## 2011 Summary

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Observers</td>
<td>862</td>
</tr>
<tr>
<td>Hours Spent</td>
<td>94.65</td>
</tr>
<tr>
<td>Person-Hours</td>
<td>1289</td>
</tr>
<tr>
<td>Shoreline Walked (miles)</td>
<td>74.12</td>
</tr>
<tr>
<td>Total Trip Mileage</td>
<td>84.49</td>
</tr>
<tr>
<td>Did Observers . . .</td>
<td>0</td>
</tr>
<tr>
<td>Hike?</td>
<td>x</td>
</tr>
<tr>
<td>Kayak?</td>
<td></td>
</tr>
<tr>
<td>Other (specify)?</td>
<td></td>
</tr>
<tr>
<td>Trash Bags Collected</td>
<td>249.15</td>
</tr>
<tr>
<td>Estimated Weight of Collected Trash</td>
<td>7031.5</td>
</tr>
</tbody>
</table>

## Wildlife

### Birds
- Loons: 6
- Sea Ducks: 217
- Other Ducks and Geese: 300
- Bald Eagles: 3
  - Adults: 11
  - Immatures: 3
  - Nests: 7
- Shorebirds: 0
- Seabirds: 698
- Crows and Ravens: 4
- Others: 0
- Other: 0

### Domestic Mammals
- Cattle: 0
- Horses: 0
- Dogs: 9
- Other: 0

### Land Mammals
- Moose: 0
  - Adults: 0
  - Calves: 0
- Black Bears: 0
- Brown Bears: 0
- Land/River Otters: 0
- Red Squirrels: 4
- Tracks Identified: 0
- Other: 0

### Marine Mammals
- Sea Otters: 14
- Harbor Seals: 15
- Steller's Sea Lions: 0
Harbor Porpoises 0
Whales 0
  Beluga 0
  Orca 0
  Minke 0
  Humpback 0
  Gray 0
  Unknown 0
Other/Unidentified 0

Please note any unusual wildlife sightings

Invertebrates
(from the Intertidal Biodiversity Checklist)

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

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**
Hairy Triton
Sitka Periwinkle
Helicina Margarite
Puppet Margarite
Aleutian Moonsnail
Rridged 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**
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**
Horse Mussel
Pacific Blue Mussel
Scallops
Pink Scallop

Jingles
Rock Jingle

Cephalopods
Giant Pacific Octopus
Stubby Squid

Arthropods

Barnacles
Acorn Barnacle
Pelagic Gooseneck Barnacle
Thatched Acorn Barnacle

Crabs
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
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
   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

**Beach Substrate**
Type

**Bluff and Cliff Erosion**
Comments

**Human Activities**
Walking
   Signs of 2
<table>
<thead>
<tr>
<th>Activity</th>
<th>Signs</th>
<th>Actual observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camping</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Partying</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Fire Pits</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>Trash Accumulations</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Clamming</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fishing</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coaling</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Picnicking</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Horseback Riding</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Harvesting (specify)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Vehicle Use**

<table>
<thead>
<tr>
<th>Class</th>
<th>Sets of tracks</th>
<th>Actual observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cars/Trucks</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>ATVs/Motorcycles</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Bicycles</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aircraft</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
### Structures on the Beach

- Buildings: 10
- Docks: 0
- Driftwood Structures: 3
- Riprapped Areas: 0
- Erosion Control Structures: 6
- Abandoned Vehicles: 3
- Abandoned Boats: 0
- Boat Parts: 0

### Archaeological Sites

- Shell Middens: 0
- Other (specify): 0

### Outfalls or Pipes

- Number: 10
- Comments: 11

### Toxic Pollution

- Fuel (oil, gas, etc.): 0
- Lubricating Oil: 0
- Paint: 0
- Batteries: 0

### Trash & Debris

(from International Coastal Cleanup Data Card)

- Bags (Paper & Plastic): 938
- Balloons: 60
- Beverage Bottles, plastic, 2-liter or less: 569
- Beverage Bottles, glass: 770
- Beverage Cans: 941
- Caps, Lids: 893
- Clothing, Cloth: 268
- Cups, Plates, Forks, Knives, Spoons: 281
- Food Wrappers/Containers: 1531
- 6-pack Holders: 34
- Pull Tabs: 53
- Shotgun Shells/Wadding: 257
- Straws, Stirrers: 375
- Toys: 58

### Shoreline and Recreational Activities

- Bait Containers/Packaging: 40

### Ocean/Waterway Activities

- Bait Containers/Packaging: 40
### Bleach/Cleaner Bottles
- 40

### Buoys/Floats
- 91

### Crab/Lobster/Fish Traps
- 9

### Crates
- 8

### Fishing Line
- 145

### Fishing Lures
- 28

### Fishing Nets
- 25

### Light Bulbs/Tubes
- 10

### Oil/Lube Bottles
- 21

### Pallets
- 8

### Plastic Sheeting/Tarps
- 138

### Rope/cable
- 351

### Strapping Bands
- 44

#### Smoking-Related Activities

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cigarettes/Cigarette Filters</td>
<td>2007</td>
</tr>
<tr>
<td>Cigarette Lighters</td>
<td>29</td>
</tr>
<tr>
<td>Cigar Tips</td>
<td>56</td>
</tr>
<tr>
<td>Tobacco Packaging/Wrappers</td>
<td>114</td>
</tr>
</tbody>
</table>

#### Dumping Activities

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appliances (refrigerators, washers, etc.)</td>
<td>14</td>
</tr>
<tr>
<td>Batteries</td>
<td>24</td>
</tr>
<tr>
<td>Building Materials</td>
<td>446</td>
</tr>
<tr>
<td>Cars/Car Parts</td>
<td>68</td>
</tr>
<tr>
<td>55-gallon Drums</td>
<td>2</td>
</tr>
<tr>
<td>Tires</td>
<td>171</td>
</tr>
</tbody>
</table>

#### Medical/Personal Hygiene

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condoms</td>
<td>7</td>
</tr>
<tr>
<td>Diapers</td>
<td>29</td>
</tr>
<tr>
<td>Syringes</td>
<td>1</td>
</tr>
<tr>
<td>Tampons/Tampon Applicators</td>
<td>7</td>
</tr>
</tbody>
</table>

#### Debris Items of Local Concern

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrofoam pieces</td>
<td>9645</td>
</tr>
<tr>
<td>Plastic Pieces</td>
<td>2424</td>
</tr>
<tr>
<td>Paper products</td>
<td>611</td>
</tr>
<tr>
<td>Metal Pieces</td>
<td>1172</td>
</tr>
<tr>
<td>Other</td>
<td>238</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25051</strong></td>
</tr>
</tbody>
</table>

#### Total Pieces of Debris Collected

#### Entangled Animals

<table>
<thead>
<tr>
<th>Type of Animal</th>
<th>Form of Entangling Debris</th>
<th>Comments</th>
</tr>
</thead>
</table>
Most Peculiar Item Collected?

Comments

Additional Observations and Comments