
28229	NRCES	SK 4	Rops Mop		96 GPM		
28231	"	"	"		"		
28234	"	"	"		"		
28324	NRCES	UT 2	VAC TRK PERSONNEL		120 BBL		
28325	NRCES	UT 1	VAC TRK PERSONNEL		120 BBL		
	BAKER	PSH	FRAC TANK (PDX)		250,000 GAL		
28500	NRCES	WB 5	LOAD SKIFF 14'				

New Status and/or Location

New Status: ASSIGNED

New Location: TF - 46

Date/Time of Change: 04 OCT 16 0700

DRILL

Comments

CREATE TF-46 SKIM OIL IN DIV 4 @ GRP LCR 78.9 R

TF-47

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Day 1

Prepared By: CWS at

Period: 04 JULY 16

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
28254	NRCES	SK 4	2" SKIMMER PAK	1	175 EDRC		
28230	NRCES	SK 4	CS1/11-A3 SKIMMER	1	288 EDRC		
3034	MSRC	SK 4	ROPE MOP	1	48 EDRC		
28571	NRCES	SK 4	SEA WOLF SKIMMER	1	178 EDRC		
3037	MSRC	SK 41	ROPE MOP		48 EDRC		
28339	NRCES	UT 2	UAC TRK TD		70 BBC		
28330	NRCES	UT 2	UAC TRK 130		130 BBC		
	BARGE	PS 4	FRAC TANK		20,000 GAL		

New Status and/or Location

New Status: ASSIGNED

New Location: TF-47

Date/Time of Change: 0900 04 OCT 16

DRILL

Comments

CREATE TF-47 TO SKIM OIL @ GRP LCR 71.5 DIU I

TF-48

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 2 Dibit

Prepared By: at

Period: 04 Jan 16 1400

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NWFF	40HR HAZWOPR	PERSONELL	5 SUP 45 CREW			
7573	MSRC	UHO / ALL	SUPPORT TRAILER	1			

New Status and/or Location

New Status: ASSIGNED

New Location: TF-48

Date/Time of Change: 04 OCT 16 1400

DRILL

Comments

WORK PRE-CLEANING SHORELINE FROM LONGVIEW STAGING AS DIRECTED

TF-49

ICS 210 - Change Status

Incident: TESORO VANCOUVER SPILL DRILL # 2 Debrief

Prepared By: at

Period: 04 Jan 16 1400

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
	NWFF	40HR HAZWOPR	PERSONEL	5 SUP/45 CREW			
29182 3t	CRC	~~SUP~~ TRO	SHORELINE C/O TRAILER				

New Status and/or Location

New Status: ASSIGNED

New Location: TF-49

Date/Time of Change: 04 OCT 16 1400

DRILL

Comments

WORK PRE-CLEANING SHORELINE FROM ST HELENS STAGING AS DIRECTED

CTEH AIR MONITORING TEAMS (60 - 69) ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 DRILL Prepared By: C Howle at 12:15

Period: 04 Jan 16 - 0830 05 Jan 16 0700 Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
~~CTEH~~	CTEH TF-60	AIR MONITORING		1		STAGING	TF-60 DIV A
	61			1			TF-61 DIV B
	62			1			TF-62 DIV XX
	63			1			TF-63 DIV D
	64			1			TF-64 DIV ~~ZZ~~
	65			1			TF-65 DIV BKI/MI
	66			1			TF-66 DIV UU
	67			1			TF-67 DIV BI
	68			1			TF-68 DIV J
	69			1			TF-69 DIV SS

New Status and/or Location

New Status: ASSIGNED

New Location: TF's 60-69

Date/Time of Change: 12:15

DRILL

Comments

ASSIGN 10 CTEH INDIVIDUALS TO LOCATE THEMSELVES IN DIVISIONS AND CONDUCT AIR MONITORING. CONTINUOUSLY

60 - DIV A
61 - DIV B
62 - DIV XX
63 - DIV D
64 - DIV ~~ZZ~~
65 - DIV BKI/MI
66 - DIV UU
67 - DIV BI
68 - DIV J
69 - DIV SS

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 D.16.1 | Prepared By: C. HANCER at 11:45

Period: 04 Jan 16 0830 - 0700 05 Jan 16 | Version Name: ORIGINAL

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
29163	CRC	WILDLIFE TRASPORT TRAILER		1		AVAILABEL	ASSIGNED
29046	CRC	WILDLIFE REHAB SHELTER		1		"	"
29170	CRC	WILDLIFE REHAB TRAILER		1		"	"
30045	MSRC	WILDLIFE TRAILER/SHELTER SYSTEM		1		"	"
	IOSA	PERSONNEL		10		ORDERED @ TIME OF MOBILIZATION	

New Status and/or Location

New Status: ST. HELENS STAGING

New Location: REMAIN @ STAGING.

Date/Time of Change: 1145

DRILL

Comments

ASSIGN IOSA TO SET UP WILDLIFE REHAB SHELTERS @ ST. HELENS STAGING. AS PER CUSTOMER, ORDER IBRRC TO STAFF SHELTERS WITH APPROPRIATE WILDLIFE HANDLER PERSONNEL

COMMUNICATIONS SUITE

ICS 210 - Change Status

Incident: VANCOUVER ENERGY SPILL DRILL #2 Pelbit

Prepared By: C Hansen at 1200

Period: 04 Jan 16 - 0830 - 05 Jan 16 0700

Version Name:

Incident Resources to Change

ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
30167	MSRC	COMMUNICATIONS	EQUIPMENT	FULL SUITE		VANCOUVER STAGING	ASSIGNED
7481				1			
7500							
7501							
7535							
7534							
OT		PERSONNEL	COMM'S TECH'S	5			

New Status and/or Location

New Status: ASSIGNED

New Location: AS DIRECTED.

Date/Time of Change: 1200 04 OCT 16

DRILL

Comments

AS DIRECTED BY RP SET UP MOBILE COMMUNICATIONS SUITE TO SUPPORT THE COMMAND POST NEEDS. ALSO SET UP MOBILE REPEATERS FOR LANDMOBILE COMM'S, DISTRIBUTE HANDHELDS AS NECESSARY AND STAFF FOR 24 HOURS.

1. Incident Name Vancouver Energy – Dilbit Exercise		2. Operational Period (Date/Time) From: 3 Jan 0830 To: 4 Jan 0830														OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment														6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	9. "X" here if 204a Needed
		Resource	Boom (x100 ft)	Work Boat	Current Buster	OSRV	SBS	40 Hr Hazwoper	OSRB	Vac Truck	Frac Tank-476	Shore-side Skimmer	Aircraft	Air Monitoring					
A	Task Force 1, Source	Req.	0	1	1	5	1	14								Current buster system – VE asset, 1330 disc – VE asset			
		Have	0	1	1	5	1	14											☐
		Need	0	0	0	0	0	0											
A	Task Force 22, Protection	Req.	40	3				7								Double wrap source 3,000 ft boom – VE asset			
		Have	40	3				7											☐
		Need	0	0				0											
A	Task Force 2, Recovery	Req.				4	2	8					3						
		Have				4	2	8					1						☐
		Need				0	0	0					2						
B	Task Force 21, Protection	Req.	25	2				4								LCR100.8R LCR-98.6R,			
		Have	25	2				4											☐
		Need	0	0				0											
C	Task Force 23, Protection	Req.	24	1				2								LCR-97.5, LCR-97.0, LCR-95.0R LCR-94.8			
		Have	24	1				2											☐
		Need	0	0				0											
ZZ/ OR	Task Force 20, Protection	Req.	10	1				2								WR-0.9R, Priority 2, DivZZ, Columbia Slough; 1000 ft			
		Have	10	1				2											☐
		Need	0	0				0											
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy – Bakkan Exercise		2. Operational Period (Date/Time) From: 3 Oct 0830 To: 4 Oct 0830														OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment														9. "X" here if 204a Needed			
		Resource	Boom (x100 ft)	Skifft & Oper	Current Buster	OSRV	SBS	40 Hr Hazwoper	OSRB	Vac Truck	Frac Tank-476	Shore-side Skimmer	Aircraft	Air Monitoring		6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	
SCAT	Helo Team (1) SCAT-1 (WA) SCAT-2 (WA) SCAT-3 (OR) SCAT-4 (OR)	Req.		3				5					1						
		Have																	☐
		Need																	
Wildlife	Wild 1 (OR) Wild 2 (WA)	Req.		2				2											
		Have																	☐
		Need																	
Sampling	Sample-1 (upstream) Sample-2 (downstm)	Req.		2															
		Have																	☐
		Need																	
Decon A	Staging A - Vancouver	Req.																	
		Have																	☐
		Need																	
Decon B	Staging B - St. Helens	Req.																	
		Have																	☐
		Need																	
Decon C	Staging C - Longview	Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy – Bakkan Exercise		2. Operational Period (Date/Time) From: 3 Oct 0830 To: 4 Oct 0830													OPERATIONAL PLANNING WORKSHEET ICS 215-OS			
3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment													9. "X" here if 204a Needed			
		Resource	Suction Pumps	Vac Truck	Rolloff Tank	Skmmer	Flush pump							Supervisor	Labor (HAZ)	6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	
A	TF- Cleanup at VE site	Req.																	
		Have																	☐
		Need																	
A	TF- Cleanup DIV A shoreline	Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																13. Prepared by: Date Time			
11. Total Resources On Hand																			
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
A	Onwater Recovery	Req.		5	2	16	1			1			1	1	1				☐
		Have																	
		Need																	
A	Onwater Protection	Req.	40			4													☐
		Have																	
		Need																	
A	Shoreline Cleanup	Req.				125	5	5	2		4	1							☐
		Have																	
		Need																	
A	Staging	Req.				11										1	1		☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
B	Onwater Recovery	Req.		4		13				2				2					☐
		Have																	
		Need																	
B	Onwater Protection	Req.																	☐
		Have																	
		Need																	
B	Shoreline Cleanup	Req.			2	17	7	3	1			1							☐
		Have																	
		Need																	
B	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			
OPERATIONAL PLANNING WORKSHEET								June 2000										ICS 215-OS	

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station	
C/D	Onwater Recovery	Req.		4	4	18	1						1	2				☐
		Have																
		Need																
C/D	Onwater Protection	Req.																☐
		Have																
		Need																
C/D	Shoreline Cleanup	Req.																☐
		Have																
		Need																
C/D	Staging	Req.																☐
		Have																
		Need																
		Req.																☐
		Have																

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
E/F	Onwater Recovery	Req.		4	3	21							1	1					☐
		Have																	
		Need																	
E/F	Onwater Protection	Req.																	☐
		Have																	
		Need																	
E/F	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
E/F	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station	
F/UU/TT	Onwater Recovery	Req.	13	2	2	22						1	1	1				☐
		Have																
		Need																
F/UU/TT	Onwater Protection	Req.																☐
		Have																
		Need																
F/UU/TT	Shoreline Cleanup	Req.																☐
		Have																
		Need																
F/UU/TT	Staging	Req.																☐
		Have																
		Need																
		Req.																☐
		Have																

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
G/H	Onwater Recovery	Req.		6	6	26								6					☐
		Have																	
		Need																	
G/H	Onwater Protection	Req.																	☐
		Have																	
		Need																	
G/H	Shoreline Cleanup	Req.			2	29	12	3	4										☐
		Have																	
		Need																	
G/H	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
H	Onwater Recovery	Req.	13	1	7	21				1			1						☐
		Have																	
		Need																	
H	Onwater Protection	Req.																	☐
		Have																	
		Need																	
H	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
H	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	
		Have																	☐
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
I	Onwater Recovery	Req.																	☐
		Have																	
		Need																	
I	Onwater Protection	Req.																	☐
		Have																	
		Need																	
I	Shoreline Cleanup	Req.				10	5	2	1										☐
		Have																	
		Need																	
I	Staging	Req.																	☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	SWBs	OSRB/tug	Decon	Coms Station		
J	Onwater Recovery	Req.				6									1				☐
		Have																	
		Need																	
J	Onwater Protection	Req.																	☐
		Have																	
		Need																	
J	Shoreline Cleanup	Req.	12			22	7	6	3										☐
		Have																	
		Need																	
J	Staging	Req.				56						1					1		☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

1. Incident Name Vancouver Energy Spill 2, Dilbit	2. Operational Period (Date/Time) From: 1/3; 0830 To: 1/4; 0830	OPERATIONAL PLANNING WORKSHEET ICS 215-OS

3. Division/ Group or Location	4. Work Assignments	5. Resource/Equipment																	
		Resource	Boom (x100 ft)	OSRV	Work boat	Personnel	Portable skimmers	Vac Truck	Frac tank	Helo	Roll off box	Air monitoring	Current Buster	Wildlife (100 bird)	OSRB/tug	Decon	Coms Station		
UU	Onwater Recovery	Req.				7									1				☐
		Have																	
		Need																	
UU	Onwater Protection	Req.																	☐
		Have																	
		Need																	
UU	Shoreline Cleanup	Req.																	☐
		Have																	
		Need																	
UU	Staging	Req.				61						1		1		1			☐
		Have																	
		Need																	
		Req.																	☐
		Have																	

		Need																	
		Req.																	☐
		Have																	
		Need																	
10. Total Resources Required																**13. Prepared by:**			
11. Total Resources On Hand																Date		Time	
12. Total Resources Needed																			

Ordered

Incident/Drill Name			Vancouver Energy Spill Drill #2, Dilbit			Date 3 January	Prepared by		MSRC								
							189,607	95,764	144,630	801							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAAAAAA		
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #1		96			Vancouver	WA	1/3/2016 10 30	Assigned	TF-01		Vancouver Terminal
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #2		96			Vancouver	WA	1/3/2016 10 30	Assigned	TF-03		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #1	4,728				Vancouver	WA	1/3/2016 10 30	Assigned	TF-01		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #2	4,728				Vancouver	WA	1/3/2016 10 30	Assigned	TF-03		Vancouver Terminal
MSRCNW	30802	30802	OSRV	OSRV3	30-10, harbor skimmer 30'	Skimmer, Marco	3588	24		4	Portland	OR	1/3/2016 10 30	Assigned	TF-01	CCS	Vancouver Terminal
MSRCNW	3032	3032	Skiff	WB5	JAEGER	Seine Skiff, 18ft.				2	Astoria	OR	1/3/2016 10 30	Assigned	TF-06	MSRC	Vancouver Terminal
MSRCNW	7487	7487	Skiff	WB5	Jon Boat #4	JB, 15ft / 25hp				2	Astoria	OR	1/3/2016 10 30			MSRC	Vancouver Terminal
MSRCNW			SUPERVISOR		MSRC SUPERVISOR					1	Astoria	OR	1/3/2016 10 30				Vancouver Terminal
MSRCNW	3026	7451	Boom	B2	Trailer MSRC02, Boom, Kepner	20"			1200		Astoria	OR	1/3/2016 10 30	Assigned	TF-42 DIV J		Vancouver Terminal
CCSPNE	24871		Storage	VT1	PT-53 Tanker (WA 5941YB)	1979 Stemco Thompson 120		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	24872		Storage	VT1	PT-59 Tanker (WA 6886LS)	1987 Spen Semi-Trailer 120		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25100		Storage	VT1	PT-49 Tanker (WA 9754RO)	1995 Polar 42' with Certified		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25101		Storage	VT1	PT-51 Tanker (WA 8666TI)	1982 Trailmaster Tanker Nor		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25102		Storage	TT1	PT-54 Tanker (WA 0057SV)	1981 Proco Tank Trailer		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25104		Storage	TT1	PT-55 Tanker (WA 2640XY)	1993 SPCNS Tank Trailer		120		1	Longview	WA	1/3/2016 10 30	Assigned	TF-41 DIV B	CCS	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	1/3/2016 10 30	Assigned	TF-02	HILLSBORO	Vancouver Staging
CRC	29031	29141	Vessel	WB3	FRV Protector	34' Munson (includes boom t				2	Astoria	OR	1/3/2016 10 30	Available	TF-21	CRC/NRC	81.8
CRC	29034	29145	OSRV	OSRV3	OSRV MFSA 1	34' Kvichak W/ Marco Belt S	3720	24		2	Portland	OR	1/3/2016 10 30	Assigned	TF-22 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29035	29144	OSRV	OSRV3	OSRV Clean Rivers 1	34' Kvichak w/ Marco Belt SK	3720	24		2	Portland	OR	1/3/2016 10 30	Assigned	TF-20 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29039		Vessel	WB4	20' Workboat	20' Alumaweld I w/115 hp				1	Portland	OR	1/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29049	29049	Equipment	VH0	Boom Trailer	45' Trailer (includes boom fro					Vancouver	WA	1/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29050	29050	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100		2	Vancouver	WA	1/3/2016 10 30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29054	29054	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Portland	OR	1/3/2016 10 30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29133		Boom	B3	12" Boom	American Marine			3000		Portland	OR	1/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29157		Vessel	WB4	20' Workboat	20' Alumaweld II w/90 hp				1	Portland	OR	1/3/2016 10 30	Assigned	TF-44 DIV G	CRC/NRC	Vancouver Terminal
CRC	29172		Equipment	COM	Command & Communications Tr	53' Specialty Trailer - Comm				1	Portland	OR	1/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29180	29180	Equipment	VH0	Boom Trailer	48' Trailer					St. Helens	OR	1/3/2016 10 30	Assigned	TF-23	CRC/NRC	Vancouver Terminal
CRC	29182	29182	Shoreline	TR0	Shoreline Cleanup Trailer	30' Blazer Trailer					Portland	OR	1/3/2016 10 30	Assigned	TF-49	CRC/NRC	Vancouver Terminal
CRC	29192		Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	1/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	31771		Shoreline	TRO	Shoreline Clean-up Trailer	100 Man Shoreline Clean-up				1	Portland	OR	1/3/2016 10 30			CRC/NRC	Vancouver Terminal
CRC	29055	29055	OSRV	OSRV3	Shallow Water Recovery Barge	30' American Eagle w/ Lori S	2473	100	400	2	Clatskanie	OR	1/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29053	29053	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Portland	OR	1/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29052	29052	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100	400	2	Astoria	OR	1/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29057	29057	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt SK	3588	100	400	2	Longview	WA	1/3/2016 10 30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
MSRCNW	30751	7562	Equipment	VH0	Shallow Water Barge 23	Trailer #B18 WB-29 Trailer					Portland	OR	1/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7511	7562	Equipment	PTP	Shallow Water Barge 23	Pump, DOP 250, 440 gpm					Portland	OR	1/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	29594	7562	Skimmer Portable	SK3	Shallow Water Barge 23	Skimmer, QME Tri	905				Portland	OR	1/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7555	7562	Vessel	WB4	Shallow Water Barge 23	Work Boat, WB-29 <29'				4	Portland	OR	1/3/2016 11 30	Assigned	TF-01	MSRC/TONGUE PT	Vancouver Terminal
MSRCNW	7560	7562	Boom	B2	Shallow Water Barge 23	24"			60		Portland	OR	1/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7562	7562	Storage	TB4	Shallow Water Barge 23	Shallow Water Barge, non		400			Portland	OR	1/3/2016 11 30	Assigned	TF-01		Vancouver Terminal
MSRCNW	24950	3025	Boom	B2	Trailer MSRC57,Boom, Kepner	20"			1500		Portland	OR	1/3/2016 11 30				Vancouver Staging
MSRCNW	7499	30117	Boom	B2	Trailer MSRC64, Medium Fence	24"			2000		Portland	OR	1/3/2016 11 30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	1/3/2016 11 30	Assigned	TF-45 DIV A	BAKER	Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30				Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 11 30				Vancouver Staging
MSRCNW	3150	3150	Skiff	WB5	Jon Boat #7	Jon Boat #7				2	Tacoma	WA	1/3/2016 12 00	Assigned	TF-41 DIV B	MSRC	Vancouver Staging
MSRCNW	3152	3152	Skiff	WB5	SN PE	Seine Skiff 18ft.				2	Tacoma	WA	1/3/2016 12 00	Assigned	TF-06	MSRC	Vancouver Staging
MSRCNW	3137	3136	Boom	B3	Trailer MSRC60, Boom, Acme	12"			3500		Tacoma	WA	1/3/2016 12 00				Vancouver Staging
MSRCNW	3139	3138	Boom	B2	Trailer MSRC70 Boom Acme	30"			4000		Tacoma	WA	1/3/2016 12 00				Vancouver Staging
MSRCNW	7482		Boom	B2	Boom, Intertidal	26"			2000		Astoria	OR	1/3/2016 12 30				Vancouver Staging
MSRCNW	7494		Boom	B2	Boom, Medium Fenceboom	24"			2000		Astoria	OR	1/3/2016 12 30				Vancouver Staging
MSRCNW	3004	3003	Boom	B2	Trailer MSRC40, Boom, Kepner	20"			1000		Seattle	WA	1/3/2016 12 30	Assigned	TF-20		Vancouver Staging
MSRCNW	2970	2969	Boom	B2	Trailer MSRC41, Boom, Kepner	20"			1000		Seattle	WA	1/3/2016 12 30	Assigned	TF-20		Vancouver Staging
MSRCNW	3128	3127	Boom	B2	Trailer MSRC45, Boom, Acme	18"			3500		Seattle	WA	1/3/2016 12 30				Vancouver Staging

Ordered

							189,607	95,764	144,630	801								
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
CCSPNE	1428		Storage	VT2	#55 Liquid Vacuum Truck (WA 3	1987 Kenworth Liquid Vacuu		80		1	Longview	WA	1/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1436		Storage	VT2	#62 Liquid Ring/Vacuum Truck (	1990 Freightliner Ace Liquid		80		1	Longview	WA	1/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1437		Storage	VT2	#63 Air Mover/Vacuum Truck (W	1994 Ford Guzzler Ace Vacu		80		1	Longview	WA	1/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1438		Storage	VT2	#65 Combo Truck [Jet Rod/Vac]	2005 Sterling Combo Truck M		80		1	Longview	WA	1/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CCSPNE	1439		Storage	VT2	#69 Air Mover/Vacuum Truck (W	1994 Kenworth/Vactor Vacuu		80		1	Longview	WA	1/3/2016 12 30	Assigned	TF-42 DIV J	CCSPNE	SA NT HELENS STAG NG
CRC	29029	29154	Vessel	WB3	FRV Columbia Responder	32' Kvichak (includes boom f				2	St Helens	OR	1/3/2016 12 30	Available	TF-30	CRC/NRC	LONGV EW STAGING
CRC	29030	29132	Vessel	WB3	FRV Independence	32' Browns (includes boom fi				2	Longview	WA	1/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29032	29143	OSRV	OSRV3	OSRV HW Zarling	34' Kvichak W/ Marco Belt sk	3720	24		2	Rainier	OR	1/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29033	29142	OSRV	OSRV3	OSRV Mark O. Hatfield	34' Kvichak W/ Marco Belt sk	3720	24		2	Cathlamet	WA	1/3/2016 12 30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29038		Vessel	WB4	21' Workboat	21' Boston Whaler w/150 hp				1	Linnton (KM)	OR	1/3/2016 12 30	Assigned	SCAT 4	CRC/NRC	Vancouver Staging
CRC	29040		Vessel	WB4	Elizabeth Furse	27' Allday				2	Linnton (KM)	OR	1/3/2016 12 30	Assigned	TF-06	CRC/NRC	Vancouver Staging
CRC	29114		Skimmer Portable	SK4	Ro-Clean Rope Mop Skimmer	Hatz Diesel	30				Portland	OR	1/3/2016 12 30	Assigned	TF-46 DIV G	CRC/NRC	Vancouver Staging
CRC	29121		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	1/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29122		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	1/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29123		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pov	891				Portland	OR	1/3/2016 12 30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29132	29030	Boom	B3	14" Boom	American Marine (includes W			1500		Longview	WA	1/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29139	29180	Boom	B2	20" Boom	American Marine (includes W			5000		St. Helens	OR	1/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29142	29033	Boom	B2	20" Boom	American Marine (includes W			1100		Portland	OR	1/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29143	29032	Boom	B2	20" Boom	American Marine (includes W			1000		Rainier	OR	1/3/2016 12 30			CRC/NRC	Vancouver Staging
CRC	29154	29029	Boom	B3	12" Boom	American Marine (include W			2000		St. Helens	OR	1/3/2016 12 30	Assigned	TF-30	CRC/NRC	LONGV EW STAGING
CRC	29163	29163	Wildlife	WR0	Wildlife Transport Trailer	32' Climate Control Cargo Tr				1	Linnton (KM)	OR	1/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
CRC	29046	29170	Wildlife	WR0	Wildlife Rehabilitation Shelter	19' x 35' Western Shelters G					Portland	OR	1/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
CRC	29170	29170	Wildlife	WR0	Wildlife Rehabilitation Trailer	48' Specialty Trailer - Wildlife				1	Linnton (KM)	OR	1/3/2016 12 30	Assigned		CRC/NRC	SA NT HELENS STAG NG
NRCES	28261		OSRV	OSRV3	Trailer 6169, Belt Skimmer Vess	Marco/IC	3588	30		2	Portland	OR	1/3/2016 12 30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28262		OSRV	OSRV3	Belt Skimmer Vessel	Marco/I-I	3588	30		2	St Helens	OR	1/3/2016 12 30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28541		Vessel	WB4	JETCRAFT 6464 (#9)	Workboat 20'				2	Portland	OR	1/3/2016 12 30	Assigned	TF-24	NRCES	Vancouver Staging
NRCES	28545		Vessel	WB4	Monarch 6016	Workboat 18'				1	Portland	OR	1/3/2016 12 30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	28575	28575	Vessel	WB3	Raider 6028	Response Vessel 34'				2	Portland	OR	1/3/2016 12 30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	30314		Vessel	WB3	FRV Next Generation	36' Munson				2	Clatskanie	OR	1/3/2016 12 30	Assigned	TF-21 / TF-25	NRCES	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-60 DIV A	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-61 DIV B	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-62 DIV XX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-63 DIV D	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-64 DIV ZZ	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-65 DIV BX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-66 DIV UU	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-67 DIV BI	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-68 DIV J	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			1/3/2016 12 30	Assigned	TF-69 DIV SS	CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					2			1/3/2016 12 30			CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					1			1/3/2016 12 30			CTEH	Vancouver Staging
TBL			Vessel	TUG2	BOB CARLSON					5			1/3/2016 12 30	Assigned	TF-10	TBL	
TBL	31637		Storage	TB2	Barge Atlas	272' x 42' x 17'		23000			Vancouver	WA	1/3/2016 12 30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28263		OSRV	OSRV4	Belt Skimmer Vessel (6059)	Marco/1C, #1	3588	30		2	Seattle, South P	WA	1/3/2016 12 30	Assigned	TF-04		
NRCES	28264		OSRV	OSRV4	Belt Skimmer Vessel (6060)	Marco/1C, #2	3588	30		2	Seattle, South P	WA	1/3/2016 12 30	Assigned	TF-04		
MSRCNW	24952	24952	OSRV	OSRV3	MERL N	Skimmer, Marco	3588	28		2	Everett	WA	1/3/2016 13 30	Assigned	TF-02	MSRC	SA NT HELENS STAG NG
MSRCNW	3030	3030	OSRV	OSRV3	PEREGRINE	Skimmer Marco	3588	28		2	Everett	WA	1/3/2016 13 30	Assigned	TF-02	MSRC	SA NT HELENS STAG NG
MSRCNW	3119	3118	Boom	B1	Trailer MSRC62, Boom, Cape C	42"			2000		Richmond Beach	WA	1/3/2016 13 30				Vancouver Staging
MSRCNW	3125	3124	Boom	B2	Trailer MSRC68, Boom, Acme	30"			2000		Richmond Beach	WA	1/3/2016 13 30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	1/3/2016 13 30			BAKER	LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 13 30				LONGV EW STAGING
NRCES	28229		Skimmer Portable	SK4	Rope Mop	OMI/MK II-4VE	96				Portland	OR	1/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28231		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	1/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28234		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	1/3/2016 13 30	Assigned	TF-46 DIV G		
NRCES	28254		Skimmer Portable	SK4	Wier Skimmer	2" Skim-pak	178				Portland	OR	1/3/2016 13 30	Assigned	TF-47		
NRCES	28230		Skimmer Portable	SK4	Rope Mop	CSI/Model II-A3	288				Portland	OR	1/3/2016 13 30	Assigned	TF-47		

Ordered

							189,607	95,764	144,630	801							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAA		
NRCES	28218		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	1/3/2016 13 30	Assigned	TF-43 DIVB		
NRCES	28219		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	1/3/2016 13 30	Assigned	TF-43 DIVB		
CRC	29044		Skiff	WB5	16' Skiff	16' Skiff w/25 hp				1	Linnton (KM)	OR	1/3/2016 13 30	Assigned	TF-28	CRC/NRC	
CRC	29045		Skiff	WB5	16' Skiff	16' Skiff w/ 25hp				1	Clatskanie	OR	1/3/2016 13 30	Assigned	TF-28	CRC/NRC	
CRC	30499		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	1/3/2016 13 30	Assigned	TF-27	CRC/NRC	
CRC	30500		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	1/3/2016 13 30	Assigned	TF-26	CRC/NRC	
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	1/3/2016 14 00	Assigned	SCAT	HILLSBORO	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	1/3/2016 14 00	Available	TF-07	HILLSBORO	Vancouver Staging
MSRCNW	7571	7571	Vessel	WB4	17-3	Work Boat, 17-3 <29'				3	Everett	WA	1/3/2016 14 30	Assigned	TF-04	ASSIGNED TO SWB	SA NT HELENS STAG NG
MSRCNW	30329		Skimmer Portable	SK2	Crucial Skimmer C-Disc 56/30	Skimmer, Disc	5671				Everett	WA	1/3/2016 14 30	Assigned	TF-40		SA NT HELENS STAG NG
MSRCNW	31075	31075	Boom	B2	Current Buster #4 System B	Current Buster #4		196	200		Everett	WA	1/3/2016 14 30	Assigned	TF-04		SA NT HELENS STAG NG
MSRCNW	3062		Skimmer Portable	SK2	Destroil 250, Skimmer	Skimmer, weir	2914				Everett	WA	1/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	3045	3044	Equipment	SR0	Destroil DS-150 Power Pack	HPU diesel hydraulic					Everett	WA	1/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	3044	3044	Skimmer Portable	SK4	Destroil DS-150, Skimmer	Skimmer, weir	754				Everett	WA	1/3/2016 14 30	Assigned	TF-44 DIV G		SA NT HELENS STAG NG
MSRCNW	7545		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	1/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7561		Skimmer Portable	SK3	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	1/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7569		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	1/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	7489	7489	Skiff	WB5	Jon Boat #2	JB, 15ft / 15hp				2	Everett	WA	1/3/2016 14 30	Assigned	SCAT 1	MSRC	SA NT HELENS STAG NG
MSRCNW	3010	3011	Equipment	SR0	Morris, Power Pack,Diesel Amer	HPU, diesel hydraulic					Everett	WA	1/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	3011	3011	Skimmer Portable	SK4	Morris Skimmer MI-11/24	Skimmer Disk	206				Everett	WA	1/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	3043	3011	Storage	PS4	Morris, Tank, Portable	Buoywall Tank		14			Everett	WA	1/3/2016 14 30	Assigned	TF-43 DIVB		SA NT HELENS STAG NG
MSRCNW	7490	7490	Vessel	WB4	Response 5	Work Boat 28'				2	Everett	WA	1/3/2016 14 30	Assigned	SCAT 2	MSRC	SA NT HELENS STAG NG
MSRCNW	3036	3034	Equipment	SR0	Rope Mop #1, Generator, Portal	Portable Generator Diesel					Everett	WA	1/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3034	3034	Skimmer Portable	SK4	Rope Mop #1, Skimmer, MI-14E	Skimmer, Rope Mop	48				Everett	WA	1/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3035	3034	Storage	PS4	Rope Mop #1, Tank, Portable	Plastic Fish Box		4			Everett	WA	1/3/2016 14 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	30987	7554	Equipment	PTP	Shallow Water Barge 19	Pump, DOP 250, 440 gpm					Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7552	7554	Boom	B2	Shallow Water Barge 19	24"			60		Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7553	7554	Skimmer Portable	SK3	Shallow Water Barge 19	Skimmer,GT-185	1371				Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7554	7554	Storage	TB4	Shallow Water Barge 19	Shallow Water Barge non		400			Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7567	7554	Vessel	WB4	Shallow Water Barge 19	Work Boat, WB-28 <29'				4	Astoria	OR	1/3/2016 14 30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7563	7566	Vessel	WB4	Shallow Water Barge 25	Work Boat WB-30 <29'				4	Astoria	OR	1/3/2016 14 30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7564	7566	Boom	B2	Shallow Water Barge 25	18"			60		Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7566	7566	Storage	TB4	Shallow Water Barge 25	Shallow Water Barge, non		400			Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7480	7566	Skimmer Portable	SK3	Shallow Water Barge 25	Skimmer,GT-185	1371				Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	29593	7566	Equipment	PTP	Shallow Water Barge 25	Pump, DOP 250, 440 gpm					Astoria	OR	1/3/2016 14 30	Assigned	TF-03		Vancouver Staging
MSRCNW	7586	7586	Skimmer Portable	SK1	STRESS Skimmer	Pump, CCN 150	15840				Everett	WA	1/3/2016 14 30	Assigned	TF-40 DIV A		SA NT HELENS STAG NG
MSRCNW	30048	3075	Boom	B3	Trailer MSRC20, Boom, Acme	6"			2000		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	24758	3073	Boom	B2	Trailer MSRC29 Intertidal Boom	26"			1650		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7483	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			2000		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7495	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7496	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7573	7573	Equipment	VH0	Trailer Support	Equipment Cache					Everett	WA	1/3/2016 14 30	Assigned	TF-48		SA NT HELENS STAG NG
MSRCNW	30315	7573	Boom	B3	Trailer Support, Boom Acme	6"			600		Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	7486	7573	Skiff	WB5	Trailer Support, Jon Boat #1	JB, 14ft / 15hp					Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30990	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30991	7573	Equipment	PTP	Trailer Support, Pump, Peristalti	Pump, 110 gpm-29' Lift					Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
MSRCNW	31489	7573	Storage	PS4	Trailer Support Tank Fastank	Open top storage tank		57		1	Everett	WA	1/3/2016 14 30				SA NT HELENS STAG NG
CCSPNE	1499		Storage	VT2	A8 Air Mover/Vacuum Truck (W	1994 Ford Master Vacuum		80		1	Aberdeen	WA	1/3/2016 14 30	Assigned	TF-43 DIVB	CCSPNE	LONGV EW STAGING
CCSPNE	1500		Storage	VT2	A7 Air Mover/Vacuum Truck (W	1988 Ford Vactor Vacuum		80		1	Port Townsend	WA	1/3/2016 14 30	Assigned	TF-43 DIVB	CCSPNE	LONGV EW STAGING
CCSPNE	24701		Storage	VT2	#61 Air Mover/Vacuum Truck (O	1999 Int'l Truck with Guzzler		80		1	Portland	OR	1/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24702		Storage	VT2	#64 Air Mover/Vacuum Truck (W	2005 Sterling Vacuum Truck		80		1	Longview	WA	1/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24703		Storage	VT2	#67 Liquid Vacuum Truck (OR Y	1994 International 80 bbl Liq		80		1	Portland	OR	1/3/2016 14 30	Assigned	TF-44 DIV G	CCSPNE	LONGV EW STAGING
CCSPNE	24705		Storage	VT2	#68 Liquid Vacuum Truck (WA (	1997 Freightliner 80 bbl Liqu		80		1	Longview	WA	1/3/2016 14 30	Assigned	TF-42 DIV J	CCSPNE	LONGV EW STAGING
TBL				TUG2	GLENDALE					5	Wauna	WA	1/3/2016 14 30	Assigned	TF-10	TBL	Vancouver Staging
TBL	30972		Storage	TB2	Barge #2	242' x 42' x 16.6'		18000			Wauna	WA	1/3/2016 14 30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28212	28420	Skimmer Portable	SK4	Disc Skimmer/ Power Pack	Vikoma Kebab K-4	36				Seattle South P	WA	1/3/2016 14 30				
NRCES	28214		Skimmer Portable	SK2	Trailer Pier 90, Brush Skimmer	Lamor/OPC2	3019				Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28222		Skimmer Portable	SK4	Wier Skimmer (7310)	Manta 3, portable	1032				Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28228		Skimmer Portable	SK4	Rope Mop (5052)	OMI/MK II-4VE	96				Seattle, South P	WA	1/3/2016 14 30				
NRCES	28248		Skimmer Portable	SK4	Wier Skimmer (3280)	2" Skimpak (4300)	178				Seattle, South P	WA	1/3/2016 14 30				
NRCES	28251		Skimmer Portable	SK3	Wier Skimmer (4168)	Foilex 150	1131				Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-44 DIV G		

Ordered

							189,607	95,764	144,630	801							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAAA		
NRCES	28258		Skimmer Portable	SK2	Wier Skimmer (6370)	Vikoma Cascade	5465				Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28493		Skiff	WB5	Lund Skiff 6504	Workboat 12' - (LS) Green				2	Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-42 DIV J		
NRCES	28495		Skiff	WB5	Lund Skiff 6216	Workboat 12'				2	Portland	OR	1/3/2016 14 30	Assigned	TF-43 DIVB		
NRCES	28498		Skiff	WB5	Lund Skiff 6537	Workboat 14'				2	Seattle South P	WA	1/3/2016 14 30				
NRCES	28499		Skiff	WB5	Lund Skiff 6017	Workboat 12'				2	Portland	OR	1/3/2016 14 30				
NRCES	28500		Skiff	WB5	Lund Skiff 6319	Workboat 14'				2	Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28501		Skiff	WB5	Greenwater Skiff 6025	Workboat 12'				2	Portland	OR	1/3/2016 14 30				
NRCES	28532		Vessel	WB4	Green Lund #2	Workboat 20', 60hp				2	Pasco	WA	1/3/2016 14 30	Available	TF-29		76
NRCES	28533		Vessel	WB4	Green Lund #4	Workboat 20' / 75 HP				2	Spokane	WA	1/3/2016 14 30	Available	TF-29		76
NRCES	28534		Vessel	WB4	Green Lund # 5	Workboat 20', 75 HP Mercur				2	Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-29		76.6
NRCES	28485		Skiff	WB5	Lund Skiff 6200	Workboat 12'				2	Seattle South P	WA	1/3/2016 14 30	Available	TF-33		55.7
NRCES	28486		Skiff	WB5	Lund Skiff 6611	Workboat 12'				2	Seattle, Pier 90	WA	1/3/2016 14 30	Available	TF-34		55.4
NRCES	28487		Skiff	WB5	Lund Skiff 6430	Workboat 12' 15hp outboard				2	Seattle Pier 90	WA	1/3/2016 14 30	Available	TF-31		58.8
NRCES	28488		Skiff	WB5	Lund Skiff 6503	Workboat 14' - (SS) Green				2	Anacortes	WA	1/3/2016 14 30	Available	TF-32		58.7
NRCES	28489		Skiff	WB5	Lund Skiff 6214	Workboat 14' - (SS) 15hp				2	Seattle, South P	WA	1/3/2016 14 30	Available	TF-33		55.9
NRCES	28255	28571	Skimmer Portable	SK4	Weir Skimmer (Sea Wolf)	2" Skim-pak	178				Port Townsend	WA	1/3/2016 14 30	Assigned	TF-47		
NRCES	28324		Storage	VT1	Trailer 3135, Vacuum	PersVac, 120 bbls	686	120			Portland	OR	1/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28325		Storage	VT1	Vacuum Trailer (3181)	PersVac, 120 bbls	686	120			Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-46 DIV G		
NRCES	28337		Storage	VT2	Vacuum Truck (2054)	Thompson, 70bbl	686	70		1	Seattle, South P	WA	1/3/2016 14 30				
NRCES	28338		Storage	VT2	Vacuum Truck (2055)	Thompson 70bbl	686	70		1	Seattle South P	WA	1/3/2016 14 30				
NRCES	28339		Storage	VT2	Vacuum Truck (2058)	Thompson T800 70bbl	686	70		1	Seattle, South P	WA	1/3/2016 14 30	Assigned	TF-47		
NRCES	28350		Storage	VT1	Trailer 3369 Vacuum	Dragon Products 130 bbl		130			Portland	OR	1/3/2016 14 30	Assigned	TF-47		
MSRCNW	3055	3054	Equipment	SR0	Aquaguard #1, Power Pack Hyd	HPU, 4.8 hp.					Anacortes	WA	1/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	3056	3054	Equipment	PTP	Aquaguard #1, Pump, Diesel	Pump, 50 gpm diaphram					Anacortes	WA	1/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	3054	3054	Skimmer Portable	SK4	Aquaguard #1, Skimmer, RBS-5	Skimmer,brush/disk/drum	360				Anacortes	WA	1/3/2016 15 30	Assigned	TF-43 DIVB		LONGV EW STAGING
MSRCNW	24669	24669	OSRV	OSRV3	AUKLET, 28' harbor skimmer	Skimmer, Marco	3588	12		2	Port Angeles	WA	1/3/2016 15 30	Assigned	TF-04	MSRC	SA NT HELENS STAG NG
MSRCNW	3155		Boom	B2	Boom, Acme	18"			1700		Port Angeles	WA	1/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2992	2992	Skiff	WB5	EGRET	Seine Skiff, 18ft.				2	Anacortes	WA	1/3/2016 15 30	Assigned	SCAT 3	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	24757	24757	Skiff	WB5	Jon Boat #3	JB 15ft / 20hp				2	Bellingham	WA	1/3/2016 15 30	Assigned	TF-20	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	2994	2994	Skiff	WB5	Jon Boat #5	Jon Boat #5				2	Anacortes	WA	1/3/2016 15 30	Assigned	TF-20	MSRC/TONGUE PT	LONGV EW STAGING
MSRCNW	3107	3107	Skiff	WB5	Jon Boat #6	John Boat #6				2	Port Angeles	WA	1/3/2016 15 30	Available	TF-22	MSRC/TONGUE PT	55.5
MSRCNW	3039	3037	Equipment	SR0	Rope Mop #2, Generator, Portal	Portable Generator Diesel					Port Angeles	WA	1/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3037	3037	Skimmer Portable	SK4	Rope Mop #2, Skimmer, MI-14E	Skimmer, Rope Mop	48				Port Angeles	WA	1/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	3038	3037	Storage	PS4	Rope Mop #2, Tank, Portable	Plastic Fish Box		4			Port Angeles	WA	1/3/2016 15 30	Assigned	TF-47		SA NT HELENS STAG NG
MSRCNW	7484	30115	Boom	B2	Trailer MSRC05, Intertidal Boom	26"			2000		Port Angeles	WA	1/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	7498	30115	Boom	B2	Trailer MSRC05, Medium Fence	24"			2000		Port Angeles	WA	1/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	3092	3091	Boom	B2	Trailer MSRC42, Boom, Kepner	20"			1000		Port Angeles	WA	1/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2986	2985	Equipment	VH0	Trailer MSRC43	Trailer PS#1					Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	2985	2985	Storage	TB4	Trailer MSRC43, PS #1 & #2 Mi	Barge Mini		220			Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	2988	2985	Equipment	VH0	Trailer MSRC44	Trailer, PS#2					Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	2972	2971	Boom	B2	Trailer MSRC65, Boom, Acme	30"			4160		Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	2974	2973	Boom	B2	Trailer MSRC66, Boom, Acme	18"			2900		Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	3088	3087	Boom	B2	Trailer MSRC73, Boom, Acme	30"			3200		Port Angeles	WA	1/3/2016 15 30				SA NT HELENS STAG NG
MSRCNW	2976	2975	Boom	B2	Trailer MSRC75, Boom, Acme	20"			4500		Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	2978	2977	Boom	B2	Trailer MSRC76, Boom, Acme	30"			4000		Anacortes	WA	1/3/2016 15 30				LONGV EW STAGING
MSRCNW	3110	3110	Skiff	WB5	WILLET	Seine Skiff, 18ft.				2	Port Angeles	WA	1/3/2016 15 30	Available	TF-22	MSRC	55.5
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	1/3/2016 15 30	Assigned	TF-41 DIV B		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 15 30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	1/3/2016 15 30	Assigned			Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	1/3/2016 15 30				SA NT HELENS STAG NG
CRC	29177	29177	Equipment	VH0	Boom Trailer	48' Trailer			5000		Longview	WA	1/3/2016 15 30				
CRC	29131	29177	Boom	B2	20" Boom	American Marine			5000		Longview	WA	1/3/2016 15 30				
CRC	29185	29185	Equipment	VH0	Boom Trailer	48' Trailer					Clatskanie	OR	1/3/2016 15 30				

Ordered

							189,607	95,764	144,630	801							
Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAA	AAAAAAAAAAA	AA	AAAAAAAA	AAAAAAAAA	AAAAAAAAAAA	AAAA	
CRC	29140	29185	Boom	B2	20" Boom	American Marine (includes W			5000		Clatskanie	OR	1/3/2016 15 30				
CRC	29179	29179	Equipment	VH0	Boom Trailer	48' Trailer					Longview	WA	1/3/2016 15 30				
CRC	29129		Boom	B2	20" Boom	American Marine			4200		Longview	WA	1/3/2016 15 30				
NRCES	28215		Skimmer Portable	SK3	Brush/DrumSkimmer	Aqua-Guard/RBS-10	662				Portland	OR	1/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28216		Skimmer Portable	SK3	Brush/Drum Skimmer	Aqua-Guard/RBS-10	662				Portland	OR	1/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28260	28574	Skimmer Portable	SK3	Brush/Drum Skimmer (Response	Aqua-Guard/RBS-10	662				Seattle, Fisherm	WA	1/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28225		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Anacortes	WA	1/3/2016 16 00	Assigned	TF-44 DIV G		
NRCES	28223		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Port Angeles	WA	1/3/2016 16 00	Assigned	TF-44 DIV G		
CRC	29174	29174	Equipment	VH0	Boom Trailer	48' Trailer					Astoria	OR	1/3/2016 16 00				
CRC	29125	29174	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	1/3/2016 16 00				
CRC	29138	29176	Boom	B2	20" Boom	American Marine (includes W			2500		Skamokawa	WA	1/3/2016 16 00				
CRC	29176	29176	Equipment	VH0	Boom Trailer	28' Trailer (miscellaneous bo					Skamokawa	WA	1/3/2016 16 00				
CRC	29184	29184	Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	1/3/2016 16 00				
CRC	29135	29184	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	1/3/2016 16 00				
GDS					40 HOUR HAZWOPER TECHS	PERSONNEL				41	SEATTLE	WA	1/3/2016 16 30				Vancouver Staging
MSRCNW	7544	7546	Boom	B2	Shallow Water Barge 123	24"			60		Tacoma	WA	1/3/2016 16 30	Assigned	TF-04	MSRC/GDS	Vancouver Staging
MSRCNW	7546	7546	Storage	TB4	Shallow Water Barge 123	Shallow Water Barge, non		400			Tacoma	WA	1/3/2016 16 30	Assigned	TF-04	SEE 17-3	Vancouver Staging
MSRCNW	24672	7546	Skimmer Portable	SK3	Shallow Water Barge 123	Skimmer, QME Tri	905				Tacoma	WA	1/3/2016 16 30	Assigned	TF-04		Vancouver Staging
MSRCNW	3079	3078	Boom	B2	Trailer MSRC17, Boom, Acme	30"			4000		Ferndale	WA	1/3/2016 16 30				LONGV EW STAGING
MSRCNW	3022	3021	Boom	B2	Trailer MSRC27 Boom Acme	30"			4000		Blaine	WA	1/3/2016 16 30				LONGV EW STAGING
MSRCNW	7497	24951	Boom	B2	Trailer MSRC52, Medium Fence	24"			2000		Ferndale	WA	1/3/2016 16 30				LONGV EW STAGING
MSRCNW	3024	3023	Boom	B2	Trailer MSRC77 Boom Acme	18"			3200		Blaine	WA	1/3/2016 16 30				LONGV EW STAGING
NRCES	28227		Skimmer Portable	SK4	Rope Mop (6147)	OMI/MK I-4E	96				Pasco	WA	1/3/2016 16 30				
MSRCNW	30801	30801	Boom	B2	Current Buster #4, System A	Current Buster #4		196	200		Neah Bay	WA	1/3/2016 17 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	30800	30801	Equipment	VH0	Current Buster #4, System A Tra	Trailer #S12					Neah Bay	WA	1/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7556	7558	Boom	B2	Shallow Water Barge 21	24"			60		Port Angeles	WA	1/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
MSRCNW	7557	7558	Skimmer Portable	SK3	Shallow Water Barge 21	Skimmer,GT-185	1371				Port Angeles	WA	1/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
MSRCNW	7558	7558	Storage	TB4	Shallow Water Barge 21	Shallow Water Barge		400			Port Angeles	WA	1/3/2016 17 30	Assigned	TF-06		SA NT HELENS STAG NG
FOSS	7559	7558	Vessel	WB4	Shallow Water Barge 21	Work Boat 12-3 <29'				3	Port Angeles	WA	1/3/2016 17 30	Assigned	TF-06	MSRC/GDS	SA NT HELENS STAG NG
MSRCNW	7445	7593	Boom	B2	Trailer MSRC09, Boom, Qualted	18"			1500		Neah Bay	WA	1/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7446	30116	Boom	B2	Trailer MSRC26 Boom Qualted	18"			1500		Neah Bay	WA	1/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	3123	3122	Boom	B1	Trailer MSRC63, Boom, Cape C	42"			2000		Neah Bay	WA	1/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	3090	3089	Boom	B1	Trailer MSRC74, Boom, Kepner	42"			2000		Neah Bay	WA	1/3/2016 17 30				SA NT HELENS STAG NG
MSRCNW	7547	7570	Vessel	WB4	Shallow Water Barge 51	Work Boat, WB-1 <29'				3	Bellingham	WA	1/3/2016 18 30	Assigned	TF-06	MSRC/GDS	LONGV EW STAGING
MSRCNW	7568	7570	Boom	B2	Shallow Water Barge 51	24"			60		Bellingham	WA	1/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
MSRCNW	7570	7570	Storage	TB4	Shallow Water Barge 51	Shallow Water Barge, non		400			Bellingham	WA	1/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
MSRCNW	24671	7570	Skimmer Portable	SK3	Shallow Water Barge 51	Skimmer, QME Tri	905				Bellingham	WA	1/3/2016 18 30	Assigned	TF-06		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	1/3/2016 19 30	Assigned	TF-46 DIV G		SA NT HELENS STAG NG
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 19 30	Assigned	TF-47		SA NT HELENS STAG NG
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 19 30				SA NT HELENS STAG NG
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	1/3/2016 19 30				SA NT HELENS STAG NG
MSRCNW	30167	7500	Equipment	COM	Mobile Comms Support Equipme	Flatbed Trailer, 40'					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7481		Equipment	COM	Com,Hand Held Radio Package	Radios					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7500	7500	Equipment	COM	Mobile Comms Suite	Flatbed Trailer, 48'					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7501	7500	Equipment	COM	Mobile Comms Suite Sat packag	Sat system					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7535		Equipment	COM	Com,Portable Base Station & Re	Repeaters					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW	7536		Equipment	COM	Com Portable Internet Access	Internet access					Everett	WA	1/3/2016 20 00	Assigned			Vancouver Staging
MSRCNW			Personnel	COM	Communications TECH	Communications Tech				5	Everett	WA	1/3/2016 20 00	Assigned		MSRC	Vancouver Staging
MSRCNW	7448		Skimmer Portable	SK2	Aardvac 800 Skimmer	Skimmer, Vacuum System	3840	13			Astoria	OR	1/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	7462		Skimmer Portable	SK2	Desmi Ocean Skimmer	Skimmer System	3017				Astoria	OR	1/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	24668		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Astoria	OR	1/3/2016 20 30	Assigned	TF-42 DIV J		Vancouver Staging
MSRCNW	7514	7518	Boom	B1	OSRV, Oregon Responder	67"			1320		Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7516	7518	Equipment	PTP	OSRV, Oregon Responder	Pump, CCN 150, 2200 gpm					Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7518	7518	OSRV	OSRV1	OSRV Oregon Responder	Skimmer Transrec	10567	4000	1320	10	Astoria	OR	1/3/2016 20 30	Assigned	TF-05	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7519	7518	Skimmer Portable	SK1	OSRV, Oregon Responder	Skimmer,STRESS Weir	15840				Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7520	7518	Vessel	WB4	OSRV Oregon Responder	Rigid Hull Boat 6m					Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7521	7518	Vessel	WB4	OSRV, Oregon Responder	Rigid Hull Boat, 6m					Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
MSRCNW	7522	7518	Vessel	WB3	OSRV, Oregon Responder	Workboat 32'				2	Astoria	OR	1/3/2016 20 30	Assigned	TF-05	MSRC	Vancouver Staging
MSRCNW	31077	7518	Boom	B2	OSRV, Oregon Responder	Current Buster #4, System C		196	200		Astoria	OR	1/3/2016 20 30	Assigned	TF-05		Vancouver Staging
NRCES	28226		Skimmer Portable	SK3	Brush, drum & disc Skimmer	Aqua-Guard RBS-10	662				Neah Bay	WA	1/3/2016 21 00				
MSRCNW	7548	7551	Boom	B2	Shallow Water Barge 133	24"			60		Anacortes	WA	1/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING

Ordered

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Organizatio (6)	Unique to-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
MSRCNW	7549	7551	Equipment	SR0	Shallow Water Barge 133	Propulsion unit W/ Crane				3	Anacortes	WA	1/3/2016 21 30	Assigned	TF-05	MSRC/GDS	LONGV EW STAGING
MSRCNW	7550	7551	Skimmer Portable	SK4	Shallow Water Barge 133	Skimmer, QME Tri	905				Anacortes	WA	1/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING
MSRCNW	7551	7551	Storage	TB4	Shallow Water Barge 133	Shallow Water Barge, Self		400			Anacortes	WA	1/3/2016 21 30	Assigned	TF-05		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK 20 000 Gallon	FRAC TANK 20 000 Gallon			476		Portland	OR	1/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	1/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	1/3/2016 22 00	Assigned	TF-42 DIV J		LONGV EW STAGING
FOSS			TUG2		CONNOR FOSS	TUG BOAT - OSRB 404				5	ASTORIA	OR	1/3/2016 22 30		TF-10	FOSS	Vancouver Staging
MSRCNW	7513	7513	Storage	TB2	OSRB, 404	Tank Barge		40000		3	Astoria	OR	1/3/2016 22 30		TF-10	GDS TANK PIC	Vancouver Staging
MSRCNW	31220	7513	Boom	B1	OSRB, 404, EFC 67" Boom	67"			660		Astoria	OR	1/3/2016 22 30		TF-10		Vancouver Staging
NRCES			Personnel		40 hour haz techs and supervisors					110			1/4/2016 7 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
IOSA			Personnel							10			1/4/2016 7 00	Available			SA NT HELENS STAG NG
BAKER	30045		Wildlife	WR0	Trailer Wildlife Rehabilitation	Trailer 53' with lift gate and					Everett	WA	1/4/2016 7 00	Assigned			SA NT HELENS STAG NG
UNITED RENTALS			Skid Steers							4			1/4/2016 7 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
VOO			VOO	WB	JE McAmis #1	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-03	Self Crewed	Vancouver Staging
VOO			VOO	WB	JB-1	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-03	Self Crewed	Vancouver Staging
VOO			VOO	WB	JE McAmis #2	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-04	Self Crewed	Vancouver Staging
VOO			VOO	WB	Miss Molly	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-04	Self Crewed	Vancouver Staging
VOO			VOO	WB	George Allen	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-05	Self Crewed	Vancouver Staging
VOO			VOO	WB	Ken and Al	VOO WORKBOAT				2	Astoria	OR	1/4/2016 8 30	Assigned	TF-05	Self Crewed	Vancouver Staging
VOO			VOO	WB	Sandwick	VOO WORKBOAT				2	Portland	OR	1/4/2016 8 30	Available	TF-07	Self Crewed	Vancouver Staging
NWFFE			40 HR HAZWOPER		PERSONNEL	PERSONNEL SHOREL NE CU				100	Philomath	WA	1/4/2016 8 30	Assigned	TF-48/TF-49		Vancouver Staging
VOO			VOO	WB	Snipe	VOO WORKBOAT				2	Chinook	WA	1/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Lady Mary	VOO WORKBOAT				2	Chinook	WA	1/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Nauti-Lady	VOO WORKBOAT				2	Ilwaco	WA	1/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Pacific Venture	VOO WORKBOAT				2	Ilwaco	WA	1/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
VOO			VOO	WB	Four Seasons	VOO WORKBOAT				2	Ilwaco	WA	1/4/2016 12 30	Available	TF-07	Self Crewed	Vancouver Staging
UNITED RENTALS			Back hoe		16'					1			1/4/2016 14 00	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
MSRCNW	7463		Skimmer Portable	SK2	Desmi Ocean Skimmer	Skimmer System	3017				Port Angeles	WA	1/4/2016 14 30				SA NT HELENS STAG NG
MSRCNW	30130	7527	Skimmer Portable	SKP	OSRV, Park Responder	Skimmer, STRESS Weir	15840				Port Angeles	WA	1/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7523	7527	Boom	B1	OSRV Park Responder	67"			1320		Port Angeles	WA	1/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7527	7527	OSRV	OSRV1	OSRV, Park Responder	Skimmer, Transrec	10567	4000	1320	10	Port Angeles	WA	1/4/2016 14 30	Available	TF-07	MSRC/ARROW	SA NT HELENS STAG NG
MSRCNW	7529	7527	Vessel	WB4	OSRV, Park Responder	Rigid Hull Boat, 6m					Port Angeles	WA	1/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7530	7527	Vessel	WB4	OSRV, Park Responder	Rigid Hull Boat, 6m					Port Angeles	WA	1/4/2016 14 30	Available	TF-07		SA NT HELENS STAG NG
MSRCNW	7531	7527	Vessel	WB3	OSRV, Park Responder	Workboat 32'				2	Port Angeles	WA	1/4/2016 14 30	Available	TF-07	MSRC/ARROW	SA NT HELENS STAG NG
UNITED RENTALS			Trash Pumps							6			1/4/2016 14 30	Assigned	TF-45 DIV A		VANCOUVER TERMINAL
MSRCNW			EQUIPMENT		ANTI EXPOSURE COVERALL	TYPE V USCG APPROVED					SEATTLE	WA	1/5/2016 7 00	Ordered			ORDERED 500 EA FROM
MSRCNW	24865	7527	Equipment	PTP	OSRV Park Responder	Pump CCN-150 2200 gpm					Port Angeles	WA	1/5/2016 14 00	Available	TF-07		SA NT HELENS STAG NG
Clean Harbors			40 HR HAZWOPER			PERSONNEL, SHOREL NE CU				200	National	US	1/6/2016 7 00			CLEAN HARBORS	Vancouver Staging
ANCHOR ENV RONMENTAL					SAMPLING PLAN TEAM	SAMPLE TECHNICIANS				10	SEATTLE	WA	1/6/2016 7 00	Ordered			Vancouver Staging
ANCHOR ENV RONMENTAL					SAMPLING PLAN TEAM	PLAN ENGINEERS				3	SEATTLE	WA	1/6/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					ROV	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					ROV	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					SEATTLE	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	28' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	28' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	28' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	32' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	34' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL			VESSEL	WB	VESSEL	34' JET				2	FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging

Ordered

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Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAAAAAA		
GRAVITY ENVIRONMENTAL					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
GRAVITY ENVIRONMENTAL					SIDE SONAR	PETROLEUM SENSING EQUIPMENT					FALL CITY	WA	1/7/2016 7 00	Ordered			Vancouver Staging
FRED DIV NE					UNDERWATER VACUUM	2" SUCTION - 40HP					PORTLAND	OR	1/9/2016 7 00	Ordered			Vancouver Staging
FRED DIV NE			VESSEL	WB	VESSEL	56' JET DRIVE SLED					PORTLAND	OR	1/9/2016 7 00	Ordered			Vancouver Staging
FRED DIV NE					DIVE TEAM	5 MAN DIVE TEAM				5	PORTLAND	OR	1/9/2016 7 00	Ordered			Vancouver Staging
FRED DIV NE					DIVE TEAM	5 MAN DIVE TEAM				5	PORTLAND	OR	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					DIVE TEAM	5 MAN DIVE TEAM				5	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					DIVE TEAM	5 MAN DIVE TEAM				5	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE					DIVE TEAM	5 MAN DIVE TEAM				5	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE			VESSEL	WB	VESSEL	32' LANDING CRAFT				2	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE			VESSEL	WB	VESSEL	32' LANDING CRAFT				2	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
GLOBAL DIVING & SALVAGE			VESSEL	WB	VESSEL	32' LANDING CRAFT				2	SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
MANSON CONSTRUCTION					SILT CURTAIN	24" ADJUSTABLE SK RT			4000		SEATTLE	WA	1/9/2016 7 00	Ordered			Vancouver Staging
HICKEY MAR NE					DERRICK BARGE	SEA HORSE				6	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
HICKEY MAR NE					DREDGE	SEA LION				5	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
HICKEY MAR NE			VESSEL	TUG1	TUG	HUSKY				4	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
HICKEY MAR NE			VESSEL	TUG1	TUG	VIKING				4	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
T & T MARINE					SHALLOW WATER DREDGE	30' LONGNECK DREDGE					GALVESTON	TX	1/10/2016 7 00	Ordered			Vancouver Staging
T & T MARINE					TRAILER 49	40' TRAILER					GALVESTON	TX	1/10/2016 7 00	Ordered			Vancouver Staging
T & T MARINE					TRAILER 48	40' TRAILER					GALVESTON	TX	1/10/2016 7 00	Ordered			Vancouver Staging
TIDEWATER					BIN BARGE	BIN BARGE 202 - 180'					VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
TIDEWATER					BIN BARGE	BIN BARGE 203 - 180'					VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
TIDEWATER			VESSEL	TUG1	TUG	CROWN POINT				5	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging
TIDEWATER			VESSEL	TUG1	TUG	OUTLAW				5	VANCOUVER	WA	1/10/2016 7 00	Ordered			Vancouver Staging

Ordered

Incident/Drill Name: Vancouver Energy Spill Drill #2, Dilbit **Date:** 3 January **Prepared by:** MSRC

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA_A	AAAAAAAAAAAAA		
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #1		96			Vancouver	WA	10/3/2016 10:30	Assigned	TF-01		Vancouver Terminal
TESORONW			Boom	B2	Current Buster 2	Current Buster 2 #2		96			Vancouver	WA	10/3/2016 10:30	Assigned	TF-03		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #1	4,728				Vancouver	WA	10/3/2016 10:30	Assigned	TF-01		Vancouver Terminal
TESORONW			Equipment	SK4	Crucial Skimmer C-Disc 13Disk	Crucial Portable Skimmer #2	4,728				Vancouver	WA	10/3/2016 10:30	Assigned	TF-03		Vancouver Terminal
MSRCNW	30802	30802	OSRV	OSRV3	30-10, harbor skimmer 30'	Skimmer, Marco	3588	24		4	Portland	OR	10/3/2016 10:30	Assigned	TF-01	CCS	Vancouver Terminal
MSRCNW	3032	3032	Skiff	WB5	JAEGER	Seine Skiff, 18ft.				2	Astoria	OR	10/3/2016 10:30	Assigned	TF-06	MSRC	Vancouver Terminal
MSRCNW	7487	7487	Skiff	WB5	Jon Boat #4	JB, 15ft / 25hp				2	Astoria	OR	10/3/2016 10:30			MSRC	Vancouver Terminal
MSRCNW			SUPERVISOR		MSRC SUPERVISOR					1	Astoria	OR	10/3/2016 10:30				Vancouver Terminal
MSRCNW	3026	7451	Boom	B2	Trailer MSRC02, Boom, Kepner	20"			1200		Astoria	OR	10/3/2016 10:30	Assigned	TF-42 DIV J		Vancouver Terminal
CCSPNE	24871		Storage	VT1	PT-53 Tanker (WA 5941YB)	1979 Stemco Thompson 120		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	24872		Storage	VT1	PT-59 Tanker (WA 6886LS)	1987 Spen Semi-Trailer 120 I		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25100		Storage	VT1	PT-49 Tanker (WA 9754RO)	1995 Polar 42' with Certified		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25101		Storage	VT1	PT-51 Tanker (WA 8666TI)	1982 Trailmaster Tanker Non		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25102		Storage	TT1	PT-54 Tanker (WA 0057SV)	1981 Proco Tank Trailer		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-40 DIV A	CCS	Vancouver Staging
CCSPNE	25104		Storage	TT1	PT-55 Tanker (WA 2640XY)	1993 SPCNS Tank Trailer		120		1	Longview	WA	10/3/2016 10:30	Assigned	TF-41 DIV B	CCS	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 10:30	Assigned	TF-02	HILLSBORO	Vancouver Staging
CRC	29031	29141	Vessel	WB3	FRV Protector	34' Munson (includes boom fi				2	Astoria	OR	10/3/2016 10:30	Assigned	TF-21	CRC/NRC	Vancouver Terminal
CRC	29034	29145	OSRV	OSRV3	OSRV MFSA 1	34' Kvichak W/ Marco Belt Sk	3720	24		2	Portland	OR	10/3/2016 10:30	Assigned	TF-22 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29035	29144	OSRV	OSRV3	OSRV Clean Rivers 1	34' Kvichak w/ Marco Belt Sk	3720	24		2	Portland	OR	10/3/2016 10:30	Assigned	TF-20 / TF-01	CRC/NRC	Vancouver Terminal
CRC	29039		Vessel	WB4	20' Workboat	20' Alumaweld I w/115 hp				1	Portland	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29049	29049	Equipment	VH0	Boom Trailer	45' Trailer (includes boom fro					Vancouver	WA	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29050	29050	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100		2	Vancouver	WA	10/3/2016 10:30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29054	29054	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Portland	OR	10/3/2016 10:30	Assigned	TF-02	CRC/NRC	Vancouver Terminal
CRC	29133		Boom	B3	12" Boom	American Marine			3000		Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29157		Vessel	WB4	20' Workboat	20' Alumaweld II w/90 hp				1	Portland	OR	10/3/2016 10:30	Assigned	TF-44 DIV G	CRC/NRC	Vancouver Terminal
CRC	29172		Equipment	COM	Command & Communications T	53' Specialty Trailer - Comma				1	Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29180	29180	Equipment	VH0	Boom Trailer	48' Trailer					St. Helens	OR	10/3/2016 10:30	Assigned	TF-23	CRC/NRC	Vancouver Terminal
CRC	29182	29182	Shoreline	TR0	Shoreline Cleanup Trailer	30' Blazer Trailer					Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29192		Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	31771		Shoreline	TRO	Shoreline Clean-up Trailer	100 Man Shoreline Clean-up				1	Portland	OR	10/3/2016 10:30			CRC/NRC	Vancouver Terminal
CRC	29055	29055	OSRV	OSRV3	Shallow Water Recovery Barge	30' American Eagle w/ Lori S	2473	100	400	2	Clatskanie	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29053	29053	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Portland	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29052	29052	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Lori Skimmer	2473	100	400	2	Astoria	OR	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
CRC	29057	29057	OSRV	OSRV3	Shallow Water Recovery Barge	30' Kvichak w/ Marco Belt Sk	3588	100	400	2	Longview	WA	10/3/2016 10:30	Assigned	TF-06	CRC/NRC	Vancouver Terminal
MSRCNW	30751	7562	Equipment	VH0	Shallow Water Barge 23	Trailer #B18 WB-29 Trailer					Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7511	7562	Equipment	PTP	Shallow Water Barge 23	Pump, DOP 250, 440 gpm					Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	29594	7562	Skimmer Portable	SK3	Shallow Water Barge 23	Skimmer, QME Tri	905				Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7555	7562	Vessel	WB4	Shallow Water Barge 23	Work Boat, WB-29 <29'				4	Portland	OR	10/3/2016 11:30	Assigned	TF-01	MSRC/TONGUE PT	Vancouver Terminal
MSRCNW	7560	7562	Boom	B2	Shallow Water Barge 23	24"			60		Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	7562	7562	Storage	TB4	Shallow Water Barge 23	Shallow Water Barge, non		400			Portland	OR	10/3/2016 11:30	Assigned	TF-01		Vancouver Terminal
MSRCNW	24950	3025	Boom	B2	Trailer MSRC57,Boom, Kepner	20"			1500		Portland	OR	10/3/2016 11:30				Vancouver Staging
MSRCNW	7499	30117	Boom	B2	Trailer MSRC64, Medium Fence	24"			2000		Portland	OR	10/3/2016 11:30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A	BAKER	Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30	Assigned	TF-45 DIV A		Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30				Vancouver Staging
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 11:30				Vancouver Staging
MSRCNW	3150	3150	Skiff	WB5	Jon Boat #7	Jon Boat #7				2	Tacoma	WA	10/3/2016 12:00	Assigned	TF-41 DIV B	MSRC	Vancouver Staging
MSRCNW	3152	3152	Skiff	WB5	SNIPE	Seine Skiff, 18ft.				2	Tacoma	WA	10/3/2016 12:00	Assigned	TF-06	MSRC	Vancouver Staging
MSRCNW	3137	3136	Boom	B3	Trailer MSRC60, Boom, Acme	12"			3500		Tacoma	WA	10/3/2016 12:00				Vancouver Staging
MSRCNW	3139	3138	Boom	B2	Trailer MSRC70, Boom, Acme	30"			4000		Tacoma	WA	10/3/2016 12:00				Vancouver Staging
MSRCNW	7482		Boom	B2	Boom, Intertidal	26"			2000		Astoria	OR	10/3/2016 12:30				Vancouver Staging
MSRCNW	7494		Boom	B2	Boom, Medium Fenceboom	24"			2000		Astoria	OR	10/3/2016 12:30				Vancouver Staging
MSRCNW	3004	3003	Boom	B2	Trailer MSRC40, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12:30	Assigned	TF-20		Vancouver Staging
MSRCNW	2970	2969	Boom	B2	Trailer MSRC41, Boom, Kepner	20"			1000		Seattle	WA	10/3/2016 12:30	Assigned	TF-20		Vancouver Staging
MSRCNW	3128	3127	Boom	B2	Trailer MSRC45, Boom, Acme	18"			3500		Seattle	WA	10/3/2016 12:30				Vancouver Staging
CCSPNE	1428		Storage	VT2	#55 Liquid Vacuum Truck (WA 3	1987 Kenworth Liquid Vacuu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1436		Storage	VT2	#62 Liquid Ring/Vacuum Truck (	1990 Freightliner Ace Liquid F		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1437		Storage	VT2	#63 Air Mover/Vacuum Truck (W	1994 Ford Guzzler Ace Vacu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1438		Storage	VT2	#65 Combo Truck [Jet Rod/Vac]	2005 Sterling Combo Truck M		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CCSPNE	1439		Storage	VT2	#69 Air Mover/Vacuum Truck (W	1994 Kenworth/Vactor Vacuu		80		1	Longview	WA	10/3/2016 12:30	Assigned	TF-42 DIV J	CCSPNE	SAINT HELENS STAGING
CRC	29029	29154	Vessel	WB3	FRV Columbia Responder	32' Kvichak (includes boom fi				2	St.Helens	OR	10/3/2016 12:30	Available	TF-30	CRC/NRC	LONGVIEW STAGING
CRC	29030	29132	Vessel	WB3	FRV Independence	32' Browns (includes boom fr				2	Longview	WA	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29032	29143	OSRV	OSRV3	OSRV HW Zarling	34' Kvichak W/ Marco Belt sk	3720	24		2	Rainier	OR	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging

Ordered

							189,607	95,764	140,630	716								
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA A	AAAAAAAAAAAAAA		
CRC	29033	29142	OSRV	OSRV3	OSRV Mark O. Hatfield	34' Kvichak W/ Marco Belt sk	3720	24		2	Cathlamet	WA	10/3/2016 12:30	Assigned	TF-01	CRC/NRC	Vancouver Staging
CRC	29038		Vessel	WB4	21' Workboat	21' Boston Whaler w/150 hp				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned	SCAT 4	CRC/NRC	Vancouver Staging
CRC	29040		Vessel	WB4	Elizabeth Furse	27' Allday				2	Linnton (KM)	OR	10/3/2016 12:30	Assigned	TF-06	CRC/NRC	Vancouver Staging
CRC	29114		Skimmer Portable	SK4	Ro-Clean Rope Mop Skimmer	Hatz Diesel	30				Portland	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29121		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29122		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29123		Skimmer Portable	SK3	36" Coated Drum Skimmer (Unit	Yanmar Diesel Hydraulic Pow	891				Portland	OR	10/3/2016 12:30	Assigned	TF-41 DIV B	CRC/NRC	Vancouver Staging
CRC	29132	29030	Boom	B3	14" Boom	American Marine (includes W			1500		Longview	WA	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29139	29180	Boom	B2	20" Boom	American Marine (includes W			5000		St. Helens	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29142	29033	Boom	B2	20" Boom	American Marine (includes W			1100		Portland	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29143	29032	Boom	B2	20" Boom	American Marine (includes W			1000		Rainier	OR	10/3/2016 12:30			CRC/NRC	Vancouver Staging
CRC	29154	29029	Boom	B3	12" Boom	American Marine (include WF			2000		St. Helens	OR	10/3/2016 12:30	Assigned	TF-30	CRC/NRC	LONGVIEW STAGING
CRC	29163	29163	Wildlife	WR0	Wildlife Transport Trailer	32' Climate Control Cargo Tra				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
CRC	29046	29170	Wildlife	WR0	Wildlife Rehabilitation Shelter	19' x 35' Western Shelters Ga					Portland	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
CRC	29170	29170	Wildlife	WR0	Wildlife Rehabilitation Trailer	48' Specialty Trailer - Wildlife				1	Linnton (KM)	OR	10/3/2016 12:30	Assigned		CRC/NRC	SAINT HELENS STAGING
NRCES	28261		OSRV	OSRV3	Trailer 6169, Belt Skimmer Vess	Marco/IC	3588	30		2	Portland	OR	10/3/2016 12:30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28262		OSRV	OSRV3	Belt Skimmer Vessel	Marco/I-I	3588	30		2	St Helens	OR	10/3/2016 12:30	Assigned	TF-03	NRCES	Vancouver Staging
NRCES	28541		Vessel	WB4	JETCRAFT 6464 (#9)	Workboat 20'				2	Portland	OR	10/3/2016 12:30	Assigned	TF-24	NRCES	Vancouver Staging
NRCES	28545		Vessel	WB4	Monarch 6016	Workboat 18'				1	Portland	OR	10/3/2016 12:30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	28575	28575	Vessel	WB3	Raider 6028	Response Vessel 34'				2	Portland	OR	10/3/2016 12:30	Assigned	TF-23	NRCES	Vancouver Staging
NRCES	30314		Vessel	WB3	FRV Next Generation	36' Munson				2	Clatskanie	OR	10/3/2016 12:30	Assigned	TF-21 / TF-25	NRCES	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-60 DIV A	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-61 DIV B	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-62 DIV XX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-63 DIV D	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-64 DIV ZZ	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-65 DIV BX	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-66 DIV UU	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-67 DIV BI	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-68 DIV J	CTEH	Vancouver Staging
CTEH			Air Monitoring Techs		Air Monitoring					1			10/3/2016 12:30	Assigned	TF-69 DIV SS	CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					2			10/3/2016 12:30			CTEH	Vancouver Staging
CTEH			Safety Manager		Safety Manager					1			10/3/2016 12:30			CTEH	Vancouver Staging
TBL			Vessel	TUG2	BOB CARLSON					5			10/3/2016 12:30	Assigned	TF-10	TBL	
TBL	31637		Storage	TB2	Barge Atlas	272' x 42' x 17'		23000			Vancouver	WA	10/3/2016 12:30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28263		OSRV	OSRV4	Belt Skimmer Vessel (6059)	Marco/1C, #1	3588	30		2	Seattle, South Pa	WA	10/3/2016 12:30	Assigned	TF-04		
NRCES	28264		OSRV	OSRV4	Belt Skimmer Vessel (6060)	Marco/1C, #2	3588	30		2	Seattle, South Pa	WA	10/3/2016 12:30	Assigned	TF-04		
MSRCNW	24952	24952	OSRV	OSRV3	MERLIN	Skimmer, Marco	3588	28		2	Everett	WA	10/3/2016 13:30	Assigned	TF-02	MSRC	SAINT HELENS STAGING
MSRCNW	3030	3030	OSRV	OSRV3	PEREGRINE	Skimmer, Marco	3588	28		2	Everett	WA	10/3/2016 13:30	Assigned	TF-02	MSRC	SAINT HELENS STAGING
MSRCNW	3119	3118	Boom	B1	Trailer MSRC62, Boom, Cape C	42"			2000		Richmond Beach	WA	10/3/2016 13:30				Vancouver Staging
MSRCNW	3125	3124	Boom	B2	Trailer MSRC68, Boom, Acme	30"			2000		Richmond Beach	WA	10/3/2016 13:30				Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 13:30			BAKER	LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 13:30				LONGVIEW STAGING
NRCES	28229		Skimmer Portable	SK4	Rope Mop	OMI/MK II-4VE	96				Portland	OR	10/3/2016 13:30				
NRCES	28231		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13:30				
NRCES	28234		Skimmer Portable	SK4	Rope Mop	OMI/MK I-4E	96				Portland	OR	10/3/2016 13:30				
NRCES	28254		Skimmer Portable	SK4	Wier Skimmer	2" Skim-pak	178				Portland	OR	10/3/2016 13:30	Assigned	TF-47		
NRCES	28230		Skimmer Portable	SK4	Rope Mop	CSI/Model II-A3	288				Portland	OR	10/3/2016 13:30	Assigned	TF-47		
NRCES	28218		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13:30	Assigned	TF-43 DIVB		
NRCES	28219		Skimmer Portable	SK3	Disc Skimmer	Vikoma/Komara 12K	480				Portland	OR	10/3/2016 13:30	Assigned	TF-43 DIVB		
CRC	29044		Skiff	WB5	16' Skiff	16' Skiff w/25 hp				1	Linnton (KM)	OR	10/3/2016 13:30	Assigned	TF-28	CRC/NRC	
CRC	29045		Skiff	WB5	16' Skiff	16' Skiff w/ 25hp				1	Clatskanie	OR	10/3/2016 13:30	Assigned	TF-28	CRC/NRC	
CRC	30499		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13:30	Assigned	TF-27	CRC/NRC	
CRC	30500		Vessel	WB4	18' Skiff	18' Skiff w/ 25hp				1	Portland	OR	10/3/2016 13:30	Assigned	TF-26	CRC/NRC	
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14:00	Assigned	SCAT	HILLSBORO	Vancouver Staging
HILLSBORO					Bell 206 B3 JetRanger	Bell 206 B3 JetRanger				1	Hillsboro	OR	10/3/2016 14:00	Available	TF-07	HILLSBORO	Vancouver Staging
MSRCNW	7571	7571	Vessel	WB4	17-3	Work Boat, 17-3 <29'				3	Everett	WA	10/3/2016 14:30	Assigned	TF-04	ASSIGNED TO SWE	SAINT HELENS STAGING
MSRCNW	30329		Skimmer Portable	SK2	Crucial Skimmer C-Disc 56/30	Skimmer, Disc	5671				Everett	WA	10/3/2016 14:30	Assigned	TF-40		SAINT HELENS STAGING
MSRCNW	31075	31075	Boom	B2	Current Buster #4, System B	Current Buster #4		196	200		Everett	WA	10/3/2016 14:30	Assigned	TF-04		SAINT HELENS STAGING
MSRCNW	3062		Skimmer Portable	SK2	Destroil 250, Skimmer	Skimmer, weir	2914				Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	3045	3044	Equipment	SR0	Destroil DS-150, Power Pack	HPU, diesel hydraulic					Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	3044	3044	Skimmer Portable	SK4	Destroil DS-150, Skimmer	Skimmer, weir	754				Everett	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		SAINT HELENS STAGING
MSRCNW	7545		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	7561		Skimmer Portable	SK3	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAA A	AAAAAAAAAAAAAA		
MSRCNW	7569		Skimmer Portable	SK2	DOP 250 Skimmer	Skimmer, weir system	3017				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	7489	7489	Skiff	WB5	Jon Boat #2	JB, 15ft / 15hp				2	Everett	WA	10/3/2016 14:30	Assigned	SCAT 1	MSRC	SAINT HELENS STAGING
MSRCNW	3010	3011	Equipment	SR0	Morris, Power Pack,Diesel Amer	HPU, diesel hydraulic					Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	3011	3011	Skimmer Portable	SK4	Morris, Skimmer, MI-11/24	Skimmer,Disk	206				Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	3043	3011	Storage	PS4	Morris, Tank, Portable	Buoywall Tank		14			Everett	WA	10/3/2016 14:30	Assigned	TF-43 DIVB		SAINT HELENS STAGING
MSRCNW	7490	7490	Vessel	WB4	Response 5	Work Boat, 28'				2	Everett	WA	10/3/2016 14:30	Assigned	SCAT 2	MSRC	SAINT HELENS STAGING
MSRCNW	3036	3034	Equipment	SR0	Rope Mop #1, Generator, Portab	Portable Generator Diesel					Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3034	3034	Skimmer Portable	SK4	Rope Mop #1, Skimmer, MI-14E	Skimmer, Rope Mop	48				Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3035	3034	Storage	PS4	Rope Mop #1, Tank, Portable	Plastic Fish Box		4			Everett	WA	10/3/2016 14:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	30987	7554	Equipment	PTP	Shallow Water Barge 19	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7552	7554	Boom	B2	Shallow Water Barge 19	24"			60		Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7553	7554	Skimmer Portable	SK3	Shallow Water Barge 19	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7554	7554	Storage	TB4	Shallow Water Barge 19	Shallow Water Barge, non		400			Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7567	7554	Vessel	WB4	Shallow Water Barge 19	Work Boat, WB-28 <29'				4	Astoria	OR	10/3/2016 14:30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7563	7566	Vessel	WB4	Shallow Water Barge 25	Work Boat, WB-30 <29'				4	Astoria	OR	10/3/2016 14:30	Assigned	TF-03	MSRC/TONGUE PT	Vancouver Staging
MSRCNW	7564	7566	Boom	B2	Shallow Water Barge 25	18"			60		Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7566	7566	Storage	TB4	Shallow Water Barge 25	Shallow Water Barge, non		400			Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7480	7566	Skimmer Portable	SK3	Shallow Water Barge 25	Skimmer,GT-185	1371				Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	29593	7566	Equipment	PTP	Shallow Water Barge 25	Pump, DOP 250, 440 gpm					Astoria	OR	10/3/2016 14:30	Assigned	TF-03		Vancouver Staging
MSRCNW	7586	7586	Skimmer Portable	SK1	STRESS Skimmer	Pump, CCN 150	15840				Everett	WA	10/3/2016 14:30	Assigned	TF-40 DIV A		SAINT HELENS STAGING
MSRCNW	30048	3075	Boom	B3	Trailer MSRC20, Boom, Acme	6"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	24758	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			1650		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7483	3073	Boom	B2	Trailer MSRC29, Intertidal Boom	26"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7495	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7496	29772	Boom	B2	Trailer MSRC87, Medium Fence	24"			2000		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7573	7573	Equipment	VH0	Trailer Support	Equipment Cache					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30315	7573	Boom	B3	Trailer Support, Boom Acme	6"			600		Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	7486	7573	Skiff	WB5	Trailer Support, Jon Boat #1	JB, 14ft / 15hp					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30990	7573	Equipment	PTP	Trailer Support, Pump, Peristaltic	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	30991	7573	Equipment	PTP	Trailer Support, Pump, Peristaltic	Pump, 110 gpm-29' Lift					Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
MSRCNW	31489	7573	Storage	PS4	Trailer Support, Tank, Fastank	Open top storage tank		57		1	Everett	WA	10/3/2016 14:30				SAINT HELENS STAGING
CCSPNE	1499		Storage	VT2	A8 Air Mover/Vacuum Truck (WA	1994 Ford Master Vacuum		80		1	Aberdeen	WA	10/3/2016 14:30	Assigned	TF-43 DIVB	CCSPNE	LONGVIEW STAGING
CCSPNE	1500		Storage	VT2	A7 Air Mover/Vacuum Truck (WA	1988 Ford Vactor Vacuum		80		1	Port Townsend	WA	10/3/2016 14:30	Assigned	TF-43 DIVB	CCSPNE	LONGVIEW STAGING
CCSPNE	24701		Storage	VT2	#61 Air Mover/Vacuum Truck (O	1999 Int'l Truck with Guzzler		80		1	Portland	OR	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24702		Storage	VT2	#64 Air Mover/Vacuum Truck (W	2005 Sterling Vacuum Truck		80		1	Longview	WA	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24703		Storage	VT2	#67 Liquid Vacuum Truck (OR Y	1994 International 80 bbl Liqu		80		1	Portland	OR	10/3/2016 14:30	Assigned	TF-44 DIV G	CCSPNE	LONGVIEW STAGING
CCSPNE	24705		Storage	VT2	#68 Liquid Vacuum Truck (WA 0	1997 Freightliner 80 bbl Liqui		80		1	Longview	WA	10/3/2016 14:30	Assigned	TF-42 DIV J	CCSPNE	LONGVIEW STAGING
TBL				TUG2	GLENDALE					5	Wauna	WA	10/3/2016 14:30	Assigned	TF-10	TBL	Vancouver Staging
TBL	30972		Storage	TB2	Barge #2	242' x 42' x 16.6'		18000			Wauna	WA	10/3/2016 14:30	Assigned	TF-10	TBL TANK PIC	Vancouver Staging
NRCES	28212	28420	Skimmer Portable	SK4	Disc Skimmer/ Power Pack	Vikoma Kebab K-4	36				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28214		Skimmer Portable	SK2	Trailer Pier 90, Brush Skimmer	Lamor/OPC2	3019				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28222		Skimmer Portable	SK4	Wier Skimmer (7310)	Manta 3, portable	1032				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28228		Skimmer Portable	SK4	Rope Mop (5052)	OMI/MK II-4VE	96				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28248		Skimmer Portable	SK4	Wier Skimmer (3280)	2" Skimpak (4300)	178				Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28251		Skimmer Portable	SK3	Wier Skimmer (4168)	Foilex 150	1131				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-44 DIV G		
NRCES	28258		Skimmer Portable	SK2	Wier Skimmer (6370)	Vikoma Cascade	5465				Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28493		Skiff	WB5	Lund Skiff 6504	Workboat 12' - (LS) Green				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-42 DIV J		
NRCES	28495		Skiff	WB5	Lund Skiff 6216	Workboat 12'				2	Portland	OR	10/3/2016 14:30	Assigned	TF-43 DIVB		
NRCES	28498		Skiff	WB5	Lund Skiff 6537	Workboat 14'				2	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28499		Skiff	WB5	Lund Skiff 6017	Workboat 12'				2	Portland	OR	10/3/2016 14:30				
NRCES	28500		Skiff	WB5	Lund Skiff 6319	Workboat 14'				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28501		Skiff	WB5	Greenwater Skiff 6025	Workboat 12'				2	Portland	OR	10/3/2016 14:30				
NRCES	28532		Vessel	WB4	Green Lund #2	Workboat 20', 60hp				2	Pasco	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28533		Vessel	WB4	Green Lund #4	Workboat 20' / 75 HP				2	Spokane	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28534		Vessel	WB4	Green Lund # 5	Workboat 20', 75 HP Mercury				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-29		
NRCES	28485		Skiff	WB5	Lund Skiff 6200	Workboat 12'				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-33		LONGVIEW STAGING
NRCES	28486		Skiff	WB5	Lund Skiff 6611	Workboat 12'				2	Seattle, Pier 90	WA	10/3/2016 14:30	Assigned	TF-34		
NRCES	28487		Skiff	WB5	Lund Skiff 6430	Workboat 12' 15hp outboard				2	Seattle, Pier 90	WA	10/3/2016 14:30	Assigned	TF-31		CLATSKANIE
NRCES	28488		Skiff	WB5	Lund Skiff 6503	Workboat 14' - (SS) Green				2	Anacortes	WA	10/3/2016 14:30	Assigned	TF-32		CLATSKANIE
NRCES	28489		Skiff	WB5	Lund Skiff 6214	Workboat 14' - (SS) 15hp				2	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-33		LONGVIEW STAGING
NRCES	28255	28571	Skimmer Portable	SK4	Weir Skimmer (Sea Wolf)	2" Skim-pak	178				Port Townsend	WA	10/3/2016 14:30	Assigned	TF-47		
NRCES	28324		Storage	VT1	Trailer 3135, Vacuum	PersVac, 120 bbls	686	120			Portland	OR	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28325		Storage	VT1	Vacuum Trailer (3181)	PersVac, 120 bbls	686	120			Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28337		Storage	VT2	Vacuum Truck (2054)	Thompson, 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28338		Storage	VT2	Vacuum Truck (2055)	Thompson, 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30				
NRCES	28339		Storage	VT2	Vacuum Truck (2058)	Thompson T800 70bbl	686	70		1	Seattle, South Pa	WA	10/3/2016 14:30	Assigned	TF-47		
NRCES	28350		Storage	VT1	Trailer 3369, Vacuum	Dragon Products, 130 bbl		130			Portland	OR	10/3/2016 14:30	Assigned	TF-47		
CRC	29,114			SK4	RO CLEAN ROPE MOP	30 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28,229			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		

Ordered

							189,607	95,764	140,630	716							
Organizatio (6)	Unique uto-assign	Group (5)	Resource (12)	Kind - (6)	Identification (24)	Specifications (12)	Recover (8)	Liquid (10)	Boom (7)	Peopl (5)	Home Base (12)	Stat (2)	ETA Date/Time (10)	Status (14)	Status (18)	CREWED BY	STAGING
AAAAAA	AAAAA	AAAAA	AAAAAAAAAAA	AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAA	AAAAAAAAAAA	AA	AAAAAAAAA	AAAAAAA A	AAAAAAAAAAAAAA		
NRCES	28,231			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
NRCES	28,234			SK4	ROPE MOP	96 SDRC							10/3/2016 14:30	Assigned	TF-46 DIV G		
MSRCNW	3055	3054	Equipment	SR0	Aquaguard #1, Power Pack Hydr	HPU, 4.8 hp.					Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	3056	3054	Equipment	PTP	Aquaguard #1, Pump, Diesel	Pump, 50 gpm diaphram					Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	3054	3054	Skimmer Portable	SK4	Aquaguard #1, Skimmer, RBS-5	Skimmer,brush/disk/drum	360				Anacortes	WA	10/3/2016 15:30	Assigned	TF-43 DIVB		LONGVIEW STAGING
MSRCNW	24669	24669	OSRV	OSRV3	AUKLET, 28' harbor skimmer	Skimmer, Marco	3588	12		2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-04	MSRC	SAINT HELENS STAGING
MSRCNW	3155		Boom	B2	Boom, Acme	18"			1700		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2992	2992	Skiff	WB5	EGRET	Seine Skiff, 18ft.				2	Anacortes	WA	10/3/2016 15:30	Assigned	SCAT 3	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	24757	24757	Skiff	WB5	Jon Boat #3	JB, 15ft / 20hp				2	Bellingham	WA	10/3/2016 15:30	Assigned	TF-20	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	2994	2994	Skiff	WB5	Jon Boat #5	Jon Boat #5				2	Anacortes	WA	10/3/2016 15:30	Assigned	TF-20	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	3107	3107	Skiff	WB5	Jon Boat #6	John Boat #6				2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-22	MSRC/TONGUE PT	LONGVIEW STAGING
MSRCNW	3039	3037	Equipment	SR0	Rope Mop #2, Generator, Portab	Portable Generator Diesel					Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3037	3037	Skimmer Portable	SK4	Rope Mop #2, Skimmer, MI-14E	Skimmer, Rope Mop	48				Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	3038	3037	Storage	PS4	Rope Mop #2, Tank, Portable	Plastic Fish Box		4			Port Angeles	WA	10/3/2016 15:30	Assigned	TF-47		SAINT HELENS STAGING
MSRCNW	7484	30115	Boom	B2	Trailer MSRC05, Intertidal Boom	26"			2000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	7498	30115	Boom	B2	Trailer MSRC05, Medium Fence	24"			2000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	3092	3091	Boom	B2	Trailer MSRC42, Boom, Kepner	20"			1000		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2986	2985	Equipment	VH0	Trailer MSRC43	Trailer, PS#1					Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2985	2985	Storage	TB4	Trailer MSRC43, PS #1 & #2 Mir	Barge Mini		220			Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2988	2985	Equipment	VH0	Trailer MSRC44	Trailer, PS#2					Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2972	2971	Boom	B2	Trailer MSRC65, Boom, Acme	30"			4160		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2974	2973	Boom	B2	Trailer MSRC66, Boom, Acme	18"			2900		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	3088	3087	Boom	B2	Trailer MSRC73, Boom, Acme	30"			3200		Port Angeles	WA	10/3/2016 15:30				SAINT HELENS STAGING
MSRCNW	2976	2975	Boom	B2	Trailer MSRC75, Boom, Acme	20"			4500		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	2978	2977	Boom	B2	Trailer MSRC76, Boom, Acme	30"			4000		Anacortes	WA	10/3/2016 15:30				LONGVIEW STAGING
MSRCNW	3110	3110	Skiff	WB5	WILLET	Seine Skiff, 18ft.				2	Port Angeles	WA	10/3/2016 15:30	Assigned	TF-22	MSRC	LONGVIEW STAGING
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-41 DIV B		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER			Storage	PS4	FRAC TANK, 20,000 Gallon	FRAC TANK, 20,000 Gallon			476		Portland	OR	10/3/2016 15:30	Assigned	TF-44 DIV G		Vancouver Staging
BAKER				VH0	Tractor, FRAC Hauler	Tractor, FRAC Hauler					Portland	OR	10/3/2016 15:30	Assigned			Vancouver Staging
BAKER			Equipment	VHO	Truck Roll Off	Rocket Launcher Trailer				1	Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
BAKER			Storage		20 YARD ROLLOFF BOX	20 YARD ROLLOFF BOX					Portland	OR	10/3/2016 15:30				SAINT HELENS STAGING
CRC	29177	29177	Equipment	VH0	Boom Trailer	48' Trailer			5000		Longview	WA	10/3/2016 15:30				
CRC	29131	29177	Boom	B2	20" Boom	American Marine			5000		Longview	WA	10/3/2016 15:30				
CRC	29185	29185	Equipment	VH0	Boom Trailer	48' Trailer					Clatskanie	OR	10/3/2016 15:30				
CRC	29140	29185	Boom	B2	20" Boom	American Marine (includes W			5000		Clatskanie	OR	10/3/2016 15:30				
CRC	29179	29179	Equipment	VH0	Boom Trailer	48' Trailer					Longview	WA	10/3/2016 15:30				
CRC	29129		Boom	B2	20" Boom	American Marine			4200		Longview	WA	10/3/2016 15:30				
NRCES	28215		Skimmer Portable	SK3	Brush/DrumSkimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28216		Skimmer Portable	SK3	Brush/Drum Skimmer	Aqua-Guard/RBS-10	662				Portland	OR	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28260	28574	Skimmer Portable	SK3	Brush/Drum Skimmer (Respons	Aqua-Guard/RBS-10	662				Seattle, Fisherm	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28225		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Anacortes	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
NRCES	28223		Skimmer Portable	SK3	Disc Skimmer/ Power Pack	Morris/MI-30	686				Port Angeles	WA	10/3/2016 16:00	Assigned	TF-44 DIV G		
CRC	29174	29174	Equipment	VH0	Boom Trailer	48' Trailer					Astoria	OR	10/3/2016 16:00				
CRC	29125	29174	Boom	B2	20" Boom	American Marine			5000		Astoria	OR	10/3/2016 16:00				
CRC	29138	29176	Boom	B2	20" Boom	American Marine (includes W			2500		Skamokawa	WA	10/3/2016 16:00				
CRC	29176	29176	Equipment	VH0	Boom Trailer	28' Trailer (miscellaneous bo					Skamokawa	WA	10/3/2016 16:00				
CRC	29184	29184	Equipment	VH0	Boom Trailer	53' Trailer					Astoria	OR	10/3/2016 16:00				
CRC	29135	29184	Boom	B2	20 ' Boom	American Marine			5000		Astoria	OR	10/3/2016 16:00				
GDS					40 HOUR HAZWOPER TECHS	PERSONNEL				41	SEATTLE	WA	10/3/2016 16:30				Vancouver Staging
MSRCNW	7544	7546	Boom	B2	Shallow Water Barge 123	24"			60		Tacoma	WA	10/3/2016 16:30	Assigned	TF-04	MSRC/GDS	Vancouver Staging
MSRCNW	7546	7546	Storage	TB4	Shallow Water Barge 123	Shallow Water Barge, non		400			Tacoma	WA	10/3/2016 16:30	Assigned	TF-04	SEE 17-3	Vancouver Staging
MSRCNW	24672	7546	Skimmer Portable	SK3	Shallow Water Barge 123	Skimmer, QME Tri	905				Tacoma	WA	10/3/2016 16:30	Assigned	TF-04		Vancouver Staging
MSRCNW	3079	3078	Boom	B2	Trailer MSRC17, Boom, Acme	30"			4000		Ferndale	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	3022	3021	Boom	B2	Trailer MSRC27, Boom, Acme	30"			4000		Blaine	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	7497	24951	Boom	B2	Trailer MSRC52, Medium Fence	24"			2000		Ferndale	WA	10/3/2016 16:30				LONGVIEW STAGING
MSRCNW	3024	3023	Boom	B2	Trailer MSRC77, Boom, Acme	18"			3200		Blaine	WA	10/3/2016 16:30				LONGVIEW STAGING
NRCES	28227		Skimmer Portable	SK4	Rope Mop (6147)	OMI/MK I-4E	96				Pasco	WA	10/3/2016 16:30				
MSRCNW	30801	30801	Boom	B2	Current Buster #4, System A	Current Buster #4		196	200		Neah Bay	WA	10/3/2016 17:30	Available	TF-07		SAINT HELENS STAGING
MSRCNW	30800	30801	Equipment	VH0	Current Buster #4, System A Tra	Trailer #S12					Neah Bay	WA	10/3/2016 17:30				SAINT HELENS STAGING
MSRCNW	7556	7558	Boom	B2	Shallow Water Barge 21	24"			60		Port Angeles	WA	10/3/2016 17:30	Assigned	TF-06		SAINT HELENS STAGING

VANCOUVER ENERGY
PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Dilbit EXERCISE DATE PREPARED: January 6, 2016

OPERATIONAL PERIOD: 0830 10 6 16 to 10 7 16 (24 hour period)

Incident Waste Management & Disposal Plan

APPROVED BY:

RPIC	**DATE**
FOSC	**DATE**
SOSC	**DATE**
LOSC	**DATE**
TRIBAL REPRESENTATIVE (If Applicable)	**DATE**

COMMENTS:

INCIDENT WASTE MANAGEMENT & DISPOSAL PLAN

Disposal Plan for Oil Spills in Washington State

Vancouver Energy Dilbit Exercise
(Incident Name)

Responsible Party:	**Vancouver Energy**
Spilled Material:	**Diluted-Bitumen Crude Oil**
Spill Volume (estimate):	385,000 Barrels (worst case)
Spill Location:	Tank 002
Spill Date/Time:	10-06-2016
Report Update Time:	10-6-16 @ 1000

Disposal Plan Authorization

This Incident Waste Management & Disposal Plan has been written at the request of the USCG and the Washington State Department of Ecology. The responsible party (Vancouver Energy) will recover the maximum feasible amount of oil spilled during the above named incident. In addition, an unknown quantity of oily waste debris (including plastics, sands, river debris, etc.) will be recovered. When disposing of this material, the responsible party will abide by all applicable state, local and federal laws and regulations. Disposed material will be tracked to provide an accurate means of estimating total oil recovered. *Each section of this incident-specific disposal plan addresses and corresponds with the waste disposal "Guideline" found in 9620 of NWACP*.

This plan may be amended as necessary to ensure compliance with all applicable laws and regulations. Amendment may occur only upon mutual agreement of the responsible party, the Federal OSC (USCG/EPA), and/or the State OSC (WDOE).

Submitted By: Jeff Baker Planning, Dept. EUL Date: 10-3-2016

Approved by SOSC: _____ Date: _____

Reviewed by USCG/EPA: _____ Date: _____

Approved by Responsible Party: _____ Date: _____

Approved by Local Government Representative(s) (Optional):

_____ Date: _____

_____ Date: _____

SECTION I WASTE HANDLERS

The following licensed transporters and approved treatment and disposal facilities are to be used for waste handling and disposition. All waste handlers have read and are working in accordance with this plan.

Name of Company	Disposal Functions	Company Representative
Safety-Kleen (Clean Harbors) 16540 SE 130th Ave, Clackamas, OR 97015 Phone: (503) 655-5798	Transportation	503-655-5798 800-669-5740
Waste Management Columbia Ridge Recycling and Landfill 18177 Cedar Springs Lane Arlington, OR 97812	Disposal/Recycling	541- 454-2030
Chemical Waste Management Hazardous Waste Facility 17629 Cedar Springs Lane Arlington, OR 97812	Disposal/Recycling	800-963-4776
Oil Re-Refining Company, Inc. 4150 N Suttle Road, Portland, OR	Oil Recycling	503-286-5027
Thermo Fluids 12533 SE Carpenter Drive Clackamas OR 97015	Recovery/Recycling	800.350.7565

SECTION II DESIGNATION

The Waste Management Specialist will make proper waste classification and arrangements for transportation or further treatment at the staging areas:

1. SA-1 Port of Vancouver, WA (First Operational Period), See Figure WSA-1
2. SA-2 City of St. Helens, OR (Second Operational Period) Near River Mile 47, See Figure WSA-2
3. *SA-3* Port of Longview, WA (Third Operational Period) See Figure WSA-3

The spilled material was deemed **non-hazardous waste** based on the following testing, waste profiles, or operator knowledge:

Diluent-Bitumen crude oil contains gasoline range hydrocarbons and a sizable portion of long-chain, or "heavier ends" petroleum hydrocarbons in the diesel – asphalt ranges, which will evaporate off slowly in the initial phases of spill recognition and response. The remaining portion of Dilbit Crude will display TPH diesel and longer-chain hydrocarbons, which are not considered hazardous.

Operator Knowledge is basis of determination.

SECTION III INTERIM WASTE STORAGE, SEGREGATION and TRACKING

A. INTERIM STORAGE OF SOLID MATERIAL

Interim waste storage of solid waste and debris collected during the recovery and cleanup operations will be staged in **Interim Waste Storage Area No. 1, (SA-1)** located on Port of Vancouver property. Proper waste classification, segregation, and packaging in addition to making arrangements for recycling, treatment, or disposal will be managed at each Storage Area.

See Figures WSA-1 through WSA-3 for Waste Storage Area locations. Refer to Figure 1 "Schematic Drawing of Waste Staging Area" for area setup. Each Waste Staging Area will be approximately 100' by 100' with perimeter containment berms approximately 1-foot high.

Perimeter containment can be constructed of easily available material: railroad ties, lumber (2" x 4" or 2" x 10"), 8" x 16" cinder blocks or hay bales. Visqueen or any suitable pit liner material joined by duct tape and draped over railroad ties or similar will provide sufficient containment.

The area beneath each Waste Storage Area will be inspected, and if needed, investigated to ensure no impacts are left behind.

B. SEGREGATION

Various types of wastes will be generated during the response to this spill. Each waste type will require different disposal methods. To facilitate the disposal of wastes, all waste materials should be segregated by type for temporary storage and/or transport.

As oil is recovered, it should be placed in sealable containers: 5 gallons cans with lids or caps, 55-gallon drums, portable tanks, tank trucks, or any other container that can be sealed to prevent spillage.

Oiled solid wastes should be placed in leak-proof containers to prevent leakage during handling and transportation. Double walled clear (for ease of identifying contents) plastic bags should be used for this purpose. For larger materials or those which could penetrate the bags, debris boxes or similar containers could be used as long as they are lined with plastic or by some other means to prevent leakage. Lined waste bins and lined dump truck beds may also be used for collection of oiled solid wastes. To the extent possible, efforts should be made to commingle similar types of recovered organic, response material and PPE/non-sorbent debris. For example segregate/commingle:

- Oiled organic debris: wood, aquatic vegetation, etc.
- Oil sorbent material: oil snares, pads and booms
- PPE and other typically non-sorbent materials

D. TRACKING

The on-site Waste Management Specialist will properly classify, inventory and document waste recovery, as well as make arrangements for transportation or further treatment at the each waste staging area on a daily basis. Tracking and inventory will document the amount of oiled material recovered each day throughout the response. Recovered Oil Quantification will be managed and documented concurrently with tracking oiled debris.

E. DECANTING

Decanting authorization form (if approved) should be attached.

☐ APPROVED ☐ DENIED ■ NOT REQUESTED

SECTION IV DECONTAMINATION

(See Attached TESORO DECONTAMINATION PLAN and Figure for further information.)

SECTION V ANIMAL CARCASSES

Oil Affected Wildlife Management Plan is in preparation.

SECTION VI WASTE DISPOSITION and FINAL DISPOSITION

(See ICS Form 209 for Final Waste Status Summary)

TYPE	Recovered	Stored	Disposed of
Oil (bbl)			
Oily Liquids (bbl)			
Oily Solids (tons)			
Solids (tons)			

(See TESORO RECOVERED OIL AND OIL WATER MANAGEMENT PLAN for further information.)

A. RECOVERABLE OIL

1.1. FEDERAL NATURAL RESOURCES DAMAGE ASSESSMENT OIL RECOVERY CREDIT PROCEDURES; WASHINGTON STATE OIL RECOVERY COMPENSATION SCHEDULE

The amount of spilled oil recovered during cleanup operations must be estimated. The amount of free oil, oily water, free oil recovered from absorbents and decontamination water, and oil trapped in contaminated soil and debris will be estimated separately. Materials identified as contributing to the total recovered hydrocarbons include, but are not limited to, oil collected in skimming tanks, oil from decontamination procedures, recovered oil tar balls, oily absorbents, oily debris, and oiled personal protective equipment (PPE) such as gloves and coveralls. Table 1 in the attached "RECOVERED OIL and WATER MANAGEMENT PLAN" should be used to document the total amount of oil recovered in a given spill response. The Federal NRDA guidelines for recovery credit will be used as the primary reference for a release of this size. (See also Washington Department of Ecology document "Compensation Schedule Credit for Oil Recovery, RDA Committee Resolution 96-1." Tesoro's Recovered Oil Quantification Plan is included as Attachment 2 to the "RECOVERED OIL and WATER MANAGEMENT PLAN".) Two representatives from the Department of Ecology may be present at each waste storage area (Port of Vancouver, St. Helens and Port of Longview) at 1200 to take the first 24-hour measurement.

Oil recovered will be transported by Safety-Kleen or equal to Oil Re-Refining Company, Thermo Fluids or equal.

Company Name	Contact Information
Oil Re-Refining Co.	See above for contact numbers
Thermo Fluids, Inc.	See above for contact numbers

B. BURNABLE MATERIAL

Burnable material includes oily wood, debris, PPE, sorbents, oil snares and other suitable organic material collected during cleanup operations. The debris will be transported from the interim storage site by US Ecology to their incineration site in Idaho.

C. OTHER MATERIAL:

This material may consist of sand and tar balls and other assorted material that has been collected from the cleanup effort and has been stored at interim storage sites. All of this material will be transported to a licensed Waste Management facility for landfill.

Tesoro --- This is a Drill

PERMIT & PLAN
SIGN-OFF SHEET

INCIDENT NAME: Vancouver Energy Dil-Bit Spill **DATE PREPARED: January 6, 2016**

OPERATIONAL PERIOD: 1/3/16 @ 0830 - 1/4/16 @ 0830 (24 hour period)

Decontamination Plan

APPROVED BY:

RPIC	**DATE**
FOSC	**DATE**
SOSC	**DATE**
LOSC	**DATE**
TRIBAL REP (If Applicable)	**DATE**

COMMENTS:

DECONTAMINATION PLAN

Vancouver Energy Dil-Bit Spill

January 6, 2016

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1.0 DECONTAMINATION PLAN

Personnel decontamination areas and equipment decontamination areas will be established on-site during the spill response. The decontamination areas will be established coincident with 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 in the Waste Management Plan as Decontamination Areas are co-located with Waste Staging Areas (**Figure DA-1**). Three Waste Staging Areas with Coincident Decontamination Areas are planned for the initial operational periods of the Vancouver Energy Spill response.

Decontamination (decon) areas will be lined with visqueen and industrial matting that can be disposed of after closure of each decontamination area. Replacement of this material will be based on field observation. After leaving the equipment decon area, personnel involved in equipment decontamination will exit through a personnel decon area. **Figure DA-2** provides a schematic 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 500-barrel Baker tank for storing liquids from the cleaning/decon pool. The cleaning pool will be within secondary containment to capture spilled material. Material will be transferred from the cleaning pool to the Baker tank via transfer buckets or small trash pump 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.

Each decon station shall be equipped with the following equipment, which **must be procured by LOGISTICS:**

- **1000 feet of caution tape**
- **Six free-standing guide posts/traffic cones**
- **Two plastic 55-gallon drums – open top with lid**
- **Two plastic 55-gallon drums – open top with bung opening lid**
- **Eight packs of sorbent wipes (minimum 50 pads each)**
- **Two (minimum) 3 gallon pump/spray bottle (e.g. insecticide pump sprayer)**
- **Four galvanized 50-gallon wash tubs**
- **Four plastic buckets and four scrub brushes (Dil-Bit is"sticky")**
- **Two child wading pools**
- **Labels for drummed waste**

The drums will be labeled as follows:

1. Oiled PPE

2. Other Oiled Debris (i.e. sorbent pads, boom, etc.)

3. Un-oiled Debris

A tally of materials and supplies needed to construct personnel and equipment decontamination areas is presented in **Table DA-1**. Each of these areas will be lined with and surrounded by 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, if nexessary, in appropriate drums

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.

2. Station #2 – Step into galvanized washtubs and remove all visible contamination from clothing and boots via wash brush. Absorbent pads and water sprayers 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 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 personal 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, in the immediate vicinity of the temporary waste storage 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 enclosure for cleaning equipment and, a Baker tank for storage of liquids. The cleaning pool or diked 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 *Incident Disposal 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.

TABLE DA-1

DECONTAMINATION AREA CONSTRUCTION MATERIALS AND EQUIPMENT

Decontamination Area	Construction Barricades (#)	Drums (#)	Kiddie Pools	Pads (#)	Wash Tubs (#)	Caution Tape (feet)	Visqueen (feet)	Other
(1) Personnel Decontamination Area **Area No. 1, 2 & 3**	50	15	5	200 Bundles	12	500	10,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(2) Personnel Decontamination Area **Area No. 4 & 5 (IF NEEDED)**	50	15	5	200 Bundles	12	500	10,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(3) Equipment Decontamination Area **Area 1, 2 & 3**	50	20	5	400 Bundles	5	500	20,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties
(4) Equipment Decon. Area **Area 4 & 5 (IF NEEDED)**	50	20	5	400	5	500	20,000 sq. ft.	24 long handle scrub brushes, towels, garden hoses, 2 pump sprayers, detergent, soap, 100 railroad ties

Figure DA-1
Site-Specific Decontamination Area Locations

See Waste Management Plan for locations of Waste Staging Areas. Decontamination Areas are co-located with Waste Staging Areas No. 1 @ Port of Vancouver, No. 2 @ Saint Helens and No.3 @ the Port of Longview.

Figure DA-2
Decontamination Area Schematic

THIS IS A DRILL

OIL-AFFECTED WILDLIFE MANAGEMENT PLAN

VANCOUVER ENERGY

Incident Name:	**Vancouver Energy Spill**
Responsible Party:	**Vancouver Energy**
Spilled Material:	**Diluent- Bitumen Crude Oil**
Spill Volume (estimate):	**385,000 Barrels (Worst Case)**
Spill Location:	**TANK 002 @ Port of Vancouver, WA**
Spill Date/Time:	**October 3, 2016 @ 0830**
Report Update Time:	**10/3/16 @ 10:30**
Submitted By:	**JM Baker Deputy EUL, Planning Section**
Approved By:	_____

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1.0 MANAGEMENT OF OIL-AFFECTED ANIMALS AND ANIMAL CARCASSES

Management of animal carcasses and the collection and care of wildlife affected by the VE Tank 001oil spill are addressed below.

1.1 Collection of Oiled Wildlife

The wildlife impacted from the Bakken crude oil may either be dead or alive at the time of collection, sample collection, triage and/or storage. Dead wildlife will be either collected by the private sector and brought to an incident Command Center or collected by retrieval groups authorized by the incident command center. **Living wildlife that is oiled should only be captured by appropriately trained personnel, if possible.** Oiled birds are to be brought to the incident Command Center for stabilization, triage, cleaning, treatment and rehabilitation. EPA, SCAT, Tri-State Animal Rescue have been called to acquire additional assistance and expertise. Oiled wildlife will be collected, if possible, and moved to nearest veterinary office or other approved animal care facility.

1.1.1 Animal Carcasses

All dead wildlife should be ultimately routed to the Vancouver Energy Terminal for storage and inventory tracking. The Wildlife Rehabilitation Plan of Action provided in **Attachment 1** should be used. Disposal of animal carcasses will not occur until any necessary natural resource damage assessment (NRDA) activities are completed. The following procedures will apply in the collection of *dead* oiled wildlife:

A. A photograph or sketch of the location where each carcass will be collected and after which the oiled wildlife will be retrieved from the environment and transferred to the incident Command Center.

B. Each wildlife carcass will be wrapped in aluminum foil (dull side facing the oil), placed in a plastic bag, tagged with identifier tracking information and moved to a storage unit to keep chilled (not frozen). This task can take place prior to transferring to the incident Command Center. Identifier tracking information includes a label indicating the date and time the animal was found, the animal's location, and name and phone number of the person finding the animal should be provided with the carcass.

C. The wildlife will be transferred to the incident Command Center or other location designated by the IC for chilled storage following proper chain of custody protocol.

D. Upon receipt at the Command Center, all affected wildlife will be inspected by responsible party (RP), U.S. Fish and Wildlife, and the state's (WA and/or OR) Department of Fish and Game/Wildlife personnel.

E. Two identical samples of the oil will be collected following appropriate sampling procedures. For birds, feathers will be plucked, taking care to change gloves for each bird to avoid cross contamination.

F. Once the feather sample is collected, the wildlife carcass will be placed in a cooler specifically requisitioned for this purpose located at the Vancouver Energy Terminal or incident Command Center.

G. The cooler will be locked at all times. Access to the cooler will be regulated with a sign-in sheet, and the freezer key will be kept in a secured area of the Command Center or Terminal. Security will be managed by the appropriate spill response staff. A compilation of the number of animal carcasses disposed of and the methods used for their disposal will be developed following the approvals of the IC and NRDA stakeholders.

6.1.2 Living Oiled Wildlife

Living wildlife that is oiled should only be captured ONLY by appropriately trained personnel. Oiled birds are to be brought to the incident Command Center or other formally designated facility for stabilization, triage, cleaning, treatment and rehabilitation by the following licensed wildlife rehabilitation contractor:

Contractor(s) identified for this incident:

Tri-State Bird Rescue 302-737-7241

International Bird Rescue 707.207.0380

Other living wildlife that is oiled, such as otters, beavers, etc. will be managed by the following licensed wildlife rehabilitation contractor:

Tri-State Bird Rescue **302-737-7241**

Oiled Wildlife Care Network **530- 752-4167**

Wildlife will be transferred to the on-site, or if necessary, a designated off-site rehabilitation center authorized by the Incident Command. Primary locations will be designated local veterinary clinics until supplies unit arrives. Wildlife will be administered care as directed by the authorized person at the rehabilitation center. The authorized caregiver will retrieve two oil samples from the affected wildlife. The samples will then be stored in a chilled cooler until direction is given from the incident Command Center as to either send the samples to a laboratory for analysis or send them directly to Vancouver Energy Terminal designated oil-affected wildlife storage for further storage or processing. Document location, type and apparent impacts for all oiled mammals that are observed and not retrievable, including: photographs, River Mile, date & time, and reported to the state's Department of Fish and Game/Wildlife or equivalent.

The following are recommended analyses for oiled wildlife samples:

- Polycyclic Aromatic Hydrocarbons (PAHs)
- N-Alkanes and Isoprenoids
- Steranes and Triterpanes
- Total petroleum hydrocarbons (TPH) (Water Only)

The samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected. A large freezer or cooler will be requisitioned for the Vancouver Energy Terminal.

ATTACHMENT 1

WILDLIFE REHABILITATION PLAN OF ACTION

Spill Event: Vancouver Energy Tank 001

Location: Vancouver Energy Terminal, Port of Vancouver, WA

Date: October 3, 2016

Name of Person filling out form: _____

1. Contractor Call Outs:

   A.

   B.

2. Equipment on Site (MSRC)

   A.

   B.

3. Equipment on Site (CRC)

   A.

   B.

4. Number of Personnel

	On-Site	En Route
A.		
B.		
C.		
D.		

5. Location of Wildlife Rehabilitation Unit

6. Agency Coordination

WILDLIFE REHABILITATION TRAILER

Various spill response organizations or other response resources own or have rapid access to wildlife rehabilitation equipment such as a wildlife rehabilitation trailer that is dedicated to clean oiled wildlife. The trailer typically has two areas containing equipment for cleaning activities. One area has water softeners and heaters, wash and rinse tables, and a freezer to store wildlife that could not be revived. The other area of the trailer typically serves as a field laboratory and is equipped with a refrigerator/freezer, microwave oven, osterizers, water picks, and force feeders. The trailer should hold enough supplies to operate for approximately 24 hours.

The cleaning process is a tedious one that requires personnel licensed and trained specifically in the handling of animals in distress. After wildlife is cleaned and inspected by a wildlife veterinarian, animals are returned to their environment. The following table identifies equipment and supplies available for use within a typical trailer and should be considered the minimum quantity of supplies needed in a response.

Every effort should be made early in a response to establish communication with an approved wildlife rehabilitation contractor in the area. The wildlife rehab contractor should be put on standby at a minimum, and mobilized during the early stages of the response if conditions indicate this resource will be needed.

Washington Department of Fish and Wildlife, MSRC and CRC all maintain oiled wildlife response equipment that can be mobilized to the spill site for use during the response, as initial response measures, at a minimum.

REQUIRED EQUIPMENT AND SUPPLIES AVAILABLE IN A TYPICAL WILDLIFE REHABILITATION TRAILER

	Description
3	Submersible effluent Pumps
4	Rubber matting
4	Mops
9	Large catch nets
2	Oil resistance water hoses
80	Bottles of dawn detergent
1	Desk lamp
2	Water picks
2	Osterizers
12	Rolls of banding tape
8	#2000 SPA nozzles
15	Latex gloves
2	Selector Dickerson temp. reading
4	Plastic dishpan containers
8	Rubbermaid pans (11.5 quarts)
2	Desk chairs
24	Lbs. salt
12	Ft. 4/4 power cord
50	Ft. Dayco LP gas hose (water supply)
2	Coleman roughneck – A/C unit
1	Refrigerator/freezer (M#2539639001)
1	Freezer on movable stand (M#FC083LTW3)
1	Microwave (M#565-8944090)
4	Large sky kennels
4	Medium sky kennels
2	Aqua model 170 FP heaters (w/1" gas hose)
1	Electric in-line heater
12	Ratchet straps
1	Polyethylene tarp
15	Ft. 2" suction hoses
	Assorted bird tags – aluminum sizes 12-24
	Assorted plastic bird tags
	Assorted gauze
1	300-gallon propane tank
3	Extra large sky kennels
1	Roll #531 safety grid 4'x40'
12	#740L vinyl blue gloves
8	Black covers for tubs
1	2P280 booster pump assemble w/fittens
1	2P356 washtub pump assemble w/fittens
1	14/3 G.F.C.I. cord – 50'
1	12/3 G.F.C.I. duplex cord – 50'
2	Rinse table manifolds
2	1 ½" bottom suction screens

	Description
1	Twin model 9000 econominder
	Automatic water conditioner
6	Aluminum fold-up tables
12	#3 galvanized washtubs
2	Aluminum rinse tables w/sump
7	5/8"-50' garden hoses (hot water)
2	10'x10' waste water tanks (1400 gallons)
10	Rubbermaid storage containers (black)
1	Spare tire
1	48qt. Igloo ice chest containing: 2 flashlights 8 small fish nets 1 box field report cards 6 hand brushes 4 eye goggles 2 small funnels 2 garden nozzles 2 small bird force feeders 7 cans OFF spray
1	Tool box containing: 2 #24 pliers 2 #16 pliers 2 #14 pliers 2 #12 pliers 2 #10 pliers 2 pairs of Singer scissors 1 soft tape measure 1 pair pliers 9 heat lamp fixtures 9 heat lamp bulbs 5 small electrical cords (light brown) 5 medium-duty electrical cords (orange) 1 5 lb. Kiddle fire extinguisher 6 heavy-duty electrical cords (black) 3 face shields 2 5/8 x 25' garden hoses (hot water) 2 5/8 x 12' garden hoses (hot water) 1 GE telephone 2 12/3 G.F.C.I. cord – 50'
6	1 ½ x 15' PVC hoses (green)
12	PVC aprons (yellow)
4	Thermometers

RECOVERED OIL AND WATER MANAGEMENT PLAN

Vancouver Energy Company

Incident Name: Vancouver Energy Diluent- Bitumen Exercise

Responsible Party: Vancouver Energy

Spilled Material: Diluent- Bitumen Crude Oil

Spill Volume (estimate): 385,000 bbls

Spill Location: Vancouver Energy Tank 002

Spill Date/Time: October 3, 2016

Report Update Time: October 6, 2016

Submitted By: Jeff Baker, Deputy EUL, Planning Section

Approved By: _____

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1.0 RECOVERED OIL

Oil and oil mixed with either river water or emulsified mixtures will be collected from the spill area using oil recovery equipment (i.e. skimmers) deployed by the Oil Spill Response Organization (OSRO) or other response contractor. **Recovered oil and water mixtures must be immediately transported to designated waste staging areas, bulk storage fractionation tanks (frac tanks), on-water storage vessels, or facility storage tanks designated for use in the spill response operations. Oil recovered on the Columbia River must be loaded into a 25,000 bbl barge (CRC or MSRC) for transfer and accumulation/storage at the Vancouver Energy Terminal. In the event that on-Terminal storage volume becomes insufficient, or unavailable, additional on-water storage will be procured to continue recovery operations until Terminal tankage is available for unloading. Recovered oil and water will be unloaded and transferred into designated facility storage, where volumes will be tracked and documented for Recovered Oil Quantification oer WADOE regulations using Recovered Oil Data Form ECY-050-49a (Rev. 01/2013) included herein as Attachment 1.**

Proper tank, drum and container gauging is a critical component of all response actions. No recovered oil, oil/water mixtures can be discharged or disposed of prior to gauging and volume inventory reconciliation completion. Third party certified gauging contractors must be mobilized so that accurate documentation of recovered oil and oil/water volumes can be achieved.

Primary Gauging Contractor for VE Tank 002 Spill:
Inspectorate
2501 SE Columbia Way # 300, Vancouver, WA 98661
(360) 574-7060

After transfer to the Vancouver Energy storage tanks, the recovered oil/water mixture should be allowed sufficient time to settle and phase separate. Potential management methods for the recovered hydrocarbon fraction include: re-injection or recycling into a crude or bunker fuel process stream, oil reclamation, and recycling at other oil industry facilities. The volume and the presence or absence of other potential contaminants in the oil must be determined through sampling and documentation prior to recycling.

2.0 OILY WATER

Oily water recovered as part of the cleanup process will be managed by one of the following methods:

a) Reclaimed along with entrained oil by a 3rd party vendor retained by Vancouver Energy (proposed firms include Oil Re-Refining Company and Thermo Fluids),

b) Injected into a Tesoro refinery wastewater or bilge water treatment plant, if available,

c) Discharged to a publicly-owned treatment works (POTW) wastewater influent stream (local, state, or federal approval required), or

d) Treated on-site in temporary wastewater treatment system in accordance with applicable surface-water quality standards and discharged (state/federal permit approval required).

2.1 Oily Water Decanting

Decanting of water from oily mixtures is a common procedure used during a spill response. Decanting is the process of draining off recovered water from portable tanks, barges, collection wells, or other containers to increase available recovered oil storage capacity.

During a response, it may become necessary for Vancouver Energy to request the Federal and/or state on-scene coordinator (FOSC/SOSC) authority to decant water while recovering oil so that response operations do not become impaired. Authorization from FOSC is required in all cases; authorization from the SOSC is required for decanting activities in state waters. Expeditious review and approval of such requests is necessary to ensure efficient recovery operations. The request, decision and permission to decant **must** be documented. Decanting permit applications appear as **Attachment 2 and Attachment 3**.

The following criteria should be considered when determining whether decanting is applicable, unless circumstances dictate otherwise:

A. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated response area within a collection area, vessel collection well, recovery belt, weir area, or directly in front of a recovery system.

B. Vessels employing sweep booms with recovery pumps in the apex of the boom should decant forward of the recovery pump.

C. All vessels, motor vehicles and other equipment not equipped with an oil/water separator should allow a retention time of at least 30 minutes for oil held in internal or portable tanks and should transfer oil/water mixtures to a vessel or on-shore equipment with approved oil-water separation technology. Unequipped vessels should not decant oil-water mixtures.

D. Visual monitoring of the decanting area shall be maintained at all times so that discharge of oil in the decanted water is detected promptly.

3.0 Recovered Oil Quantification Estimation and Tracking

The amounts of free oil, oily water, oil entrained in: absorbents, PPE, debris (adsorbed), decontamination unit waste material and wash water, soil and sediment will be estimated independently and then summed to account for all recovered oil. Table R-1 provides a summary used by response personnel to track and document the total amount and sources of recovered oil during the spill response.

Unless otherwise directed by WA DOE, all petroleum volumes will be estimated following the guidance and formulas included in the California Office of Spill Prevention and Response Chapter 7, Subchapter 2 "Determining Amount of Recovered Hydrocarbons Recovered."

4.0 DISPOSAL OF RECOVERED OIL AND OILY WATER

Recovered oil and oily water will be transported by **MSRC, CRC or Safety-Kleen** to the **Vancouver Energy Terminal.** Approved oil reclamation contractors are identified in the Incident Waste Management Plan. Applicable company names and contacts for the disposal of recovered oil and oily water are as follows:

1. Ernie Quesada **(CRC)** **Phone: (503) 209-5305**

2. Jeffrey M. Baker (Tesoro) **Phone: (253) 896-8708**

3. Vancouver Energy Terminal Mgr. **Phone: TBD when named**

ATTACHMENT 1

Recovered Oil Data Form

ECY-050-49a (Rev. 01/2013)

ATTACHMENT 2

OIL SPILL REQUEST FOR DECANTING AUTHORIZATION

Responsible Party (RP): Vancouver Energy

Date: 1/3/16

The RP hereby requests permission to decant free water from its on-water storage systems. The free water collected during skimming operations will be decanted back into a contaminated area (i.e., into containment boom).

The following information is provided for your consideration:

RP: **Vancouver Energy**
Name of Oil Spill: **Vancouver Energy DIL-BIT Exercise**
Location of Spill (latitude/longitude): 45 Deg, 38', 4.19" N by 122 Deg, 42', 10.55" W
Vessel Names: Barge: OSRV3, OSRV4, Oregon Responder
Product: **Diluent-Bitumen (DIL-BIT) Crude Oil**
Skimming Platforms: OSRV3, MARCO, OSRV4, Oregon Responder
Weather: Cold, water temp approx.. 41 degrees F, Winds 5 -10 mph from E/SE
Tides: N/A Spill Occurred in Columbia River near River Mile 105,

☐ Approved ☐ Disapproved

RP Representative Signature: _____

Dates Approval Effective: _____

Conditions (circle numbers that apply):

1. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated response area within a collection area, vessel collection well, recovery belt, or weir area, or directly in front of a recovery system.
2. Visual monitoring of the decanting shall be maintained at all times so that discharge of oil in the decanted water is detected promptly.
3. Decanting in areas where vacuum trucks, portable tanks, or other collection systems are used for shore cleanup will be subject to the same rules as vessels.
4. Additional site-specific conditions (continue on reverse side if necessary).

_____ USCG

_____ SOSC

ATTACHMENT 2 (Continued)

Additional Decant Permit Application Information

Vancouver Energy Company (VE) submits this Conditional Use Decanting Permit Application to efficiently skim the maximum amount of crude oil on river water from this spill response. *This Conditional Use Decanting Permit pertains only to skimming vessels working around the VE Terminal and the areas downstream in the Columbia River to approximately River Mile 45.* If additional areas require decanting, a subsequent Conditional Decanting Permit Application will be submitted to Unified Command. In addition, the decanting will only be employed if barge water transfer is not feasible or practical, as described below.

Vessel traffic within the River could create excessive down time for skimmers as operations move farther away from the VE Terminal. Skimmers will unload recovered oil into a 25,000 bbl barge provided by CRC or MSRC in order to minimize on-water traffic. When full, the barge will unload the recovered oil at the VE Terminal dock and will transfer the material to available storage tanks via one of the crude oil lines from dock to Terminal storage tanks.

Conditional to oil reaching areas past those listed above, VE requests permission to decant water from skimming operations in the Columbia River.

ATTACHMENT 3

Northwest Area Contingency Plan

7.3.2 Oil Spill Decanting Authorization Form	
The federal and state OSCs, under authority of RCW 90.56.320(1) and WAC 173-201A-110 (in Washington), or ORS/OAR _____ (in Oregon), hereby approve the use of decanting as a means of expediting the recovery of oil during the following spill cleanup operation:	
Date(s) Approval Effective: **10/3/16 – 13/31/16**	
Name of Spill Incident: **Vancouver Energy Spill**	
Federally Defined Response Area: **Columbia River @ River Mile 105**	
Name of Requester: **Vancouver Energy**	
Location and Description of Proposed Decanting Operation: (continue on reverse, if necessary) **Columbia River – River Mile 105 to 45**	
The decanting operation must meet the following conditions: 1. All decanting should be done in water with a minimum depth of thirty (30) feet and in a designated "Response Area" within a collection area, vessel collection well, recovery belt, weir area, or directly in front of a recovery system. 2. Vessels employing sweep booms with recovery pumps in the apex of the boom shall decant forward of the recovery pumps. 3. Vessels not equipped with an oil/water separator should allow at least thirty (30) minutes of retention time for oil held in internal or portable tanks before decanting commences. 4. Containment boom must / need not (circle one) be deployed around the collection area to prevent loss of decanted oil or entrainment. 5. Visual monitoring of the decanting shall be maintained at all times so that discharge of oil in the decanted water is detected promptly. 6. Decanting in areas where vacuum trucks, portable tanks, or other collection systems are used for shore cleanup will be subject to the same rules as vessels. 7. Additional conditions: (continue on reverse if necessary)	
SIGNATURE: **Federal OSC**	Date:
SIGNATURE: **State OSC**	Date:
NOTE: When verbal authorization is given, a copy of this form must be immediately expedited to the requester (must be a person of authority in the cleanup organization) to ensure that the conditions and limitations are clearly understood by all parties.	

Incident Name: Dilbit Exercise
SHORELINE CLEANUP ASSESSMENT TEAM WORK PLAN

This incident-specific SCAT plan is approved:

FOSC	Date
WA- SOSC	Date
OR - SOSC	Date
RPIC	Date
LIC	Date

cc: Operations Section, Shoreline Cleanup Supervisor
Operations Section Chief
National Oceanographic and Atmospheric Administration, SSC
U.S. Environmental Protection Agency
U.S. Department of Interior, U.S. Fish and Wildlife Service
State Historic Preservation Officer
State Agencies

Acronyms:
SCAT – Shoreline Cleanup Assessment Technique
EUL – Environmental Unit Leader
NEB – Net Environmental Benefit
QA/QC – Quality Assurance/Quality Control
SOS – Shoreline Oiling Survey
STR – Shoreline Treatment Recommendation

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1. Plan Purpose and Objectives

a. Purpose

Shoreline Cleanup and Assessment Technique (SCAT) is a systematic method for surveying an affected shoreline after an oil spill. The SCAT approach uses standardized terminology to document shoreline oiling conditions. SCAT is designed to support decision-making for shoreline cleanup that is consistent with the principles of Net Environmental Benefit (NEB). It is flexible in its scale of surveys and in the detail of datasets collected. SCAT surveys begin early in the response to assess initial shoreline conditions, and ideally continue to work in advance of operational cleanup. Until SCAT provides data for shoreline treatment recommendations, shoreline cleanup workers should follow the Shoreline Ecological Considerations in Appendix A.

Surveys continue during the response to verify shoreline oiling, cleanup effectiveness, and eventually, to conduct final evaluations of shorelines to ensure they meet cleanup endpoints.

This work plan has been developed to describe the process for initiating and implementing SCAT actions for Columbia River and adjoining shorelines impacted by a **Dilbit** oil spill.

The SCAT process for this incident is intended to:

1. Systematically survey and document the area affected by oil to provide rapid and accurate geographic description of the shoreline oiling conditions and real- time issues or constraints;
2. Recommend treatment or cleanup options for oiled shorelines to OPS and UC;
3. Recommend shoreline cleanup endpoint standards to OPS and UC;
4. Monitor and evaluate shoreline treatment;
5. Provide inspection teams for segment sign off, and
6. Manage data collected from shoreline surveys.

b. Objectives

The objectives of the SCAT process for this incident are to:

1. Quickly collect data on shoreline oiling conditions using standard protocols and mechanisms;
2. Utilize shoreline oiling data to enhance and expedite shoreline treatment planning, decision-making, and response activities; and
3. Assure that a "net environmental benefit" (NEB) for an oiled shoreline is achieved by shoreline cleanup.
4. Ensure that impacts to Tribal and Cultural resources as well as endangered species and essential fish habitats are minimized.

c. Fundamental Principles:

The fundamental principles of the shoreline assessment surveys include:

1. A systematic assessment of all (oiled and non-oiled) shorelines in the affected area;
2. A division of shorelines into homogeneous geographic units or "segments";
3. The use of a standard set of terms and definitions for documentation;
4. A survey team that is objective and trained; and
5. The timely provision of data and information for decision making and planning.

2. Health and Safety

The Site Safety Officer prepared a Site Safety Plan addressing safety issues related to the incident. The Site Safety Plan addresses the principal safety and health hazards from boat and water operations and shoreline assessment and cleanup operations. The site safety plan covers training, equipment safety, protective clothing and equipment, decontamination, and first aid and medical evacuation procedures to be used during the response.

Specific safety considerations for SCAT operations include the following:

- Follow the Site Safety Plan.
- Attend daily safety meetings regarding SCAT work.
- Wear personal protective equipment.
- Use personal flotation devices when transiting across water and review safe boating practices
- Observe careful personal hygiene during the workday.
- Watch for slips, trips, and falls.
- Wear hearing protection when designated.
- Watch for cold stress.
- Avoid interaction with wildlife.
- Protect hands.
- Operate equipment according to instructions.
- Practice good housekeeping in work areas.

3. Organization, Staffing, and Schedule

Organization

The SCAT Coordinator is in charge of the Shoreline Cleanup Assessment Technique operations. The SCAT Coordinator reports directly to the Environment Unit Leader, but must maintain a close working relationship with the Operations Section, resource agencies, and other affected parties. In the field, SCAT teams may receive priorities and technical directions from the SCAT Coordinator via the SCAT Field Team Manager.

Staffing

The field SCAT teams will consist of up to 4 members (plus vessel/aircraft operators as needed), ideally with the following representation (one or more roles may be combined, or not be applicable):

- Federal government representative
- State government representative
- Responsible Party
- Tribal government representative

Specific area information and site considerations are available from personnel at the ICP, including:

- Local government and/or oversight organization
- WDFW and OR-FW for ecological constraints
- Archeologist or cultural resource specialists who can advise on precautions and constraints to protect cultural resources, if needed

A total of **4** SCAT teams have been assembled and deployed for the initial stages of this incident with the ability to increase teams for field or aerial survey.

Field SCAT Team participants will be selected from representatives for industry; tribal, state and federal agencies; and/or local municipalities or landowners at the discretion of the IC to provide the primary expertise described above. A listing of the current organization (command & field) is outlined below.

The SCAT Data Manager is responsible for the maintenance of the SCAT data base and for the production of maps and tables as needed. The SCAT Data Manager may request the assignment of a SCAT Documentation specialist, as needed.

Command Post

- **SCAT Coordinator – Elliott Taylor (POLARIS);**
- **SCAT Data Manager / Data Entry – Teresa Allard (POLARIS).**
- **SCAT GIS Support – Stephen Gmur/Travis Scott (POLARIS)**
- **Archeologist/Cultural Specialist: Cowlitz tribe (others for consult: Nez Perce, Yakima, Warm Springs, Umatilla). (360)–577-6962 www.cowlitz.org**

Initial Aerial Reconnaissance (overflight 3 Oct @1000) and Aerial Surveys:

- **WA State Rep –** (ECY) Steve Bell
- **OR State Rep –** (DEQ) TBD
- **RP –** (ECY) Gary Mauseth (POLARIS)

SCAT Team 1:

- **Federal Rep –** (USCG) tbd
- **WA State Rep –** (ECY)Dale Davis
- **RP –** Andrew Graham (POLARIS)
- **Tribal/Local Gov't reps–** Cowlitz (Arch)

SCAT Team 2:

- **Federal Rep –** (USCG) tbd

- **WA State Rep –** (ECY)Ron Holcomb
- **RP –** Ed Owens (POLARIS)
- **Tribal/Local Gov't reps–** _____

SCAT Team 3:

- **Federal Rep –** (USCG) tbd
- **WA State Rep –** (ECY)Sonja Larson
- **RP –** Greg Challenger (POLARIS)
- **Tribal/Local Gov't reps–** Cowlitz (Cultural)

SCAT Team 4:

- **Federal Rep –** (USCG) tbd
- **OR State Rep –** (DEQ) tbd
- **RP –** Jose Rios (POLARIS)
- **Tribal/Local Gov't reps–** _____

Efforts will be made to minimize personnel substitutions and select team members who can stay with the SCAT operations, or to have a systematic schedule of alternates; people who see conditions change through time have a better frame of reference for assessing the success of cleanup operations.

Initial and subsequently new field team members will be "calibrated" by having them visit shorelines of differing morphology to review the agreed-upon shoreline descriptors and to confirm how oil impacts will be described throughout the response process. Currently deployed SCAT Teams have been calibrated.

Team Priority – Areas where heavy oiling has been noted or which are of specific ecological importance will be prioritized to maximize recovery opportunities and to reduce overall impacts.

Schedule
The schedule for SCAT Field Teams will be defined daily, and be reflected in the 204s as well as on SCAT planning tools (Appendix G).

4. SCAT Survey Methods

Shoreline surveys will be conducted for this incident by different methods and at different scales depending upon the size of the affected area, character of the shoreline type, and level of detail that is required. The following table presents a summary of the survey methods that will be used for this incident, key objectives of the survey methods, and the purpose of each survey method.

Table1 Summary of SCAT Survey Methods		
Survey Method	**Key Objectives**	**Purpose**
Aerial Reconnaissance	Define the overall incident scale to develop regional objectives. Mapping or documentation not required.	Make specific observations, but not to map or document the oiling conditions, so that relatively large areas can be covered in a relatively short time period.
Systematic Ground Survey	Systematically document shoreline oiling conditions in all segments within the affected area.	Systematically document shoreline oiling conditions in all segments within the affected area and to complete shoreline oiling summary ("SOS") forms, generate sketch maps for each oiled segment and complete Shoreline Treatment Recommendations. ("STRs").
Spot Ground Survey	Systematically document shoreline oiling conditions for selected segments within the affected area.	Systematically document oiling conditions for selected segments within the affected area and to complete SOS forms, generate sketch maps for each oiled segment and complete Shoreline Treatment Recommendations ("STR").
Inspection Survey	Evaluate effectiveness of treatment methods employed by Operations in meeting shoreline treatment standards.	Systematically document shoreline conditions after treatment and cleanup of segments within the affected area against the applicable treatment standards and complete shoreline oiling summary forms and generate sketch maps for those segments. Make recommendations for closure or further cleanup actions and complete Shoreline Inspection Reports ("SIRs") for each segment for which "No Future Treatment" is being recommended.

Shoreline Segmentation Strategy

No –pre-SCAT segmentation exists for this part of the Columbia River. SCAT segments are to be defined by the SCAT team organization and will be tied to operational divisions, proceeding downstream within each division.

5. Field Documentation and Information Transfer

Field documentation will consist, where possible, exclusively of standardized forms. Examples include the shoreline oiling summary (SOS), shoreline treatment recommendation (STR) forms, segment inspection report and photograph log of found in Appendices B thru E.

Aerial Surveys
Completed field documents (notes, sketches, videos and photos) from aerial reconnaissance teams are to be provided by the team members and inspected at the Command Post for QA/QC the same day to ensure that any necessary revisions are made prior to the surveys of the next day.

Ground Surveys
The SCAT Field Team Manager and each Field Teams are responsible for ensuring that the following tasks and field documentation are completed.

- Complete SOS Form
- Complete STR Form
- Sketch(es) of the segment if oil is observed
- GPS coordinates of segment endpoints and specific features
- Digital photographs and log date/time/location if oil is observed
- Dig pits/trenches if subsurface oil is suspected

The **SOS form for river shorelines** will be used for oiling assessment.

The completed field documentation (SOSs, STRs, sketches and photos) from the ground survey teams are to be provided to the Field Team Manager (or Data Manger). This documentation shall be inspected at the command post for QA/QC on the same day as the survey to ensure that any necessary revisions are made prior to the surveys of the next day.

All GPS units and digital cameras will be surrendered to SCAT Data Manger immediately upon return to the Command Post for downloading. The Data Manager will ensure that device times are synchronized and that all waypoints, track logs, and digital pictures are erased from each device prior to being redeployed with Field Teams.

In order to facilitate planning, the Team Members will notify the SCAT Field Team Manager on a daily basis if any segments are identified that will require Operations mobilization.

6. Command Post Data Management and Results

Data QA/QC
Data from SCAT field surveys is used to plan cleanup activities for the subsequent shoreline cleanup operations.

The SCAT Data Manager receives and logs incoming SCAT field forms, sketches, and other information (films, videotapes, etc.) and reviews the field information. The review involves a quick check to make sure that all sections of the forms have been completed and that the information appears reasonable and consistent. Any questions regarding missing information or apparent inconsistencies are discussed with the field team members before the next field assignment. After the quality control is complete, forms are copied and distributed as needed and key information is transferred to tables or computer data files.

Data Outputs

In general, the types of data, graphics, and tables that will be generated from the SCAT database may include:

- Maps of shoreline segments and soil/sediment types
- Oiling conditions
- Estimates of surface oil volumes, changes in volume through time
- SCAT field survey status
- Treatment recommendations
- Cleanup treatment status
- Lengths of oiled shoreline (by oil rating and/or shoreline type)
- Lengths treated (by oil rating and/or treatment method)
- Area surveyed

Record Keeping

Original SCAT field forms, sketches, and other information (photos, videotapes, etc.) and data, graphics, and tables generated during the incident will be provided by the SCAT Data Manager to the Documentation Section for retention. Only copies of these records will be distributed for use by stakeholders (i.e. RP, USCG, EPA, state agencies, etc.).

7. Spill Cleanup Endpoints Standards

All spills have a point at which active cleanup and removal gives way to the natural degradation of the oil. In many cases, this termination point is developed through a process lead by the SCAT Coordinator (Cleanup Endpoint Stakeholder Group) and formalized by the Unified Command. In most cases, the endpoint will be assumed to have been reached when worker safety would be compromised or the remaining oil presents less of a risk to the community or the resources than the treatment methods available.

The cleanup endpoints for this spill are detailed in Appendix F.

After the Operations Division Supervisor or Shoreline Supervisor considers that cleanup in a segment has been completed, the segment will be inspected by a Sign-Off team, that will (a) determine whether the cleanup criteria have been met and (b) make a recommendation to the Unified Command regarding that segment. The team will use the criteria outlined in Appendix G to make this determination. At the time of the inspection, the land manager or representative will accompany the team and a segment inspection report (SIR) form will be completed. The Land Manager or representative may add notes in the "COMMENTS" text block on the SIR.

If the SCAT team (in consultation with the land manager) determines that no oil is present in the segment or that the cleanup has met the endpoint criteria, then the members of the SCAT team representing the UC will sign the SIR and forward a No Further Action recommendation to the UC for approval. Note that a determination that cleanup endpoints have been reached does not indicate that the segment is necessarily recovered or restored under the definition of the NRDA process.

If the SCAT team determines that a segment fails to meet the cleanup criteria the team will indicate this on the SIR. They will specify where work is still required in order for the segment

to pass inspection and will forward the form to the Operations Section Chief via the SCAT Coordinator and the EUL.

The SCAT signoff process is intended to be a consensus-based team assessment. If, however, the team members are not in agreement regarding whether or not the endpoint criteria are met, then a sheet listing the reasons for disagreement is attached to the SIR and forwarded to the UC for resolution.

SCAT Work Plan Appendix A
Pre-SCAT Shoreline Ecological Considerations for Operations

The following pages show Ecological Considerations to be followed.

General Operations Shoreline Ecological Considerations and Guidance (Pre-SCAT)

This Guidance is intended to:

- Provide recommendations to Operations personnel to conduct initial shoreline response actions associated with near shore waters prior to formal SCAT surveys and approved Shoreline Treatment Recommendations; and,
- Provide approved methods for cleaning of bulk oil from shorelines until the source is controlled and the threat of re-oiling is minimized.

These guidelines will be superseded by SCAT Shoreline Treatment Recommendations (STRs) specific to each segment. When an STR is developed for a segment, this plan no longer applies.

Allowable Pre-SCAT and STR Cleanup Methods

- Skimming and vacuum of floating oil on the water surface
- Use gentle flushing with low pressure/high volume ambient water into containment and collection.
- Passive use of sorbents may be deployed following the ecological constraints below.
- Oiled debris (wrack such as algae, dead vegetation, woody debris) that is small (<4" dia) may be removed.
- **No mechanical equipment or chemical agents are approved on shorelines. Shoreline work in the initial pre-SCAT stage is all manual (hand removal of oily debris) and passive (sorbent).**

Specific shoreline cleanup recommendations will be issued by SCAT as necessary in the shoreline treatment recommendation process following detailed SCAT surveys of oiled shorelines.

ECOLOGICAL CONSTRAINTS:

- Response personnel should not walk into marsh, freshwater wetlands or areas with oil and soft sediments other than to retrieve and/or reposition stranded boom or other oil spill response equipment.
- All work is to be conducted from boats in very soft sediments; there will be no foot or boat traffic in areas where the workers boot penetrates more than several inches into the sediment
- Do not stage boats such that the vegetation is crushed.
- During flushing, prevent suspension of bottom sediments (do not create a muddy plume)
- Do not disturb any wetland soils
- No cutting of vegetation allowed unless specified by the Environmental Unit (EU)
- Areas where oil inside wetlands may be removed will be identified by the EU
- Response equipment/vessels should not penetrate into wetlands
- Vehicle and mechanical equipment should avoid soft soils and wetlands
- Workers should avoid walking above the flood plain or high tide line and take care near large woody debris and other material on beaches that may be used for nesting activity and wildlife habitat.
- No removal of large woody debris that is oiled is approved at this time.
- Follow overflight restrictions issued by Air Operations.
- Access corridors should be clearly marked in the field.
- Decon stations should be set up at all access corridors.
- Boat operators should always be aware of prop/blade washing.

- Do not disturb wildlife. If oiled wildlife are encountered, follow the instructions of Wildlife Operations which may include the considerations below.

WILDLIFE CONSIDERATIONS:

Wildlife Contact Telephone: _____

- All dead and live stranded birds, mammals, fish & reptiles should immediately be reported to the Wildlife Hotline listed:
- Do not attempt to handle the wildlife or disturb nests or bird colonies
- If possible, be prepared to provide information such as:
    - Dead or alive
    - Species if known - if not, describe the animal/bird
    - Number of animals/birds/nests
    - If nest has been identified with flags
    - Current environmental conditions
    - Observer contact information
- Determine the location of the animal/bird, preferably with GPS
- If possible, take photographs and record noteworthy information

PUBLIC SAFETY

The public should not be picking up oil or observing operations. Please advise the public of safety issues. Do not engage the public in discussions and refer them to the information hotline. The number for the Public to call regarding volunteer work or other information is:

1-800 965-8675

For issues with the public, call security at: XXX-XXX-XXXX

SCAT Work Plan Appendix B – SHORELINE OILING SUMMARY FORM

The following page shows the Shoreline Oiling Summary Form to be used.

*Use supplement
Sketch / Map:

Calibration IS VERY IMPORTANT! Do a calibration exercise to make sure that all teams are consistently using the same terminology and estimations.

Units: Use either metric (m, cm) or English (yd, ft, in). Circle the units used.

Tide Height: Circle the two letters indicating the progression of the tidal stage during the survey, either rising or falling.

Segment/Survey Length: Always record both segment and survey lengths on the first survey, especially where the SCAT team creates the segments in the field. On repeat surveys, always enter in the Survey Length, especially if only part of the segment is surveyed.

Start/End GPS: The preferred format for latitude and longitude is decimal degrees, but be consistent among teams. Record the datum if different than WGS84.

SURFACE OILING CONDITIONS

Zone ID: Use a different ID for each oil occurrence, e.g., two distinct bands of oil at mid-tide and high-tide levels, or alongshore where the oil distribution changes from 10 % to 50%. Describe each oil occurrence on a separate line. Record the shoreline type(s) present in each oiled zone using the terminology in section 4 or the ESI code.

Tidal Zone: Use the codes to indicate the location of the oil being described, as in the lower (LI), mid (MI), or upper (UI) intertidal zone, or in the supra (SU) tidal zone (above the normal high tide level).

Distribution: Enter the estimated percent of oil on the surface (preferred), or codes for the following intervals:

C	Continuous	91-100% cover
B	Broken	51-90%
P	Patchy	11-50%
S	Sporadic	<1-10%
T	Trace	<1%

Surface Oiling Descriptors - Thickness: Use the following codes: TO
Thick Oil (fresh oil or mousse > 1 cm thick)
CV Cover (oil or mousse from >0.1 cm to <1 cm on any surface)
CT Coat (visible oil <0.1 cm, which can be scraped off with fingernail) ST
Stain (visible oil, which cannot be scraped off with fingernail)
FL Film (transparent or iridescent sheen or oily film)

Surface Oiling Descriptors - Type
FR Fresh Oil (unweathered, liquid oil)
MS Mousse (emulsified oil occurring over broad areas)
TB Tar balls (discrete accumulations of oil <10 cm in diameter) PT
Patties (discrete accumulations of oil >10 cm in diameter)
TC Tar (highly weathered oil, of tarry, nearly solid consistency)
SR Surface Oil Residue (non-cohesive, oiled surface sediments) AP
Asphalt Pavements (cohesive, heavily oiled surface sediments) No
No oil (no evidence of any type of oil)

SUBSURFACE OILING CONDITIONS

Oiled Interval: Measure the depths from the sediment surface to top/bottom of subsurface oiled layer. Enter multiple oil layers on separate lines.

Subsurface Oiling Descriptors: Use the following codes:
OP Oil-Filled Pores (pore spaces are completely filled with oil)
PP Partially Filled Pores (the oil does not flow out of the sediments when disturbed)
OR Oil Residue (sediments are visibly oiled with black/brown coat or cover on the clasts, but little or no accumulation of oil within the pore spaces)
OF Oil Film (sediments are lightly oiled with an oil film, or stain on the clasts) TR
Trace (discontinuous film or spots of oil, or an odor or tackiness)

Sheen Color: Describe sheen on the water table as brown (B), rainbow (R), silver (S), or none (N).

SCAT Work Plan Appendix C – SHORELINE TREATMENT RECOMMENDATION FORM

The following page shows the spill-specific Shoreline Treatment Recommendations for shore types within the response area.

INCIDENT NAME

Shoreline Treatment Recommendation STR# ___
Operational Permit to Work

Segment: Survey Date:

Start Latitude: **End Lat:**
Start Longitude: **End Long:** **Length (m):** _____

Shoreline Type: *Primary* _____ *Secondary* _____

Oiled Areas for Treatment:

Auto entry directly populated from data base of:
Zone: Shoreline Type, L x W, Oil % Dist, Oil Character, Oil Thickness, Oiling Category
e.g. Zone A: Sand beach, 200 m x 1 m, 10% Fresh oil, pooled, Oiling Category: Heavy

Cleanup Recommendations:

(Use standard terms and definitions from a Word document or populate database with these standard statements)

Staging and/or Logistics Constraints/Waste Issues:

Ecological Concerns:

Cultural / Historical Concerns:

Safety Concerns:

Attachments: Segment Map Sketch SCAT Form Fact Sheet Other

Prepared by: _____ Date Prepared: _____

Date					
Time					
	to SOSC	to Land Mgr	to SHPO	to EU Leader	to _____

Final Approval _____ _____ _____ **Submitted to OPS** _____

State OSC Rep **Federal OSC Rep** **EU Lead**

** When Treatment is completed, send a Segment Completion Report to SCAT **

SCAT Work Plan Appendix D – SEGMENT INSPECTION REPORT FORM

The following page shows the Segment Inspection Report form.

Segment Inspection Report for _____

Segment ID: _____ **Segment Name** _____
Survey Date: _____ **Survey Time:** _____
Tides: _____ **Weather:** _____

Inspection Completed Along Entire Segment: Yes / No

Result/Recommendation:

☐ No oil observed.

☐ Meets cleanup endpoints.

☐ No further treatment recommended.

☐ Further treatment recommended.

(Provide written details of issues and required actions.)

☐ Continued monitoring required.

(Provide written details of frequency and schedule.)

SCAT Team Members:

	Name	Signature
FOSC Rep		
SOSC Rep		
RP Rep		
Tribal/Landowner/Other Rep		

SCAT Work Plan Appendix E – PHOTO CONTENT/LOG

SCAT PHOTO LOG FORMAT

These standards should be reviewed and confirmed during each incident by the Data Manager.

Item	Format	Example
Date	Date	dd mmm yyyy
Time	Time	24 hour
Team	Team	N or L
Location Name *	Location Name *	text
Segment Number	Segment Number	LLL-NN
Ops Division *	Ops Division *	N or L
Latitude	Latitude	dd.ddddd
Longitude	Longitude	ddd.ddddd
Waypoint *	Waypoint *	NNN
Subject	Subject	text

* optional

NOTES:
1. Ensure the GPS is on with the "trackline" active. For aerial tracks, use a 1-second fix, for ground/walking use about a 2-second fix. **DO NOT KEEP THE SAVED TRACKLINES ON THE GPS** – download tracks to a computer file each day. NOTE: Do not save the track to the GPS. If you save to the GPS then the track fixes are averaged and so we lose the ability to sync the times of the track fixes to the photos.

2. Ensure GPS and camera times are close to sync particularly the time zone.

3. Take photo of GPS time at least twice a day.

4. **The purpose of the photographs is to document the character of any oil observed within a segment**. Do not take too many photos of the oiled zone or location as one or two good photos only are necessary for documentation.

5. If there is **no oil** found within in segment then only take two photos, one at the start and end of the segment. Preferably take a photo alongshore approximately at the High Water Level to record the general character of the segment.

6. Photography would be required if any cultural resources are identified.

7. **WAYPOINTS**: Not necessary to take a waypoint at every photo location, but is valuable for specific items of interest that are photographed (such as the start and/or end of an oiled area or a pit in which oil is found).

8. **SCALE**: For distant or panorama shots always try to have a person in the middle distance for scale. For close-up shots always use a scale (the back of the field note book scale is preferred rather than a pencil or a coin!!)

SCAT PHOTO LOG

INCIDENT NAME:

Time	Date	Team	Location	Segment	Ops Div	Lat	Long	Waypoint	Subject

SCAT Work Plan Appendix F – RECOMMENDED TREATMENT AND ENDPOINT PLAN for Dilbit

Introduction

All spills have a point at which the active clean-up, removal, and recovery operations give way to natural processes of oil degradation. In most cases, this termination point is qualitative, developed through a consensus-based process and field verified by representatives from the Unified Command (UC) in consultation with the appropriate federal, state, and local trustees. In all cases, the endpoint is reached when responder safety would be compromised or the remaining oil presents less of a risk to the community and natural resources than the response and recovery methods available.

The determination as to cleanup methods, priorities, and termination will be made via UC representatives.

Completion of active shoreline countermeasures is a decision of the On-Scene Coordinator (OSC). Support of the OSC requires recommendations on shoreline countermeasures and also recommendations on when to terminate cleanup operations. Evaluating the results of countermeasures and the recommendation to terminate response efforts requires a consensus of members who may have varying interests and roles. One key element for all parties to examine is to determine if the continued use of a particular countermeasure will result in more damage to the environment than would occur as a result of terminating any active response measures.

The Endpoint Plan provides a cleanup endpoints and constraints for each shoreline type. There may be unique factors in any given segment that will require a different approach. At the end, there is a summary table of this information.

Endpoints for No Further Action

These guidelines establish endpoints for operations for the **Vancouver Energy Dilbit WCD internal tabletop exercise**. These endpoints may be amended to address as yet unforeseen circumstances and do not constitute shoreline restoration or full recovery criteria, which may be addressed through a longer-term process. These endpoints define the conclusion of cleanup operations while attempting to minimize overall impact (including those from operations) to sensitive resources.

Stranded Free Oil Product

- Oiled shorelines shall be free of bulk product and not produce rainbow sheen under all weather and tidal conditions.
- There shall be no appreciable mobile oiled debris that is recoverable. Oil film, stain and minor sheening may still be present if best professional judgment of the Environmental Unit determines that further recovery will not produce environmental benefit. Such residual oiling would be allowed to degrade naturally.

Specific Target Cleanup End-Points for Various Habitat Types:

Fine-Grain Sand Beaches

- Beaches shall be free of bulk oil and not produce rainbow sheen during tidal events.
- Light oil stain on beach sediment that does not produce rainbow sheen may be allowed to weather and degrade naturally.
- Minor residual sheen that is dull in color or silver may remain and weather naturally.

Do not remove unoiled wrack. Access to upland areas must be restricted to prevent additional environmental damage. Snare may be used for passive recovery of sheen adjacent to shoreline.

Bulkheads and Piers

- All hard structures shall be free of bulk oil and not produce sheens that would represent a secondary oil source.
- Minor residual sheen that is dull in color or silver may remain and weather naturally.

Where appropriate, clean-up crews may use a variety of flushing techniques from low pressure ambient water to high pressure/high volume ambient water flushing into containment and collection. High pressure should not be used where attached marine organisms (algae, bivalves, echinoderms) are abundant. Passive snare may be deployed. High pressure flushing will require segment specific approval from the EU.

Marshes /Tidal Mudflats

- These areas shall be free of free floating and potentially mobile oil, including oiled debris and wrack at the fringe marsh.
- There shall be no appreciable sheens released from marsh. Minor residual sheen that is dull in color or silver may remain and weather naturally.
- **Stay out of these areas unless otherwise directed.**

Aggressive cleanup on marshes/mudflats may actually cause greater long- term damage. **There must not be any physical cleanup activities in marsh areas that will cause damage to marsh vegetation or entrainment/entrapment of oil product into sediments**. Snare boom should be staked along the front edge of oiled marsh for passively recovery of sheens. These snares must be inspected and replaced routinely. Low pressure deluge flushing with ambient water may also be deployed from the upper marsh to flush product into containment and collection. Deployment of this technique should not involve walking into soft sediments or marsh vegetation. Best professional judgment by the Environmental Unit/SCAT will be used to determine if further treatment or cleanup would have no environmental benefit and may delay, rather than accelerate, recovery of the vegetation. This judgment will be based on fact, past studies or data from previous oil spills.

Riprap/Rubble

Type I Riprap is defined as shorelines that are not commonly accessed by the public or have sensitive wildlife concerns. Type I riprap should meet the following criteria:

- Oiled riprap shall be free of bulk oil and not produce appreciable sheen under all weather conditions.
- Some inaccessible patches of oil may not be feasible to remove.
- Safety is paramount. Areas of broken rebar and other damaged materials should

be avoided.

- Minor residual sheen that is dull in color or silver may remain and weather naturally.

High Public Use Areas

High Public Use Areas are defined as shorelines that have a greater potential for members of the public (and their pets) coming into direct contact with residual oil pollution and will likely necessitate a higher cleanup standard. The following additional cleanup criteria apply to public use area.

- No oil residues that would present a contact hazard to the public (residents, visitors, or pets).
- High Public Use or Public Access Areas will require "case-by-case" assessment and identification of cleanup requirements.

Where appropriate, clean-up crews may use a variety of flushing techniques from low pressure ambient water to high pressure/high volume ambient water flushing into containment and collection. High pressure should not be used where attached marine organisms (algae, bivalves, echinoderms) are abundant. Passive snare may be deployed.

General Shoreline Treatment Recommendations and Endpoints

Additional treatment options may be beneficial or necessary for specific shoreline segments. This will be handled on a case by case basis.

Habitat Type	Cleanup Endpoints	Recommended Cleanup Methods	Constraints
Wetlands	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Snare boom should be staked along the front edge of oiled marsh for passively recovery of sheens. Collect heavily oiled debris by small boats at high tide. Any additional cleanup requires EU approval.	Do not disturb vegetated areas, even if oiled No foot traffic in vegetated wetland areas
Vegetated shorelines	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Manual removal of oily debris less than 4" diameter. Skimming and vacuum of floating oil on the water surface. Use flushing with sea water along the vegetated fringe to release trapped oil. Where remaining oil poses a significant threat to bird concentration areas, sorbent snare may be deployed. Such areas will be identified by the EU	There will be limited foot traffic in vegetated areas (access points only) During flushing, prevent suspension of bottom sediments (do not create a muddy plume) No cutting of vegetation at this time
Marshes/Tidal flats (mud and/or sand)	No mobile oiled debris, Sheen may be allowed to degrade naturally.	Snare boom should be staked along the front edge of oiled tidal flat for passively recovery of oil and rainbow sheens. Collect heavily oiled debris by small boats at high tide, or on foot in firmer areas. Any additional cleanup requires EU approval.	Do not enter tidal flats to recover oil or oily debris if boots sink more than 2 inches into the mud.
Bulkheads and Piers	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a silver sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil Minimal use of sorbents	Do not remove or intentionally dislodge organisms on bulkheads or piers.
Rip rap/rubble shoreline	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a silver sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil. Passive snare may be deployed. Minimal use of sorbents	Do not remove or intentionally dislodge organisms on rip rap.
Fine grained sand shorelines, and mixed gravel	No pooled mobile oil.	Flooding and low-pressure, ambient water flushing to remove mobile oil; flush only to the point where a sheen remains; use booms for containment and skimmers/vacuum for recovery of released oil Minimal use of sorbents, snare is preferred	Use barriers and signs to prevent public access to oiled areas Do not remove unoiled wrack. Access to upland areas must be restricted to prevent collateral damage High Public Use or Public Access Areas will require segment specific recommendations.
Oiled Debris	Removal of all readily accessible heavily oiled debris (releases liquid oil when disturbed)	Manual removal using appropriate hand tools (rakes, pitchforks, etc.) of items less than 4 inches in diameter.	Do not remove clean or possibly oiled debris No cutting of vegetation allowed

Dilbit WCD
Vancouver Energy – Tesoro – Internal Exercise

SCAT Work Plan Appendix G –
EXAMPLE Management, Planning, and Tracking Forms

SCAT TEAM DAILY LOGISTICS PLANNER

SCAT TEAM LOGISTICS for 18 Dec 2014					Issued : 18 Dec 2014 Time : 13:30	
Team	**Staff**		**Survey Area**	**Mission**	**Logistical Arrangements**	**Time**
SCAT #1	Team Lead	Andy Graham	OPS Div A	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 1	1230
	FED	**TBD**				
	STATE	**Dale Davis**				
	Tribal	**TBD**				
SCAT #2	Team Lead	Gary Mauseth	OPS Div B	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 1	1230
	FED	**TBD**				
	STATE	**Ron Holcomb**				
SCAT #3	Team Lead	Greg Challenger	OPS Div D	SCAT Survey, as much of area as possible **focusing on heavily oiled areas.**	Skiff + Operator, meet at staging area 2	1230
	FED	**TBD**				
	STATE	**Sonja Larsen**				
	Tribal	**TBD**				
SCAT #4	Team Lead	Jose Rios 206 601 7911	Aerial	Aerial overview survey, as much of area as possible focusing on heavily oiled areas. Afternoon aerial reconnaissance of mud flats.	Helo	1400
	FED	**TBD**				
	STATE	**TBD**				

Mission Codes
SCAT = Standard Shoreline Oiling Assessment Survey **PTA** = Post-Treatment Assessment **SIR** = Segment Inspection Report Survey

OLS = OPS Liaison Support **BP** = Beach Profiling Survey **MON** = Monitoring **PM** = Photo-Monitoring

Time
Enter scheduled time for each logistics action

INITIAL SPILL RESPONSE SAMPLING PLAN – Vancouver Energy

Incident Name: **Dilbit Crude Spill Drill**

Date: **3 January 2016**

Submitted by:

Approved by:

FOSC _____ Date _____

WA- SOSC _____ Date _____

OR - SOSC _____ Date _____

RPIC _____ Date _____

LIC _____ Date _____

SPILL RESPONSE SAMPLING PLAN
TABLE OF CONTENTS

Introduction

This section sets forth the methodology and procedure for collecting, sampling, and storing oil, tar balls, soil/sediment, water and biota samples. This suggested sampling plan will facilitate the collection of samples that may be needed to assess the potential for natural resource damages resulting from an oil spill and assist with the characterization of the product as it relates to an effective response. This plan is not meant to be comprehensive and is meant to capture some initial time sensitive data until NRDA Trustees and or health regulatory authorities develop more detailed plans.

Section 1. OIL SAMPLING AND CHARACTERIZATION

1.1 Oil and Oiled Waste to be Tested

Oil sampling for physical and chemical characterization to aid in the response and Natural Resource Damage Assessment (NRDA) should be done immediately following the spill. Samples of the neat product from the tank where it was released and initial samples of oil on water and shoreline should be collected for characterization. Samples from the environment should be collected every few days while the spill response is ongoing to evaluate physical and chemical weathering of the oil. Physical and chemical analyses include specific gravity, flash point, pour point, total oil and grease, THC, GCFID saturated hydrocarbons, BTEX and PAH and Total Organic Carbon.

Some oiled waste material may be tested to determine if a) the waste is a federal or state hazardous waste, and b) if not hazardous, if the waste concentration is low enough in total oil and grease or total organic carbon to be accepted in the local landfill or RCRA Class III disposal facility.

Generally, Sampling 10% of an oiled waste stream would adequately characterize (i.e., one in ten bags of oily debris may be sampled or one in ten drums will be sampled) the material lost in a spill event. Spent oiled boom and sorbent material as well as contaminated soil, sand or other loose, natural material would be composite sampled as means to classify the material.

1.2 Sampling Procedures and Guidelines for Whole Oil

Oil and oily material sampling will follow guidelines to include at a minimum:

a) Third party contractors will be used to collect all neat and contaminated material samples.

b) Third party contractors will be used to gauge all tanks containing oil-water mixtures.

c) Samples will be collected in pre-cleaned glass containers provided by an accredited analytical laboratory.

d) Containers will be labeled with information such as the date, sample type, and sample location.

e) Solid material type samples (e.g., PPE) will be collected with the assistance of a clean utility knife or scissors.

f) Liquid samples will be collected with the assistance of an appropriate liquid sampling devices.

g) Sampling equipment will be decontaminated with isopropyl alcohol and water and thoroughly rinsed between each sample collected.

h) Nitrile or other protective gloves will be used for sample collection, and changed between samples to prevent cross contamination.

i) All used sampling equipment and contaminated material associated with sampling will be consolidated, containerized and moved to the Waste Staging Area.

j) Proper chain of custody protocol will be followed.

Section 2. SAMPLING PLAN FOR OIL-CONTAMINATED MEDIA

The Shoreline Oiling Summary form (see SCAT Plan) should be completed in conjunction with the water and sediment sampling. **Table 1** or a similar data management approach should be used to record information for all the samples collected during the oil spill response effort as part of sample data management.

2.1 Oiled Wildlife

The wildlife impacted from an oil spill may either be dead or alive at the time of collection, sampling, and storing. Dead wildlife should only be collected by retrieval groups authorized by the incident command center and brought to a Wildlife Recovery and Rehabilitation Center. All oiled wildlife should ultimately be routed to the Wildlife Recovery and Rehabilitation Center. Before permission is granted for removing oiled wildlife, specific guidance from the Wildlife Branch of the Operation Section will be provided.

Refer to specific sampling and retrieval instructions contained in the Oil Affected Animals and Animal Carcass Management Plan for wildlife sampling. Be prepared to provide the following:

- Dead or alive
- Species if known - if not, describe the animal/bird
- Number of animals/birds/nests
- If nest has been identified with flags
- Current environmental conditions
- Observer contact information
- Location of the animal/bird, preferably with GPS
- photographs and record noteworthy information

2.2 Sampling Protocol for Contaminated Soil/Sediment

The purpose of sampling the beach sediments (e.g., mud, sand and/or gravel) in unoiled areas is to determine the baseline concentration of oil fractions, especially potentially toxic ones such as aromatics, that are present prior to the spilled oil reaching the beach and to determine what

proportion of the petroleum hydrocarbon present comes from the spilled oil compared to other sources.

The emphasis of the ephemeral sampling program is on beaches that are unoiled, but are likely to be oiled. Sampling of oiled beaches, unoiled reference beaches, and oiled or unoiled rocky shores could be done by first-responders using the methods described below. However, once a beach is oiled, the oil is generally persistent for several days to weeks or months, and could be sampled by Tesoro staff or contractors at a later date under a NRDA sampling program developed in consultation with Natural Resource Trustees. Also, samples for sediment grain size and total organic carbon analyses can generally be deferred for a few days. Offshore and subtidal sediments are typically not affected by spilled oil in the first few days (except for oil that is heavier than water when released) and could also await sampling by Tesoro staff or contractors. Subtidal sampling requires either divers or specialized sampling equipment that may not be readily available to first-responders.

Samples should be obtained from the potentially oiled and unoiled reference areas in the following sequence of decreasing priority:

1. Areas ahead of the oil slick that have not been oiled but are likely to be within 24-48 hours.
2. Areas that have not been oiled, but may be 2-5 days hence.
3. Reference areas unlikely to be oiled.
4. Areas known or suspected to be oiled by the spill. A range of SCAT oiling conditions (H,M,L,VL) may be sampled.

Priority category (1) is the critical sampling effort and must be completed before oil reaches the area. Sampling of sediments in oiled areas can be left for a few days. Samples should be collected only once per location unless a “pre-oiled” location becomes an oiled location.

Within each of the potentially oiled areas, especially priority category (1), habitats should generally be sampled in the following sequence of decreasing priority:

1. Areas known or suspected to be utilized by threatened or endangered species.
2. Wetlands and/or mangrove swamps.
3. Tidal mudflats.
4. Sand/gravel beaches.

Field judgement may be used to modify this sequence. For example, if oil will reach a sand beach within 3 hours and a wetland after 12 hours, then the sand beach could be sampled first. Information on areas of specific habitats that are utilized by threatened or endangered species should be available from the Area Contingency Plan or Geographic Response Plan, and/or the local state or Federal fish and wildlife agencies. The proximity of these areas to the point of release and oil movement may dictate that the habitat areas are sampled first.

Collection of discrete samples should be performed in the priority sequence described above, preferably on the first day of the response. Subsequent sampling at the same locations will

probably be done by Tesoro or contractors, so station locations need to be marked and documented. Two types of chemical analyses will be completed: VOAs and TPH/PAHs.

Stations should be located at the same elevation relative to mean lower low water (MLLW) or other standard tidal datum used in the area. If practical, three tidal elevations should be sampled, in the following sequence of decreasing priority:

1. Mean high water here most of the oil is typically stranded and greatest intertidal beach recreation use occurs; though biological diversity is lower here.
2. Mean sea level where less oil is stranded but intertidal biological diversity begins to increase.
3. Mean low water where the least oil is stranded.

At each sample station, obtain at least three replicate samples within a 5-meter diameter. The sampling procedure for each sediment sample is described in the following eight steps:

- Prior to any sampling and after marking the station location, photograph or video the sampling site. Take video and/or the photos in both directions along the shore as well as from the waterline toward the backshore, and from the backshore to the waterline. Try to get permanent and distinctive landmarks in some photos and/or video for future reference.
- Collect sample with pre-cleaned core sampler, preferably stainless steel. Brass core liners or plastic, PVC, or acrylic pipe may be used if that is all that is available. Cores should be 10-cm long, if possible, and at least 2.5-cm, preferably 5-cm, in diameter. In gravel or small cobble, it may be necessary to dig the 10-cm deep sample out using a pre-cleaned trowel, spoon or similar tool.
- Fill out label on bottle with the following information: sample number (each sample container must have discrete number), sample type, date, location of sampling, analysis to be conducted, time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- Use 8-oz. Screw-cap jar with Teflon liners, preferably glassware pre-cleaned and provided by the analytical laboratory. Fill jar completely with soil/sediment if possible; a minimum of 100-ml is required for analysis. Replace cap and make sure cap cover is tightly sealed. As an alternative, the core can be left in the core sampler and frozen on dry ice at the site. This allows the sediment stratigraphy, if any, and depth of visible oil penetration into the sediment to be documented. The core can be sectioned, if needed.
- Wash all equipment that will be used to collect sample with solvent (preferably isopropyl alcohol or methanol) or Alconox detergent and rinse completely with distilled water prior to use and between each sample collection to prevent cross-contamination of samples. Equipment to be cleaned includes shovels, spatulas, mixing bowls, corers, etc.
- Place sample in an ice chest with dry ice if available or, at minimum, with frozen "Blue Ice" to maintain a temperature of 4° C. If Blue Ice is not available, use ice cubes or block of ice. Transfer to a freezer for temporary storage at –20° C.

- Samples should be sent to the laboratory within 24-48 hours, if possible, and held at -20° C prior to extraction. Maximum holding time prior to extraction and analysis is 14 days.
- Mark the location of the sample sites using stakes and flagging distances/directions to permanent landmarks, etc. so the stations can be relocated for subsequent sampling programs.

For all contaminated soil/sand sampling, the following guidelines will be used:

a) Samples will be collected in pre-cleaned glass containers from an accredited analytical laboratory.

b) Containers will be labeled with date and time, sample type, sample location, unique sample number, and the samplers' signature.

c) Samples will be collected with the assistance of a clean scooping device (either a one-time disposable or a device that can be decontaminated between each sample).

d) Reusable sampling equipment will be decontaminated with isopropyl alcohol and water between the collection of each sample.

e) Nitrile or other protective gloves will be worn during the collection of each individual sample and changed between samples.

f) Proper chain of custody protocol will be followed.

The samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected.

2.3 Sampling Protocol for Surface Water

The purpose of sampling the near surface water column (upper 1-meter) in unoiled and oiled areas is to determine the concentration of petroleum components and what portion of the petroleum hydrocarbons present may come from the spilled oil as a result of physical mixing, dissolution, adsorption to suspended particles, etc.

Petroleum components in the water column may be at concentrations that could be toxic to fish, crustaceans, plankton, and eggs and larvae, all of which may constitute substantial injury and thus monetary damages equal to the cost of providing equivalent services in the Natural Resource Damage Assessment (NRDA) process. The concentration of petroleum hydrocarbons in the upper 1-meter of the water column is highest in the first few hours to a day following a release of fresh oil, and decreases very rapidly. Therefore, first responders should collect water samples during the first day of the spill to document the time-concentration relationship.

The **first** priority is to collect samples in areas that are not yet affected by the oil, but which are expected to be affected based on trajectory analyses and professional opinion of the Unified Command. Begin with the sensitive areas that are likely to be oiled within the first few hours to 1-2 days.

The **second** priority is to collect samples in oiled areas, provided it is safe and permitted by the Unified Command. Within the oiled areas, the first priority is to sample in the main oil slick followed by sampling at the leading margin where the oil slick has begun to break up and the oil has begun to weather. If oil is already ashore, some sampling could be conducted in the offshore area adjacent to the oiled shoreline.

The **third** priority is to identify and sample reference areas. These are areas unlikely to be affected by the spill and that are similar to the affected areas. In general, the selection and sampling of reference areas should be left to Tesoro environmental personnel or their NRDA consultant in consultation with the trustees as appropriate.

The second and third priority samples should be collected within 48 hours after the spill, if practical. These samples may be collected by Tesoro, or environmental contractors, if they arrive within the first 24-48 hours.

Discrete samples should be collected in the priority sequence described above, beginning on the first day of the spill and at least once per day thereafter until Tesoro contractors arrive.

At each sample station, sampling should meet the following criteria:

- Three replicate samples from each sample depth (e.g., 0.5 meter, 2 meter, and 5 meter below water surface) will be collected.
- Samples should be taken as close in time and location as practical.
- Samples taken about 0.5 to 1-meter below the surface; additional sample depths may be taken at 2-meters and 5-meters below the surface if time and equipment allow, and if there has been sufficient wave energy to suggest that oil may be physically dispersed into the water column.
- Sampler to be cleaned between each sample (especially important for sample obtained in the oiled areas) using solvent (preferably isopropyl alcohol or methanol) or Alconox detergent plus distilled water rinse.
- Sampler must not be deployed directly through oil at the surface. If it is, the sampler must be decontaminated before being used again.

Samples should be obtained with a water sampler capable of obtaining at least 1-liter of water. The sampler should be deployed from the surface and kept closed during deployment and retrieval. Any visible oil at the water surface should be “moved aside” with a water hose, compressed air, or a paddle before sampler deployment. The sampler should be cleaned between samples. The preferred sampler is a Marble or Valskon sampler. If this sampler is not available, samples can be obtained at approximately 0.5-1.0 meter below the surface by holding a 1-pt or 1-gal jar under water, opening it, and closing it after the jar is filled. The sample can be poured into the specific sample jars with the volatile organic analysis (VOA) sample collected first.

Two types of samples will be obtained for chemical analyses: one for VOAs and one for TPH and polycyclic aromatic hydrocarbons (PAHs). For VOA:

- Use only standard, pre-cleaned, 40-ml glass, screw-cap, VOA vials with Teflon-faced silicone septum and containing 2 drops of hydrochloric acid as preservative. These will be provided by the laboratory.
- Fill out label on bottle with the following information: sample number, sample type (e.g., water), date, location of sampling, analysis to be conducted (e.g., volatile organic), time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- After retrieving the field sample, pour the VOA sample gently into bottle to prevent formation of air bubbles in the vial as it is being filled. Fill vial until a meniscus is formed over the lip of the vial. Cover with screw-cap lid. After tightening the lid, invert the bottle and tap to check for air bubbles. If bubbles are present, pour out the sample, add 2 drops of hydrochloric acid, and refill with sample.
- Seal each VOA vial in a separate plastic bag to prevent cross-contamination.
- Place sample in small ice chest with frozen "Blue-Ice" or ice cubes to maintain a temperature of 4° C.
- Transfer to refrigerator for storage at 4° C and send samples to analytical laboratory within 24-48 hours, if possible (maximum holding time prior to extraction and analysis is 7 days). Do not freeze.

For TPH and PAHs:

- Use only pre-cleaned amber glass bottles, preferably from an analytical laboratory. Five ml of 6N hydrochloric acid per liter of water should be added as a preservative. Preferably, the acid will be added by the laboratory; if not, it will need to be added by the field sampling team. Use one-liter, glass, screw-cap bottles with Teflon liners.
- Fill out label on bottle with the following information: sample number (each sample container must have a discrete number), sample type, date, location of sampling, analysis to be conducted (TPH and PAHs), time of collection, and collector's name. Use permanent marker for labeling. Cover label with clear tape. Complete sample collection data sheet and chain-of-custody form.
- Carefully fill bottle completely with water. Replace the cap and check to make sure screw-cap covers are tightly in place.
- Place sample in small ice chest with frozen "Blue-Ice" to maintain a temperature of 4° C. If "Blue-Ice" is not available, use ice cubes or block of ice.
- Transfer to refrigerator for storage at 4° C and send samples to the analytical laboratory within 24-48 hours, if possible. Do not freeze water samples.

The following guidelines will be used for all surface-water sampling:

a) Samples will be collected in pre-cleaned glass containers obtained from an accredited analytical laboratory. All surface-water samples will contain a minimum volume of one liter.

b) Containers will be labeled with the date and time, sample type, sample location, unique sample number, and signed by the sampler.

c) Samples will be collected with the assistance of a clean collection device such as a Nanson bottle or Valskon sampler (either a one-time disposable or a device that can be decontaminated between each sample).

d) Reusable sampling equipment will be decontaminated with isopropyl alcohol and deionized water between collection of each sample.

e) Nitrile or other protective gloves will be worn during the collection of each individual sample and changed between samples.

f) Proper chain of custody protocol will be followed.

Surface water samples collected will be stored in the field in chilled coolers (4° C). Samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected.

2.4 Sampling Protocol for Tissue

Tissue samples may be collected to support various objectives during a natural resource damage assessment. Samples may be taken in proximity to oiled sediments or oil strandings to assist in evaluations of weathering and fingerprinting of oil; to investigate an exposure pathway; beneath floating oil to determine the degree to which constituents are being released into the water column; to support exposure and transport modeling; and for other reasons. Other samples may be taken for biological assessments.

Prior to collecting samples, a plan should be developed that clearly establishes sampling objectives including the types and locations of samples to be collected. This protocol establishes the procedures that ensure sample integrity and the reliability of chemical characterizations as evidence in a damage assessment case.

Other parameters – see group-specific work plan

Sampling Equipment

- Shovels, dredges, tongs, grabs or gloved hands are used to collect shellfish from intertidal and subtidal areas. For infaunal species, a screen is useful for sieving out sediment.
- All non-disposable sampling gear must be decontaminated before using and between sampling stations. Wash with laboratory-grade detergent and then rinse well with clean water. If taking multiple samples at an oiled station, decontaminate sampling equipment between samples.

Tissue Sample Collection Methods

- Take relevant photos at all sites before sampling (see GPS and photography bullet below).

- Attached organisms are pried away from the substrate with a knife, trowel, etc. Infaunal samples should be rinsed with clean site water to remove sediment. Collect live animals (shells intact and tightly closed) if possible. Note the condition of dead animals if collected.
- Wear nitrile or other non-contaminating gloves and change gloves after each sample to avoid cross-contamination.
- Refer to workgroup sampling plan for approximate number (volume) of individuals needed to obtain the estimated 30 g tissue wet weight for the target species. Don't shuck or filet!
- If fish or shellfish are collected only for fingerprinting purposes, individual size is not important so long as the required mass is gathered. For other objectives, e.g., morphometrics, gonad assessments, harvest or food-chain exposure, individuals may need to be an appropriate or similar size. If required by work plan, record individual size.
- Group all individuals for a sample into aluminum foil and placed in double Ziploc bags; or without foil, into a certified-clean glass jar. For bags, the inner bag is labeled with marker pen and a waterproof sample label placed between the two bags. Jars are labeled on an adhesive label and directly on the lid. Use clear tape to protect the paper label.
- Avoid sources of contamination such as exhaust fumes and engine cooling systems on vessels. Work up-wind of any exhausts. Segregate dirty/clean areas. Lay out clean substrates to work on and replace frequently. Take precautions so as not to cross-contamination of the site from oil on boots and shovels.
- If possible, sample least-oiled areas first, followed by the more contaminated areas to minimize risk of cross-contamination. Avoid sampling from creosoted pilings.
- Immediately place all samples in coolers on ice. Ship samples to the laboratory as soon as possible; samples should be received by the lab for processing or freezing within 7 days of collection. If holding samples for several days is unavoidable samples may be stored frozen before shipping to the laboratory.

2.4 Suggested Analyses

For all oil samples or samples contaminated by released oil, the following are recommended analyses:

- Volatile Organic Compounds
- Polycyclic Aromatic Hydrocarbons
- BTEX
- Total Petroleum Hydrocarbons (water only).
- TOC (sediment), % lipids and % water (tissues) as appropriate.
- Physical analyses for oil samples may include: gravity, pour point, flash point.
- Analyses for waste disposal will differ from NRDA analyses as indicated in the Waste Management Plan.

Samples will be transported in specially designated portable coolers. These supplies will be provided by Tesoro's accredited analytical laboratory. Tesoro's local contract analytical laboratory is:

Company name: Analytical Resources
Company address: 400 9th Avenue N, Seattle, WA 98109
Phone: (206) 695-6211
Fax: (206) 695-6201
Contact Name: Mary Lou Fox

OR

Company name: TestAmerica Portland
Company address: 9405 SW Nimbus Avenue
Beaverton, OR 97008-7145
Phone:503.906.9200
Fax: 503.906.9210

Record the presence of oil, weather conditions, etc. in field notes. Record GPS coordinates for each sample.

Take relevant photographs of the sampling locations and sample collection itself if possible. Make sure each photograph or series can be later associated with the corresponding sampling location GPS (see NRDA Field Photography Guidance). Do not delete, open or alter any photos.

Containers will be labeled with date and time, sample type, sample location (waste storage area number), unique sample number, and the samplers' signature. Labels will be provided by the contract analytical laboratory.

The samples will be stored in the field in chilled coolers (4° C). The samples will then be moved to a refrigerator or delivered to an analytical laboratory within the sample holding time specified for the analytical methods selected. Proper chain of custody protocol will be followed.

All sampling, COC, shipping, GPS and photo files are submitted to the data manager.

Section 3. Proposed Initial Sampling

Two sample groups are proposed; upstream and downstream. The downstream group will sample ahead of the oil in unoiled areas and the upstream group will collect reference data and work downstream as time allows.

The downstream group will begin at RM 50 and sample near each shoreline and in the middle of the river for a cross sectional sample of three sites. The nearshore samples should be in approximately 10 feet of water or less. At each site, surface water will be collected at depths

of < 1 meter, 2 and 5 meters (mid river only). A sediment grab sample will also be collected at each site. Two additional sediment samples will be collected on each river bank at the water level. This equals approximately 9 water samples and 5 sediment samples at each transect. This will be repeated every 5 miles up to the facility. Sample vessels should work from clean areas to dirty areas to avoid contamination of potentially clean samples.

The upstream group should collect two reference transect data sets upstream from the spill and work downstream to meet the other group as time allows.

This effort should be repeated after several days and again in the future as dictated by data results and more formal NRDA plans.

Tissue sampling will be dictated by formal NRDA plans; however, background data may be important. Tissue at several locations upstream and downstream is preferable.

TABLE 1
ENVIRONMENTAL SAMPLE COLLECTION SUMMARY
EVENT NAME: _____

Sample ID Number	Sample Collection Date	Sample Collection Time	Type of Sample [1]	Sample Collection Location	Intended Analyses [2]	Sampler's Name	Comments

[1]: SAMPLE TYPE
S=SOIL
SED=SEDIMENT
OIL=NEAT OIL
TAR=TAR BALLS/PATTIES
W=WATER

[2]: INTENDED ANALYSIS
VOA=VOLATILE ORGANICS
PAH=POLYSYSLIC AROMATIC HYDROCARBONS
TPH=TOTAL PETROLEUM HYDROCARBONS
HOLD=SAMPLE COLLECTED BUT HELD FOR FUTURE ANALYSIS

DEPARTMENT OF ECOLOGY
State of Washington

Spill Prevention, Preparedness, and Response Program
WASHINGTON STATE
Department of Ecology
Spill Prevention, Preparedness, and Response Program
Response Section
P.O. Box 47600, Olympia, WA 98504-7600
Office Phone: (360) 407-7455, Fax: (360) 407-7288 or toll free 1-800-664-9184

Recovered Oil Data Form

1. General Spill Information

Spill Date:_____ Spill Time (24 hr clock):_____ Potential Liable Party (PLP):_____

Clean-up Contractor (if different from PLP)_____

Spill Source_____ Spill Location_____

Oil Common Name (circle): Diesel/Gasoline/Jet Fuel/Kerosene/Lube oil/hydraulic oil/transformer mineral oil/bunker oil/ intermediate fuel oil #_____/crude oil_____/asphalt/vegetable oil/other_____

Non-Persistent ☐ *WAC 173-183-100(25)* Persistent ☐ *WAC 173-183-100(30)*

Specific Gravity_____ Specific Gravity_____(lab data attached yes ☐ no ☐)

Report all volumes in gallons

2. Mechanical/Hand Recovery Operations (skimmers, vacuum trucks, barges, other temporary storage devices)

Date & time recovery operations ended for liquids in storage device _____

Recovered water-oil mixture storage device location _____

Storage Device volume before recovery operations (ideal is zero) _____

- Storage device contents description _____
- Gallons of water _____
- Gallons of oil _____

Storage device volume after recovery operations _____

- Settling time (duration) _____
- Total water volume _____
- Total oil volume _____

For settling times less than 12 hours

- Depth of oil layer in storage device _____
- Storage device dimensions _____
- Percent oil content of water fraction _____
- Lab data attached from 2 samples of water fraction for each storage device yes ☐ no ☐

3. Oleophilic Sorbent Material recovery operations

Date & time used sorbent materials were removed from the water _____

Recovered sorbent material properly handled/stored (proper segregation, double bagged, sealed from rain) yes ☐ no ☐

Storage Location of spent sorbent material _____

Volumetric Data

- Total gallons of water-oil mixture squeezed from material _____
- Total water recovered _____
- Total oil recovered _____

Gravimetric Data

- Total weight of oiled sorbent material _____
- Total weight of pre-oiled sorbent material _____
- Total weight of oil in sorbent material (using 25% as water content – unless demonstrated to be different) _____
- Total gallons of oil in sorbent material _____

4. Oiled debris data

Date & time oiled debris was collected from the water's surface _____

Debris collection areas (List locations - only debris collected from the water's surface) _____

Oiled debris segregated from other oiled wastes yes ☐ no ☐

Water content minimized yes ☐ no ☐

Percent oil content _____

(Lab data attached for minimum of 2 samples from each collection area) yes ☐ no ☐

- Total weight of oiled debris _____
- Total weight of oil in debris _____
- Total gallons of oil in debris _____

5. Signature Block

I attest that the above information is accurate to the best of my knowledge _____

PLP or Representative Signature Date

I accept the above information and have made the following determination:

Effective Containment yes ☐ no ☐ Shoreline contact of spill yes ☐ no ☐

Signature of State On-Scene Coordinator _____ Date_____

This form complies with the requirements of WAC 173-183-870.

For questions regarding this form or the Oil Recovery Credit Process contact:
Dale Davis (360) 407-6972 or Alison Meyers (360) 407-7114

Submerged Oil Assessment and Recovery Plan

Vancouver Energy Dilbit Exercise

A dilbit is a bitumen diluted with one or more lighter petroleum products, typically natural-gas condensates such as naphtha. Diluting bitumen makes it much easier to transport in pipelines, rail and vessels. Dilbits are heavy oils, but the fresh oil is buoyant on fresh and salt water. A portion of a dilbit spill can become submerged like other heavy crude oils through sedimentation and weathering processes. The majority of oil in the river is likely to be collected or strand on the shoreline in several days before the possibility of a portion becoming submerged by natural weathering processes. There is, however, the potential for a portion of the spilled product to eventually become submerged below the water surface or sunken on the river bottom. This plan discusses methods of detection, delineation, recovery and endpoint verification necessary to remediate submerged and sunken oil if it occurs.

Assessment and Delineation

A combination of high resolution orthorectified side-scan sonar survey imagery (455 kHz) and ground truth verification with benthic sampling techniques will be used to assess and delineate the sunken product if necessary. Bathymetric data and/or a high resolution bathymetric survey may be needed in conjunction with the side scan to provide increased spatial awareness, with a particular focus on precise depths to assist in the calibration and guidance of the recovery efforts. Professional dive team efforts may be employed to characterize the substrate and identify any potential subsurface habitat which could complicate recovery efforts if they become necessary.

The initial side scan will focus on depositional and other areas of increased likelihood for sunken oil presence. Areas of suspected oil identified in side scan images will be surveyed by sorbent dragging techniques. Attached sorbent pads to heavy chain and line (Figure 1) are lowered to the river bed or sea floor and dragged for short distances (transects) and examined for the presence of oil. GPS positions of the transect are recorded and oil presence/absence is mapped. Oil identified on sorbent pads is retained for sample analysis as necessary. The mapping of concentrations (percent oil distribution) is completed using a combination of side scan and sorbent delineation results. Oil coverage on the bottom is expressed as percent cover in discrete polygons for potential operational recovery.

Figure 1. Sorbent attached to heavy chain for dragging.

The assessment will be completed in discrete river segments or polygons. Benthic oil cover will be characterized into percent distribution ranges (Table 1). A Net Environmental Benefit Analysis (NEBA) as discussed below will be completed to determine if oil should be recovered based on the oil cover score (Table 1), the likely impacts to aquatic species and the effects of recovery options. In order to evaluate the NEBA, the impacts of recovery options are considered.

Table 1. Benthic Oil Cover Categories. (from: Kalamazoo River NEBA, August 8, 2012)

Categories	Estimated (%) oil cover
Low	0-10
Moderate	10-30
High	30-60
Very High	>60

Recovery Options

There are a number of recovery actions possible. The recovery actions in Table 2 may be employed depending on the habitats affected, the response action impacts and the likelihood of successful recovery.

Table 2. Submerged Oil Recovery actions that may be considered for the Columbia River system.

Recovery Action	Description
Monitored natural attenuation	Requires no active recovery but relies on natural attenuation and biodegradation. Uncertain effects from oil toxicity and smothering. Uncertain rates of biodegradation and weathering.
Enhanced deposition and recovery	Used in depositional areas where submerged oil is allowed to accumulate naturally or enhanced through placement of structures. Increased deposition monitoring is required. Dredging/hydrovac is performed after accumulation reaches desired amount. Permeable in-water fabric may also be used to collect neutrally buoyant oil.
Agitation /Collection	Used in depositional areas, various mechanical devices are used to agitate the oil including jets, chain drag, and rototiller. Involves disturbing aquatic vegetation and removing large wood in shallow areas before application. Typically disturbs the top 1-2 ft of sediment. Involves heavy boat traffic (noise and bank erosion) for agitation and associated sweeping. Oil/sediment plume affects turbidity and smothering to downstream areas. Potential remobilization of oil with limited ability to recover
Dredging/vacuum	Used in depositional areas with high percent benthic oil cover
Clamshell –excavation	Spatially enabled environmental clamshell. Requires rapid mobilization and high accuracy spatial data in order to enable recovery of sunken oil in a potentially dynamic environment.

Dewater/excavate	Used in shallow water or frequently inundated areas near channel margins, wetlands, and floodplain environments. Areas conducive to dewatering are limited on the CR.
Sweep/push	Similar to agitation but within the main river channel, with remobilization of oiled sediments to downstream sediment traps or impoundments. Uses hydrovac, dredging, or passive collection for removal.
Scraping	Scraping is limited to the surface layer (<6 in). This could only occur in shallow water or dewatered areas during summer months
Passive collection	Passive sorbents deployed by staking on bank/anchoring in water (VSORS). May employ multiple types and arrangement of boom.

Net Environmental Benefit Analysis for Recovery Operations

The NEBA is strictly applicable for determining ecological benefits for recovery actions and identifying cleanup endpoints, after the human health and safety factors are considered. The NEBA does not encompass other designated uses of a water body, such as recreational or water withdrawals.

The overall risk of exposure/impact to a particular resource from each of these pathways (including response action impacts) is a function of the magnitude of impacts and the recovery of that resource to baseline/reference levels (Table 3). The magnitude of impacts may vary from low to very high (Table 4, assumed from oil cover in Table 1). The length of recovery may vary from very short to long (Table 5). Because multiple pathways may simultaneously impact a single resource, the Relative Risk of the overall impact of specific oil recovery actions focuses on the most detrimental pathway mechanism(s). The final Relative Risk Ranking (Table 6) may range from low impacts with very short-term recovery (4D) to very high impacts with long recovery (1A).

Table 3. Potential exposure/impact pathways.

Exposure Pathway	Example	Source	Pathway Code
Aqueous Exposure	Inhalation/ingestion of whole oil droplets, dissolved components, or suspended particulates (e.g., flakes) in the water column	Globules, sheens, dissolved oil, flakes	1
Sediment Exposure	Exposure to oil globules in sediments or residual oil in sediments	Oiled sediments, macro/micro pore oil	2
Physical Trauma	Trampling, mechanical impact from equipment, impacts from removal	Mechanical stressors	3
Physical Oiling/Smothering	Direct contact with oil/oil residues	Submerged globules, surface mats and patties on sediments	4

Indirect	Food web, ingestion of contaminated food, increased water column turbidity, increased noise, impacts associated with boat traffic, sediment smothering, bank erosion, loss/displacement of prey	Contaminated food, habitat disturbance	5
Exposure does not occur			NA

Table 4. Anticipated degree of resource impact (Score) relative to baseline/reference levels (based on oil cover).

Categories	Estimated level of impact relative to baseline/reference (%)	Score
Low	0-10	D
Moderate	10-30	C
High	30-60	B
Very High	>60	A

Table 5. Anticipated length of recovery to baseline/reference levels.

Categories	Estimated length of recovery (years)	Score
Very short-term	< 1 year	4
Short-term	1-3	3
Intermediate-term	3-7	2
Long-term	>7; does not recover	1

Table 6. Relative Risk Ranking Matrix based on Tables 4 and 5.

		Length of Recovery			
		Very short-term	**Short-term**	**Intermediate-term**	**Long-term**
Degree of resource impact	**Low**	4D	3D	2D	1D
	Moderate	4C	3C	2C	1C
	High	4B	3B	2B	1B
	Very High	4A	3A	2A	1A

Aids & References

API 2016 (in press), Sunken Oil Detection and Recovery Response Guide

API 2016 (in press), Sunken Oil Detection and Recovery Operational Guide

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1. Incident Name Tesoro Vancouver Energy Spill Drill #2	2. Date and Time of Message **03 Jan 16 1330**	**GENERAL MESSAGE** **ICS 213-OS**

3. TO: Command Staff, Planning, Resource, Staging, OPS ICS Position

4. FROM: OPS ICS Position

5. Subject: Preparations for submerged oil recovery

6. Message

Anchor Environmental has been contracted to develop a sampling plan for the possibility of spilled oil collecting sediment and submerging. Resources have been identified and will begin to mobilize to the Vancouver staging site on 06 Jan 16. Anchor Env will work within the Environmental Section. All assets identified for the removal of submerged oil will not be re-assigned until further notice. These assets include equipment and personnel from:

Anchor Environmental – Sample

Global Diving and Salvage – Dive Teams, ROV, Side Scan Sonar

Fred Divine Diving and Salvage – U/W Vacuum, Dive Team

Manson Marine Construction – Silt Curtain

Gravity Environmental – Vessels, Sonar

T & T Marine – Shallow Water Dredge

Hicky Marine Services – Dredge/Tug Boats

Tidewater Barge Lines – Bin Barges/Tug Boats

8. Signature/Position (person replying) **Date/Time of reply**