

<b><u>Zone 16</u></b>									
Shore	north								
Total Surveys	25								
Start Point	McNeil Creek								
Start Lat/Long									
End Point	Head of Bay								
End Lat/Long									
Dates Walked	1987-91, 96, 98-2001, 2003, 2004								
Spring Surveys	10								
Fall Surveys	17								
First Walked	1987								
Last Walked	2004								
Total Person-Hours	291.9								
Total Trash Bags Collected	37								
Total Estimated Weight of Trash Collected	670								
<b><u>General Info</u></b>									
Date	25-Apr-87	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr to 6	29-Apr-90	2-May-90	4-May-91	4-May-91
Start Time						1300	1400	1200	1200
End Time						1700	1700	1530	1500
Lowest Tide								1.6	1.6
at time								1238	1238
Temperature (F)									
Sky									
Vertical Zones Walked:									
High		x	x	x					
Middle	x	x							
Low									
# of Observers	4	2	3	2	4	3	1	2	3
Hours Spent	2.5	3	4.75	5	12	4	3	3.5	3
Person-Hours	10	6	14.25	10	48	12	3	7	9
Shoreline Walked (miles)	4	3.5	5	5	8	1.5	6	3	2
Total Trip Mileage									
Did Observers . . .									
Hike?	x	x	x	x		x	x	x	x
Kayak?									

Date	25-Apr-87	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr to 6	29-Apr-90	2-May-90	4-May-91	4-May-91
Other (specify)?					horseback				
<b>Trash Bags Collected</b>						1	1		1
<b>Estimated Weight of Collected Trash</b>									
<b><u>Wildlife</u></b>									
<b><i>Birds</i></b>									
Loons				1					
Sea Ducks	34	62	1		12	20	108		
Other Ducks and Geese		204	4	200	31	100	42	269	
Bald Eagles									
Adults	7	10	4	4	2	1	4	4	2
Immatures	6	2	2		1	5	2	2	1
Nests	2	3	4		1		1	1	1
Shorebirds					750			3000	
Seabirds	332	270	3	101	2	100		335	30
Crows and Ravens	1				14		15		2
Others (see separate Bird list)	61	25		4	2	3	15	6	1
<b><i>Domestic Mammals</i></b>									
Cattle	1	8			300			140	178
Horses					20	2	1	12	15
Dogs			2		1	5		2	2
Other									
<b><i>Land Mammals</i></b>									
Moose									
Adults				tracks					
Calves									
Black Bears									
Brown Bears									
Land/River Otters									
Red Squirrels			1				4		
Tracks Identified							horse		moose, be
Other							2 marmots		
<b><i>Marine Mammals</i></b>									
Sea Otters						6			
Harbor Seals			4	1					

Date	25-Apr-87	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr to 6	29-Apr-90	2-May-90	4-May-91	4-May-91	
Steller's Sea Lions						5				
Harbor Porpoises										
Whales										
Beluga										
Orca										
Minke										
Humpback										
Gray										
Unknown										
Other/Unidentified										
<b>Please note any unusual wildlife sightings</b>	3 dead cattle		heard 1 ma	1 dead cow				Cattle being herded pa		
<b><u>Invertebrates</u></b>										
<i>(from the Intertidal Biodiversity Checklist)</i>										
<b>Please note any interesting observations or changes in abundance here</b>			Various shells empty of life were found: cockles, dunger					Most common were tir		
<b><u>Sponges</u></b>										
Breadcrumb Sponge										
Purple Sponge										
<b><u>Cnidarians</u></b>										
<b><u>Anemones</u></b>							x	x		
Burrowing Green Anemone										
Orange Colonial Anemone										
Frilled (Plumose) Anemone										
Christmas Anemone										
<b><u>Sea Jellies</u></b>										
Moon Jelly										
Many-ribbed Hydromedusa										
Compass Jelly										
Lion's Mane Jelly										
Unidentified										
<b><u>Worms</u></b>						x				













Date	25-Apr-87	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr to 6	29-Apr-90	2-May-90	4-May-91	4-May-91
<b><u>Archaeological Sites</u></b>									
Shell Middens									
Other (specify)									
<b><u>Outfalls or Pipes</u></b>									
Number									
Comments									
<b><u>Toxic Pollution</u></b>									
Fuel (oil, gas, etc.)									
Lubricating Oil									
Paint									
Batteries									
<b><u>Trash &amp; Debris</u></b>									
(from International Coastal Cleanup Data Card)									
<b><i>Shoreline and Recreational Activities</i></b>									
Bags/Food Wrappers									
Balloons									
Beverage Bottles, plastic, 2-liter or less	15								
Beverage Bottles, glass									
Beverage Cans, aluminum	55								
Caps, Lids									
Clothing, Cloth	2								
Cups, Plates, Forks, Knives, Spoons									
Diapers									
Fast-food Containers									
6-pack Holders									
Pull Tabs									
Shotgun Shells/Wadding									
Straws, Stirrers									
Toys									
Broken beer bottles? (X if yes)									
<b><i>Ocean/Waterway Activities</i></b>									

<b>Date</b>	25-Apr-87	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr to 6	29-Apr-90	2-May-90	4-May-91	4-May-91
Bait Containers/Packaging									
Bleach/Cleaner Bottles									
Buoys/Floats	1								
Crab/Lobster/Fish Traps									2
Crates									
Fishing Line									
Fishing Lures									
Fishing Nets	5								
Light Bulbs/Tubes									
Oil/Lube Bottles									
Pallets									
Plastic Sheeting/Tarps		3							
Rope	5	1				1			
Strapping Bands									
<b><i>Smoking-Related Activities</i></b>									
Cigarettes/Cigarette Filters									
Cigarette Lighters									
Cigar Tips									
Tobacco Packaging/Wrappers									
<b><i>Dumping Activities</i></b>									
Appliances (refrigerators, washers, etc.)									
Batteries									
Cars/Car Parts	1								
Construction Materials									1
55-gallon Drums			3						1
Tires									
<b><i>Medical/Personal Hygiene</i></b>									
Syringes									
Condoms									
Tampons/Tampon Applicators									
<b><i>Debris Items of Local Concern</i></b>									
	Subsistence activity.		Subsistenc	Subsistence activity.					Subsistenc





Date	4-May-91	23-Sep-96	23-Sep-96	6-Oct-96	21-Sep-98	27-Sep-98	23-Sep-99	23-Sep-99	25-Sep-99
Other (specify)?	horseback		horseback	4-wheeler		4-wheeler			4-wheeler
<b>Trash Bags Collected</b>	1						2	4	
<b>Estimated Weight of Collected Trash</b>									
<b><u>Wildlife</u></b>									
<b><i>Birds</i></b>									
Loons									
Sea Ducks		200							
Other Ducks and Geese	250		1729			17			
Bald Eagles									
Adults	10	1	1	5	3	3		1	1
Immatures	15	2		3		4			1
Nests	3		2	2		2	1	1	2
Shorebirds	209								2
Seabirds	100	125	100	50	150	13		25	6
Crows and Ravens		2	201	10		16	3	75	2
Others (see separate Bird list)	29	21	12	9	2		30	4	24
<b><i>Domestic Mammals</i></b>									
Cattle	200	3	200				34	7	
Horses	50		35			3			
Dogs							2		
Other									
<b><i>Land Mammals</i></b>									
Moose									
Adults									
Calves									
Black Bears									
Brown Bears									
Land/River Otters									
Red Squirrels	2			3		3			
Tracks Identified	black bear	coyote		cattle, bear, moose, fo	moose, fox	horse, catt	horse	moose, fox	
Other									
<b><i>Marine Mammals</i></b>									
Sea Otters					1				
Harbor Seals		1			3	5			3















Date	4-May-91	23-Sep-96	23-Sep-96	6-Oct-96	21-Sep-98	27-Sep-98	23-Sep-99	23-Sep-99	25-Sep-99
<b><u>Archaeological Sites</u></b>									
Shell Middens					1 eroded midden at C	1 midden e	1 possible, or just high	eroding mid	
Other (specify)					fossilized trackway--very small humanoid?			1/4 mile E of	
<b><u>Outfalls or Pipes</u></b>									
Number									
Comments									
<b><u>Toxic Pollution</u></b>									
Fuel (oil, gas, etc.)									
Lubricating Oil									
Paint									
Batteries									
<b><u>Trash &amp; Debris</u></b>									
(from International Coastal Cleanup Data Card)									
<b><i>Shoreline and Recreational Activities</i></b>									
Bags/Food Wrappers		4							4
Balloons									
Beverage Bottles, plastic, 2-liter or less		1		10				1	3
Beverage Bottles, glass		2						100	25
Beverage Cans, aluminum		5				1			46
Caps, Lids									
Clothing, Cloth							1		
Cups, Plates, Forks, Knives, Spoons									
Diapers									
Fast-food Containers									
6-pack Holders									
Pull Tabs									
Shotgun Shells/Wadding									
Straws, Stirrers									
Toys									
Broken beer bottles? (X if yes)									
<b><i>Ocean/Waterway Activities</i></b>									

<b>Date</b>	4-May-91	23-Sep-96	23-Sep-96	6-Oct-96	21-Sep-98	27-Sep-98	23-Sep-99	23-Sep-99	25-Sep-99
Bait Containers/Packaging									
Bleach/Cleaner Bottles									
Buoys/Floats		2		10	2			1	
Crab/Lobster/Fish Traps		2			1				
Crates									
Fishing Line									
Fishing Lures									
Fishing Nets				4			1	1	1
Light Bulbs/Tubes									
Oil/Lube Bottles		1		2		5			1
Pallets									
Plastic Sheeting/Tarps									1
Rope		1							
Strapping Bands									
<b><i>Smoking-Related Activities</i></b>									
Cigarettes/Cigarette Filters									
Cigarette Lighters									
Cigar Tips									
Tobacco Packaging/Wrappers									
<b><i>Dumping Activities</i></b>									
Appliances (refrigerators, washers, etc.)								1	1
Batteries									
Cars/Car Parts							1		
Construction Materials				3					
55-gallon Drums		1	36	1					1
Tires				2				1	
<b><i>Medical/Personal Hygiene</i></b>									
Syringes									
Condoms									
Tampons/Tampon Applicators									
<b><i>Debris Items of Local Concern</i></b>									
	e activity.			55-gal drums from fiberglass boat		Subsistence activity			Abandoned



<b><u>Zone 16</u></b>								
<b>Shore</b>								
<b>Total Surveys</b>								
<b>Start Point</b>								
<b>Start Lat/Long</b>								
<b>End Point</b>								
<b>End Lat/Long</b>								
<b>Dates Walked</b>								
<b>Spring Surveys</b>								
<b>Fall Surveys</b>								
<b>First Walked</b>								
<b>Last Walked</b>								
<b>Total Person-Hours</b>								
<b>Total Trash Bags Collected</b>								
<b>Total Estimated Weight of Trash Collected</b>								
<b><u>General Info</u></b>								
<b>Date</b>	14-Oct-99	30-Sep-00	23-Sep-01	29-Sep-01	30-Sep-01	9-Sep-02	10.9.03	12.9.03
<b>Start Time</b>	1100		1000	830	735	730	930	1000
<b>End Time</b>	1500		1400	1130	1150	1245	1100	1600
<b>Lowest Tide</b>			1	1.8	1.1	-2.5	-1.8	-0.8
<b>at time</b>			111	742	812	850	909	1012
<b>Temperature (F)</b>	45	40-50	50	45	45	42-60	55	60
<b>Sky</b>	sunny	partly cloud	cloudy	partly cloud	cloudy	cloudy	sunny	sunny
<b>Vertical Zones Walked:</b>								
High	x	x	x	x	x	x		
Middle		x	x	x	x	x	x	x
Low				x	x	x		
<b># of Observers</b>	1	1	6	2	1	2	2	2
<b>Hours Spent</b>	4	5	4	3	4.25	5.5	2.7	7
<b>Person-Hours</b>	4	5	24	6	4.25	11	5.4	14
<b>Shoreline Walked (miles)</b>	1	4	3	4	6.5	8	4	4
<b>Total Trip Mileage</b>			10	8	20	10	8	10
<b>Did Observers . . .</b>								
Hike?	x	x	x	x	x	x	x	
Kayak?								





<b>Date</b>	14-Oct-99	30-Sep-00	23-Sep-01	29-Sep-01	30-Sep-01	9-Sep-02	10.9.03	12.9.03
Giant Flatworm								
<b>Nemerteans</b>								
Amphiporus (Two-spotted) Ribbon Worm								
Red Ribbon Worm								
<b>Echiurans</b>								
Fat Innkeeper (Alaskan Spoonworm)								
<b>Sipunculids</b>								
Peanut Worm					x			
<b>Annelids</b>								
Mussel Worm (Clam Worm)								
Northern Feather Duster Worm (Carpet Worm)								
Cone Worm						x		
Calcareous Tube Worm			x					
Spiral Tube Worm								
Scaleworm								
<b>Brachiopods</b>								
Transverse Lampshell								
<b>Mollusks</b>								
<b>Chitons (for butterfly shells found, enter y)</b>								
Gumboot Chiton								
Black Katy Chiton								
Brick Chiton						y		
Mossy Chiton								
Tiger Chiton						y		
Lined Chiton								
<b>Limpets</b>								
Dunce Cap Limpet					x			
Plate Limpet								
<b>Snails (for empty shells found, enter y)</b>					x			
Hairy Triton								
Sitka Periwinkle					x	x		
Helicina Margarite								
Puppet Margarite								
Aleutian Moonsnail								
Ridged Neptune								
Channeled Dogwinkle						y		

<b>Date</b>	14-Oct-99	30-Sep-00	23-Sep-01	29-Sep-01	30-Sep-01	9-Sep-02	10.9.03	12.9.03
Emarginate Dogwinkle						y		
Frilled Dogwinkle						y		
File Dogwinkle						y		
Big-mouth Whelk								
<b>Nudibranchs</b>								
Maned Nudibranch								
False Sea Lemon (False Lemon Peel)								
Orange-tipped Nudibranch								
Opalescent Nudibranch								
Bushy-backed Nudibranch								
<b>Clams (for empty shells found, enter y)</b>								
Nuttal's Cockle			x				x	
Northwest Ugly Clam								
Arctic Rock Borer								
Baltic Macoma			x		x			
Stained Macoma								
Pacific Surf Clam							x	
Truncated Mya								
Steamer Clam (Pacific Littleneck Clam)					x	y		
Butter Clam					x			
Razor Clam						x		
Evidence of Clam Holes, unkeyed (not dug out)						x		
<b>Mussels</b>	x	x						
Horse Mussel								
Pacific Blue Mussel			x		x	x	x	
<b>Scallops</b>								
Pink Scallop					x			
<b>Jingles</b>								
Rock Jingle								
<b>Cephalopods</b>								
Giant Pacific Octopus								
Stubby Squid								
<b>Arthropods</b>								
<b>Barnacles</b>		x						
Acorn Barnacle			x		x	x		
Pelagic Gooseneck Barnacle					x			









Date	14-Oct-99	30-Sep-00	23-Sep-01	29-Sep-01	30-Sep-01	9-Sep-02	10.9.03	12.9.03
<b><u>Archaeological Sites</u></b>								
Shell Middens	Identified by Col	1 eroding at Cottonwood	Cottonwood	Cottonwood	Cottonwood	Cottonwood	Cottonwood	Cottonwood
Other (specify)	McNeil Cr in stream outflow, 3' stride, 6" footprint							
<b><u>Outfalls or Pipes</u></b>								
Number								
Comments			Cottonwood Cr stank of rot					
<b><u>Toxic Pollution</u></b>								
Fuel (oil, gas, etc.)							found 2 half full containers of	
Lubricating Oil								
Paint					2			
Batteries								
<b><u>Trash &amp; Debris</u></b>								
(from International Coastal Cleanup Data Card)								
<b><i>Shoreline and Recreational Activities</i></b>								
Bags/Food Wrappers				5		6	3	
Balloons						0	0	
Beverage Bottles, plastic, 2-liter or less		8		2		0	17	
Beverage Bottles, glass		35				0	70	
Beverage Cans, aluminum		51		14		47	60	
Caps, Lids				1		13	17	
Clothing, Cloth				5			4	
Cups, Plates, Forks, Knives, Spoons				1		12 styrofoam c		8
Diapers								
Fast-food Containers						7		
6-pack Holders						4	4	
Pull Tabs								
Shotgun Shells/Wadding			1	3			15	
Straws, Stirrers							3	
Toys			1	1			2	
Broken beer bottles? (X if yes)						x	x	
<b><i>Ocean/Waterway Activities</i></b>								

<b>Date</b>	14-Oct-99	30-Sep-00	23-Sep-01	29-Sep-01	30-Sep-01	9-Sep-02	10.9.03	12.9.03	
Bait Containers/Packaging				1			0		
Bleach/Cleaner Bottles							4		
Buoys/Floats				1		1	4		
Crab/Lobster/Fish Traps				1			3		
Crates				1			0		
Fishing Line						3	0		
Fishing Lures				1			1		
Fishing Nets	2	2				2	4		
Light Bulbs/Tubes							0		
Oil/Lube Bottles				1		4	2		
Pallets							0		
Plastic Sheeting/Tarps		4		1		2	1		
Rope			1	3		3	8		
Strapping Bands							0		
<b>Smoking-Related Activities</b>									
Cigarettes/Cigarette Filters							0		
Cigarette Lighters							0		
Cigar Tips							0		
Tobacco Packaging/Wrappers							0		
<b>Dumping Activities</b>									
Appliances (refrigerators, washers, etc.)		1		1			0		
Batteries							0		
Cars/Car Parts				1			2		
Construction Materials				10			7		
55-gallon Drums							3		
Tires							5		
<b>Medical/Personal Hygiene</b>									
Syringes						2			
Condoms						3			
Tampons/Tampon Applicators									
<b>Debris Items of Local Concern</b>									
	/damaged boat, Mokey Craft 16' aluminum, lic			No drift cards or shoes embedded ropes, fish estimated 30 broken beer bottles					2 b



<b><u>Zone 16</u></b>									
<b>Shore</b>									
<b>Total Surveys</b>									
<b>Start Point</b>									
<b>Start Lat/Long</b>									
<b>End Point</b>									
<b>End Lat/Long</b>									
<b>Dates Walked</b>									
<b>Spring Surveys</b>									
<b>Fall Surveys</b>									
<b>First Walked</b>									
<b>Last Walked</b>									
<b>Total Person-Hours</b>									
<b>Total Trash Bags Collected</b>									
<b>Total Estimated Weight of Trash Collected</b>									
<b><u>General Info</u></b>									
<b>Date</b>		9.20.04							
<b>Start Time</b>		1430							
<b>End Time</b>		1900							
<b>Lowest Tide</b>		-1.2							
	<b>at time</b>	744							
<b>Temperature (F)</b>		45							
<b>Sky</b>		raining							
<b>Vertical Zones Walked:</b>									
	High	x							
	Middle								
	Low	x							
<b># of Observers</b>		2							
<b>Hours Spent</b>		4.5							
<b>Person-Hours</b>		9							
<b>Shoreline Walked (miles)</b>									
<b>Total Trip Mileage</b>									
<b>Did Observers . . .</b>									
	Hike?	x							
	Kayak?								











<b>Date</b>	9.20.04								
<b>Sea Urchins</b>									
Green Sea Urchin									
Red Sea Urchin									
<b>Sea Cucumbers</b>									
Silky Burrowing Cucumber									
Orange Cucumber (Red Cucumber)									
Tar-spot Cucumber (Black Cucumber)									
<b>Sand Dollars</b>									
Green-spined Sand Dollar (Northern Sand Dollar)									
<b><u>Chordates</u></b>									
<b>Tunicates</b>									
Colonial Tunicate (Sea Pork)									
Sea Peach									
<b><u>Seaweeds</u></b>									
Green Seaweed									
	Band								
	Attached								
	Washed Up	x							
Red Seaweed									
	Band								
	Attached								
	Washed Up								
Rockweed									
	Band								
	Attached								
	Washed Up								
Kelps									
	Band								
	Attached								
	Washed Up	x							
Eelgrass									
	Band								
	Attached								
	Washed Up	x							

<b>Date</b>	9.20.04								
<b><u>Beach Substrate</u></b>									
Rocky									
Pebbles									
Sand									
Mud	x								
<b><u>Bluff and Cliff Erosion</u></b>									
Comments	east of Falls Creek (see photos)								
<b><u>Human Activities</u></b>									
Walking									
	Signs of								
	Actual observation								
Camping									
	Signs of								
	Actual observation								
Partying									
	Signs of								
	Actual observation								
Fire Pits									
	Signs of								
	Actual observation								
Trash Accumulations									
	Signs of								
	Actual observation								
Clamming									
	Signs of								
	Actual observation								
Fishing									
	Signs of								
	Actual observation								
Coaling									
	Signs of								
	Actual observation								

<b>Date</b>	9.20.04								
Picnicking									
	Signs of								
	Actual observation								
Horseback Riding									
	Signs of	1							
	Actual observation								
Harvesting (specify)									
	Signs of								
	Actual observation								
Other (specify)									
	<b><u>Vehicle Use</u></b>								
Cars/Trucks									
	Sets of tracks								
	Actual observation	elo							
ATVs/Motorcycles									
	Sets of tracks								
	Actual observation								
Bicycles									
	Sets of tracks								
	Actual observation								
Aircraft									
	Sets of tracks								
	Actual observation								
Other (specify)									
	<b><u>Structures on the Beach</u></b>								
Buildings									
Docks									
Driftwood Structures									
Riprapped Areas									
Erosion Control Structures									
Abandoned Vehicles									
Abandoned Boats		2 kayaks							
	Boat Parts								

<b>Date</b>	9.20.04								
<b><u>Archaeological Sites</u></b>									
Shell Middens									
Other (specify)									
<b><u>Outfalls or Pipes</u></b>									
Number									
Comments									
<b><u>Toxic Pollution</u></b>									
Fuel (oil, gas, etc.)			of oil, not leaking						
Lubricating Oil									
Paint									
Batteries									
<b><u>Trash &amp; Debris</u></b>									
(from International Coastal Cleanup Data Card)									
<b><i>Shoreline and Recreational Activities</i></b>									
Bags/Food Wrappers	2				24				
Balloons					0				
Beverage Bottles, plastic, 2-liter or less	2				59				
Beverage Bottles, glass	1				233				
Beverage Cans, aluminum					279				
Caps, Lids	4				35				
Clothing, Cloth					12				
Cups, Plates, Forks, Knives, Spoons					9				
Diapers					0				
Fast-food Containers					7				
6-pack Holders					8				
Pull Tabs					0				
Shotgun Shells/Wadding					19				
Straws, Stirrers					3				
Toys					4				
Broken beer bottles? (X if yes)					0				
<b><i>Ocean/Waterway Activities</i></b>									
					0				

<b>Date</b>	9.20.04								
Bait Containers/Packaging	1			2					
Bleach/Cleaner Bottles				4					
Buoys/Floats	1			23					
Crab/Lobster/Fish Traps				9					
Crates				1					
Fishing Line				3					
Fishing Lures				2					
Fishing Nets				22					
Light Bulbs/Tubes				0					
Oil/Lube Bottles				16					
Pallets				0					
Plastic Sheeting/Tarps	4			16					
Rope	2			25					
Strapping Bands				0					
				0					
<b><i>Smoking-Related Activities</i></b>				0					
Cigarettes/Cigarette Filters				0					
Cigarette Lighters				0					
Cigar Tips				0					
Tobacco Packaging/Wrappers				0					
				0					
<b><i>Dumping Activities</i></b>				0					
Appliances (refrigerators, washers, etc.)				4					
Batteries				0					
Cars/Car Parts				5					
Construction Materials				21					
55-gallon Drums				46					
Tires	1			9					
				0					
<b><i>Medical/Personal Hygiene</i></b>				0					
Syringes				2					
Condoms				3					
Tampons/Tampon Applicators				0					
<b><i>Debris Items of Local Concern</i></b>									
			containers, dumped furniture						
			beached kayaks						

<b>Date</b>	9.20.04								
<b><i>Entangled Animals</i></b>									
Type of Animal									
Form of Entangling Debris									
Comments									
<b><i>Most Peculiar Item Collected?</i></b>									
<b><i>Comments</i></b>	oplastics, styrofoam, visqueen, fishing gear all present.								
<b><u>Additional Observations and Comments</u></b>	k to Eastland creek, very clean, lots of erosion, recent. Lots of garbage, we concentrated on mainly tra								
	ncluded evidence of styrofoam but minimal garbage as a whole								

<b><u>Zone 16</u></b>							
<b>Shore</b>							
<b>Total Surveys</b>							
<b>Start Point</b>							
<b>Start Lat/Long</b>							
<b>End Point</b>							
<b>End Lat/Long</b>							
<b>Dates Walked</b>							
<b>Spring Surveys</b>							
<b>Fall Surveys</b>							
<b>First Walked</b>							
<b>Last Walked</b>							
<b>Total Person-Hours</b>							
<b>Total Trash Bags Collected</b>							
<b>Total Estimated Weight of Trash Collected</b>							
<b><u>General Info</u></b>							
<b>Date</b>							
<b>Start Time</b>							
<b>End Time</b>							
<b>Lowest Tide</b>							
<b>at time</b>							
<b>Temperature (F)</b>							
<b>Sky</b>							
<b>Vertical Zones Walked:</b>							
High							
Middle							
Low							
<b># of Observers</b>							
<b>Hours Spent</b>							
<b>Person-Hours</b>							
<b>Shoreline Walked (miles)</b>							
<b>Total Trip Mileage</b>							
<b>Did Observers . . .</b>							
Hike?							
Kayak?							

<b>Date</b>								
Other (specify)?								
<b>Trash Bags Collected</b>								
<b>Estimated Weight of Collected Trash</b>								
<b><u>Wildlife</u></b>								
<b><i>Birds</i></b>								
Loons								
Sea Ducks								
Other Ducks and Geese								
Bald Eagles								
	Adults							
	Immatures							
	Nests							
Shorebirds								
Seabirds								
Crows and Ravens								
Others (see separate Bird list)								
<b><i>Domestic Mammals</i></b>								
Cattle								
Horses								
Dogs								
Other								
<b><i>Land Mammals</i></b>								
Moose								
	Adults							
	Calves							
Black Bears								
Brown Bears								
Land/River Otters								
Red Squirrels								
Tracks Identified								
Other								
<b><i>Marine Mammals</i></b>								
Sea Otters								
Harbor Seals								



<b>Date</b>							
Giant Flatworm							
<b>Nemerteans</b>							
Amphiporus (Two-spotted) Ribbon Worm							
Red Ribbon Worm							
<b>Echiurans</b>							
Fat Innkeeper (Alaskan Spoonworm)							
<b>Sipunculids</b>							
Peanut Worm							
<b>Annelids</b>							
Mussel Worm (Clam Worm)							
Northern Feather Duster Worm (Carpet Worm)							
Cone Worm							
Calcareous Tube Worm							
Spiral Tube Worm							
Scaleworm							
<b>Brachiopods</b>							
Transverse Lampshell							
<b>Mollusks</b>							
<b>Chitons (for butterfly shells found, enter y)</b>							
Gumboot Chiton							
Black Katy Chiton							
Brick Chiton							
Mossy Chiton							
Tiger Chiton							
Lined Chiton							
<b>Limpets</b>							
Dunce Cap Limpet							
Plate Limpet							
<b>Snails (for empty shells found, enter y)</b>							
Hairy Triton							
Sitka Periwinkle							
Helicina Margarite							
Puppet Margarite							
Aleutian Moonsnail							
Ridged Neptune							
Channeled Dogwinkle							

<b>Date</b>							
Emarginate Dogwinkle							
Frilled Dogwinkle							
File Dogwinkle							
Big-mouth Whelk							
<b><i>Nudibranchs</i></b>							
Maned Nudibranch							
False Sea Lemon (False Lemon Peel)							
Orange-tipped Nudibranch							
Opalescent Nudibranch							
Bushy-backed Nudibranch							
<b><i>Clams (for empty shells found, enter y)</i></b>							
Nuttal's Cockle							
Northwest Ugly Clam							
Arctic Rock Borer							
Baltic Macoma							
Stained Macoma							
Pacific Surf Clam							
Truncated Mya							
Steamer Clam (Pacific Littleneck Clam)							
Butter Clam							
Razor Clam							
Evidence of Clam Holes, unkeyed (not dug out)							
<b><i>Mussels</i></b>							
Horse Mussel							
Pacific Blue Mussel							
<b><i>Scallops</i></b>							
Pink Scallop							
<b><i>Jingles</i></b>							
Rock Jingle							
<b><i>Cephalopods</i></b>							
Giant Pacific Octopus							
Stubby Squid							
<b><i>Arthropods</i></b>							
<b><i>Barnacles</i></b>							
Acorn Barnacle							
Pelagic Gooseneck Barnacle							

<b>Date</b>							
Thatched Acorn Barnacle							
<b>Crabs (molts, enter y)</b>							
Dungeness Crab							
Black-clawed Cancer Crab							
Red Hermit Crab							
Striped Hermit Crab							
Decorator Crab							
Carapace Crab							
Red King Crab							
Northern Kelp Crab							
Helmet Crab							
<b>Shrimp</b>							
Broken-back Shrimp							
Coonstripe Shrimp							
Sand Shrimp							
<b>Isopods</b>							
Pillbug Isopod							
Rockweek Isopod							
<b>Amphipods</b>							
Skeleton Shrimp							
Small Beach Hopper							
<b>Echinoderms</b>							
<b>Sea Stars</b>							
Little Six-rayed Star							
Red-banded Star (Rainbow Star)							
Ochre Star							
Sunflower Star							
Morning Sun Star							
Stimpson's Sun Star							
Rose Star							
Leather Star							
True Star (False Ochre Star, Mottled Star)							
Blood Star							
<b>Brittle Stars</b>							
Serpent Star							
Daisy Brittle Star							

<b>Date</b>							
<b>Sea Urchins</b>							
Green Sea Urchin							
Red Sea Urchin							
<b>Sea Cucumbers</b>							
Silky Burrowing Cucumber							
Orange Cucumber (Red Cucumber)							
Tar-spot Cucumber (Black Cucumber)							
<b>Sand Dollars</b>							
Green-spined Sand Dollar (Northern Sand Dollar)							
<b><u>Chordates</u></b>							
<b>Tunicates</b>							
Colonial Tunicate (Sea Pork)							
Sea Peach							
<b><u>Seaweeds</u></b>							
Green Seaweed							
Band							
Attached							
Washed Up							
Red Seaweed							
Band							
Attached							
Washed Up							
Rockweed							
Band							
Attached							
Washed Up							
Kelps							
Band							
Attached							
Washed Up							
Eelgrass							
Band							
Attached							
Washed Up							

<b>Date</b>							
<b><u>Beach Substrate</u></b>							
Rocky							
Pebbles							
Sand							
Mud							
<b><u>Bluff and Cliff Erosion</u></b>							
Comments							
<b><u>Human Activities</u></b>							
Walking							
Signs of							
Actual observation							
Camping							
Signs of							
Actual observation							
Partying							
Signs of							
Actual observation							
Fire Pits							
Signs of							
Actual observation							
Trash Accumulations							
Signs of							
Actual observation							
Clamming							
Signs of							
Actual observation							
Fishing							
Signs of							
Actual observation							
Coaling							
Signs of							
Actual observation							

<b>Date</b>							
Picnicking							
	Signs of						
	Actual observation						
Horseback Riding							
	Signs of						
	Actual observation						
Harvesting (specify)							
	Signs of						
	Actual observation						
Other (specify)							
	<b><u>Vehicle Use</u></b>						
Cars/Trucks							
	Sets of tracks						
	Actual observation						
ATVs/Motorcycles							
	Sets of tracks						
	Actual observation						
Bicycles							
	Sets of tracks						
	Actual observation						
Aircraft							
	Sets of tracks						
	Actual observation						
Other (specify)							
	<b><u>Structures on the Beach</u></b>						
Buildings							
Docks							
Driftwood Structures							
Riprapped Areas							
Erosion Control Structures							
Abandoned Vehicles							
Abandoned Boats							
	Boat Parts						

<b>Date</b>							
<b><u>Archaeological Sites</u></b>							
Shell Middens							
Other (specify)							
<b><u>Outfalls or Pipes</u></b>							
Number							
Comments							
<b><u>Toxic Pollution</u></b>							
Fuel (oil, gas, etc.)							
Lubricating Oil							
Paint							
Batteries							
<b><u>Trash &amp; Debris</u></b>							
(from International Coastal Cleanup Data Card)							
<b><i>Shoreline and Recreational Activities</i></b>							
Bags/Food Wrappers							
Balloons							
Beverage Bottles, plastic, 2-liter or less							
Beverage Bottles, glass							
Beverage Cans, aluminum							
Caps, Lids							
Clothing, Cloth							
Cups, Plates, Forks, Knives, Spoons							
Diapers							
Fast-food Containers							
6-pack Holders							
Pull Tabs							
Shotgun Shells/Wadding							
Straws, Stirrers							
Toys							
Broken beer bottles? (X if yes)							
<b><i>Ocean/Waterway Activities</i></b>							

<b>Date</b>							
Bait Containers/Packaging							
Bleach/Cleaner Bottles							
Buoys/Floats							
Crab/Lobster/Fish Traps							
Crates							
Fishing Line							
Fishing Lures							
Fishing Nets							
Light Bulbs/Tubes							
Oil/Lube Bottles							
Pallets							
Plastic Sheeting/Tarps							
Rope							
Strapping Bands							
<b><i>Smoking-Related Activities</i></b>							
Cigarettes/Cigarette Filters							
Cigarette Lighters							
Cigar Tips							
Tobacco Packaging/Wrappers							
<b><i>Dumping Activities</i></b>							
Appliances (refrigerators, washers, etc.)							
Batteries							
Cars/Car Parts							
Construction Materials							
55-gallon Drums							
Tires							
<b><i>Medical/Personal Hygiene</i></b>							
Syringes							
Condoms							
Tampons/Tampon Applicators							
<b><i>Debris Items of Local Concern</i></b>							

<b>Date</b>							
<b><i>Entangled Animals</i></b>							
Type of Animal							
Form of Entangling Debris							
Comments							
<b><i>Most Peculiar Item Collected?</i></b>							
<b><i>Comments</i></b>							
<b><u>Additional Observations and Comments</u></b>	sh removal. Most trash closest to the switchback trail and Kachemak Selo.						