



Date	4-Nov-84	25-Apr-87	26-Apr-87	30-Apr-88	30-Apr-88	29-Apr-89	28-Apr-90	29-Apr-90	1-May-91
Other (specify)?									
<b>Trash Bags Collected</b>									1
<b>Estimated Weight of Collected Trash</b>									
<b><u>Wildlife</u></b>									
<b><i>Birds</i></b>									
Loons		11							
Sea Ducks		766	25	2				50	
Other Ducks and Geese		601		60		10			
Bald Eagles									
Adults	4	8		1	2	1	9	2	3
Immatures	2	3	1	1	10	1	5	1	1
Nests		1					2		
Shorebirds		7				100	6		4
Seabirds	6	200	3000	152	2	103	150	50	200
Crows and Ravens	1	1							2
Others (see separate Bird list)	7	4	4	3		4		2	1
<b><i>Domestic Mammals</i></b>									
Cattle		1	1						
Horses							2		
Dogs		2			1		1		
Other									
<b><i>Land Mammals</i></b>									
Moose									
Adults		1			2				
Calves									
Black Bears									
Brown Bears									
Land/River Otters									
Red Squirrels									2
Tracks Identified	cattle						moose	cattle	
Other									
<b><i>Marine Mammals</i></b>									
Sea Otters									
Harbor Seals	2			5				4	

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Steller's Sea Lions									
Harbor Porpoises									
Whales									
Beluga				25					
Orca									
Minke									
Humpback									
Gray									
Unknown									
Other/Unidentified									
<b><i>Please note any unusual wildlife sightings</i></b>	1 dead mo	1 dead cov	1 dead cov	1 cow skull	1 porpoise vertebrae		1 dead sea otter		1 dead mo
<b><u>Invertebrates</u></b>									
<i>(from the Intertidal Biodiversity Checklist)</i>									
<b><i>Please note any interesting observations or changes in abundance here</i></b>	We were at the highest tideline so were rock scrambling--thus little marine invertebrate life								Worm cast
<b><u>Sponges</u></b>									
Breadcrumb Sponge									
Purple Sponge									
<b><u>Cnidarians</u></b>									
<b><u>Anemones</u></b>									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									
<b><u>Worms</u></b>									
Giant Flatworm							x		x



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Frilled Dogwinkle									
File Dogwinkle									
Big-mouth Whelk									x
<b>Nudibranchs</b>									
Maned Nudibranch									
False Sea Lemon (False Lemon Peel)									
Orange-tipped Nudibranch									
Opalescent Nudibranch									
Bushy-backed Nudibranch									
<b>Clams</b>	x			x	x		x	x	
Nuttal's Cockle									x
Northwest Ugly Clam									
Arctic Rock Borer									
Baltic Macoma									
Stained Macoma									
Pacific Surf Clam									
Truncated Mya									x
Steamer Clam (Pacific Littleneck Clam)									x
Butter Clam									
Razor Clam									
<b>Mussels</b>	x			x	x		x	x	
Horse Mussel									x
Pacific Blue Mussel									x
<b>Scallops</b>				x					x
Pink Scallop									
<b>Jingles</b>				x					
Rock Jingle									
<b>Cephalopods</b>									
Giant Pacific Octopus									
Stubby Squid									
<b>Arthropods</b>									
<b>Barnacles</b>							x	x	x
Acorn Barnacle									
Pelagic Gooseneck Barnacle									
Thatched Acorn Barnacle									
<b>Crabs</b>				x				x	

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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>Sea Urchins</b>									
Green Sea Urchin					x				

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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><u>Tunicates</u></b>									
Colonial Tunicate (Sea Pork)									
Sea Peach									
<b><u>Seaweeds</u></b>									
Green Seaweed							x	x	x
Band									
Attached									
Washed Up									
Red Seaweed							x		x
Band									
Attached									
Washed Up									
Rockweed									x
Band									
Attached									
Washed Up									
Kelps									
Band									
Attached									
Washed Up									
Eelgrass									
Band									
Attached									
Washed Up									
<b><u>Beach Substrate</u></b>									
Type		silt, gravel	rock, sand, mud				sand, mud	rocky, pebl	pebbles









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Comments									
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>						Metal common. About 10 tV sets over the cli			Glass, alur
<b><u>Additional Observations and Comments</u></b>	Fairly clear	Gooley but	These san	Cattle and	I'm not sure we did a great job. We got fasci				Lots of coa



Date	4-May-91	28-Sep-96	29-Sep-96	26-Sep-98	20-Sep-99	23-Sep-00	16-Sep-01	9.24.04
Other (specify)?								
<b>Trash Bags Collected</b>								1
<b>Estimated Weight of Collected Trash</b>								3
<b><u>Wildlife</u></b>								
<b><i>Birds</i></b>								
Loons		2				3		
Sea Ducks				4		70	20	
Other Ducks and Geese								
Bald Eagles								
Adults	10		2	6	3	4		3
Immatures	10					1		
Nests	2		1					2
Shorebirds					1			4
Seabirds	38	39	12	50	154	45		20
Crows and Ravens				2			20	
Others (see separate Bird list)	3	1		2	4	28	3	
<b><i>Domestic Mammals</i></b>								
Cattle								
Horses	3							
Dogs	2	2				1		
Other								
<b><i>Land Mammals</i></b>								
Moose								
Adults								
Calves								
Black Bears								
Brown Bears								
Land/River Otters			1					
Red Squirrels								
Tracks Identified								
Other						2 marmots		
<b><i>Marine Mammals</i></b>								
Sea Otters		70		4		3	4	1
Harbor Seals						2		





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Frilled Dogwinkle								x
File Dogwinkle								
Big-mouth Whelk								
<b>Nudibranchs</b>								
Maned Nudibranch								
False Sea Lemon (False Lemon Peel)								
Orange-tipped Nudibranch								
Opalescent Nudibranch								
Bushy-backed Nudibranch								
<b>Clams</b>	x		x		x		x	
Nuttal's Cockle				x				
Northwest Ugly Clam								
Arctic Rock Borer								
Baltic Macoma				x				x
Stained Macoma								
Pacific Surf Clam								
Truncated Mya								
Steamer Clam (Pacific Littleneck Clam)				x				
Butter Clam				x				x
Razor Clam								x
<b>Mussels</b>	x	x	x	x	x		x	
Horse Mussel								
Pacific Blue Mussel								x
<b>Scallops</b>								
Pink Scallop								x
<b>Jingles</b>								
Rock Jingle								
<b>Cephalopods</b>								
Giant Pacific Octopus				x				
Stubby Squid								
<b>Arthropods</b>								
<b>Barnacles</b>	x	x		x	x			
Acorn Barnacle								x
Pelagic Gooseneck Barnacle								
Thatched Acorn Barnacle								x
<b>Crabs</b>		x		x			x	



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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>Chordates</b>								
<b>Tunicates</b>								
Colonial Tunicate (Sea Pork)								
Sea Peach								
<b>Seaweeds</b>								
Green Seaweed	x	x		x	x			
Band								
Attached								x
Washed Up						x		x
Red Seaweed	x			x				
Band								
Attached								x
Washed Up								x
Rockweed								
Band								
Attached								
Washed Up								
Kelps		x						
Band								
Attached								
Washed Up					x		x	x
Eelgrass								
Band								
Attached								
Washed Up							x	
<b>Beach Substrate</b>								
Type	all	pebble, sar	pebble	rocky, pebt	sand	all	all	all









<b>Date</b>	4-May-91	28-Sep-96	29-Sep-96	26-Sep-98	20-Sep-99	23-Sep-00	16-Sep-01	9.24.04
Comments								
<b><i>Most Peculiar Item Collected?</i></b>								caulking gu
<b><i>Comments</i></b>	Glass, plas	Wood, metal present.		Same as in	The only st	There is les	Very little pollution or t	
<b><u>Additional Observations and Comments</u></b>	l on beach.	1 easel on	Beach seen	Beautiful.	IT seemed	Lots of gre	Lots of coal and fossili	

<b><u>Zone 14</u></b>									
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									
<b><u>General Info</u></b>									
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?									

















<b>Date</b>									
<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			7						
Balloons			0						
Beverage Bottles, plastic, 2-liter or less			0						
Beverage Bottles, glass			6						
Beverage Cans			20						
Caps, Lids			0						
Clothing, Cloth			7						
Cups, Plates, Forks, Knives, Spoons			0						
Diapers			0						
Fast-food Containers			1						
6-pack Holders			0						
Pull Tabs			0						
Shotgun Shells/Wadding			0						
Straws, Stirrers			0						
Toys			0						
			0						
<b><i>Ocean/Waterway Activities</i></b>									
Bait Containers/Packaging			0						
Bleach/Cleaner Bottles			0						
Buoys/Floats			7						
Crab/Lobster/Fish Traps			0						
Crates			0						



<b>Date</b>									
Comments									
<b><i>Most Peculiar Item Collected?</i></b>	in and/or circular saw								
<b><i>Comments</i></b>	rash.								
<b><u>Additional Observations and Comments</u></b>	zed wood in sandstone.								