

Date	25-Apr-87	30-Apr-88	29-Apr to 6	28-Apr-90	??-May-91	4-May-91	4-May-91	7-May-92	21-Sep-98
Steller's Sea Lions									
Harbor Porpoises									
Whales									
Beluga									
Orca									
Minke									
Humpback									
Gray									
Unknown									
Other/Unidentified									
<i>Please note any unusual wildlife sightings</i>									
<u>Invertebrates</u>									
<i>(from the Intertidal Biodiversity Checklist)</i>									
<i>Please note any interesting observations or changes in abundance here</i>									
<i>Sponges</i>									
Breadcrumb Sponge									
Purple Sponge									
<i>Cnidarians</i>									
<i>Anemones</i>									
Burrowing Green Anemone					x	x			x
Orange Colonial Anemone									
Frilled (Plumose) Anemone									
Christmas Anemone									
<i>Sea Jellies</i>									
Moon Jelly									
Many-ribbed Hydromedusa									
Compass Jelly									
Lion's Mane Jelly									
<i>Worms</i>									
Giant Flatworm									

Tidal pool midway-- very silty and full of fine coal deposits, rocks appear to stay snail egg c

Date	25-Apr-87	30-Apr-88	29-Apr to 6	28-Apr-90	??-May-91	4-May-91	4-May-91	7-May-92	21-Sep-98
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					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		x	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		x
Acorn Barnacle									
Pelagic Gooseneck Barnacle									
Thatched Acorn Barnacle									
Crabs		x		x				x	x

Date	25-Apr-87	30-Apr-88	29-Apr to 6	28-Apr-90	??-May-91	4-May-91	4-May-91	7-May-92	21-Sep-98
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		x	x
Band									
Attached									
Washed Up									
Red Seaweed			x	x	x	x		x	x
Band									
Attached									
Washed Up									
Rockweed							x	x	
Band									
Attached									
Washed Up									
Kelps									
Band									
Attached									
Washed Up									
Eelgrass									
Band									
Attached									
Washed Up									
Beach Substrate									
Type	sand		rocky, pebl	rocky, sand	all	rocky	rocky, pebbles, sand		sand

Date	25-Apr-87	30-Apr-88	29-Apr to 6	28-Apr-90	??-May-91	4-May-91	4-May-91	7-May-92	21-Sep-98
Comments									
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>		LOTS OF	Glass rare.	Glass, plas	Glass, alur	Glass, alur	Plastic containers, sty	Aluminum,	
<u>Additional Observations and Comments</u>				Last year c	There is still need of cleaning debris off shoulder of road				

Date	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02	10.05.05		
Other (specify)?								
Trash Bags Collected				6	4	3		
Estimated Weight of Collected Trash				40	30	30		
<u>Wildlife</u>								
<i>Birds</i>								
Loons				1	0			
Sea Ducks	2				0	40		
Other Ducks and Geese					0			
Bald Eagles					0			
Adults	1		1		0			
Immatures					0			
Nests					0			
Shorebirds					1			
Seabirds	2		66	17	45	39		
Crows and Ravens			41		0			
Others (see separate Bird list)					0			
<i>Domestic Mammals</i>								
Cattle					0			
Horses				1	0			
Dogs	4		4	3	11	3		
Other					0			
<i>Land Mammals</i>								
Moose								
Adults					0			
Calves					0			
Black Bears					0			
Brown Bears					0			
Land/River Otters					0			
Red Squirrels					0			
Tracks Identified					0			
Other					0			
<i>Marine Mammals</i>								
Sea Otters					0	1		
Harbor Seals	2			5	1			

Date	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02	10.05.05		
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								
Nuttal's Cockle				x				
Northwest Ugly Clam								
Arctic Rock Borer								
Baltic Macoma								
Stained Macoma								
Pacific Surf Clam								
Truncated Mya								
Steamer Clam (Pacific Littleneck Clam)								
Butter Clam				x				
Razor Clam				x				
Mussels	x							
Horse Mussel								
Pacific Blue Mussel				x		x		
Scallops								
Pink Scallop								
Jingles								
Rock Jingle								
Cephalopods								
Giant Pacific Octopus								
Stubby Squid								
Arthropods								
Barnacles	x		x					
Acorn Barnacle				x		x		
Pelagic Gooseneck Barnacle								
Thatched Acorn Barnacle								
Crabs	x		x					

Date	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02	10.05.05		
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					
Band								
Attached								
Washed Up						x		
Red Seaweed	x		x					
Band						x		
Attached								
Washed Up					x			
Rockweed								
Band						x		
Attached								
Washed Up								
Kelps								
Band						x		
Attached								
Washed Up					x			
Eelgrass								
Band								
Attached								
Washed Up						x		
Beach Substrate								
Type	pebbles		pebble, s	rocky, pebbles, sand				

Date	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02	10.05.05		
<u>Outfalls or Pipes</u>								
Number								
Comments								
<u>Toxic Pollution</u>								
Fuel (oil, gas, etc.)								
Lubricating Oil						x		
Paint								
Batteries								
<u>Trash & Debris</u>								
(from International Coastal Cleanup Data Card)								
<i>Shoreline and Recreational Activities</i>								
Bags/Food Wrappers			1	8	3	17		
Balloons					0			
Beverage Bottles, plastic, 2-liter or less				4	3	10		
Beverage Bottles, glass			2	2	11	7		
Beverage Cans				10	11	22		
Caps, Lids				2	10	28		
Clothing, Cloth				6	5	4		
Cups, Plates, Forks, Knives, Spoons				4	10	13		
Diapers					0	1		
Fast-food Containers				2	40			
6-pack Holders					0			
Pull Tabs				1	0	2		
Shotgun Shells/Wadding				1	1			
Straws, Stirrers					3	2		
Toys					1	2		
<i>Ocean/Waterway Activities</i>								
Bait Containers/Packaging				2	2			
Bleach/Cleaner Bottles					0	1		
Buoys/Floats					0	1		
Crab/Lobster/Fish Traps					0			
Crates					0			

Date	30-Sep-98	21-Sep-99	30-Sep-00	26-Sep-01	22.10.02	10.05.05		
Comments								
<i>Most Peculiar Item Collected?</i>				sprinkler head		1 astroturf		
				1 large 4 wheeled cart				
<i>Comments</i>	Aluminum, metal, plast	I think mos						The children enjoyed cleaning the beach--they felt they v
<u>Additional Observations and Comments</u>	The overall	Excellent c	A good par					Bird numbers down. No eagles. No seaweed. (may be

<u>Zone 6</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									
Steller's Sea Lions									
Harbor Porpoises									
Whales									
	Beluga								
	Orca								
	Minke								
	Humpback								
	Gray								
	Unknown								
Other/Unidentified									
Please note any unusual wildlife sightings in the day this time.									
<u>Invertebrates</u>									
<i>(from the Intertidal Biodiversity Checklist)</i>									
Please note any interesting observations or changes in abundance here									
Sponges									
Breadcrumb Sponge									
Purple Sponge									
Cnidarians									
Anemones									
Burrowing Green Anemone									
Orange Colonial Anemone									
Frilled (Plumose) Anemone									
Christmas Anemone									
Sea Jellies									
Moon Jelly									
Many-ribbed Hydromedusa									
Compass Jelly									
Lion's Mane Jelly									
Worms									
Giant Flatworm									

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									
<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	30								
Balloons	0								
Beverage Bottles, plastic, 2-liter or less	19								
Beverage Bottles, glass	22								
Beverage Cans	43								
Caps, Lids	40								
Clothing, Cloth	15								
Cups, Plates, Forks, Knives, Spoons	28								
Diapers	1								
Fast-food Containers	42								
6-pack Holders	0								
Pull Tabs	3								
Shotgun Shells/Wadding	2								
Straws, Stirrers	5								
Toys	3								
	0								
<i>Ocean/Waterway Activities</i>									
Bait Containers/Packaging	4								
Bleach/Cleaner Bottles	1								
Buoys/Floats	1								
Crab/Lobster/Fish Traps	0								
Crates	0								

Date									
Comments	0								
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>	were helping to maintain the beach area. Lots of pieces of small plastic. Not complete burning in firep								
<u>Additional Observations and Comments</u>	(related to time of day)								

<u>Zone 6</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			
Shoreline Walked (miles)			
Total Trip Mileage			
Did Observers . . .			
Hike?			
Kayak?			

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

Date			
Steller's Sea Lions			
Harbor Porpoises			
Whales			
	Beluga		
	Orca		
	Minke		
	Humpback		
	Gray		
	Unknown		
Other/Unidentified			
<i>Please note any unusual wildlife sightings</i>			
<u>Invertebrates</u>			
<i>(from the Intertidal Biodiversity Checklist)</i>			
<i>Please note any interesting observations or changes in abundance here</i>			
<i>Sponges</i>			
Breadcrumb Sponge			
Purple Sponge			
<i>Cnidarians</i>			
<i>Anemones</i>			
Burrowing Green Anemone			
Orange Colonial Anemone			
Frilled (Plumose) Anemone			
Christmas Anemone			
<i>Sea Jellies</i>			
Moon Jelly			
Many-ribbed Hydromedusa			
Compass Jelly			
Lion's Mane Jelly			
<i>Worms</i>			
Giant Flatworm			

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

Date			
Frilled Dogwinkle			
File Dogwinkle			
Big-mouth Whelk			
<i>Nudibranchs</i>			
Maned Nudibranch			
False Sea Lemon (False Lemon Peel)			
Orange-tipped Nudibranch			
Opalescent Nudibranch			
Bushy-backed Nudibranch			
<i>Clams</i>			
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			
<i>Mussels</i>			
Horse Mussel			
Pacific Blue Mussel			
<i>Scallops</i>			
Pink Scallop			
<i>Jingles</i>			
Rock Jingle			
<i>Cephalopods</i>			
Giant Pacific Octopus			
Stubby Squid			
<i>Arthropods</i>			
<i>Barnacles</i>			
Acorn Barnacle			
Pelagic Gooseneck Barnacle			
Thatched Acorn Barnacle			
<i>Crabs</i>			

Date			
Dungeness Crab			
Black-clawed Cancer Crab			
Red Hermit Crab			
Striped Hermit Crab			
Decorator Crab			
Carapace Crab			
Red King Crab			
Northern Kelp Crab			
Helmet Crab			
Shrimp			
Broken-back Shrimp			
Coonstripe Shrimp			
Sand Shrimp			
Isopods			
Pillbug Isopod			
Rockweek Isopod			
Amphipods			
Skeleton Shrimp			
Small Beach Hopper			
Echinoderms			
Sea Stars			
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			
Brittle Stars			
Serpent Star			
Daisy Brittle Star			
Sea Urchins			
Green Sea Urchin			

Date			
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)			
<u>Chordates</u>			
Tunicates			
Colonial Tunicate (Sea Pork)			
Sea Peach			
<u>Seaweeds</u>			
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			
<u>Beach Substrate</u>			
Type			

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			
Actual observation			
Harvesting (specify)			
Signs of			
Actual observation			
Other (specify)			
<u>Vehicle Use</u>			
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)			
<u>Structures on the Beach</u>			
Buildings			
Docks			
Driftwood Structures			
Riprapped Areas			
Erosion Control Structures			
Abandoned Vehicles			
Abandoned Boats			
Boat Parts			
<u>Archaeological Sites</u>			
Shell Middens			
Other (specify)			

Date			
<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			
Balloons			
Beverage Bottles, plastic, 2-liter or less			
Beverage Bottles, glass			
Beverage Cans			
Caps, Lids			
Clothing, Cloth			
Cups, Plates, Forks, Knives, Spoons			
Diapers			
Fast-food Containers			
6-pack Holders			
Pull Tabs			
Shotgun Shells/Wadding			
Straws, Stirrers			
Toys			
<i>Ocean/Waterway Activities</i>			
Bait Containers/Packaging			
Bleach/Cleaner Bottles			
Buoys/Floats			
Crab/Lobster/Fish Traps			
Crates			

Date			
Fishing Line			
Fishing Lures			
Fishing Nets			
Light Bulbs/Tubes			
Oil/Lube Bottles			
Pallets			
Plastic Sheeting/Tarps			
Rope			
Strapping Bands			
<i>Smoking-Related Activities</i>			
Cigarettes/Cigarette Filters			
Cigarette Lighters			
Cigar Tips			
Tobacco Packaging/Wrappers			
<i>Dumping Activities</i>			
Appliances (refrigerators, washers, etc.)			
Batteries			
Cars/Car Parts			
Construction Materials			
55-gallon Drums			
Tires			
<i>Medical/Personal Hygiene</i>			
Syringes			
Condoms			
Tampons/Tampon Applicators			
<i>Debris Items of Local Concern</i>			
<i>Entangled Animals</i>			
Type of Animal			
Form of Entangling Debris			

Date			
Comments			
<i>Most Peculiar Item Collected?</i>			
<i>Comments</i>	its of glass/cans etc. by campers.		
<u>Additional Observations and Comments</u>			