

	A	B	C	BB	BC	BD
1						
2	<u>Zone 1</u>					
3	Shore	North				
4	Total Surveys	24				
5	Start Point	Anchor Point				
6	Start Lat/Long	.4 N 151 40.7 W				
7	End Point	Diamond Gulch				
8	End Lat/Long					
9	Dates Walked	1984, 87-92, 96, 98, 2000-05, 07-09				
10	Spring Surveys	14				
11	Fall Surveys	18				
12	First Walked	1984				
13	Last Walked	2009				
14	Total Person-Hours	1502				
15	Total Trash Bags Collected	199.25				
16	Total Estimated Weight of Trash Collected	2568				
17						
18	<u>General Info</u>					
19	Date	30-Nov-84	25-Apr-87	9.6.12	9.21.2014	9.25.14
20	Start Time				10:00	11:00
21	End Time				14:00	13:30
22	Lowest Tide					-1.1
23	at time					22:04
24	Temperature (F)				60	55
25	Sky				Sun	sun
26	Vertical Zones Walked:					
27	High				x	x
28	Middle				x	x
29	Low		x			
30	# of Observers	5	3	80	6	2
31	Hours Spent	1	2	1.5	4	2
32	Person-Hours	5	6	120	24	4
33	Shoreline Walked (miles)		2	3	3.5	1.5
34	Total Trip Mileage			6	3.5	13
35	Did Observers . . .					
36	Hike?	x		x	x	x
37	Kayak?					
38	Other (specify)?					bike
39	Trash Bags Collected			5	3	2
40	Estimated Weight of Collected Trash			200		8
41						
42	<u>Wildlife</u>					
43	<i>Birds</i>					
44	Loons	1	1		5	
45	Sea Ducks	50	7			
46	Other Ducks and Geese					
47	Bald Eagles					
48	Adults	4	1			3
49	Immatures		4		2	

	A	B	C	BB	BC	BD
50	Nests	1				
51	Shorebirds		10			
52	Seabirds	50	50			
53	Crows and Ravens	27	3			
54	Others (see separate Bird list)	2				
55						
56	Domestic Mammals					
57	Cattle					
58	Horses					
59	Dogs	1	4		3	
60	Other					
61	Land Mammals					
62	Moose					
63	Adults					
64	Calves					
65	Black Bears					
66	Brown Bears					
67	Land/River Otters					
68	Red Squirrels					
69	Tracks Identified					
70	Other					
71	Marine Mammals					
72	Sea Otters	1				12
73	Harbor Seals	50			1	12
74	Steller's Sea Lions					
75	Harbor Porpoises					
76	Whales					
77	Beluga					
78	Orca					
79	Minke					
80	Humpback					
81	Gray					
82	Unknown					
83	Other/Unidentified					
84						
85	Please note any unusual wildlife sightings	Harbor seals found off Slide Point				
86						
87						
88	<u>Invertebrates</u>					
89	<i>(from the Intertidal Biodiversity Checklist)</i>					
90						
91	Please note any interesting observations or					
92	changes in abundance here					
93						
94	Sponges					
95	Breadcrumb Sponge					
96	Purple Sponge					
97	Cnidarians					
98	Anemones					
99	Burrowing Green Anemone					
100	Orange Colonial Anemone					

	A	B	C	BB	BC	BD
101	Frilled (Plumose) Anemone					
102	Christmas Anemone					
103	Sea Jellies					
104	Moon Jelly					
105	Many-ribbed Hydromedusa					
106	Compass Jelly					
107	Lion's Mane Jelly					
108	Worms					
109	Giant Flatworm					
110	Nemertean					
111	Amphiporus (Two-spotted) Ribbon Worm					
112	Red Ribbon Worm					
113	Echiurans					
114	Fat Innkeeper (Alaskan Spoonworm)					
115	Sipunculids					
116	Peanut Worm					
117	Annelids					
118	Mussel Worm (Clam Worm)					
119	Northern Feather Duster Worm (Carpet Worm)					
120	Cone Worm					
121	Calcareous Tube Worm					
122	Spiral Tube Worm					
123	Scaleworm					
124	Brachiopods					
125	Transverse Lampshell					
126	Mollusks					
127	Chitons					
128	Gumboot Chiton					
129	Black Katy Chiton					
130	Brick Chiton					
131	Mossy Chiton					
132	Tiger Chiton					
133	Lined Chiton					
134	Limpets					
135	Dunce Cap Limpet					
136	Plate Limpet					
137	Snails					
138	Hairy Triton					
139	Sitka Periwinkle					
140	Helicina Margarite					
141	Puppet Margarite					
142	Aleutian Moonshell					
143	Ridged Neptune					
144	Channeled Dogwinkle					
145	Emarginate Dogwinkle					
146	Frilled Dogwinkle					
147	File Dogwinkle					
148	Big-mouth Whelk					
149	Nudibranchs					
150	Maned Nudibranch					
151	False Sea Lemon (False Lemon Peel)					

	A	B	C	BB	BC	BD
152	Orange-tipped Nudibranch					
153	Opalescent Nudibranch					
154	Bushy-backed Nudibranch					
155	Clams					
156	Nuttal's Cockle					
157	Northwest Ugly Clam					
158	Arctic Rock Borer					
159	Baltic Macoma					
160	Stained Macoma					
161	Pacific Surf Clam					
162	Truncated Mya					
163	Steamer Clam (Pacific Littleneck Clam)					
164	Butter Clam					
165	Razor Clam					
166	Mussels					
167	Horse Mussel					
168	Pacific Blue Mussel					
169	Scallops					
170	Pink Scallop					
171	Jingles					
172	Rock Jingle					
173	Cephalopods					
174	Giant Pacific Octopus					
175	Stubby Squid					
176	Arthropods					
177	Barnacles					
178	Acorn Barnacle					
179	Pelagic Gooseneck Barnacle					
180	Thatched Acorn Barnacle					
181	Crabs					
182	Dungeness Crab					
183	Black-clawed Cancer Crab					
184	Red Hermit Crab					
185	Striped Hermit Crab					
186	Decorator Crab					
187	Carapace Crab					
188	Red King Crab					
189	Northern Kelp Crab					
190	Helmet Crab					
191	Shrimp					
192	Broken-back Shrimp					
193	Coonstripe Shrimp					
194	Sand Shrimp					
195	Isopods					
196	Pillbug Isopod					
197	Rockweek Isopod					
198	Amphipods					
199	Skeleton Shrimp					
200	Small Beach Hopper					
201	Echinoderms					
202	Sea Stars					

	A	B	C	BB	BC	BD
203	Little Six-rayed Star					
204	Red-banded Star (Rainbow Star)					
205	Ochre Star					
206	Sunflower Star					
207	Morning Sun Star					
208	Stimpson's Sun Star					
209	Rose Star					
210	Leather Star					
211	True Star (False Ochre Star, Mottled Star)					
212	Blood Star					
213	Brittle Stars					
214	Serpent Star					
215	Daisy Brittle Star					
216	Sea Urchins					
217	Green Sea Urchin					
218	Red Sea Urchin					
219	Sea Cucumbers					
220	Silky Burrowing Cucumber					
221	Orange Cucumber (Red Cucumber)					
222	Tar-spot Cucumber (Black Cucumber)					
223	Sand Dollars					
224	Green-spined Sand Dollar (Northern Sand Dollar)					
225	Chordates					
226	Tunicates					
227	Colonial Tunicate (Sea Pork)					
228	Sea Peach					
229						
230	Seaweeds					
231	Green Seaweed					
232	Band					
233	Attached					
234	Washed Up					
235	Red Seaweed					
236	Band					
237	Attached					
238	Washed Up					
239	Rockweed					
240	Band					
241	Attached					
242	Washed Up					
243	Kelps					
244	Band					
245	Attached					
246	Washed Up					
247	Eelgrass					
248	Band					
249	Attached					
250	Washed Up					
251						
252	Beach Substrate					
253	Type		all			cobble

	A	B	C	BB	BC	BD
254						
255	<u>Bluff and Cliff Erosion</u>					yes
256	Comments		serious erosion	continued along	le cliffs, slo	
257						
258						
259						
260	<u>Human Activities</u>					
261	Walking					
262	Signs of					x
263	Actual observation	1	2		4	x
264	Camping					
265	Signs of					x
266	Actual observation		2		1	
267	Partying					
268	Signs of				3	x
269	Actual observation					
270	Fire Pits					
271	Signs of					x
272	Actual observation		1		6	
273	Trash Accumulations					
274	Signs of					x
275	Actual observation					
276	Clamming					
277	Signs of					
278	Actual observation					
279	Fishing					
280	Signs of				2	x
281	Actual observation		4			
282	Coaling					
283	Signs of	1				
284	Actual observation					
285	Picnicking					
286	Signs of					x
287	Actual observation				1	
288	Horseback Riding					
289	Signs of					
290	Actual observation					
291	Harvesting (specify)					
292	Signs of					
293	Actual observation					
294	Other (specify)				biking: 2	
295						
296	<u>Vehicle Use</u>					
297	Cars/Trucks					
298	Sets of tracks					1
299	Actual observation		11		2	
300	ATVs/Motorcycles					
301	Sets of tracks				3	2
302	Actual observation					
303	Bicycles					
304	Sets of tracks					2

	A	B	C	BB	BC	BD
305	Actual observation		1			1
306	Aircraft					
307	Sets of tracks					
308	Actual observation					
309	Other (specify)					
310						
311						
312	<u>Structures on the Beach</u>					
313	Buildings				3	
314	Docks					
315	Driftwood Structures				1	
316	Riprapped Areas					
317	Erosion Control Structures					
318	Abandoned Vehicles	2				
319	Abandoned Boats					
320	Boat Parts					
321						
322	<u>Archaeological Sites</u>					
323	Shell Middens					
324	Other (specify)					
325						
326	<u>Outfalls or Pipes</u>					
327	Number					
328	Comments					
329						
330	<u>Toxic Pollution</u>					
331	Fuel (oil, gas, etc.)					
332	Lubricating Oil					
333	Paint					
334	Batteries					
335						
336	<u>Trash & Debris</u>					
337	(from International Coastal Cleanup Data Card)					
338						
339	<u>Shoreline and Recreational Activities</u>					
340	Bags (Paper & Plastic)			40	2	
341	Balloons			1		
342	Beverage Bottles, plastic, 2-liter or less		2	26	40	16
343	Beverage Bottles, glass		2	57	1	
344	Beverage Cans	2	lots	95	36	2
345	Caps, Lids			54	42	2
346	Clothing, Cloth			25		
347	Cups, Plates, Forks, Knives, Spoons			16	4	
348	Food Wrappers/Containers			63	17	
349	6-pack Holders					
350	Pull Tabs			12		
351	Shotgun Shells/Wadding			11		1
352	Straws, Stirrers			8		
353	Toys			5		
354						
355	<u>Ocean/Waterway Activities</u>					

	A	B	C	BB	BC	BD
356	Bait Containers/Packaging			2		
357	Bleach/Cleaner Bottles	1				
358	Buoys/Floats		2	6	3	3
359	Crab/Lobster/Fish Traps					
360	Crates			1		
361	Fishing Line		3	20		
362	Fishing Lures			3		
363	Fishing Nets					
364	Light Bulbs/Tubes			1		
365	Oil/Lube Bottles			3		2
366	Pallets					
367	Plastic Sheeting/Tarps			5		
368	Rope/cable	20		25	4	
369	Strapping Bands			7	2	
370						
371	Smoking-Related Activities					
372	Cigarettes/Cigarette Filters			116	11	
373	Cigarette Lighters			1	1	
374	Cigar Tips			30		
375	Tobacco Packaging/Wrappers			8		
376						
377	Dumping Activities					
378	Appliances (refrigerators, washers, etc.)					
379	Batteries					
380	Building Materials			15	29	8
381	Cars/Car Parts			7		
382	55-gallon Drums	1				
383	Tires					
384						
385	Medical/Personal Hygiene					
386	Condoms					
387	Diapers			15	1	
388	Syringes					
389	Tampons/Tampon Applicators			1		
390						
391	Debris Items of Local Concern					
392	Styrofoam pieces			365	46	7
393	Plastic Pieces			169	25	
394	Paper products			113		
395	Metal Pieces			102		
396	Other			2	874	4
397						
398	Entangled Animals					
399	Type of Animal					
400	Form of Entangling Debris					
401	Comments			Dead animal: bird, unidentified		
402						
403	Most Peculiar Item Collected?					plastic bird
404						

	A	B	C	BB	BC	BD
	Comments					
405						
406						
407						
408	<u>Additional Observations and Comments</u>	abandoned	Wear boots that fit! Take photos to document			
409						
410						

	BE	BF	BG	BH	BI	BJ	BK	BL	BM
1									
2									
3									
4									
5									
6			59°51'37" N 151°47'34"W						
7									
8			59° 46'13" N, 151° 51'9"W						
9									
10									
11									
12									
13									
14									
15									
16									
17									
18			Chapman						
19	9.21, 9.25.14	10.8.16	9/25/2017						
20		12:00	12:00						
21		14:00	1:30						
22			1.4						
23			11:38						
24		45	47						
25		clouds	sun						
26			high & mid						
27		x	1						
28		x	1						
29									
30	8	3	143						
31	6	2	1.5						
32	28	6	214.5						
33	5	0.8	1						
34	16.5		2						
35									
36	x		1						
37									
38									
39	5	1	15						
40	8	15	174 lbs						
41									
42									
43									
44	5			76					
45				1572					
46				2					
47				1					
48	3			129					
49	2			64					

	BE	BF	BG	BH	BI	BJ	BK	BL	BM
203									
204									
205									
206									
207									
208									
209									
210									
211									
212									
213									
214									
215									
216									
217									
218									
219									
220									
221									
222									
223									
224									
225									
226									
227									
228									
229									
230									
231									
232									
233									
234									
235									
236									
237		x							
238									
239									
240		x							
241									
242									
243									
244									
245		x							
246									
247									
248									
249		x							
250									
251									
252									
253	cobble	cobble							

	BE	BF	BG	BH	BI	BJ	BK	BL	BM
356		7		57					
357		2		66					
358	6		2	169					
359				2					
360				13					
361		1	28	166					
362				92					
363		1	10	44					
364				17					
365	2		7	97					
366				4					
367				70					
368	4	1	47	222					
369	2		1	44					
370									
371									
372	11	4	173	1091					
373	1		1	25					
374			44	165					
375			5	43					
376									
377									
378				5					
379				10					
380	37		386	299					
381				80					
382				10					
383				20					
384									
385									
386				0					
387	1		1	24					
388				2					
389			1	2					
390									
391									
392	53	1	125	1574					
393	25	5	156	802					
394			48	297					
395				175					
396	878		401	2215					
397			1838						
398									
399									
400									
401									
402									
403	entire fishing p Q-tips								
404	mouthpiece								

