

Zone 3

Shore	north	
Total Surveys	14	
Start Point	Point	
End Point	Eroding House	
Dates Walked	1987-88, 90, 92, 96, 98-02, 05, 07-08	13-Sep
Spring Surveys	6	
Fall Surveys	12	
First Walked	1987	
Last Walked	2008	
Total Person-Hours	369.2	3.5
Total Trash Bags Collected	56	
Total Estimated Weight of Trash Collected	725	

General Info

Date	25-Apr-87	30-Apr-88	30-Apr-88	29-Apr-90	9-May-92
Start Time				1600	
End Time				1700	
Lowest Tide				-2.6	
	at time			1229	

Temperature (F)

Sky

Vertical Zones Walked:

High	x		x		
Middle		x	x		
Low			x		

# of Observers	2	3	5	2	3
Hours Spent	3	3.5	3	1	4
Person-Hours	6	10.5	15	2	12
Shoreline Walked (miles)	3	7	3		1
Total Trip Mileage					
Did Observers . . .					

Hike?	x		x	x	x
Kayak?					
Other (specify)?					

Trash Bags Collected

Estimated Weight of Collected Trash

Wildlife

Birds

Loons	1				
Sea Ducks	54		78	105	
Other Ducks and Geese				6	
Bald Eagles					
	Adults	3	2	1	7
	Immatures	1	6		6
	Nests				1
Shorebirds		4	2	2	

Seabirds	12	50	196	22	
Crows and Ravens			1		
Others (see separate Bird list)		1	2		1 dead imm

Domestic Mammals

Cattle					
Horses					
Dogs		1	1		
Other					

Land Mammals

Moose					
		Adults			
		Calves			
Black Bears					
Brown Bears					
Land/River Otters					
Red Squirrels					
Tracks Identified			squirrel	dog	
Other				2	1

Marine Mammals

Sea Otters					
Harbor Seals	2	2	6		
Steller's Sea Lions					
Harbor Porpoises					
Whales					
		Beluga			
		Orca			
		Minke			
		Humpback			
		Gray			
		Unknown			

Other/Unidentified

Please note any unusual wildlife sightings Harbor seal pup on beach seemec Wood frog 1 sea otter

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here

Sponges

Breadcrumb Sponge
Purple Sponge

Cnidarians

Anemones x
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

x

Giant Flatworm

Nemertean

Amphiporus (Two-spotted) Ribbon Worm

Red Ribbon Worm

Echiurans

Fat Innkeeper (Alaskan Spoonworm)

Sipunculids

Peanut Worm

Annelids

Mussel Worm (Clam Worm)

Northern Feather Duster Worm (Carpet 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

x

Hairy Triton

Sitka Periwinkle

Helicina Margarite

Puppet Margarite

Aleutian Moonshell

Ridged Neptune

Channeled Dogwinkle

Emarginate Dogwinkle

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

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
 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

x

Colonial Tunicate (Sea Pork)
 Sea Peach

Seaweeds

Green Seaweed			x
	Band		
	Attached		
	Washed Up		
Red Seaweed			x
	Band		
	Attached		
	Washed Up		
Rockweed			
	Band		
	Attached		
	Washed Up		
Kelps			
	Band		
	Attached		
	Washed Up		
Eelgrass			
	Band		
	Attached		
	Washed Up		

Beach Substrate

Type	pebble	rocky
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Bluff and Cliff Erosion

Comments	minor	severe
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Human Activities

Walking	Signs of Actual observation		1 10
Camping	Signs of Actual observation	6	1
Partying	Signs of Actual observation		
Fire Pits	Signs of Actual observation		
Trash Accumulations	Signs of Actual observation		
Clamming	Signs of Actual observation		1
Fishing	Signs of Actual observation		
Coaling	Signs of Actual observation		
Picnicking	Signs of Actual observation	3	
Horseback Riding	Signs of Actual observation		
Harvesting (specify)	Signs of Actual observation		
Other (specify)	Signs of Actual observation		

Vehicle Use

Cars/Trucks	Sets of tracks Actual observation	11	1
ATVs/Motorcycles	Sets of tracks Actual observation		20
Bicycles	Sets of tracks Actual observation		
Aircraft	Sets of tracks Actual observation		
Other (specify)	Sets of tracks Actual observation		

Structures on the Beach

Buildings		
Docks		
Driftwood Structures		
Riprapped Areas		
Erosion Control Structures		
Abandoned Vehicles	1	1
Abandoned Boats		
	Boat Parts	

Archaeological Sites

Shell Middens		
Other (specify)	1 (not described)	

Outfalls or Pipes

Number
Comments

Toxic Pollution

Fuel (oil, gas, etc.)		
Lubricating Oil		1
Paint		
Batteries		

Trash & Debris

(from International Coastal Cleanup Data Card)

Shoreline and Recreational Activities

Bags (Paper & Plastic)		
Balloons		
Beverage Bottles, plastic, 2-liter or less		
Beverage Bottles, glass		1
Beverage Cans		
Caps, Lids		
Clothing, Cloth		
Cups, Plates, Forks, Knives, Spoons		
Food Wrappers/Containers		
6-pack Holders		
Pull Tabs		
Shotgun Shells/Wadding		
Straws, Stirrers		
Toys		

Ocean/Waterway Activities

Bait Containers/Packaging	3	
Bleach/Cleaner Bottles		
Buoys/Floats	5	
Crab/Lobster/Fish Traps		
Crates		
Fishing Line		
Fishing Lures		
Fishing Nets		

Light Bulbs/Tubes			
Oil/Lube Bottles		1	
Pallets		10	
Plastic Sheeting/Tarps			
Rope/cable	4		
Strapping Bands			

Smoking-Related Activities

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

Dumping Activities

Appliances (refrigerators, washers, etc.)			
Batteries			
Building Materials		5	
Cars/Car Parts	1	2	1
55-gallon Drums		1	
Tires			

Medical/Personal Hygiene

Condoms
 Diapers
 Syringes
 Tampons/Tampon Applicators

Debris Items of Local Concern

Styrofoam pieces			
Plastic Pieces			123
Paper products			
Metal Pieces		3	
Other			

Entangled Animals

Type of Animal
 Form of Entangling Debris
 Comments

Most Peculiar Item Collected?

Comments

Metal, vehicle/boat par Junked van at Bluff Cr

Additional Observations and Comments

Did not have time for tr

10-May-92	22-Sep-96	26-Sep-96	29-Sep-96	30-Sep-98	20-Sep-99	25-Sep-99	27-Sep-00	17-Sep-01
			1000	1430	1018	1400	900	900
			1300	1830	1218	1700	1300	1115
								-3.7
								900
		42	50	58	46	50	50	54
		partly cloud	sunny	cloudy	cloudy	sunny	sunny	cloudy
		x	x		x			x
			x				x	x
	x	x	x			x		x
1	2	2	4	1	6	1	1	6
4.5	2	4	3	4	2	3	4	2.25
4.5	4	8	12	4	12	3	4	13.5
2	3	5	0.75	6		1	2	1.5
		10					4	4
x	x	x	x	x	x		x	x
	1							2
								30
					8			
			134		17		86	50
	2							
6	1	3	3		1			1
		1						

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

			X			X	
							X
		X		X			X
							X
							X
			X				X
			X				X
X	X	X	X				
							X
X	X	X	X		X		
					X		X
							X
X							X
							X
							X

all rocky, pebb rocky rocky, pebb rocky, sand pebbles, sa rocky, sand
 moderate to severe slight severe moderate to severe moderate moderate to

1	1	1		1	1	4	
1	3	1	6			6	6
1	1		1				

					2	3	1
--	--	--	--	--	---	---	---

				1	2		1
--	--	--	--	---	---	--	---

1							1
---	--	--	--	--	--	--	---

	1		1			1	2
1	2					5	
		1					

1

ritual 1 (driftwood)

1			1	1		1	
1	3	1					2
			1				

2

1

3

1

1
some for

1
1

2
2

1 (1 gal antifreeze)

8

3

4
12

10

15
6
11
13
4
11

8

2

1

6
2
3

3

1

2
1
1

1

1
3

3

3
2
1

3

1

1

5

1

5

1

2

woolly marr

Aluminum, Glass bottle Aluminum, Less garba Some burie Pop cans r: Aluminum, glass, plasti

ash pickup. Clean, bea The beach Overall very clean of garbage. Tru Beach look Was fairly clean, excep similar to last year concer

25.09.02	09.17.05	9.12.07	9.17.08	9.13.10	10.1.10	9.10.11	5.5.12	5.22.12
930	910	817	1020	11am				
1200	210	1317	1322	2:30pm				
4	-3	-1	-0.1					
1130		911	1013					
50	50	40	40	60				
cloudy	partly cloudy	clouds	clouds	fog				
x	x	x	x					
x		x		x				
2	4	2	2	1	45	4	10	4
2.5	5	5	3	3.5	3	2	2.5	3.5
5	20	10	6		135	8	25	14
2	2	4	4.5	3	3	1	1	0.5
4	6	40	36.5	6				
x	x	x	x			x	x	x
2	3	2	3	1	10	2	10	4
?		30	20	25	200	11	127	68
0						2		
5		19	30					
0						50		
				1		3		
1	2	6	1	9		2		
0		1		1		1		
0		1	1					
0		0						

30	114	x			54
40		x			
		x	1		
		0			
		0			
1	5	0	2		
		0			
		0			
0	0	0			
2	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
2	5	31	5	1	4
0	1	67	18	1	
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0			

immoth hairball

re much more qualified ppl were monitoring this area

of thousands of protruding siphons--carpet worms! Massive school of thousands of transparent tiny fish

x

x

x

x

x
x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

rocky, sandy, rocky, sandy, cobble cobble cobble sandy, cobble

and slipping yes areas along yes yes

	0		1
	0		
1	0	1	
	2	1	
1	0		
7	0		2
	0		

1
am on creek runouts

3	1	3		17	4	10	5
	0					2	
9	7	15	8	36	10	22	19
8	4	3	1	130	1	38	17
20	14	15	1	34	2	18	32
2	4	3	1	37	5	38	7
12	2	2	1	16	3	9	4
4	2	1	1	3	2	11	3
5	2	3	2	27	4	51	14
				12			1
				1		27	1
2	1		2	11		11	
2				1		54	2
				2			1
	13	1			1	1	
2	2		1	15		2	
1		4	1	6		1	
						2	
				1		1	
			1	1			
			1	2	1	1	

						1			
			1						1
				1	1			1	
8		3	3			11	1	2	2
3						1	1	8	2
								2	
18						12	1	1242	19
1				1		2		1	
						3		1	
1						14		2	1
1 tv				1	1				
						1			2
1		8		5		60			
1				3	1	7	1		
1						3			
								2	
		0							
			50	30		593	7	27	25
						150	3	50	15
							1	27	
							4	322	
								24	3

ind pile of baby clothes, jeans, cook pot car frame, blue funnel pots and pa

cs common. Also styrofoam and n lots of rocks, lots of bluff erosion

t for high tide line.

itration of c:uoys(2) metal, glass, plastics and styrofoam noted as present.

3

6

1

970
269
17

0
0
55
0

0
2
0
0
0
1
0
3

4

6

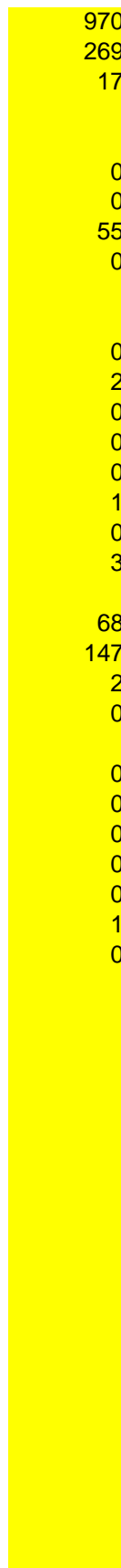
6
50

68
147
2
0

0
0
0
0
0
1
0

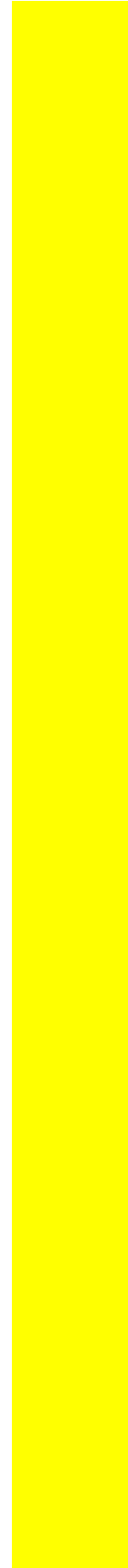
or shrimp--fascinating!

x



x
x

x



boulder rubble, boulder, mud sand

yes yes yes, pretty much everywhere

x 1 x
x 1 2 10

x
2 x x 1 3

x 1 2 3
x 1 1

x
many 1



6

			3		1	6	58
			1				3
2	5	7		12	45	5	212
	1	9				2	233
	2	5		2	1	10	177
3	1	12		2		16	128
		5					58
5	1	8			4	2	56
2	1	19			5	68	135
							13
							29
							27
3		7				6	71
			1				4
							26
							24
				1	12		38
							0
							4
							3
					10	1	13
							6

				4	5			2
								15
								13
	1		1					13
	3		6	1		4		52
						1		8
			97		1	89		1393
					2			7
			3		2	9		4
								23
								3
						4		3
		1	78		5	59		169
			3					26
								1
						2		4
			1					
						2		3
						1		0
								0
								0
28	48	26		40	500	45		1374
3	4	14			30	7		392
	3	38				15		69
1	1	21				4		354
				3	200	57		240
						415		

seal
none
dead

ans

toothbrush 4 flip flops

walked after storm surge and extreme high tides, lots of ig wood and styrofoam