

Shellfish Lease Investigation Report	
Investigation Date	9/13 & 9/19 - 2022
Applicants name	David Eckberg
Lease Number	22-067BL/22-068WC
County	Carteret
Waterbody/location	Lower North River
Proposed Lease Size (acres)	7.77
Lease Type	Bottom/Water Column
Investigation Team	D. Walters/S. Tripp
Gear Used	766 - Patent Tong
Sediment Type	1 - hard sand
Bottom Composition	O - no grass
Depth (m)	1
Tidal Stage	Rising
Water Temperature (°C)	27.8
Salinity (ppt)	34.9
Dissolved Oxygen (mg/L)	6.2
Comments on SAV in or around Proposed Lease location	
Other Species Collected	
In PNA?	No
In Polluted Area?	No: Conditionally Approved - Open
In Mechanical Clam Harvest Area?	No
In Mechanical Methods Prohibited Area	Yes
Other Comments	Reverified pole locations 11/16/2022

Application Coordinates		Modified Coordinates		Actual Coordinates	
-76.60104400	34.70883300	-76.60083861	34.70703324	-76.60080123	34.70703742
-76.60090400	34.70721900	-76.60373560	34.70689624	-76.60371723	34.70692359
-76.60380100	34.70708200	-76.60394752	34.70775257	-76.60391006	34.70758809
-76.60402600	34.70799900	-76.60097068	34.70855586	-76.60099156	34.70843075

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: David Eckberg

Proposed Lease #: 22-067BL/22-068WC

Date: 9/13 & 9/19 - 2022

Lease size: 7.77 acres

of Samples: 228

Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
1	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
2	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
3	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
4	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
5	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
6	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
7	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
8	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
9	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
10	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
11	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
12	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
13	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
14	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
15	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
16	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
17	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
18	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
19	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
20	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
21	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
22	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
23	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
24	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
25	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
26	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
27	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
28	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
29	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
30	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
31	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
32	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
33	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
34	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
35	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
36	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
37	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
38	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
39	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
40	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
41	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
42	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
43	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
44	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
45	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
46	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
47	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
48	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
49	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
50	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
51	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
52	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
53	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
54	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
55	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
56	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
57	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
58	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
59	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
60	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
61	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
62	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
63	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
64	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
65	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
66	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand

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of Samples: 228

Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
67	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
68	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
69	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
70	1	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
71	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
72	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
73	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
74	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
75	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
76	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
77	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
78	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
79	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
80	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
81	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
82	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
83	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
84	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
85	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
86	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
87	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
88	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
89	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
90	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
91	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
92	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
93	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
94	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
95	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
96	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
97	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
98	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
99	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
100	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
101	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
102	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
103	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
104	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
105	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
106	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
107	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
108	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
109	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
110	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
111	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
112	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
113	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
114	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
115	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
116	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
117	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
118	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
119	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
120	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
121	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
122	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
123	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
124	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
125	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
126	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
127	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
128	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
129	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
130	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
131	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
132	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand

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Date: 9/13 & 9/19 - 2022

Lease size: **7.77** **acres**

of Samples: 228

[illegible]

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Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
199	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
200	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
201	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
202	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
203	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
204	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
205	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
206	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
207	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
208	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
209	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
210	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
211	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
212	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
213	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
214	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
215	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
216	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
217	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
218	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
219	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
220	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
221	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
222	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
223	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
224	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
225	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
226	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
227	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
228	0	0	0	0	9/13 & 9/19 - 2022	NA	O - no grass	1 - hard sand
	SAV	Oysters (Eastern Oyster)	Clams (Quahogs)	Scallops				
	1				0%	OF SAMPLES CONTAINED SAV		
TOTAL OF EACH SPECIES		0	0	0				
TOTAL BUSHELS PER SPECIES		0	0	0	0	TOTAL BUSHELS OF SHELLFISH PER ACRE		

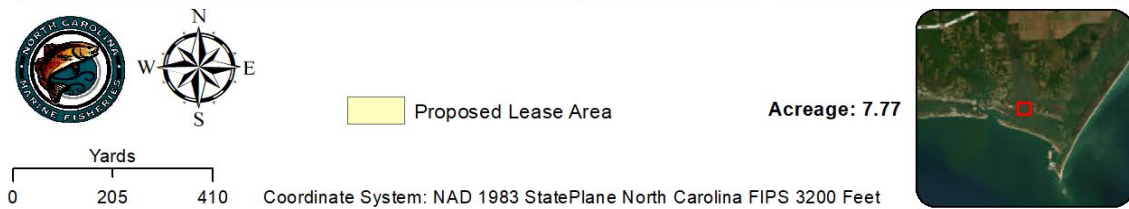
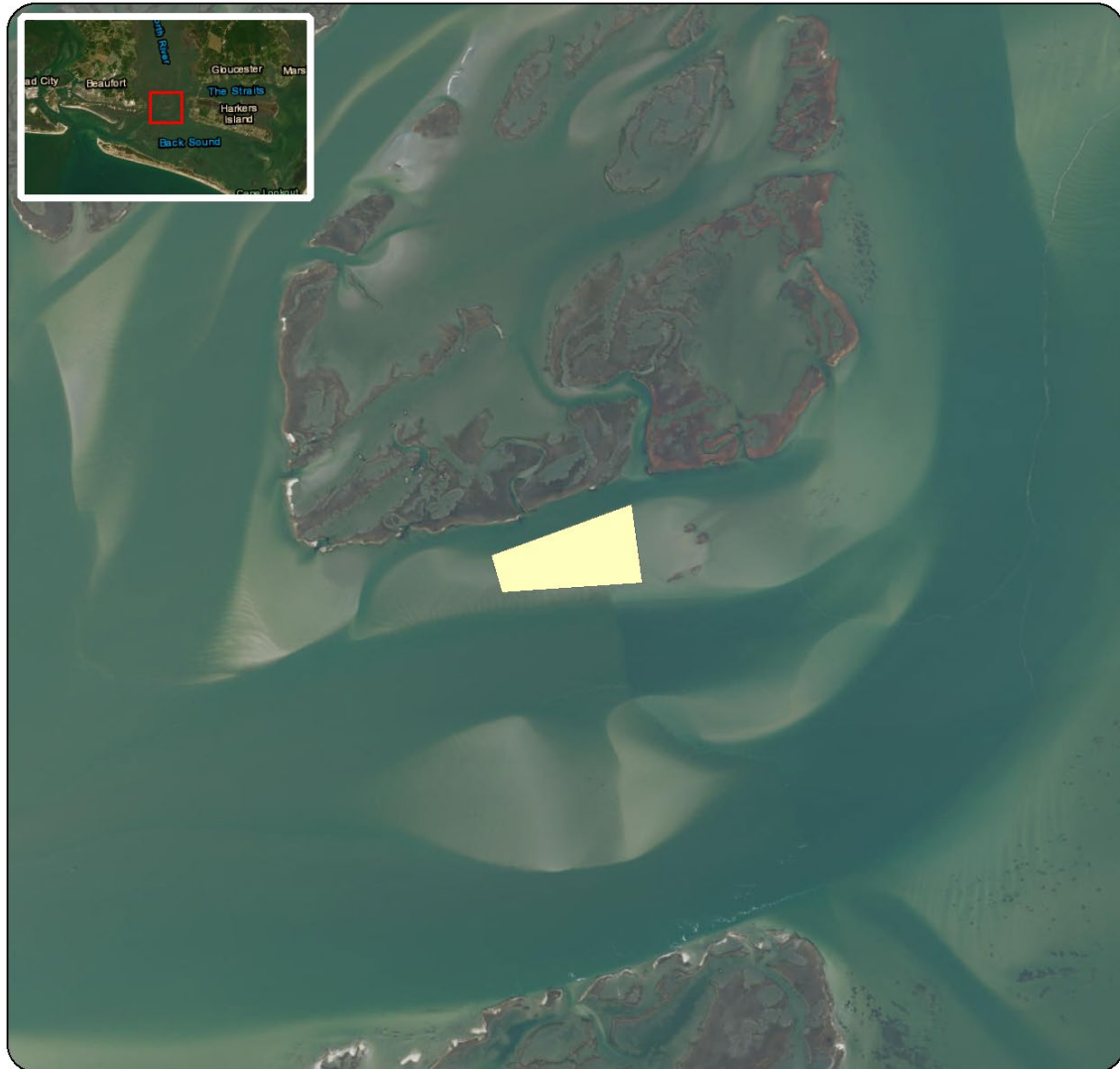
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David Eckberg

Date: 11/17/2022



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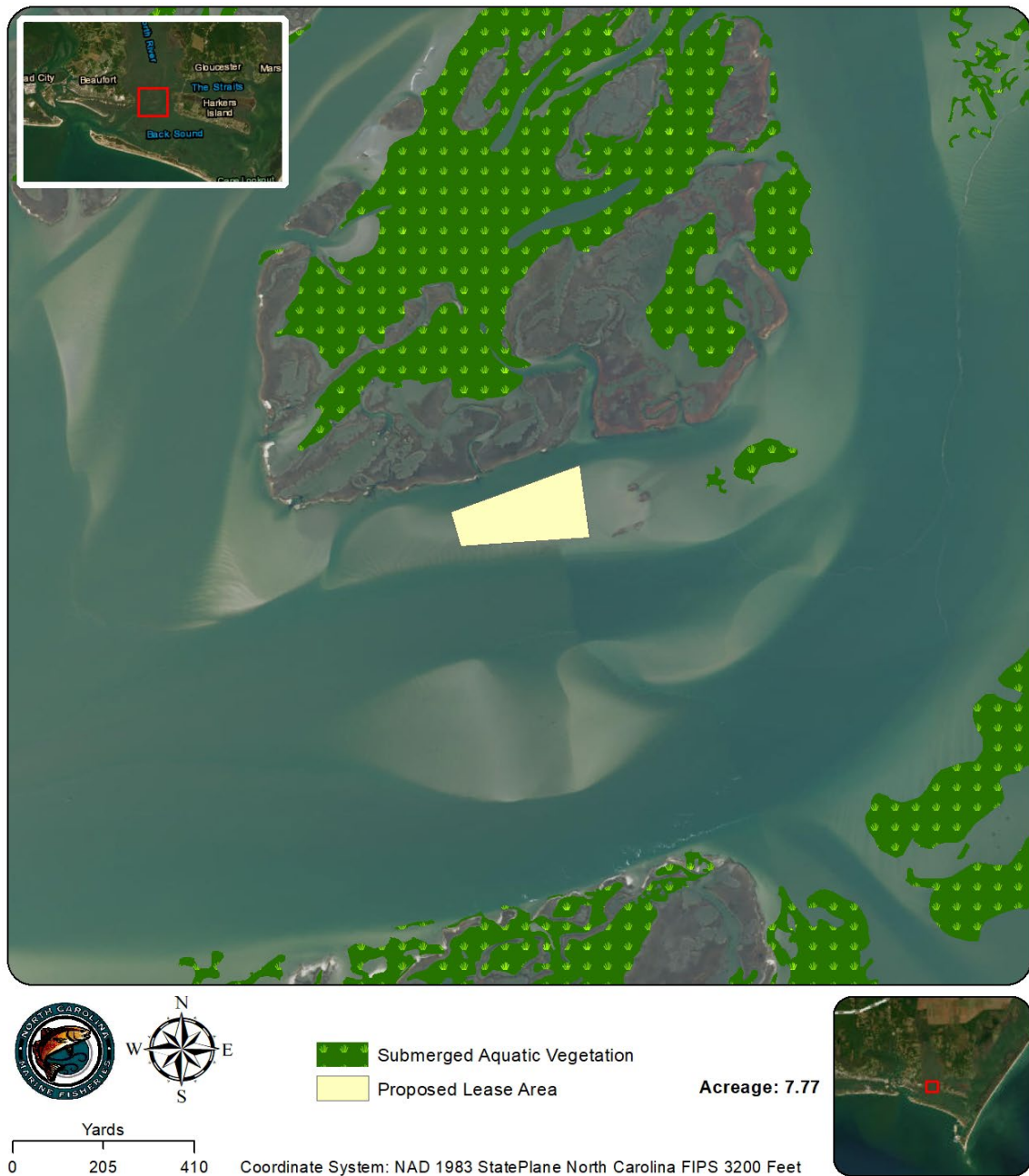
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