



Alaska Commercial Divers, Inc.

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TLF Location: Lab Bay
Subject: Bark Monitoring Survey
Survey Date: June 25, 2001
Report Date: July 25, 2001

Survey Protocol and Analytical Methods:

Tim Scanlon, of Alaska Commercial Divers, Inc; dove at this site to determine the extent of bark debris cover. The diver also recorded the depths and substrate types where organisms were found.

Five transect lines were established from the center of the DGPS at 56 18.07 N and 133 37.18 W. ACD, Inc acquired this DGPS from the mark found on the beach next to the bulkhead. Each transect radiated seaward with all transects arranged 30 degrees apart from one another. The bearings of these transects were 245, 215, 275, 185, and 155 degrees. The compass bearing was established at the beginning of each transect, and followed until the end of that transect.

Measurements of bark deposition depth, and percent of bark coverage was measured by the diver at 15 foot intervals along each transect. Bark depth was measured to the nearest inch at each station with a three-foot metal ruler. The percent of bark coverage was estimated within a 3' x 3' area in the immediate vicinity of the measuring station. At measuring stations where cover was less than 10 percent the area covered was recorded as "trace". Measurements were made along each transect until bark deposits were no longer visible, or until water depth exceeded 60 feet MLLW.

Observations and Conclusions:

The substrate type at this site mostly consisted of rock and gravel with some sand. There was no Metal debris found at this site. Marine life recorded included sea cucumbers, sea stars, sun stars, barnacles, crabs, sea algae and kelp. The diver covered a total of 65,306.25 square feet. There is no continuous cover. Discontinuous cover is 65,306.25 square feet or 1.5 acres.

Reports Prepared by: Jeani Purdy

Dives Performed by: Tim Scanlon

SURVEY SITE: LAB BAY

COMPASS BEARING: 245Degrees

SURVEY DATE: 6/25/2001

Station	Water Depth @ MLLW	% Bark cover	Bark depth	Substrate Type	# & Types of Marine organisms	Metal & foreign debris
15	8 ft	95	20	Bark/Silt	None	None
30	13 ft	90	25	Bark/Silt	None	None
45	16 ft	100	19	Bark/Silt	Sea Anemones	None
60	20 ft	80	17	Bark/Silt	None	None
75	15 ft	80	19	Bark/Silt	None	None
90	26 ft	60	16	Bark/Silt	None	None
105	27 ft	50	16	Bark/Silt	None	None
120	28 ft	50	16	Bark/Silt	Link cod	None
135	29 ft	50	5	Bark/Silt	None	None
150	28 ft	0	0	Silt	None	None

COMPASS BEARING: 215 Degrees

SURVEY DATE: 6/25/2001

Station	Water Depth @ MLLW	% Bark cover	Bark depth	Substrate Type	# & Types of Marine organisms	Metal & foreign debris
0	2 ft	95	13	Bark/Silt	None	None
15	9 ft	95	27	Bark/Silt	None	None
30	13 ft	90	23	Bark/Silt	Sea Anemones, Sun Star	None
45	17 ft	75	23	Bark/Silt	Sun Star	None
60	22 ft	95	19	Bark/Silt	Sea Star	None
75	25 ft	90	13	Bark/Silt	None	None
90	27 ft	80	7	Bark/Silt	None	None
105	28 ft	30	20	Silt	None	None
120	28 ft	10	17	Silt	None	None
135	29 ft	10	22	Silt	None	None
150	29 ft	0	11	Silt	None	None

COMPASS BEARING: 275 Degrees

SURVEY DATE: 6/25/2001

Station	Water Depth @ MLLW	% Bark cover	Bark depth	Substrate Type	# & Types of Marine organisms	Metal & foreign debris
15	8 ft	50	23	Bark/Silt	None	None
30	11 ft	100	27	Bark/Silt	None	None
45	16 ft	90	25	Bark/Silt	Sea Anemone	None
60	18 ft	80	25	Bark/Silt	None	None
75	22 ft	70	23	Bark/Silt	None	None
90	25 ft	50	16	Bark/Silt	None	None
105	27 ft	50	10	Bark/Silt	None	None
120	28 ft	40	18	Silt	None	None
135	28 ft	30	11	Silt	None	None
150	28 ft	30	9	Silt	None	None
165	28 ft	20	9	Silt	Sea Star	None
180	28 ft	5	9	Silt	None	None

SURVEY SITE: LAB BAY

COMPASS BEARING: 185 Degrees

SURVEY DATE: 6/25/2001

Station	Water Depth @ MLLW	% Bark cover	Bark depth	Substrate Type	# & Types of Marine organisms	Metal & foreign debris
15	8 ft	50	9	Gravel/Silt/ Bark	None	None
30	9 ft	80	13	Gravel/Silt/ Bark	None	None
45	9 ft	50	7	Gravel/Silt/ Bark	None	None
60	11 ft	80	8	Gravel/Silt/ Bark	Kelp	None
75	12 ft	80	13	Gravel/Silt/ Bark	Crab	None
90	15 ft	90	10	Gravel/Silt/ Bark	Kelp	None
105	17 ft	90	9	Gravel/Silt/ Bark	Sea Cucumber	None
120	18 ft	90	8	Bark/Silt	Sea Cucumber	None
135	20 ft	95	12	Bark/Silt	Sea Anemone / Cucumber	None
150	22 ft	50	7	Bark/Silt	None	None
165	23 ft	60	8	Bark/Silt	None	None
180	25 ft	50	5 ½	Bark/Silt	Kelp/Sea Cucumber	None
195	27 ft	80	10	Bark/Silt	Sea Anemone/ Cucumber	None
210	27 ft	80	11	Bark/Silt	None	None
225	28 ft	60	9	Bark/Silt	Kelp	None
240	29 ft	80	9	Bark/Silt	Kelp	None
255	30 ft	60	10	Bark/Silt	Kelp	None
270	30 ft	50	8	Bark/Silt	None	None
285	31 ft	50	8	Bark/Silt	None	None
300	31 ft	70	8	Bark/Silt	None	None
315	31 ft	50	13	Bark/Silt	None	None
330	31 ft	90	10	Bark/Silt	None	None
345	30 ft	80	8	Bark/Silt	None	None
360	29 ft	80	7	Bark/Silt	None	None
375	29 ft	90	7	Bark/Silt	Sea Cucumber	None
390	29 ft	95	4	Bark/Silt	Sea Cucumber	None
405	29 ft	100	5	Bark/Silt	Sea Cucumber	None
420	28 ft	80	9	Bark/Silt	Sea Cucumber	None
435	29 ft	70	5	Bark/Silt	Sea Cucumber	None
450	29 ft	80	8	Bark/Silt	Sea Cucumber	None
465	31 ft	60	9	Bark/Silt	Sea Cucumber	None
480	31 ft	50	5	Bark/Silt	Sea Cucumber	None
495	33 ft	40	9	Bark/Silt	None	None
510	33 ft	50	4	Bark/Silt	None	None
525	33 ft	10	5	Bark/Silt	Sun Star	None

SURVEY SITE: LAB BAY

COMPASS BEARING: 155 degrees

SURVEY DATE: 6/25/2001

Station	Water Depth @ MLLW	% Bark cover	Bark depth	Substrate Type	# & Types of Marine organisms	Metal & foreign debris
15	1 ft	0	0	Gravel	None	None
30	1 ft	90	12	Bark/Gravel	Sea Star	None
45	2 ft	50	8	Bark/Gravel	None	None
60	2 ft	50	8	Bark/Gravel	Kelp /Sea Algae	None
60	3 ft	80	8	Bark/Gravel	Kelp /Sea Algae	None
75	3 ft	80	8	Bark/Gravel	Eel	None
75	3 ft	50	5	Bark/Gravel	Eel	None
90	3 ft	90	6	Bark/Silt	None	None
90	3 ft	90	6	Bark/Silt	Vegetation/ Kelp	None
105	3 ft	80	6	Bark/Silt	Vegetation/ Kelp	None
120	5 ft	80	4	Bark/Silt	Kelp	None
135	6 ft	80	7	Bark/Silt	Kelp	None
135	6 ft	80	7	Bark/Silt	Kelp	None
150	6 ft	70	7	Bark/Silt	Kelp	None
150	6 ft	70	7	Bark/Silt	Kelp	None
165	6 ft	20	6	Bark/Silt	Kelp	None
180	7 ft	70	5	Bark/Silt	Kelp	None
180	7 ft	70	5	Bark/Silt	Kelp	None
195	8 ft	50	4	Bark/Silt	Kelp	None
195	8 ft	50	4	Bark/Silt	Kelp	None
210	8 ft	50	3	Bark/Silt	Kelp	None
210	8 ft	50	3	Bark/Silt	Kelp	None
225	8 ft	50	4	Bark/Silt	Kelp	None
225	8 ft	50	4	Bark/Silt	Kelp	None
240	8 ft	20	5	Bark/Silt	Kelp	None
240	8 ft	20	5	Bark/Silt	Kelp	None
255	8 ft	30	4	Bark/Silt	Sun Star Kelp	None
255	8 ft	30	4	Bark/Silt	Sun Star Kelp	None
270	5 ft	10	2	Bark/Silt	None	None

Continuous Coverage

Discontinuous Coverage

■ Sample Plot - 100% Cover

◆ Sample Plot - 99% - 10% Cover

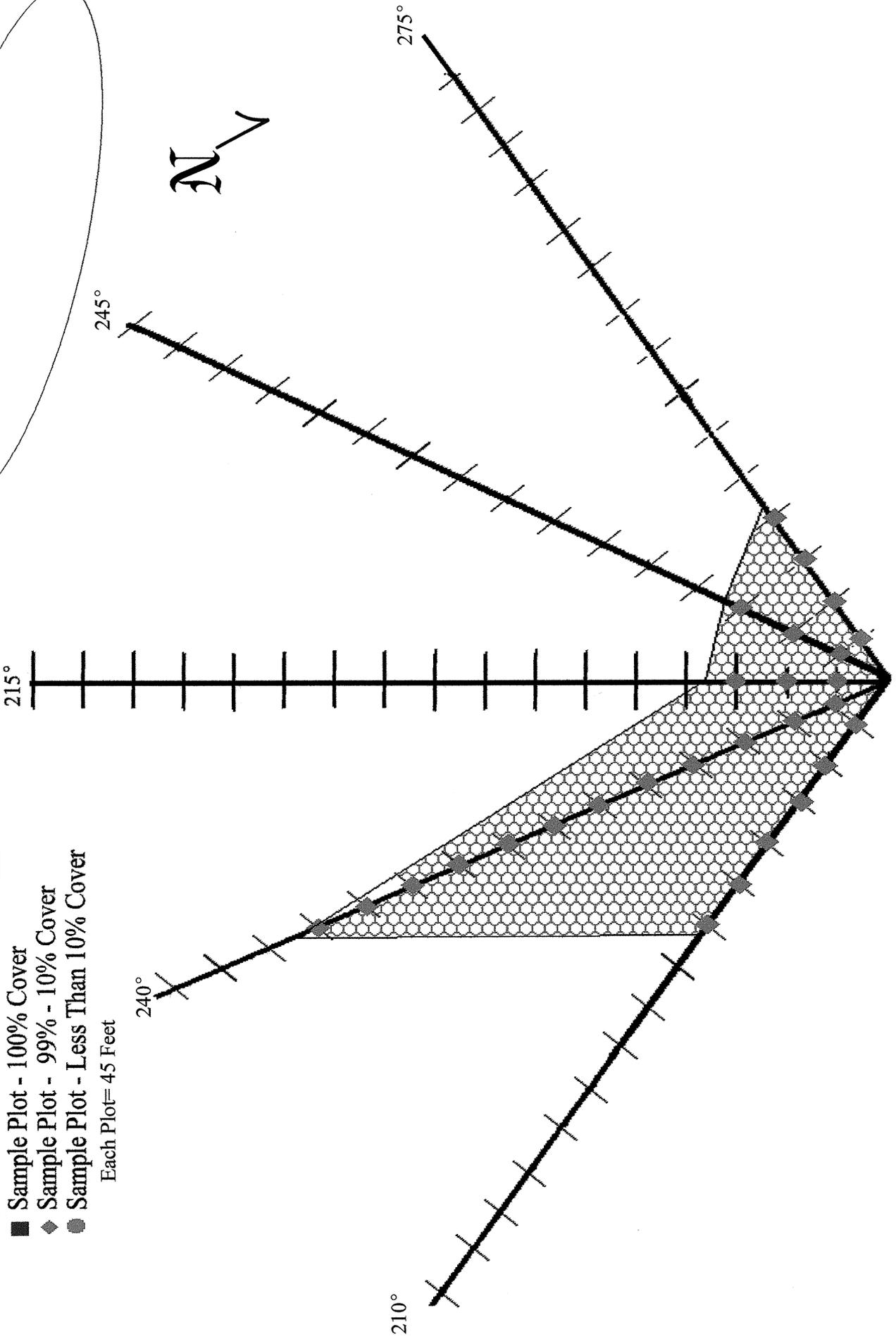
● Sample Plot - Less Than 10% Cover

Each Plot = 45 Feet

Lab Bay Debris Survey
Survey Date: 6/25/01

ISLANDS

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SHORE

BULK HEAD