

Department of Ecology Sample Technical Manual

Technical Manual Description: Vessel oil spill contingency plan holders are required to submit technical manuals if they operate or transit in the Neah Bay, Cathlamet, or San Juan Islands planning standard areas. The technical manual must include all of the equipment appropriate for the operating environment that is necessary to meet the recovery and storage requirements for the worst case discharge through a forty-eight hour time frame. The technical manuals will be used to inform the five year Best Achievable Protection (BAP) Review cycle by supporting Ecology's determination that the response systems, training levels, and staffing demonstrate BAP.

Technical Manual Planning Standard: Neah Bay

Plan Holder(s) Covered by the Manual: List all plan holders covered by the manual.

Worst Case Discharge: The Neah Bay Technical Manual is based on a worst case discharge of 813,000 bbls

Recovery and storage volume requirements based on the worst case discharge

	Boom	Recovery	Storage	Open Recovery	Open Boom	
Hour 2	1,000	0	0			
Hour 3	3,000	0	0			For the Neah Bay Planning Standard Area all resources used to meet the six hour standard must be resident and open water capable.
Hour 4	3,000	0	0			
Hour 6	9,000	12,500	12,500	12,500	4,000	
Hour 12	29,000	36,000	54,000	21,600		
Hour 24	49,000	48,000	96,000			
Hour 48	49,000	60,000	96,000			

Oil types: This technical manual covers oil groups 1-4

Technical Manual Planning Assumptions

Workboats will be used only once

Vessels and boom for GRPs are not represented in the technical manual. The focus of the manual is the recovery and storage systems.

Training Level Personnel Described in the Recovery and Storage Tactics

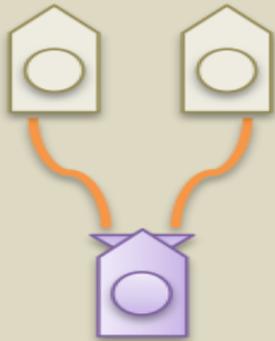
Describe the positions and training requirements to support the response and storage systems presented in the manual.

Updates and Distribution

Technical manuals are used as planning and training documents. The Sample Department of Ecology Technical Manual is posted to the Ecology Technical Manual Guidance Page for download by all interested parties. If lessons learned from its use in training or drills results in the identification of a necessary update to the manual the updates are conducted annually and a notice is submitted to the Spills Program Listserv that an updated manual is available for use.

Neah Bay Technical Manual- (6 hour)- Recovery System Detail

Response System-01



Tactic purpose and description: The purpose of this tactic is on-water recovery of oil in an open water operating environment. The OSRV2 Arctic Tern is enhanced by the WB3 Loon and WB3 Mallard using two 300' legs of B2 boom in a V formation. In order to support continuous recovery of oil this system is off loaded to on-water storage. See Storage System-01

Operating environment: Open Water waves 0-6 ft.

Night Operations (describe how this system is capable to support night ops): This recovery system can be used to support night operations

Oil type skimmer is optimized for: Group 2-4

Minimum number of personnel for a 12 hour shift (also list 24 hour shift if the system conducts night operations):
6/12

Recovery Device Detail:

Ownership	wrrlID or other ID	Resource	Kind Type	Indentification	Specifications	Recovery EDCR	Liquid Storage	Boom	People	Home Base	State	Staging
PRC/ dedicated	3108	OSRV	OSRV2	ARCTIC TERN	Skimmer,JBF	6000	276	0	3	Neah Bay	WA	In Water
PRC/ dedicat	7528	Skimmer P	SK1	ARCTIC TERN	Skimmer,STRESS V	15840	0	0	0	0	Neah Bay	WA

Associated Vessel and Boom Detail:

Ownership	wrrlID or other ID	Resource	Kind Type	Indentification	Specifications	Recovery EDCR	Liquid Storage	Boom	People	Home Base	State	Staging
PRC/ dedicated	3099	Vessel	WB3	LOON	Work Boat, 38'	0	0	0	2	Neah Bay	WA	In Water
PRC/ dedicated	3097	Vessel	WB3	MALLARD	Work Boat, 38'	0	0	0	2	Port Angeles	WA	In Water
PRC/ dedicated	3100	Boom	B2	LOON, Boom, Kepner	20"	0	0	1500	0	Neah Bay	WA	WB LOON

Offloading narrative and pump rate description: The recovery system would be offloaded to the barge 380 when the temporary storage associated with the Artic Tern is full. Transfer pump on the barge would be used. Transfer rate of 100 gpm.

Mobilization Details

Mobilization method for recovery device (land/water): water

Mobilization method for each workboat(s): water

Transit speeds (only list if an alternative was granted by Ecology): Arctic Tern 9 kts, Loon 24 kts, Mallard 24 kts

Time for the entire system to arrive onscene (mobilization for all resources detailed above): 3 hours

Support resources for mobilization: None required

Support resources for deployment: None required

Photographs of equipment:



Arctic Tern



Loon



Mallard

Neah Bay Technical Manual- (12 hour)- Storage System Detail

Storage System-02



Tactic purpose and description: The purpose of this tactic is to provide open water capable on-water storage capacity for recovered oily water. The Kittiwake is deployed using a tug available under letter of intent.

Operating environment: Open Water (waves 0-6 ft.)

Night Operations (describe how this system is capable of supporting night ops): This recovery system can be used to support night operations

Oil type: Group 1-5

Minimum number of personnel for a 12 hour shift (also list 24 hour shift if the system conducts night operations): 3/6

Storage Device Detail:

Ownership	wrrIID or other ID	Resource	Kind Type	Indentification	Specificat ions	Recovery EDCR	Liquid Storage	Boom	People	Home Base	State	Staging
PRC/dedicat ed	7510	Storage	TB2	OSRB, 380	Tank Barge	0	38000	0	0	Port Angeles	WA	In Water

Associated Vessel and Boom Detail:

Ownership	wrrIID or other ID	Resource	Kind Type	Indentification	Specificat ions	Recovery EDCR	Liquid Storage	Boom	People	Home Base	State	Staging
LOI/ NON-dedicated	LOI	Tug	Tug2	LOI	>1,500 HP	0	0	0	2	Puget Sound	WA	In Water

Offloading narrative and pump rate description: the OSRB 380 would be offloaded to shoreside storage when full. Transfer pump on the barge may be used. Transfer rate of the maximum pumping rate of 90 bbl/min unless the receiving facility has a limitation.

Mobilization method for recovery device (land/water): water

Mobilization method for the barge: water

Transit speeds (only list if an alternative was granted by Ecology): OSRB 380 alternative transit speed 8 kts

Time for the entire system to arrive onscene (mobilization for all resources detailed above): 9 hours (3 hours mob for non-dedicated tug) plus transit time from Port Angeles to Neah Bay.

Support resources for mobilization: N/A, the barge is staged in the water.

Support resources for deployment: a Non-dedicated tug would be used to deploy the OSRB 380

Photographs of equipment:



OSRB 380

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