

Shellfish Lease Investigation Report	
Investigation Date	8/15/2022
Applicants name	William Clower and Aaron Hopkins
Lease Number	22-069BL/22-070WC
County	Dare
Waterbody/location	Blossie Creek
Proposed Lease Size (acres)	0.70
Lease Type	Bottom/Water Column
Investigation Team	S. Tripp/D. Walters
Gear Used	766 - Patent Tong
Sediment Type	8 - sand (sand in hard and firm strata)
Bottom Composition	B - grass/O - no grass
Depth (m)	1
Tidal Stage	Falling
Water Temperature (°C)	24.8
Salinity (ppt)	28.3
Dissolved Oxygen (mg/L)	7.1
Comments on SAV in or around Proposed Lease location	Dense widgeon grass visible on approx. 50% of lease before modified footprint.
Other Species Collected	
In PNA?	No
In Polluted Area?	No - Approved
In Mechanical Clam Harvest Area?	No
In Mechanical Methods Prohibited Area	No
Other Comments	Verified modified pole locations 11/29/2022

Application Coordinates		Modified Application Coordinates		Investigation Coordinates		Actual Coordinates	
-75.55290000	35.80000000	-75.55222000	35.80045000	-75.55224317	35.80044450	-75.55231833	35.80039215
-75.55330000	35.80010000	-75.55172795	35.79946883	-75.55276650	35.80015967	-75.55222800	35.79984031
-75.55340000	35.79920000	-75.55207638	35.79928011	-75.55204567	35.79927217	-75.55271133	35.79970465
-75.55380000	35.79930000	-75.55278084	35.80016898	-75.55169350	35.79946867	-75.55293383	35.80004981

Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: William Clower and Aaron Hopkins

Proposed Lease #: 22-069BL/22-070WC

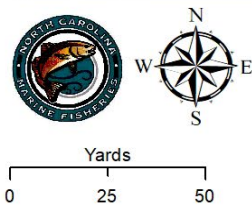
Date: 8/15/2022



Lease size: 0.70 acres # of Samples: 16

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	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
2	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
3	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
4	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
5	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
6	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
7	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
8	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
9	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
10	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
11	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
12	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
13	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
14	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
15	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
16	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
	SAV	Oysters (Eastern Oyster)	Clams (Quahogs)	Scallops				
	1				6%	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		

Proposed Lease ID/Number: 22-069BL/22-070WC
William Clower and Aaron Hopkins

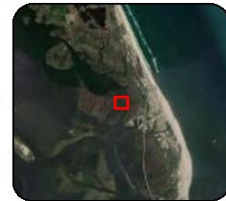
Date: 12/1/2022



-  Adj. Proposed Corner Points
-  Adj. Proposed Lease Area

Acreage: 0.70

Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



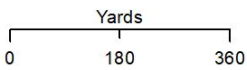
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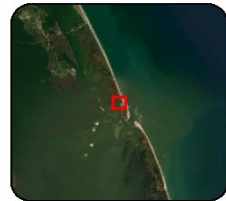


Adj. Proposed Lease Area

Acreage: 0.70

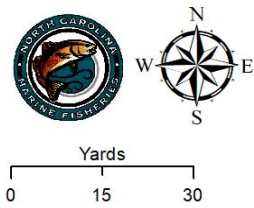


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William Clower and Aaron Hopkins

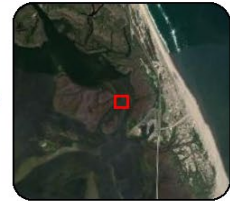
Date: 12/1/2022



- No Bivalve Shellfish Present
- Adj. Proposed Lease Area

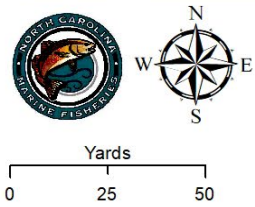
Acreage: 0.70

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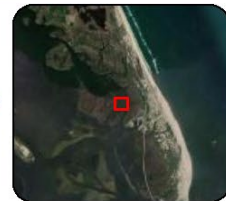
Date: 12/1/2022



- No SAV Present
- SAV Present
- Adj. Proposed Lease Area

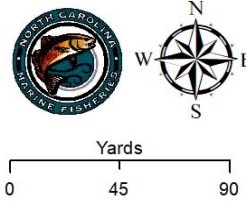
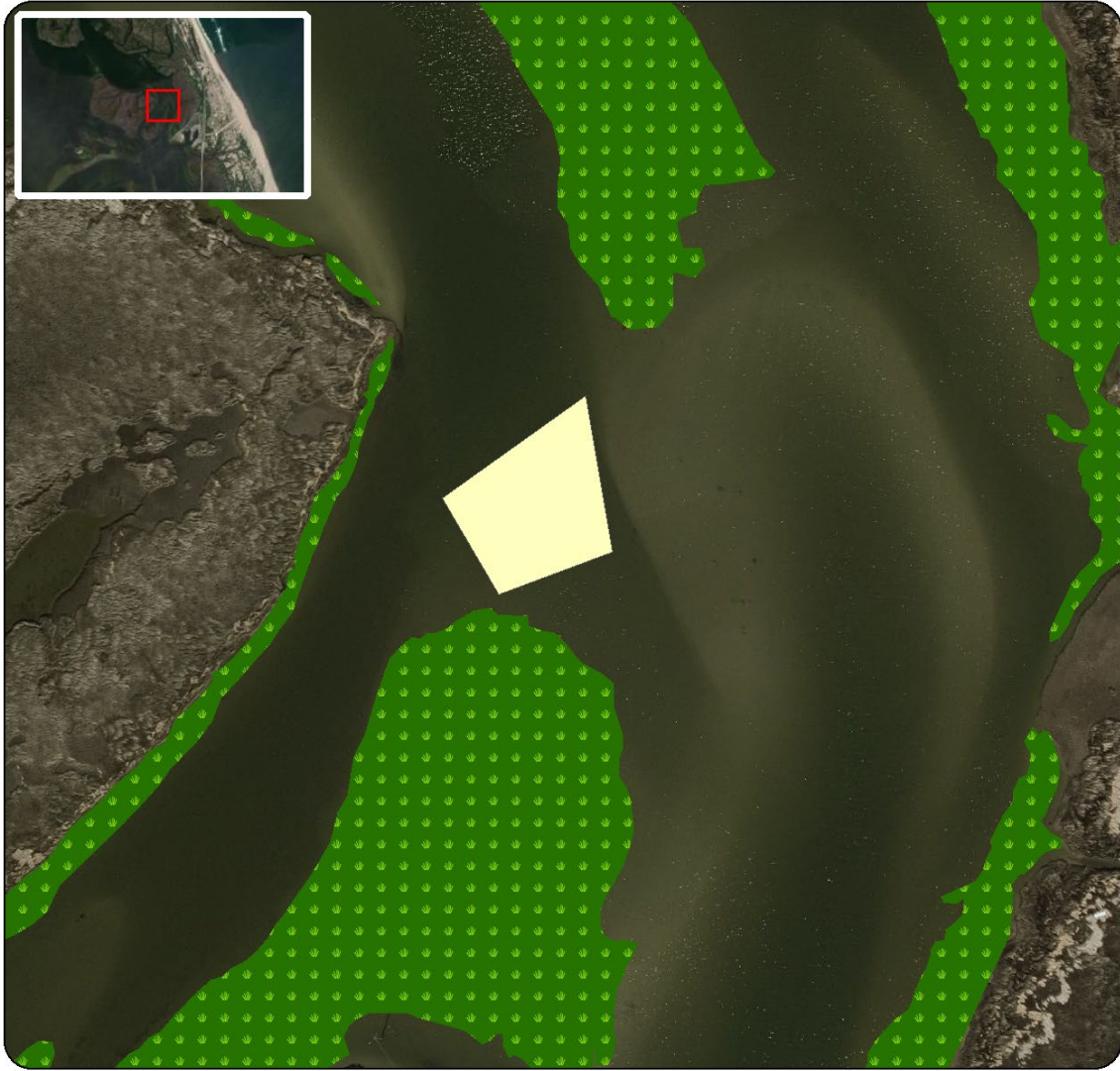
Acreage: 0.70

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Proposed Lease ID/Number: 22-069BL/22-070WC
William Clower and Aaron Hopkins

Date: 12/1/2022



Submerged Aquatic Vegetation
Adj. Proposed Lease Area
Acreage: 0.70

Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet



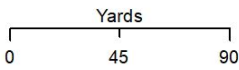
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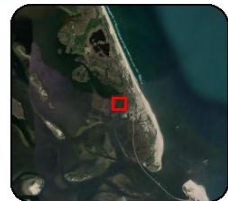


Adj. Proposed Lease Area
SGA Current Classifications
Approved

Acreage: 0.70



Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet









Proposed Shellfish Lease Biological Investigation Sampling Data

Applicant: William Clower and Aaron Hopkins

Proposed Lease #: 22-069BL/22-070WC

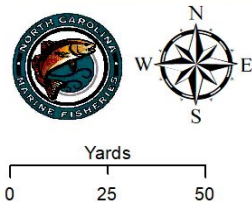
Date: 8/15/2022

Lease size: 1.39 acres # of Samples: 43

Sample #	Presence of SAV Density class	# of Oysters (Eastern Oyster)	# of Clams (Quahogs)	# of Scallops	Date collected	Comments	Bottom Comp.	Sediment Type
1	3	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
2	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
3	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
4	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
5	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
6	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
7	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
8	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
9	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
10	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
11	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
12	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
13	3	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
14	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
15	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
16	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
17	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
18	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
19	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
20	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
21	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
22	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
23	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
24	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
25	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
26	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
27	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
28	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
29	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
30	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
31	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
32	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
33	1	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
34	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
35	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
36	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
37	4	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
38	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
39	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
40	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
41	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
42	2	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
43	0	0	0	0	8/15/2022	NA	B - grass/O - no grass	8 - sand (sand in hard and firm strata)
SAV		Oysters (Eastern Oyster)	Clams (Quahogs)	Scallops				
20					47%	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		

Proposed Lease ID/Number: 22-069BL/22-070WC
William Clower and Aaron Hopkins

Date: 12/1/2022



- No SAV Present
- SAV Present
- Proposed Lease Area

Acreage: 1.39

Coordinate System: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

