

Shellfish Lease Investigation Report	
Investigation Date	5/13/2024
Applicants name	James B. Pumphrey and Benjamin Slay
Lease Number	24-015BL/24-016WC
County	Pender
Waterbody/location	Topsail Marshes/1402020000
Proposed Lease Size (acres)	0.51
Lease Type	Bottom/Water Column
Investigation Team	S. Tripp; A. Frost; E. Ellis; R. Farnell
Gear Used	935 - Hand Sampling
Sediment Type	1 - Hard sand
Bottom Composition	O - no grass
Depth (m)	0.93 average
Tidal Stage	L - Flood
Water Temperature (°C)	21.4
Salinity (ppt)	39.5
Dissolved Oxygen (mg/L)	6.3
Comments on SAV in or around Proposed Lease location	
Other Species Collected	
In PNA?	Yes
In Polluted Area?	No: Approved
In Mechanical Clam Harvest Area?	No
In Oyster Mechanical Methods Prohibited Area	Yes
Other Comments	5/13/2024 Depth NE corner (1): 1.0m Depth SE corner (2): 1.0m Depth SW corner (3): 1.0m Depth NWcorner (4): 0.4m Depth Center: 1.25m 6/4/2024 Depth NE corner (1): 1.0m Depth SE corner (2): 0.2m Depth SW corner (3): 0.2m Depth NWcorner (4): 0.0m

Application Coordinates		Actual Coordinates	
Latitude	Longitude	Latitude	Longitude
34.363882	-77.644442	34.363882	-77.644442
34.363604	-77.643887	34.363604	-77.643887
34.363326	-77.644165	34.363399	-77.644310
34.363604	-77.644720	34.363604	-77.644720

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: James B. Pumphrey and Benjamin Slay

Proposed Lease #: 24-0158L/24-016WC

Date: 5/13/2024

Lease size: 0.51 acres # of Samples: 13

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	5/13/2024	NA	O - no grass	1 - Hard sand
2	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
3	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
4	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
5	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
6	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
7	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
8	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
9	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
10	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
11	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
12	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
13	0	0	0	0	5/13/2024	NA	O - no grass	1 - Hard sand
	SAV	Oysters (Eastern Oyster)	Clams (Quahogs)	Scallops				
	0				0%	OF SAMPLES CONTAINED SAV		
TOTAL OF EACH SPECIES		0	0	0				
TOTAL BUSHELS PER SPECIES		0	0	0	0.00	TOTAL BUSHELS OF SHELLFISH PER ACRE		

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 James B. Pumphrey and Benjamin Slay

Date: 12/27/2024



Pole Nbr	Latitude	Longitude
1	34.363882	-77.644442
2	34.363604	-77.643887
3	34.363399	-77.644310
4	34.363604	-77.644720



▲ Proposed Corner Points
 ■ Proposed Lease Area

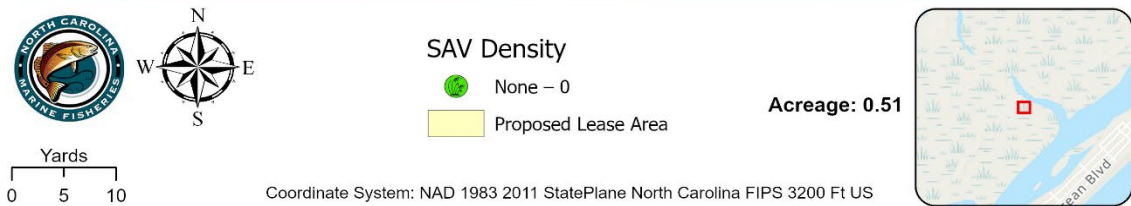
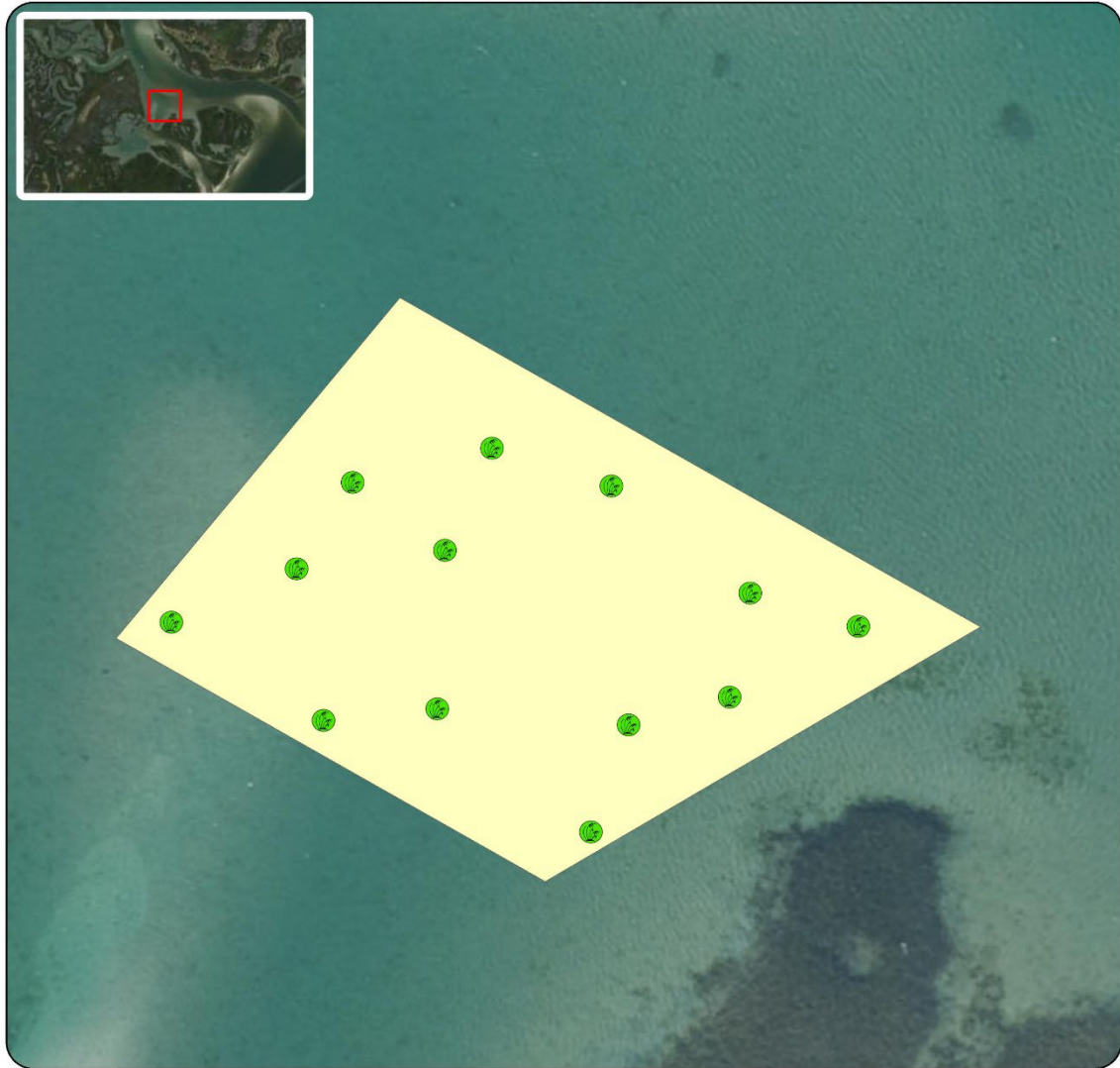
Acreage: 0.51

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



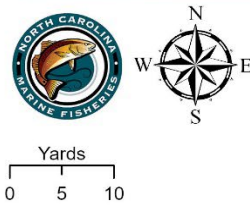
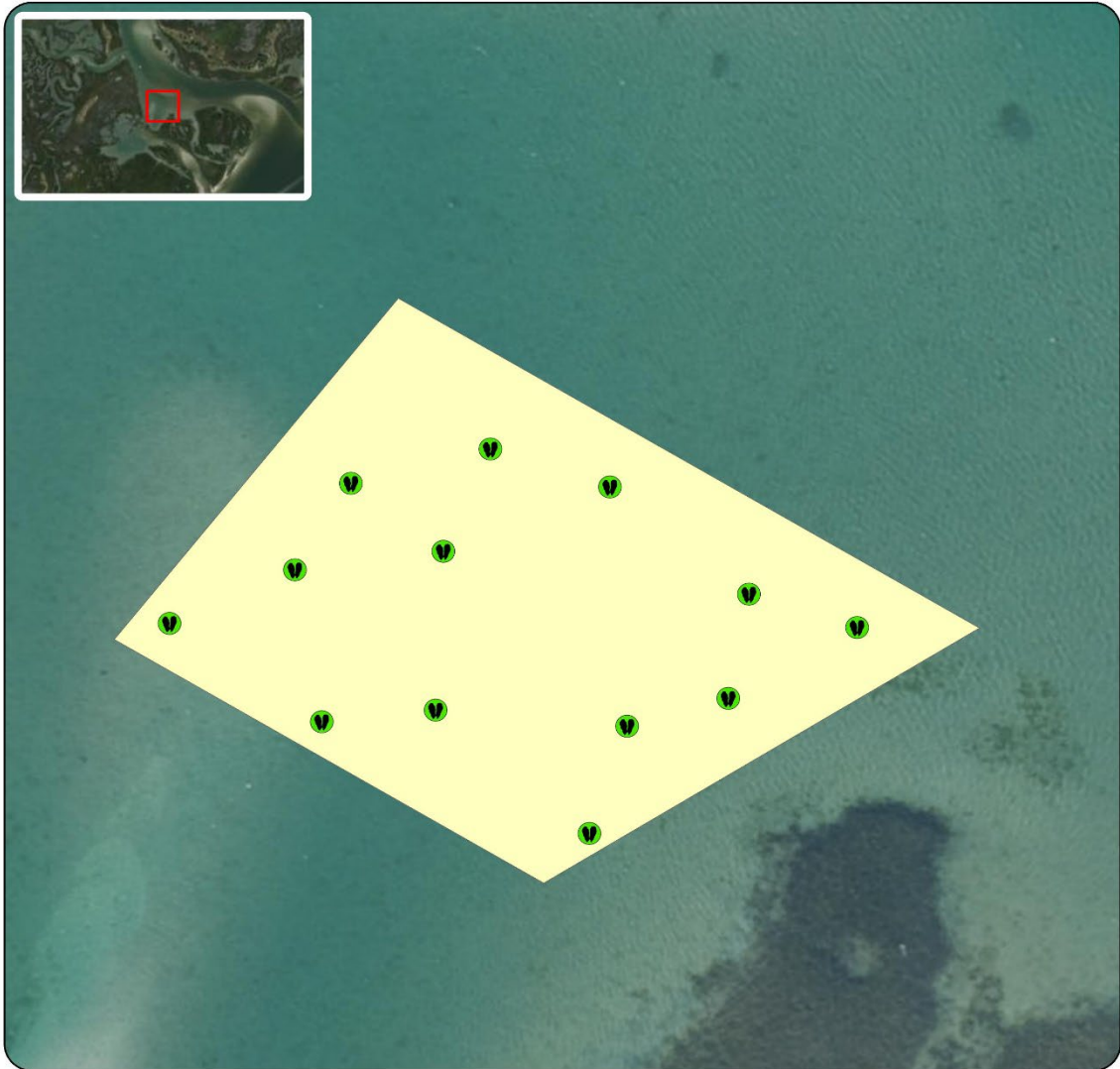
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Shellfish Present

 No

 Proposed Lease Area

Acreage: 0.51


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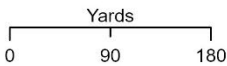
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 Proposed Lease Area

Acreage: 0.51

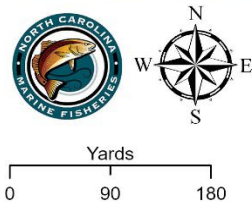


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- Cultch Planted Site
- Proposed Lease Area

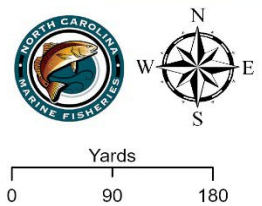
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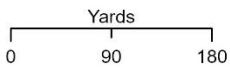
Shellfish Growing Area Classification
Approved
Proposed Lease Area
Acreage: 0.51

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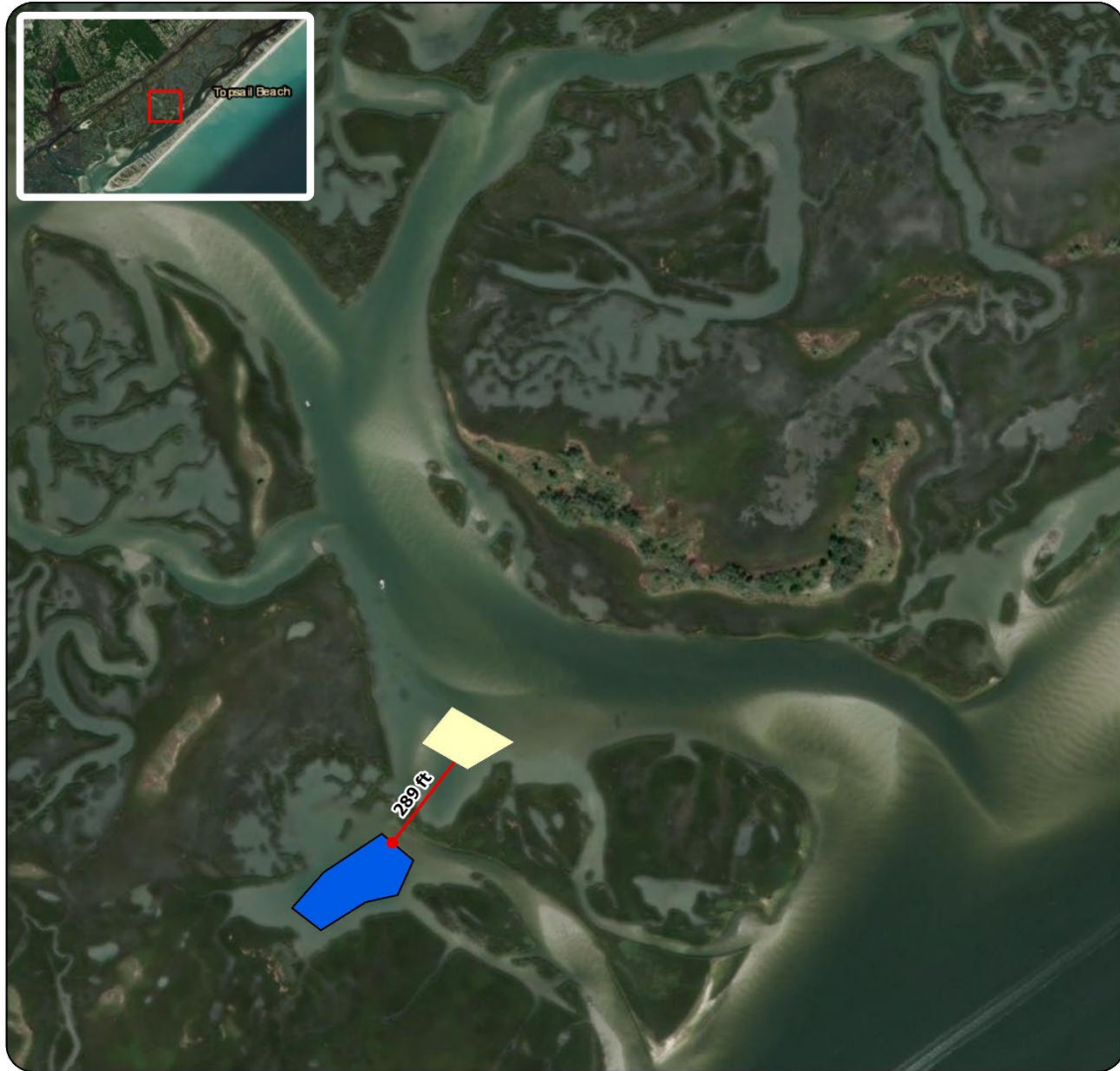
-  Submerged Aquatic Vegetation
-  Proposed Lease Area

Acreage: 0.51



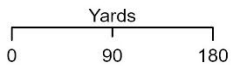
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- Bottom
- Proposed Lease Area

Acreage: 0.51



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





NE Corner (1) on 5/13/2024



SE Corner (2) on 5/13/2024



SW Corner (3) on 5/13/2024



NW Corner (4) on 5/13/2024



NE Corner (1) on 6/4/2024



SE Corner (2) on 6/4/2024



SW Corner (3) on 6/4/2024



NW Corner (4) on 6/4/2024



Lease overview looking east



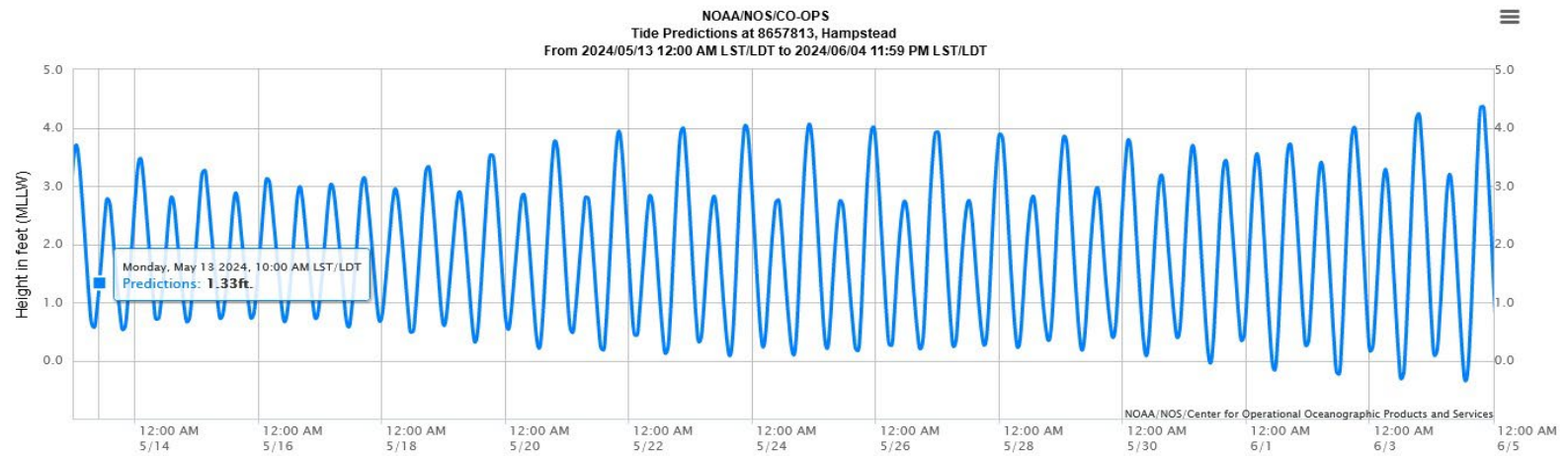
Closer view looking east



Corner Pole 3 Looking southwest

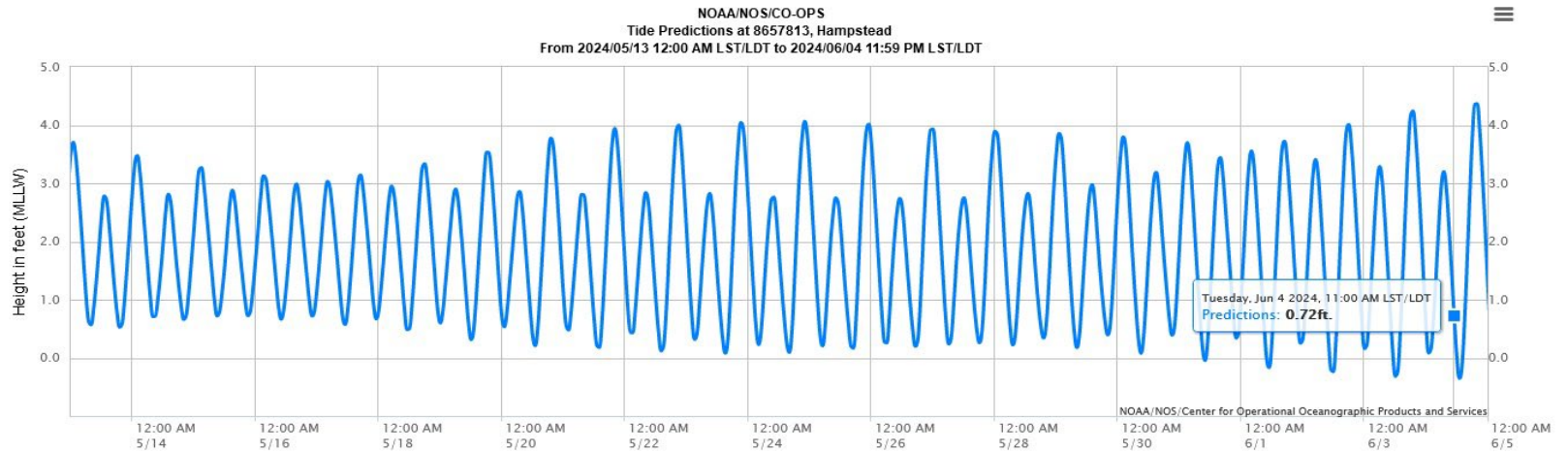
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Tide prediction at Hampstead 05/13/2024 10:00AM

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