

Date	29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
Sea Otters		2		40	1		2	46	4
Harbor Seals				2				1	6
Steller's Sea Lions									
Harbor Porpoises									
Whales									

Beluga
Orca
Minke
Humpback
Gray
Unknown

Other/Unidentified

Glaucous-winged
Gull appeared to have oil on its
coyote followed and chased our dogs

Please note any unusual wildlife sightings

Invertebrates

(from the Intertidal Biodiversity

Please note any interesting changes in abundance here

Sponges

Breadcrumb Sponge
Purple Sponge

Cnidarians

Anemones

Burrowing Green Anemone
Orange Colonial Anemone
Frilled (Plumose) Anemone
Christmas Anemone

x	x	x	x					x	x
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Date	29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
Sea Jellies									
Moon Jelly									
Many-ribbed Hydromedusa									
Compass Jelly									
Lion's Mane Jelly									
Worms									
Giant Flatworm									
Nemerteans									
Amphiporus (Two-spotted) Ribbon									
Red Ribbon Worm									
Echiurans									
Fat Innkeeper (Alaskan)									
Sipunculids									
Peanut Worm									
Annelids									
Mussel Worm (Clam Worm)									
Northern Feather Duster Worm									
Cone Worm									
Calcareous Tube Worm									
Spiral Tube Worm									
Scaleworm									
Brachiopods									
Transverse Lampshell									
Mollusks									
Chitons									
Gumboot Chiton	x		x	x	x				
Black Katy Chiton									
Brick Chiton									
Mossy Chiton									
Tiger Chiton									
Lined Chiton									
Limpets									
Dunce Cap Limpet	x	x	x	x					
Plate Limpet								x	x
Snails									
Hairy Triton	x			x	x				

Date		29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
Kelps	Washed Up									
	Band Attached								x	
Eelgrass	Washed Up								x	x
	Band Attached									
	Washed Up									

<u>Beach Substrate</u>									
Type		rocky, pebl	sand	all	rocky		sand		Rocky
<u>Bluff and Cliff Erosion</u>									
	Erosion Present	yes	yes	yes	yes			yes	yes

Comments		severe	severe	severe	moderate			Active rock slide at N 59 36.557', W 151 40.713', numerous slides along coast	.20 mile s. of Dimond - 3 slides, many boulders fallen off bluff/cliff
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Date 29-Apr to 6-May-89 29-Apr-90 4-May-90 28-Apr-91 5-May-91 19-May-92 23-Sep-98 16-Sep-01 10.3.04

Vehicle Use

Cars/Trucks

Sets of tracks

1

Actual observation

ATVs/Motorcycles

Sets of tracks

20

1

2

Actual observation

Bicycles

Sets of tracks

1

Actual observation

Aircraft

Sets of tracks

Actual observation

Other (specify)

Structures on the Beach

Buildings

3

Docks

Driftwood Structures

1

Riprapped Areas

Erosion Control Structures

Abandoned Vehicles

1

chassis (ol

Abandoned Boats

Boat Parts

1

Archaeological Sites

Shell Middens

Other (specify)

Outfalls or Pipes

Number

Comments

Toxic Pollution

Fuel (oil, gas, etc.)

Date	29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
Plastic Sheeting/Tarps			5						
Rope/cable			1					5	2
Strapping Bands									

Smoking-Related Activities

Cigarettes/Cigarette Filters								1	
Cigarette Lighters									
Cigar Tips									
Tobacco Packaging/Wrappers									1

Dumping Activities

Appliances (refrigerators, washers, Batteries)									
Building Materials								1	34
Cars/Car Parts			1			2		1	
55-gallon Drums		1						1	
Tires									

Medical/Personal Hygiene

Condoms									
Diapers									
Syringes									
Tampons/Tampon Applicators									

Debris Items of Local Concern

Styrofoam pieces									20
Plastic Pieces									4
Paper products									
Metal Pieces									
Other								1	

Entangled Animals

Type of Animal	
Form of Entangling Debris	
Comments	

Date	29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
<i>Most Peculiar Item Collected?</i>								computer monitor, Asian and Russian bottles, Asian Amway bottle from suspect container spill	

Date

Comments

29-Apr to 6-May-89	29-Apr-90	4-May-90	28-Apr-91	5-May-91	19-May-92	23-Sep-98	16-Sep-01	10.3.04
				Aluminum cans, plastic containers, styrofoam, visqueen, fishing gear, vehicle parts all common. Oil cans, nets, and fishing line also present.		Aluminum, glass bottles, glass all present.		

Date

29-Apr to 6-May-89 29-Apr-90 4-May-90 28-Apr-91 5-May-91 19-May-92 23-Sep-98 16-Sep-01

10.3.04

**Additional Observations and
Comments**

Heavy erosion continues on the bluff, in substantial mud and rock slides. Large driftwood collections of large logs present near s. end of unit 2 are completely gone - no log piles

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Hike?	x	x	x	x	x
Kayak?					
Other (specify)?					
Trash Bags Collected	2	2	4	2	2
Estimated Weight of Collected	50	25	60	30	30
<u>Wildlife</u>					
<i>Birds</i>					
Loons	0		8	1	3
Sea Ducks	37	11	37	45	38
Other Ducks and Geese	0				0
Bald Eagles				1	
Adults	1			1	2
Immatures					1
Nests					
Shorebirds	0			5	1
Seabirds	51	25	27	231	55
Crows and Ravens	2	x	1	10	103
Others (see separate Bird list)	5	x	2	37	4
<i>Domestic Mammals</i>					
Cattle	0		0		0
Horses	0		0		0
Dogs	2	1	2		3
Other	0		0		0
<i>Land Mammals</i>					
Moose					
Adults	0		1		0
Calves	0		0		0
Black Bears	0		0		0
Brown Bears	0		0		0
Land/River Otters	0		0		0
Red Squirrels	0		0		0
Tracks Identified	0		0		0
Other	1 fox		0		0
<i>Marine Mammals</i>					

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Sea Otters	1		3	25	1
Harbor Seals	20	44	3		35
Steller's Sea Lions	0				0
Harbor Porpoises	0				0
Whales					0
Beluga	0				0
Orca	0				0
Minke	0				0
Humpback	0				0
Gray	0				0
Unknown	0				0
Other/Unidentified		2			1

Please note any unusual wildlife sightings

seal haul
out

Invertebrates

(from the Intertidal Biodiversity

Please note any interesting changes in abundance here

Sponges

Breadcrumb Sponge

Purple Sponge

Cnidarians

Anemones

x

Burrowing Green Anemone

Orange Colonial Anemone

Frilled (Plumose) Anemone

Christmas Anemone

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Sea Jellies					
Moon Jelly					
Many-ribbed Hydromedusa					
Compass Jelly					
Lion's Mane Jelly					
Worms					
Giant Flatworm					
Nemertean					
Amphiporus (Two-spotted) Ribbon					
Red Ribbon Worm					
Echiurans					
Fat Innkeeper (Alaskan)					
Sipunculids					
Peanut Worm					
Annelids					
Mussel Worm (Clam Worm)					
Northern Feather Duster Worm					
Cone Worm					
Calcareous Tube Worm					
Spiral Tube Worm					
Scaleworm					
Brachiopods					
Transverse Lampshell					
Mollusks					
Chitons					
Gumboot Chiton					
Black Katy Chiton					
Brick Chiton					
Mossy Chiton					
Tiger Chiton					
Lined Chiton					
Limpets					
Dunce Cap Limpet					
Plate Limpet					
Snails					
Hairy Triton					

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Sitka Periwinkle					
Helicina Margarite					
Puppet Margarite					
Aleutian Moonshell					
Ridged Neptune					
Channeled Dogwinkle					
Emarginate Dogwinkle					
Friiled Dogwinkle					
File Dogwinkle					
Big-mouth Whelk					
Nudibranchs					
Maned Nudibranch					
False Sea Lemon (False Lemon)					
Orange-tipped Nudibranch					
Opalescent Nudibranch					
Bushy-backed Nudibranch					
Little Brown Nudibranch					
Clams					
Nuttall'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					
Razor Clam					
Mussels	x	x	x	x	x
Horse Mussel					
Pacific Blue Mussel					
Scallops					
Pink Scallop					
Jingles					
Rock Jingle					

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Cephalopods				x	
Giant Pacific Octopus					
Stubby Squid					
Arthropods					
Barnacles	x	x	x		x
Acorn Barnacle					
Pelagic Gooseneck Barnacle					
Thatched Acorn Barnacle					
Crabs		x	shells		
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		x	x		
Little Six-rayed Star					
Red-banded Star (Rainbow Star)					
Ochre Star					
Sunflower Star					
Morning Sun Star					
Stimpson's Sun Star					

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Rose Star					
Leather Star					
True Star (False Ochre Star, Mottled Star)					
Blood Star					
<i>Brittle Stars</i>					
Serpent Star					
Daisy Brittle Star					
<i>Sea Urchins</i>					
Green Sea Urchin					
Red Sea Urchin					
<i>Sea Cucumbers</i>					
Silky Burrowing Cucumber					
Orange Cucumber (Red Cucumber)					
Tar-spot Cucumber (Black Cucumber)					
<i>Sand Dollars</i>					
Green-spined Sand Dollar (Northern Sand Dollar)					
<i>Chordates</i>					
<i>Tunicates</i>					
Colonial Tunicate (Sea Pork)					
Sea Peach					
<u>Seaweeds</u>					
Green Seaweed				x	
Band					
Attached		x		x	x
Washed Up	x		x		x
Red Seaweed				x	
Band					
Attached					
Washed Up	x	x	x	x	x
Rockweed					
Band					
Attached	x				x

Date		09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Kelps	Washed Up					x
	Band Attached				x	
Eelgrass	Washed Up	x	x	x	x	x
	Band Attached	x				
	Washed Up				x	

Beach Substrate

Type		ebbles, sar	cobble	cobble	cobble	cobble

Bluff and Cliff Erosion

Erosion Present		yes	yes	yes	yes	dramatic erosion from N 59°39.539' W 151°40.611' to N 59°39.461' W 151°40.251'

Comments		continouous all along bluff edge many creeks have mud outflows	erosion is common through most bluff sections. Gullies below Overlook Park are eroding more	many alders have slid onto beach	large mudslide at N 59°39.736' W 151°40.611'

Date		09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
	<u>Human Activities</u>					
Walking					x	
	Signs of	2	x	1	x	x
	Actual observation		x	2		15
Camping						
	Signs of			1		
	Actual observation					
Partying						
	Signs of					
	Actual observation					
Fire Pits						
	Signs of	1	x	2		3
	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					
	Actual observation					
Harvesting (specify)						
	Signs of					
	Actual observation					
Other (specify)						

Date		09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
	<u>Vehicle Use</u>					
Cars/Trucks	Sets of tracks	2	1	1		1
	Actual observation	1				
ATVs/Motorcycles	Sets of tracks		1		x	1
	Actual observation		1			
Bicycles	Sets of tracks					
	Actual observation					
Aircraft	Sets of tracks					3
	Actual observation					
Other (specify)						

<u>Structures on the Beach</u>						
Buildings		1	2	1	Ken Hahn cading Ken Hahn cabin)	
Docks						
Driftwood Structures						
Riprapped Areas						
Erosion Control Structures						
Abandoned Vehicles		1	1		1	1
Abandoned Boats						
	Boat Parts					

<u>Archaeological Sites</u>	
Shell Middens	
Other (specify)	

<u>Outfalls or Pipes</u>	
Number	
Comments	

<u>Toxic Pollution</u>	
Fuel (oil, gas, etc.)	

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Lubricating Oil					
Paint					
Batteries					

Trash & Debris

(from International Coastal Cleanup Data Card)

Shoreline and Recreational

Bags (Paper & Plastic)	3		1		4
Balloons				1	1
Beverage Bottles, plastic, 2-liter or	63	35	26	20	17
Beverage Bottles, glass			1		1
Beverage Cans	1	25	12	6	2
Caps, Lids	8			3	0
Clothing, Cloth	1		1		2
Cups, Plates, Forks, Knives,			1	1	1
Food Wrappers/Containers	8	4	3	3	7
6-pack Holders			1		
Pull Tabs					
Shotgun Shells/Wadding			2		2
Straws, Stirrers			1		3
Toys	2		1	2	1

Ocean/Waterway Activities

Bait Containers/Packaging	5	2			
Bleach/Cleaner Bottles		1	1	1	5
Buoys/Floats	5	1	3	2	1
Crab/Lobster/Fish Traps		1		1	1
Crates	3		1	1	
Fishing Line		1	1		
Fishing Lures	3		2	2	
Fishing Nets				1	1
Light Bulbs/Tubes			1		
Oil/Lube Bottles			1		2
Pallets		7	2		

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Plastic Sheeting/Tarps			1		1
Rope/cable	4	3	3	2	6
Strapping Bands		1	2		3

Smoking-Related Activities

Cigarettes/Cigarette Filters			3		1
Cigarette Lighters					
Cigar Tips			1		
Tobacco Packaging/Wrappers					

Dumping Activities

Appliances (refrigerators, washers, Batteries					
Building Materials		16		6	
Cars/Car Parts	1				
55-gallon Drums					
Tires					

Medical/Personal Hygiene

Condoms					
Diapers					
Syringes				2	
Tampons/Tampon Applicators				1	

Debris Items of Local Concern

Styrofoam pieces		100	21	35	25
Plastic Pieces					
Paper products					
Metal Pieces					
Other			2		3

Entangled Animals

Type of Animal
Form of Entangling Debris
Comments

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
<i>Most Peculiar Item Collected?</i>					

Date**Comments**

09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
Trash was generally less and mostly from drift. Large driftwood debris is less than in 2003. Erosion at bluff edge continues throughout the unit, but is more severe at south end. Erosion includes sand, mud and gravel slides, but also vegetation slumping.	Is treated lumber toxic?		More erosion, particularly of alders slumping onto beach. Marine debris is less. No seals seen, but many more otters.	Zone 2 is much cleaner than in the past. Ken Hahn, who has a cabin on the beach, deserves credit for policing the area. He has hauled out large debris, and he and his family regularly pick up trash.

Date	09.24.05	09.30.06	9.23.07	9.20.08	9.12.09
<u>Additional Observations and Comments</u>					