

Date	25-Apr-87	30-Apr-88	30-Apr-89	2-May-90	28-Apr-91	16-Sep-96	20-Sep-98	24-Sep-00
Frilled Dogwinkle								
File Dogwinkle								
Big-mouth Whelk								
Nudibranchs								
Maned Nudibranch								
False Sea Lemon (False Lemon Peel)								
Orange-tipped Nudibranch								
Opalescent Nudibranch								
Bushy-backed Nudibranch								
Clams			x	x		x		
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								
Mussels			x			x	x	
Horse Mussel								
Pacific Blue Mussel								
Scallops								
Pink Scallop								
Jingles								
Rock Jingle								
Cephalopods								
Giant Pacific Octopus								
Stubby Squid								
Arthropods								
Barnacles			x	x		x	x	
Acorn Barnacle								
Pelagic Gooseneck Barnacle								
Thatched Acorn Barnacle								
Crabs						x		

Date	25-Apr-87	30-Apr-88	30-Apr-89	2-May-90	28-Apr-91	16-Sep-96	20-Sep-98	24-Sep-00
Red Sea Urchin								
Sea Cucumbers								
Silky Burrowing Cucumber								
Orange Cucumber (Red Cucumber)								
Tar-spot Cucumber (Black Cucumber)								
Sand Dollars								
Green-spined Sand Dollar (Northern Sand Dollar)								
Chordates								
Tunicates								
Colonial Tunicate (Sea Pork)								
Sea Peach								
Seaweeds								
Green Seaweed			x	x		x		x
Band								
Attached								
Washed Up								
Red Seaweed			x	x		x	x	x
Band								
Attached								
Washed Up								
Rockweed								
Band								
Attached								
Washed Up								
Kelps								
Band								
Attached								
Washed Up	x							
Eelgrass								
Band								
Attached								
Washed Up								
Beach Substrate								
Type			pebbles, s	sand	pebble, sa	rocky, sand	rocky, pebb	rocky, pebb

Date	25-Apr-87	30-Apr-88	30-Apr-89	2-May-90	28-Apr-91	16-Sep-96	20-Sep-98	24-Sep-00
Comments								
<i>Most Peculiar Item Collected?</i>								
<i>Comments</i>	Human del	Metal, plas	All in all, be	Glass and metal cans common.	F	Aluminum r	Beer cans c	
<u>Additional Observations and Comments</u>	(detailed c	I loved taking a more careful look		The amount	High impac	Overall bea	Very simila	

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
Nemerteans									
Amphiporus (Two-spotted) Ribbon Worm				x					
Red Ribbon Worm				x					
Echiurans									
Fat Innkeeper (Alaskan Spoonworm)									
Sipunculids									
Peanut Worm									
Annelids									
Mussel Worm (Clam Worm)				x					
Northern Feather Duster Worm (Carpet Worm)									
Cone Worm									
Calcareous Tube Worm				x					
Spiral Tube Worm				x					
Scaleworm									
Brachiopods									
Transverse Lampshell									
Mollusks									
Chitons									
Gumboot Chiton				x 6 inches!					
Black Katy Chiton									
Brick Chiton									
Mossy Chiton									
Tiger Chiton									
Lined Chiton									
Limpets									
Dunce Cap Limpet				x					
Plate Limpet				x					
Snails									
Hairy Triton				x	x				
Sitka Periwinkle									
Helicina Margarite									
Puppet Margarite									
Aleutian Moonsnail									
Ridged Neptune				x					
Channeled Dogwinkle				shells					
Emarginate Dogwinkle				shells					

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
Dungeness Crab		x		juvenile					
Black-clawed Cancer Crab				juvenile					
Red Hermit Crab									
Striped Hermit Crab									
Decorator Crab				x					
Carapace Crab									
Red King Crab				juvenile					
Northern Kelp Crab				x					
Helmet Crab									
Shrimp									
Broken-back Shrimp				x					
Coonstripe Shrimp									
Sand Shrimp				x					
Isopods									
Pillbug Isopod									
Rockweek Isopod									
Amphipods									
Skeleton Shrimp									
Small Beach Hopper					x				
Echinoderms									
Sea Stars									
Little Six-rayed Star				xplentiful					
Red-banded Star (Rainbow Star)									
Ochre Star									
Sunflower Star									
Morning Sun Star									
Stimpson's Sun Star		x							
Rose Star									
Leather Star				x					
True Star (False Ochre Star, Mottled Star)									
Blood Star									
Brittle Stars									
Serpent Star									
Daisy Brittle Star									
Sea Urchins									
Green Sea Urchin				x scarce	x				

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
Red Sea Urchin									
Sea Cucumbers									
Silky Burrowing Cucumber									
Orange Cucumber (Red Cucumber)									
Tar-spot Cucumber (Black Cucumber)									
Sand Dollars									
Green-spined Sand Dollar (Northern Sand Dollar)									
Chordates									
Tunicates									
Colonial Tunicate (Sea Pork)									
Sea Peach									
							sculpins, sand lance, gunnels, spaghetti worms		
Seaweeds									
Green Seaweed									
Band				x	x				
Attached				x					
Washed Up		x		x					
Red Seaweed	x								
Band					x				
Attached				x					
Washed Up		x		x					
Rockweed									
Band									
Attached		x		x					
Washed Up		x							
Kelps									
Band				x					
Attached		x		x					
Washed Up		x		x					
Eelgrass									
Band				x					
Attached				x					
Washed Up									
							corraline algae		
Beach Substrate									
Type	80% sand,	pebbles, sand		rocky, pebbles, sand					

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
<u>Bluff and Cliff Erosion</u>									
Comments	sea wall to protect road								
<u>Human Activities</u>									
Walking									
	Signs of			somee	x				
	Actual observation	1		6	2				
Camping									
	Signs of			12	x				
	Actual observation			2	30				
Partying									
	Signs of				x				
	Actual observation				2				
Fire Pits									
	Signs of			12	30				
	Actual observation								
Trash Accumulations									
	Signs of			many around firepits					
	Actual observation								
Clamming									
	Signs of								
	Actual observation	3							
Fishing									
	Signs of								
	Actual observation								
Coaling									
	Signs of								
	Actual observation								
Picnicking									
	Signs of				x				
	Actual observation								
Horseback Riding									
	Signs of				x				

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
<u>Outfalls or Pipes</u>									
Number									
Comments									
<u>Toxic Pollution</u>									
Fuel (oil, gas, etc.)									
Lubricating Oil									
Paint									
Batteries									
<u>Trash & Debris</u>									
(from International Coastal Cleanup Data Card)									
<i>Shoreline and Recreational Activities</i>									
Bags/Food Wrappers			x	0	5			5	
Balloons			x	0				0	
Beverage Bottles, plastic, 2-liter or less			x	10	17			27	
Beverage Bottles, glass			x	1	14			15	
Beverage Cans			x	18	13			34	
Caps, Lids			x	15	12			27	
Clothing, Cloth	1		x	0	4			7	
Cups, Plates, Forks, Knives, Spoons			x	8	3			11	
Diapers				0				0	
Fast-food Containers				15	10			25	
6-pack Holders				1				1	
Pull Tabs				0				0	
Shotgun Shells/Wadding				0				0	
Straws, Stirrers				0	4			4	
Toys			x	1				3	
								0	
<i>Ocean/Waterway Activities</i>									
Bait Containers/Packaging				0	1			2	
Bleach/Cleaner Bottles				3				3	
Buoys/Floats	1			2				4	
Crab/Lobster/Fish Traps				1				1	
Crates				0				0	

Date	28-Sep-00	18-Sep-01	03.10.02	10.9.03	10.19.04				
Comments									
<i>Most Peculiar Item Collected?</i>		an oil filter			a nondescript large metal box apparently from a boat				
<i>Comments</i>	Plastic and styrofoam pieces also present. Very little trash.								
<u>Additional Observations and Comments</u>	r to past, fast food containers, plastic bottles, s The beach was alarmingly filthy! I filled the back of my tr								

<u>Zone 7</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
	0	0	0	0	0	0	0	0	0
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
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								
Picnicking									
	Signs of								
	Actual observation								
Horseback Riding									
	Signs of								

Date									
Comments									
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>									
<u>Additional Observations and Comments</u>	luck completely with trash- which included several large masses of metal and an old mattress. Yikes!								