Pre-Spill SCAT Arctic River Segment / Reach Survey Form

1 GENERAL INFORMATION Area: Location: Survey Date: Survey Time: Observer Name: Participants:			Segment:				
			Water Level: low / mean / bank full / overbank flow Weather/Wind:				
						Ice and Snow Conditions:	
2 PHYSICAL CHARACTER			ATE TYPE (from list below)	*LB	*UB	*	
Segment Length:m		Bed	Bedrock Cliff/Ramp: Man-Made Solid				
Left – Right Bank (Circle)			Solid Ice				
Channel Width (water):m		Bedrock Platform					
Bank Width:m		Sand Bank/Beach					
(water line to top of UB) <u>POTENTIAL OIL BEHAVIOR:</u> natural alongshore movement barrier: yes / no		Coarse-grained Sand Bank/Beach Mixed Sand, Pebble, Cobble Bank/Beach Dabble, Cobble Bank/Beach					
		Boulder/Riprap: Ice Floes Man-Made Impermeable (wharf: pilings)					
		111211-111	Ade impermeable (what: plings) Mud or Sand Flat				
		man-made alongshore barrier: yes / no			Peat		
slough or embayment: yes / no			Wetland / Low-Lying Tundra				
shoals: yes / no		* OB	= overbank; UB = upper bank; LB = lov	wer bank		1	
meander with point bar: yes /no		L	VALLEY - CHANNE		RACTER	2	
meander with cut banks: yes / no flood-plain valley: yes / no			cliffflood plain			•	
pebble-cobble shoreline/penetration potential: yes / no			canyonbraided	poc			
	etration-remobilization potential: yes	s / no	straightox bow	glid			
tundra potential for oiling during overbank flow: yes / no other:			leveedcascadepoint bar				
			reanderrapidsvegetated				
3 RESOURCE ISSUES:							
	Primary Resource(s) at Risk		Response Cons	traints			
Environmental	•						
Cultural							
Human Use/ Economic							
	vities (if any): Natural / Commercial / J-wing; helo pad/landing			; ATV_			
	mpact debris pickup/relocation work?	(light / r	noderate / heavy) No. of bags		mate # of	f ba	
	channel bars/shoals: yes / no / ?		verbank: yes/no < suitable formachinery: yes/no	/?			
•	deep water: yes / no / ?						
ng areas: yes / no		backshore	e cliff: yes / no				
ng areas: yes / no access: yes / no / ?	deep water: yes / no / ? strong currents: yes / no Wetlands / Iow Tundra: yes / no		e cliff: yes / no if/backshore: yes / no				
ng areas: yes / no access: yes / no / ?	strong currents: yes / no		,				

Pre-Spill SCAT segment survey form (page 2)

GENERAL INFORMATION		Survey Date:				
Area: Location:		Segment:				
6 RESPONSE GOALS						
SEGMENT PROTECTION OBJECTIVES:		SHORELINE CLEANUP/TREATMENT OBJECTIVES:				
Prevent contact with shore or resource(s) at risk		Allow natural recovery				
Minimize contact		Restore shore to pre-oiling condition				
Prevent oil movement to adjacent segment(s)		Accelerate natural recovery				
Contain stranded oil		Restore with minimal removal of material				
Prevent oil transport into inlet, estuary, or channel		Minimize oil remobilization				
Other:		Minimize damage to	o dune, marsh, or peat bog			
SEGMENT PROTECTION STRATEGIES:		Other:				
Contain/recover oil on water		SHORELINE CLEANUP/TREATMENT STRATEGIES:				
Alter direction of movement of oil on water		Monitor				
Prevent oil movement (landward) on flooding tides		Act quickly to remove stranded oil before burial				
Trap/contain and collect oil at the shoreline		Remove bulk oil only				
Prevent remobilization of stranded oil		Minimize waste generation using <i>in-situ</i> treatment methods				
Prevent overwash into the backshore or a lagoon		Manual techniques preferred				
Pre-impact shoreline debris removal		Salt-marsh fringe/meadow treatment strategies				
Other:		Man-made backshore riprap treatment techniques				
		Other:				
		Other.				
7 METHODS (check all that	are appropriate	and feasible)				
(mark "?" if possibly useful; i						
	1	POTENTIAL CLEAN	UP/TREATMENT OPTIONS:			
POTENTIAL PROTECTION OPTIONS:	1. Natural re	ecovery	11. Mechanical removal			
1. Nearshore containment/recovery	2. Flooding		12. Vegetation removal			
2. Nearshore redirection (away)	3. Low-pres	sure, cold wash	13. Passive sorbent			
3. Nearshore redirection (towards)	4. Low-pres	sure, hot/warm wash	14. Tilling/Aeration			
4. Exclusion boom		ssure, cold wash	15. Surf washing/Sediment reworking			
5. Shoreline (intertidal) protection boom		ssure, hot/warm wash	16. Burning			
6. Shoreline barrier/berm	7. Steam cle		17. Dispersants			
7. Contact barrier	8. Sandblas	0	18. Shoreline cleaners			
8. Channel boom/barrier	9. Manual re	emoval	19. Solidifiers			

oremediation/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) Front-end Grader Bulldozer 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. Vacuums

9 CONTRIENTS

10 VISUALS

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

VIDEO: yes / no tape #