



# Alaska Commercial Divers, Inc.

P.O. Box 9351 ♦ Ketchikan, AK 99901 ♦ e-mail: acd@kmi.net ♦ Phone (907) 247-0771 ♦ Fax (907) 225-0771

TLF Location: **St. John Baptist**  
 Subject: **Log Transfer Facility Bark Monitoring and Biological Resources Survey**  
 Survey Date: **September 11, 2000**  
 Report Date: **November 28, 2000**

Survey Protocol and Analytical Methods:

The log transfer facility (LTF) was surveyed by a commercial diver for the extent and degree of lost bark as required by permit stipulation and to discover the biological resources at the site. Greg Updike of Alaska Commercial Divers, Inc; Ketchikan, Alaska was the diver.

Five transect lines were established from the center of the entry point given to ACD, Inc. from the US Forest Service and the DGPS was noted. The transects radiated seaward with each transect arranged 30 degrees apart from one another. The transects were at bearings of 140°, 170°, 200°, 230°, and 260°. A compass bearing was established at the beginning of each transect. This bearing was followed until the end of the transect. Measurements of bark deposition depth, and percent of bark coverage was measured by the diver at 15 foot intervals along the transect. Bark depth was measured to the nearest centimeter at each station with a marked stick. If the bark was visible, but less than 1 centimeter deep, the depth was recorded as "trace". The percent of bark coverage was estimated within a 3' x 3' area in the immediate vicinity of the measuring station. Measurements were made along each transect until bark deposits were no longer visible, or until water depth exceeded 60 feet MLLW. The diver also recorded marine organisms plus the depths and substrate types where organisms were found.

Observations and Conclusions:

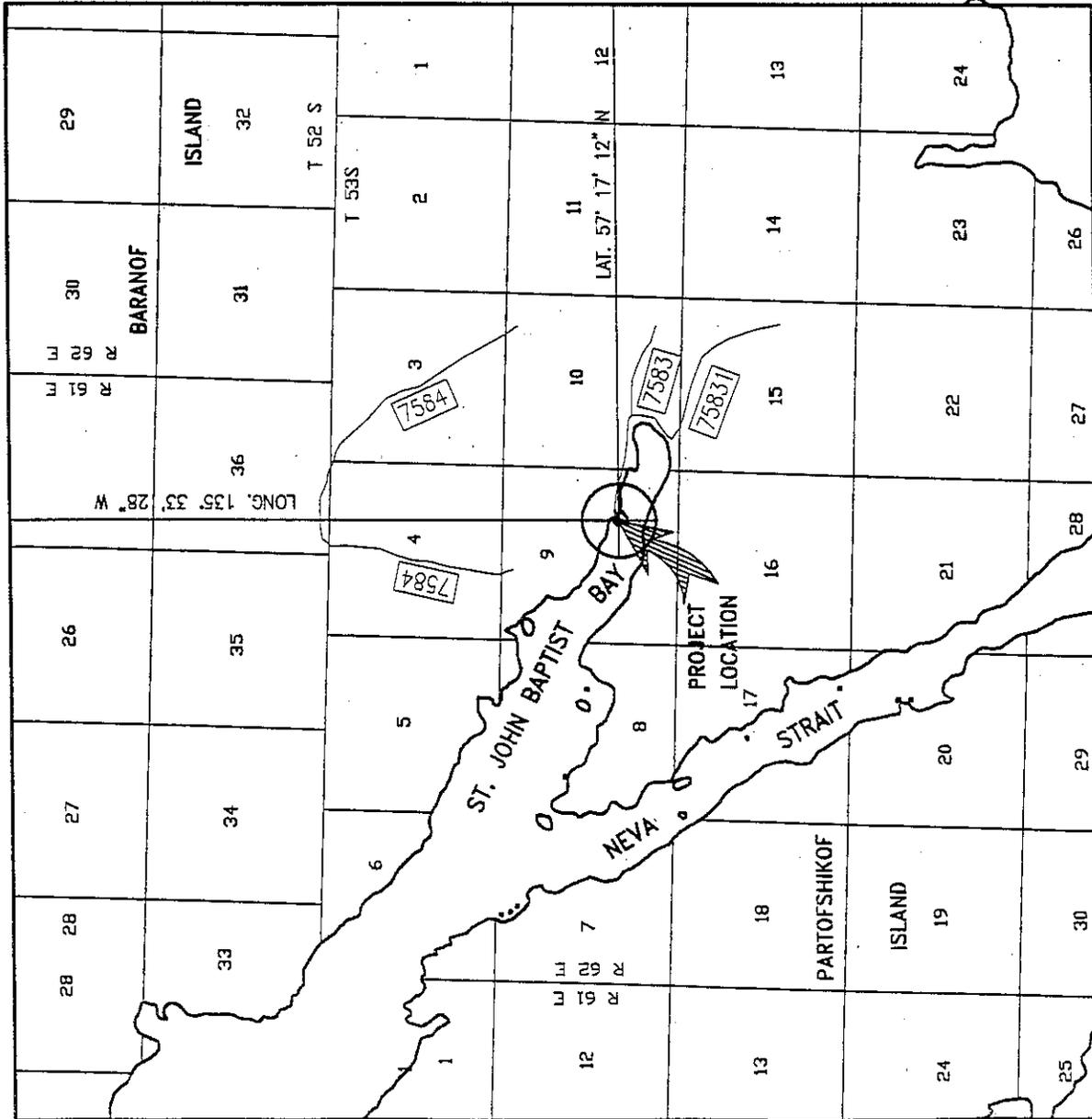
The substrate type at this site consists of rocky gravel and sand with areas of mud and silt. Divers located 8 items foreign to the area. These were located on three of the five transects and are detailed on the attached table. Marine life was noted on all five transects and on 35 of the 94 measuring stations. Species recorded were Rock Fish, Hermit Crab, Crabs, Halibut, Vegetation, Eel, Sea Stars, Sea Cucumber, and Sea Anemones.

The area of continuous bark cover is the area surveyed was calculated to be 1.32 acres of the 1.71 acres surveyed. Two spots of 100% cover are noted on the graph. These spots were not part of the Continuous Cover calculation and the areas around them are noted to be "trace" or "less than 10% cover".

Reports Prepared by: Karen Updike  
Jeani Purdy

*015/200*  
Karen B. Updike  
Jeani Purdy  
Greg Updike

Dives Performed by: Greg Updike



VICINITY MAP: From USGS QUAD, Sitka B-5

SCALE, IN MILES



PART OF TOWNSHIPS T 52 S AND T 53 S,  
RANGES R 61 E AND R 62 E, C.R.M.

**LEGEND**

-  STATE & PRIVATE LAND HOLDINGS
-  LANDS MANAGED BY US FOREST SERVICE
-  L.T.F.
-  FOREST SERVICE ROAD NUMBER

DATE: 05-10-00

APPLICANT: M. Parker  
USDA Forest Service

ST. JOHN BAPTIST BAY LOG TRANSFER FACILITY  
VICINITY MAP

ENVIRONMENTAL PROTECTION AGENCY  
NPDES PERMIT DRAWING

SEC. 9, WITHIN T.53 S., R. 62 E., CRM

SHEET 1 OF 3

DRAWN BY: K. ELMORE  
DATE: 5/10/2000

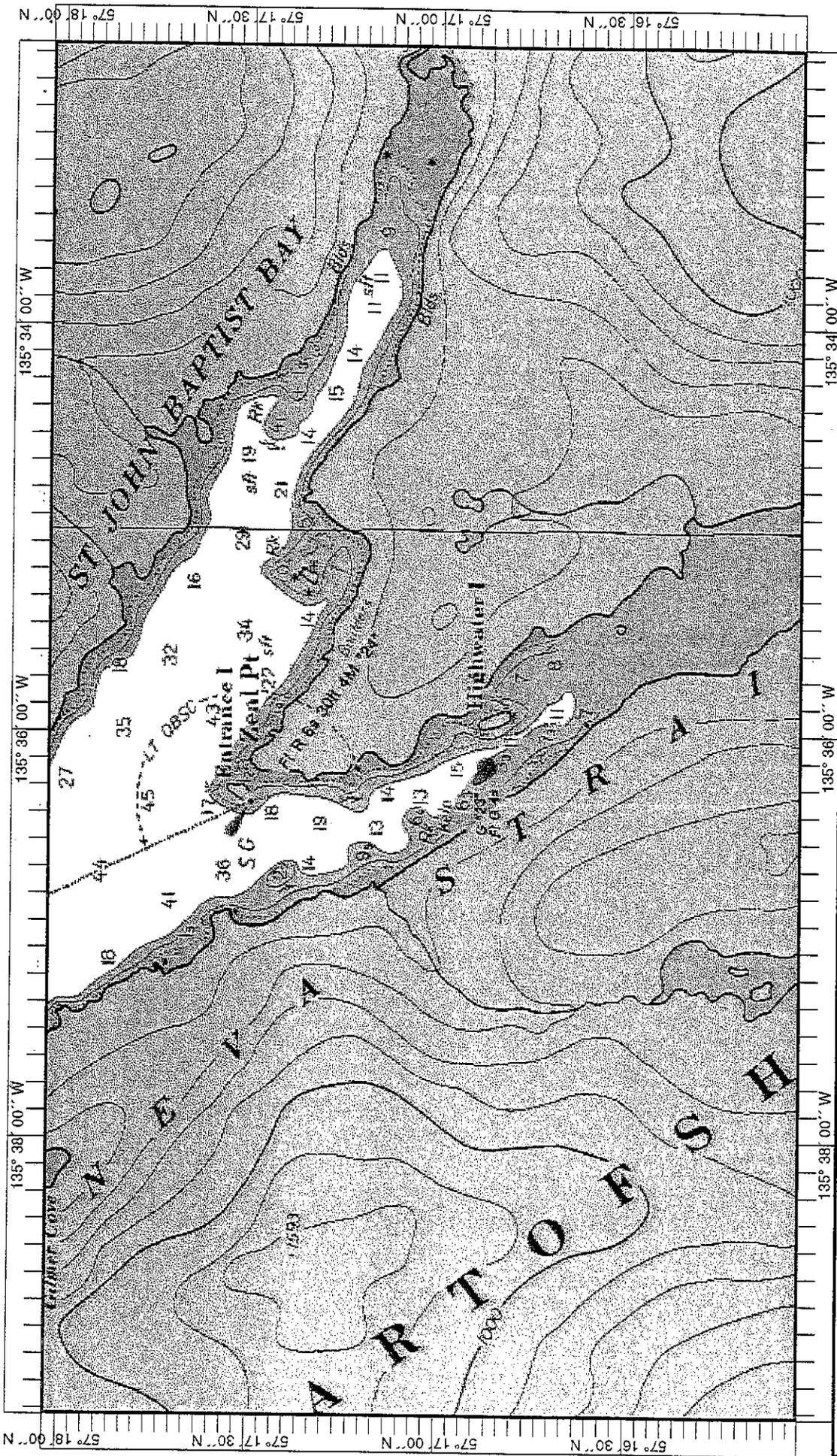


Chart Name: SITKA SOUND TO SALISBRY SOUND INSIDE PASSAGE  
 Chart ID: 17324\_1  
 Top Left: 57° 18' 02" N 135° 39' 22" W  
 Bottom Right: 57° 16' 02" N 135° 32' 37" W



Biological Resources LIT Survey - St. John Baptist	
<b>Location: St. John Baptist</b>	
<b>Latitude: 57° 17.19 N</b>	<b>Longitude: 135° 33.49 W</b>
<b>Date: 9-11-00</b>	<b>Time: 13:55 to 15:25</b>

**Transect # 1**  
*Bearing 140 °*

Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	-	0	0	Rock	-	-
15	-	5	0	Gravel	Cable	Sun Sea Star, Rock Fish
30	-	13	0	Gravel/ Sand	-	Rock Cod, Sea Cucumber
45	-	23	0	Gravel/ Sand	-	Sea Cucumber
60	-	27	0	Gravel/ Sand	-	Sea Cucumber
75	10	32	100	Mud/Sand	-	-
90	20	34	100	Mud/Sand	-	-
105	10	36	100	Mud/Sand	-	Fish, Hermit Crab
120	15	39	100	Mud/Sand	-	Sea Anemones
135	10	39	100	Mud/Sand	Sink	Hermit Crab
150	15	38	100	Mud/Sand	-	Star Fish
165	15	38	100	Mud/Sand	Tire	Sea Anemones
180	15	38	100	Mud/Sand	-	Sea Star
195	15	38	100	Mud/Sand	Pop Cans	Hermit Crab
210	-	37	0	Mud/Silt	-	Sea Star
225	-	37	0	Mud/Silt	-	Sea Star
240	-	37	0	Mud/Silt	-	Sea Star
255	-	37	0	Mud/Silt	Wood Chunks	-
270	-	35	0	Mud/Silt	-	-
285	-	35	0	Mud/Silt	-	-
300	-	35	0	Sand/Mud/Silt	-	-

**Transect # 2**  
**Bearing 170 °**

Distance (feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	-	0	0	Rock	-	-
15	-	5	0	Rock	Cable	Kelp
30	-	5	0	Shells/ Gravel/Mud	-	-
45	-	14	0	Rocks	-	Sea Cucumber, Sea Stars, Kelp
60	-	22	0	Rocks	-	Sea Stars, Sea Cucumber
75	-	31	0	Mud/Shells	-	-
90	-	33	0	Mud/Shells	-	-
105	-	36	0	Mud/Shells	-	Sea Stars, Eel
120	20	39	100	Mud/Shells	-	-
135	20	42	100	Mud	-	-
150	20	43	100	Mud	-	-
165	20	45	100	Mud	-	-
180	15	47	100	Mud	-	Kelp
195	20	48	100	Mud	-	-
210	20	48	100	Mud	-	-
225	20	48	100	Mud	Cable, Jar	Sea Anemones
240	20	49	100	Mud	-	-
255	20	49	100	Mud	-	-
270	20	50	100	Mud	-	-
285	20	53	100	Mud	-	-
300	20	61	100	Mud	-	-

**Transect # 3**  
**Bearing 200 °**

Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	-	0	0	Rocks	-	-
15	-	5	0	Gravel/Rocks	-	Sea Star
30	-	5	0	Gravel/Rocks	-	Sea Cucumber
45	-	19	0	Gravel/Rocks	-	-
60	60	30	100	Mud	-	-
75	30	35	100	Mud	-	Sea Cucumber
90	0	38	0	Rock/Gravel	-	-
105	-	41	0	Rock	-	Sea Anemones, Sea Star
120	10	46	100	Gravel/Rocks	-	Halibut
135	20	47	100	Gravel/Mud	-	-
150	20	48	100	Mud	-	Sea Anemones, Crabs
165	20	50	100	Mud	-	Rock Fish
180	5	52	100	Mud/Silt	-	Sea Stars, Cucumbers, Anemones
195	2	52	100	Mud/Silt	-	-
210	25	55	100	Mud/Silt	-	-
225	20	56	100	Mud/Silt	-	-
240	10	56	100	Mud/Silt	-	-
255	20	58	100	Mud/Silt	-	-
270	20	60	100	Mud/Silt	-	-
285	15	61	100	Mud/Silt	-	-
300						

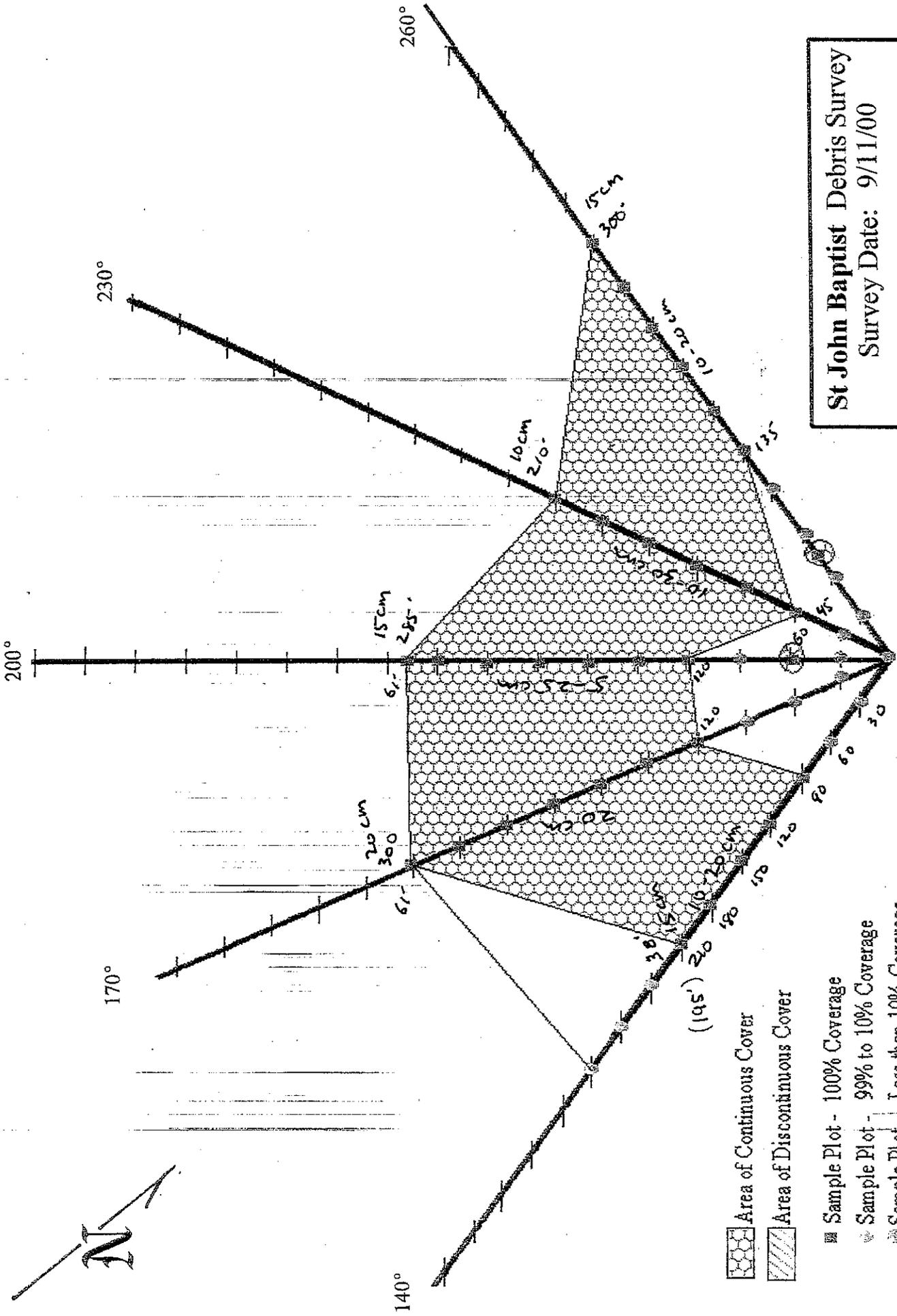
**Transect # 4***Bearing 230 °*

Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal of Other Foreign Items	Marine Life
0	-	0	0	Rock	-	-
15	-	4	0	Rock	-	Hermit Crabs, Kelp
30	-	17	0	Shell/Rock	-	Sea Star, Cucumber
45	20	26	100	Shell/Rock	-	Sea Star, Eel
60	22	32	100	Mud	-	-
75	10	37	100	Mud	-	Halibut
90	30	40	100	Rocks/Mud	-	-
105	5	42	100	Rocks/Mud	-	-
120	10	44	100	Rocks/Mud	-	-
135	10	48	100	Rocks/Mud	-	-
150	10	49	100	Rocks/Mud	-	-
165	10	52	100	Rocks/Mud	-	-
180	15	55	100	Rocks/Mud	-	-
195	20	61	100	Rocks/Mud	-	-
210	10	61	100	Rocks/Mud	-	-
225						
240						
255						
270						
285						
300						

**Transect # 5**  
**Bearing 260 °**

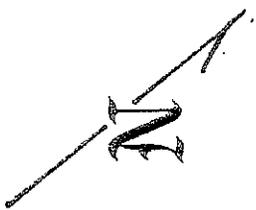
Distance (feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	-	0	0	Rock	-	-
15	-	4	0	Rock	-	Rock Fish, Sea Star, Cucumber
30	-	12	0	Sand/Gravel	-	Sea Cucumber, Crab
45	-	19	0	Sand/Gravel	-	-
60	-	23	0	Sand/Gravel	-	-
75	10	26	100	Sand/Gravel	-	Sea Cucumber, Sea Satr
90	-	28	0	Sand/Gravel	-	-
105	-	30	0	Sand/Gravel/Silt	-	-
120	-	33	0	Sand/Gravel	-	-
135	20	36	100	Sand/Gravel	Steel	-
150	20	38	100	Sand/Silt	-	-
165	20	40	100	Sand/Silt	-	-
180	20	41	100	Sand/Silt	-	Sea Anemones
195	20	41	100	Sand/Silt	-	-
210	15	41	100	Sand/Silt	-	-
225	10	42	100	Sand/Silt	-	-
240	10	41	100	Sand/Silt	-	-
255	10	45	100	Sand/Silt	-	-
270	5	52	100	Sand/Silt	-	-
285	5	56	100	Sand/Silt	-	-
300	15	62	100	Sand/Silt	-	-

**St John Baptist Debris Survey**  
 Survey Date: 9/11/00

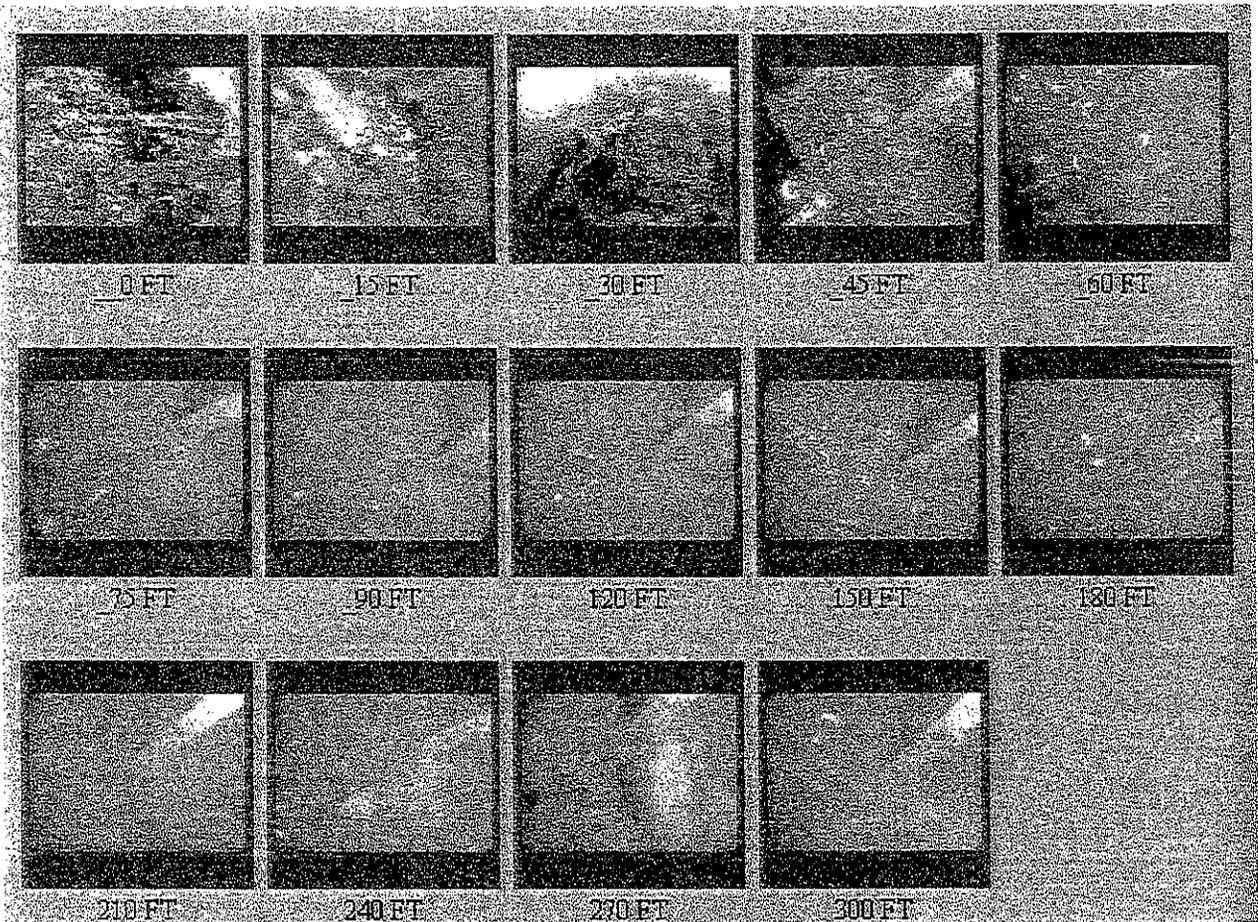


1 cm = 30 Feet

-  Area of Continuous Cover
-  Area of Discontinuous Cover
-  Sample Plot - 100% Coverage
-  Sample Plot - 99% to 10% Coverage
-  Sample Plot - Less than 10% Coverage



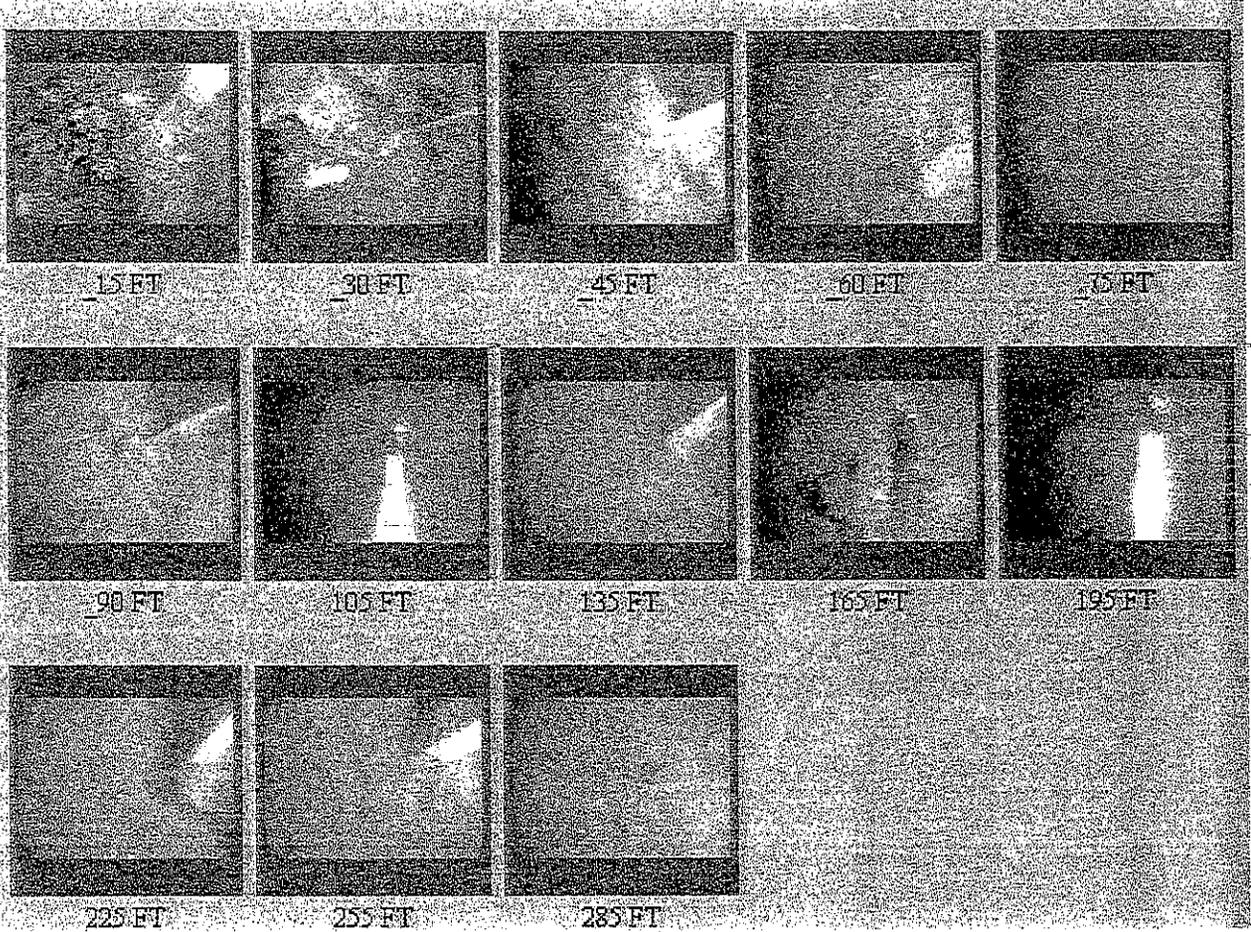
St. John Baptist Transect #1  
9/11/00



Observed at 15' measuring station.

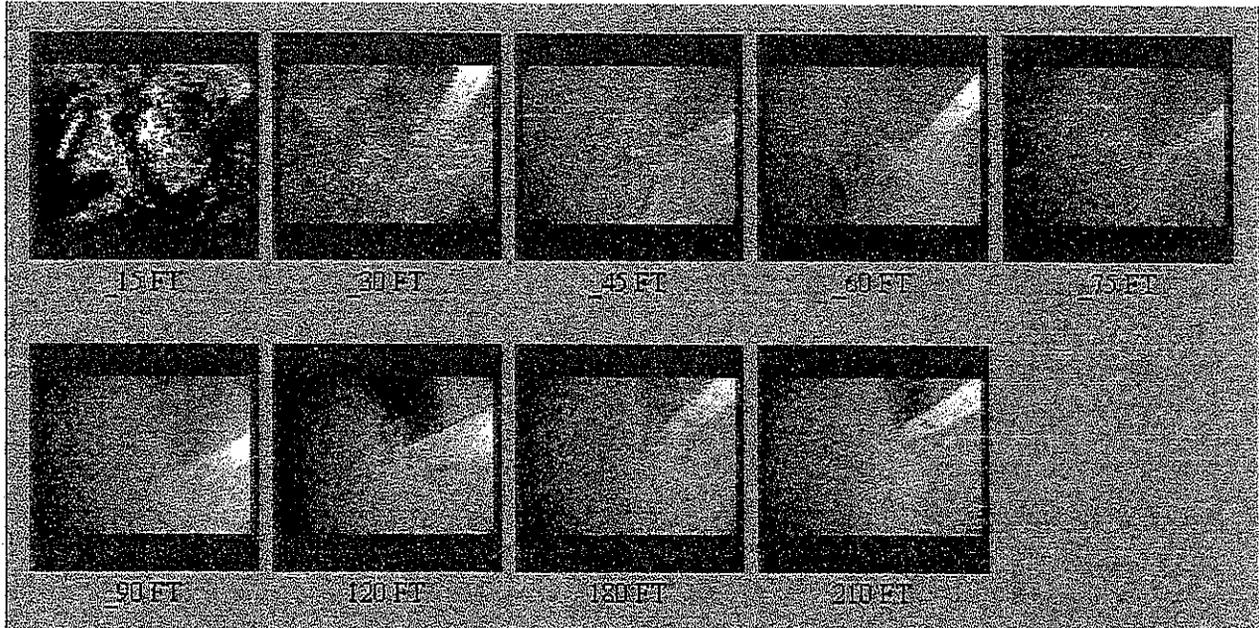


St. John Baptist Transect #3  
9/11/00



Observed at 165' measuring station.

St. John Baptist Transect #4  
9/11/00



St. John Baptist Transect #5  
9/11/00

