

Shellfish Lease Investigation Report	
Investigation Date	9/3 & 9/4/2025
Applicants name	Rough Atlantic, LLC- Michael T. Dale
Lease Number	25-032BL/25-033WC
County	Carteret
Waterbody/location	0702000300/ North River below bridge
Proposed Lease Size (acres)	6.02
Lease Type	Bottom/Water Column
Investigation Team	CG, RF, ST
Gear Used	766 - Patent Tong
Sediment Type	8 - Sand
Bottom Composition	O - no grass
Depth NW Corner (m)	1.1
Depth NE Corner (m)	1
Depth SE Corner (m)	1.2
Depth SW Corner (m)	1.6
Average Depth (m)	1.2
Tidal Stage	F - Late flood
Water Temperature (°C)	23.4
Salinity (ppt)	30.3
Dissolved Oxygen (mg/L)	7.8
Comments on SAV in or around Proposed Lease location	N/A
Other Species Collected	N/A
In PNA?	No
In Polluted Area?	No: Conditionally Approved - Open
In Mechanical Clam Harvest Area?	Yes
In Oyster Mechanical Methods Prohibited Area	Yes
Other Comments	N/A

Application Coordinates	
34.753293	-76.592398
34.753293	-76.591198
34.751293	-76.591198
34.751293	-76.592398

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: Rough Atlantic, LLC- Michael T. Dale

Proposed Lease #: 25-032BL/25-033WC

Date: 9/3 & 9/4/2025

Lease size: 6.02 acres

of Samples: 150

Lease size: 6.02 acres		# of Samples: 150						
Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
1	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
2	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
3	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
4	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
5	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
6	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
7	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
8	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
9	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
10	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
11	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
12	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
13	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
14	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
15	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
16	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
17	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
18	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
19	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
20	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
21	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
22	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
23	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
24	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
25	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
26	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
27	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
28	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
29	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
30	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
31	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
32	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
33	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
34	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
35	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
36	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
37	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
38	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
39	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
40	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
41	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
42	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
43	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
44	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
45	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
46	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
47	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
48	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
49	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
50	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
51	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
52	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
53	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
54	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
55	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
56	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
57	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
58	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
59	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
60	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
61	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
62	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
63	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
64	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
65	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
66	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
67	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
68	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
69	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
70	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
71	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
72	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
73	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
74	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
75	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
76	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
77	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: Rough Atlantic, LLC- Michael T. Dale

Proposed Lease #: 25-032BL/25-033WC

Date: 9/3 & 9/4/2025

Lease size: 6.02 acres # of Samples: 150

Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
78	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
79	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
80	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
81	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
82	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
83	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
84	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
85	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
86	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
87	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
88	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
89	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
90	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
91	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
92	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
93	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
94	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
95	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
96	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
97	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
98	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
99	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
100	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
101	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
102	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
103	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
104	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
105	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
106	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
107	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
108	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
109	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
110	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
111	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
112	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
113	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
114	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
115	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
116	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
117	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
118	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
119	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
120	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
121	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
122	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
123	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
124	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
125	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
126	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
127	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
128	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
129	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
130	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
131	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
132	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
133	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
134	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
135	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
136	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
137	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
138	0 - None	0	1	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
139	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
140	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
141	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
142	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
143	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
144	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
145	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
146	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
147	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
148	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
149	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
150	0 - None	0	0	0	9/3 & 9/4/2025	NA	O - no grass	8 - Sand
	SAV	Oysters (Eastern Oyster)	Clams (Quahogs)	Scallops				
	0				0%	OF SAMPLES CONTAINED SAV		

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: Rough Atlantic, LLC- Michael T. Dale			Proposed Lease #: 25-032BL/25-033WC			Date: 9/3 & 9/4/2025		
Lease size: 6.02		acres	# of Samples: 150					
Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
TOTAL OF EACH SPECIES		0	1	0				
TOTAL BUSHELS PER SPECIES		0	0.0025	0	0.07	TOTAL BUSHELS OF SHELLFISH PER ACRE		

Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Yards
0 37.5 75

SAV Present

- No
- Proposed Lease Area

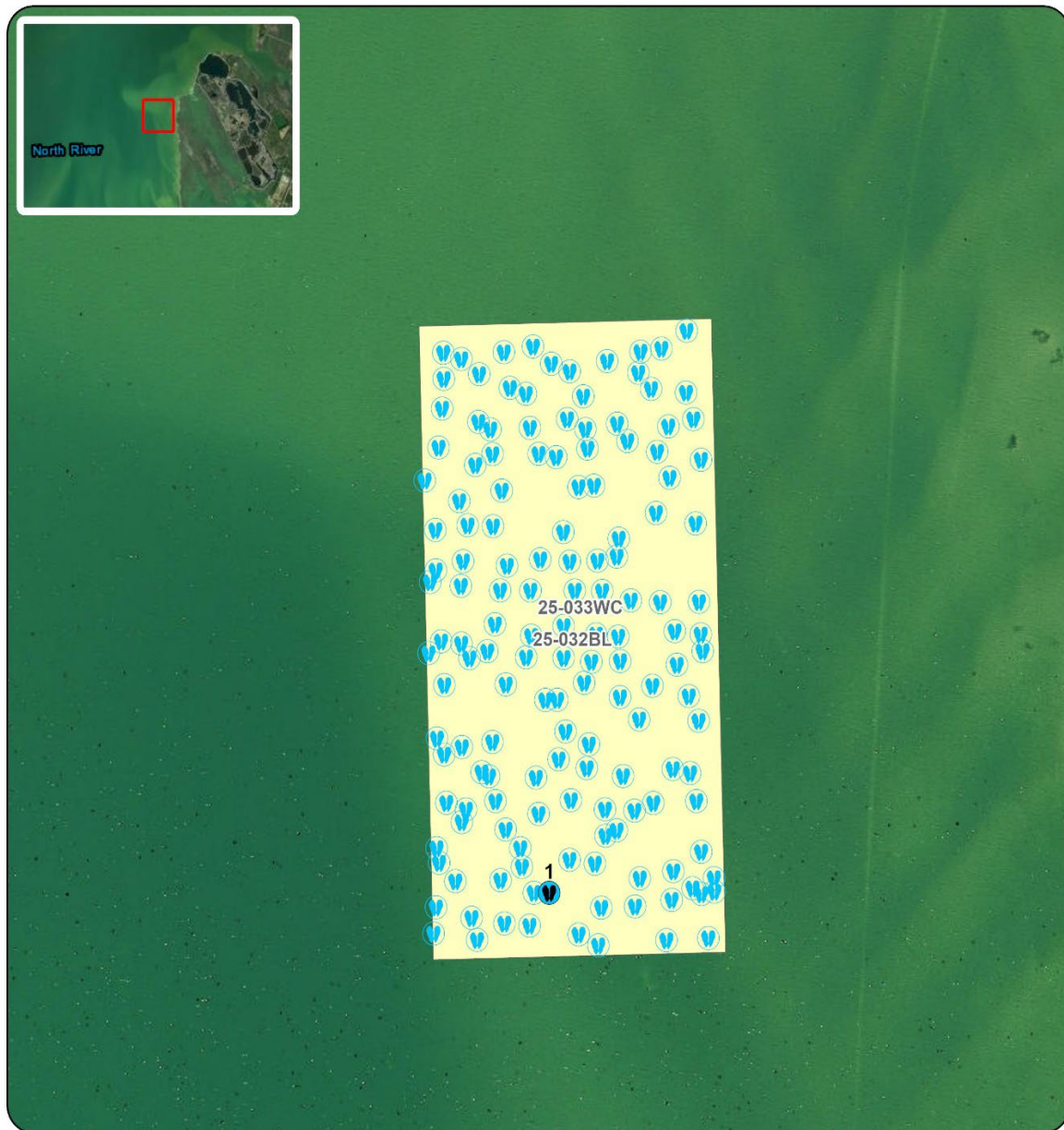
Acreage: 6.02



Coordinate System: NAD 1983 2011 StatePlane North Carolina FIPS 3200 Ft US

Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Yards
0 145 290

Shellfish Growing Area Classification

- Conditionally Approved - Open
- Proposed Lease Area

Acreage: 6.02

Coordinate System: NAD 1983 2011 StatePlane North Carolina FIPS 3200 Ft US



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Coordinate System: NAD 1983 2011 StatePlane North Carolina FIPS 3200 Ft US

-  Submerged Aquatic Vegetation
-  Proposed Lease Area

Acreage: 6.02



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025



Proposed Lease ID/Number: 25-032BL/25-033WC
Rough Atlantic LLC- Michael T. Dale (Agent)

Date: 9/8/2025







