# *Pre-Spill SCAT River segment survey form*

**1 GENERAL INFORMATION**

Area:_____ Location: _____

Survey Date:_____ Survey Time: _____

Observer Name:_____

Participants: _____

Segment:_____

Seasonal Water Level: low/mean/bank full/overbank flow

Weather/Wind: _____

**2 PHYSICAL CHARACTER**

Segment Length:_____m

Left – Right Bank (Circle)

Channel Width (water):_____m

Bank Width:_____m

(water line to top of UB)

*POTENTIAL OIL BEHAVIOR:*

natural alongshore movement barrier: yes / no

man-made alongshore barrier: yes / no

slough or embayment: yes / no

shoals: yes / no

meander with point bar: yes /no

meander with cut banks: yes / no

flood-plain valley: yes / no

pebble-cobble shoreline/penetration potential: yes / no

riprap, boulder shoreline/penetration-remobilization potential: yes / no

marsh-wetland/potential for oiling meadow area: yes / no

other:

| SUBSTRATE TYPE (from list below) | *LB | *UB | *OB |
|---|---|---|---|
| Bedrock Cliff/Ramp: Man-Made Solid | | | |
| Bedrock Platform | | | |
| Fine- to Med .-grained Sand Beach | | | |
| Coarse-grained Sand Beach | | | |
| Mixed Sand, Pebble, Cobble Beach | | | |
| Pebble, Cobble Beach | | | |
| Boulder/Riprap | | | |
| Man-Made Impermeable (wharf: pilings) | | | |
| Mud or Sand Flat | | | |
| Vegetated Bank | | | |
| Wetlands | | | |
| Reed Beds | | | |

* OB = overbank; UB = upper bank; LB = lower bank

**VALLEY - CHANNEL CHARACTER**

| | | |
|---|---|---|
| ____cliff | ____flood plain | |
| ____canyon | ____braided | ____riffle |
| ____straight | ____ox bow | ____pool |
| ____leveled | ____cascade | ____glide |
| ____meander | ____rapids | ____point bar |

**3 RESOURCE ISSUES:**

| | *Primary Resource(s) at Risk* | *Response Constraints* |
|---|---|---|
| Environmental | | |
| Cultural | | |
| Human Use/ Economic | | |

**4 OPERATIONAL CHARACTERISTICS**

Surrounding Human Use Activities (if any): Natural / Agricultural / Commercial / Residential / Recreational

Potential nearby access: fixed-wing_____; helo.pad/landing_____; boat landing_____; ATV_____

Access constraints/limitations:_____

Describe the amount of pre-impact debris pickup/relocation work? ____(light / moderate / heavy)____ No. of bags? _____ (estimate # of bags)

| | | |
|---|---|---|
| remote: yes / no | channel bars/shoals/reefs: yes / no/ ? | narrow riverbank: yes / no |
| staging areas: yes / no | deep water: yes / no / ? | river bank suitable for machinery: yes / no / ? |
| road access: yes / no / ? | strong currents: yes / no | backshore cliff: yes / no |
| alongshore access: yes / no / ? | wetlands: yes / no | scrub or wooded banks: yes / no |

Comments:_____

**5 OPERATIONAL SAFETY CONSIDERATIONS**

*Note Safety Constraints beyond Normal — or N/A:*_____

# *Pre-Spill SCAT segment survey form (page 2)*

**GENERAL INFORMATION** Survey Date:_____

Area:_____ Location:_____ Segment:_____

**6 RESPONSE GOALS**

*SEGMENT PROTECTION OBJECTIVES:*

_____ **Prevent contact with shore or resource(s) at risk**

_____ **Minimize contact**

_____Prevent oil movement to adjacent segment(s)

_____Contain stranded oil

_____Prevent oil transport into inlet, estuary, or channel

_____Other:

*SEGMENT PROTECTION STRATEGIES:*

_____Contain/recover oil on water

_____Alter direction of movement of oil on water

_____Prevent oil movement (landward) on flooding tides

_____Trap/contain and collect oil at the shoreline

_____Prevent remobilization of stranded oil

_____Prevent overwash into the backshore or a lagoon

_____Pre-impact shoreline debris removal

_____Other:

*SHORELINE CLEANUP/TREATMENT OBJECTIVES:*

_____**Allow natural recovery**

_____**Restore shore to pre-oiling condition**

_____**Accelerate natural recovery**

_____Restore with minimal removal of material

_____Minimize oil remobilization

_____Minimize damage to dune, marsh, or peat bog

_____Other:

*SHORELINE CLEANUP/TREATMENT STRATEGIES:*

_____Monitor

_____Act quickly to remove stranded oil before burial

_____Remove bulk oil only

_____Minimize waste generation using *in-situ* treatment methods

_____Manual techniques preferred

_____Salt-marsh fringe/meadow treatment strategies

_____Man-made backshore riprap treatment techniques

_____Other:

**7 METHODS** ---------- *(check all that are appropriate and feasible)* ----------

(mark "?" if possibly useful; mark "X" if not recommended or inappropriate)

*POTENTIAL PROTECTION OPTIONS:*

____1. Nearshore containment/recovery

____2. Nearshore redirection (away)

____3. Nearshore redirection (towards)

____4. Exclusion boom

____5. Shoreline (intertidal) protection boom

____6. Shoreline barrier/berm

____7. Contact barrier

____8. Channel boom/barrier

*POTENTIAL CLEANUP/TREATMENT OPTIONS:*

____1. Natural recovery

____2. Flooding

____3. Low-pressure, cold wash

____4. Low-pressure, hot/warm wash

____5. High-pressure, cold wash

____6. High-pressure, hot/warm wash

____7. Steam cleaning

____8. Sandblasting

____9. Manual removal

____10. Vacuums

____11. Mechanical removal

____12. Vegetation removal

____13. Passive sorbent

____14. Tilling/Aeration

____15. Surf washing/Sediment reworking

____16. Burning

____17. Dispersants

____18. Shoreline cleaners

____19. Solidifiers

____20. Bioremediation/Nutrient enrichment

**8 OPERATIONAL ISSUES**

*SPILL SITE ACCESS: (Enter "No" or "Yes")*

| To/From: | Trucks | Heavy Equip. | 2X4 P/U | Backhoes | ATVs | > 50 ft. Vessel | < 15 ft. Runabouts |
|---|---|---|---|---|---|---|---|
| Staging Area/ Backshore | | | | | | | |
| Intertidal | | | | | | | |
| Subtidal Water | | | | | | | |

*HEAVY EQUIPMENT USE FEASIBILITY: (Enter "Good", "Fair", "Poor", or "No" based on ability to operate)*

| | Grader | Bulldozer | Front-end Loader | Backhoe | Bobcat | 4x4 P/U | ATVs |
|---|---|---|---|---|---|---|---|
| Access Alongshore | | | | | | | |
| Bearing Capacity | | | | | | | |
| Beach Slope/Width | | | | | | | |

Maximum Distance to Temporary Storage from Cleanup Site? _____(metres)

**9 COMMENTS**

**10 VISUALS**

SKETCH Attached: yes / no PHOTOS Attached: yes / no

VIDEO: yes / no tape # ____