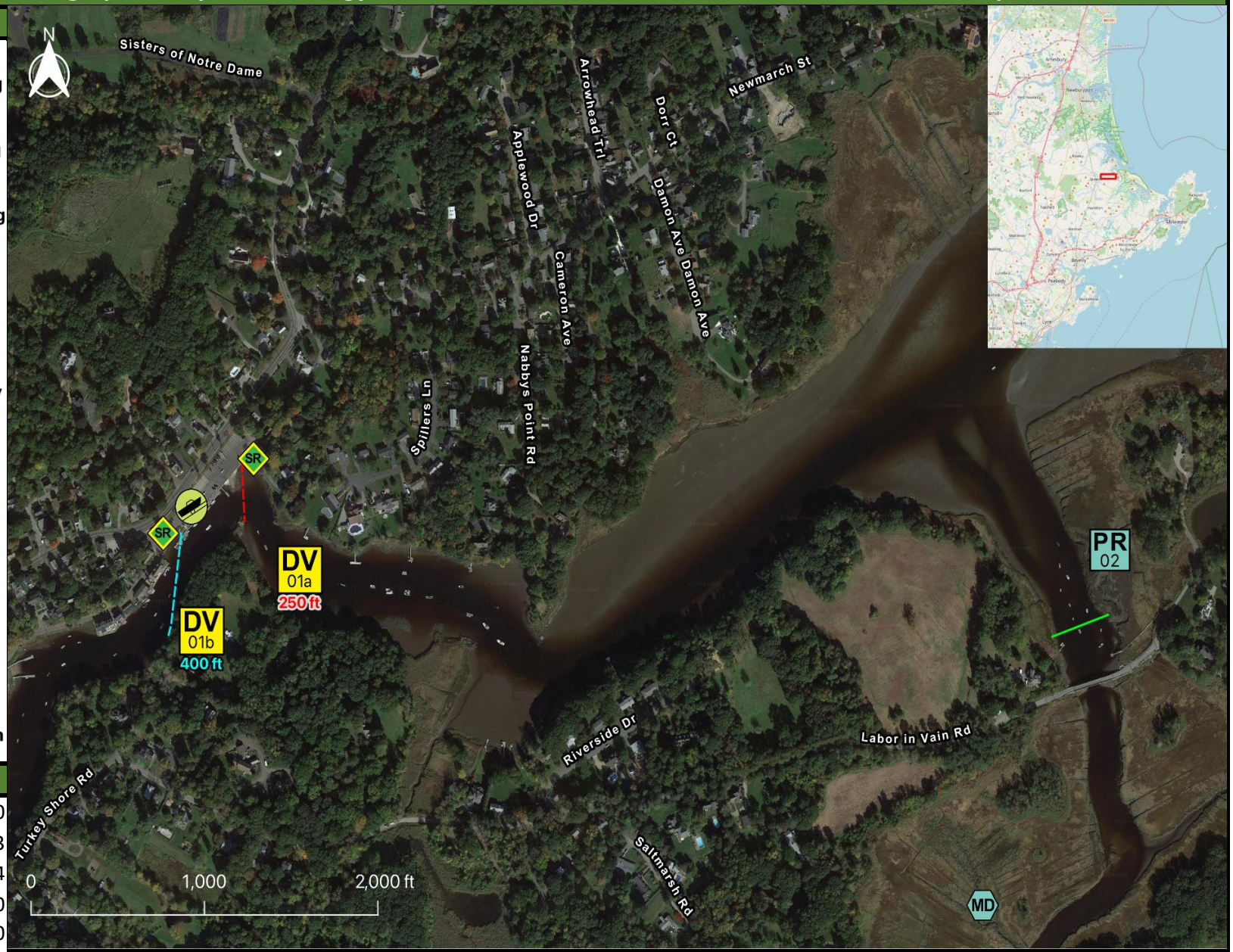
MassDEP North Shore Geographic Response Strategy

Ipswich River NS09A

Tactics Legend

- DF — Deflection Booming
- DV — Diversion Booming
- EX — Exclusion Booming
- FO — Free Oil Recovery
- PR — Passive Recovery
- SR — Shoreside Recovery
- S — Staging Area
- Boat Ramp
- BB — Beach Berm
- TG — Tide Gate
- Protected-Water Boom
- Open-Water Boom
- Snare/ Sorbent Boom



Equipment - All Tactics

Boom(ft)	650
Marine anchors	3
Shore anchors	4
Sorbent Boom(ft)	700
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2

Version

2/15/2023

Response Trailer, Tactics Deployment, and Responder Safety Information

A total of **1** state response trailers are required to implement all the tactics in this GRS.
Responders should always consider on-scene conditions before deploying GRP tactics.
Tactics may not be safe or effective under certain conditions.
Responder safety should always be the first priority.

Location

Latitude:	42°40'57" N
Longitude:	70°49'6" W
NOAA Chart #	13282

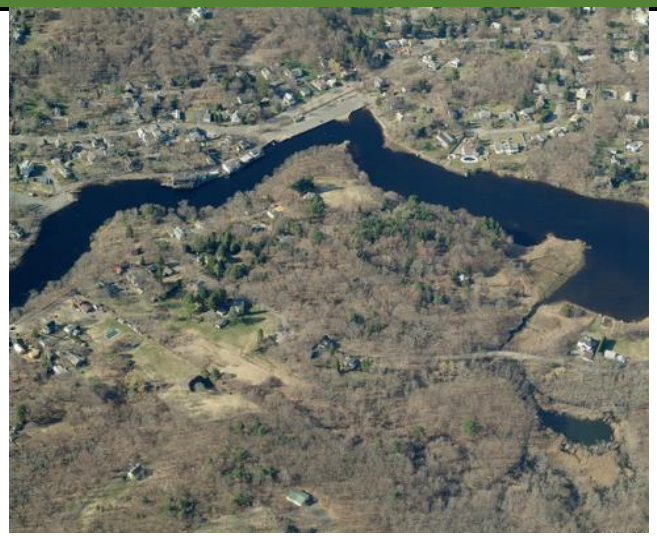
Geographic Response Strategy					Ipswich River NS09A
Tactic #	**Purpose**	**Response Equipment**		**Deployment Resources**	**Deployment Notes**
DV-01a DV	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	250 ft protected water boom 1 marine anchor system 2 shoreline anchor system		2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust angle as necessary to reduce entrainment. Set up shoreside recovery and tend throughout tide. Deploy shoreside anchor first.
		5/19/2015	**Testing Date**	Y **Tested**	
DV-01b DV	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	400 ft protected water boom 2 marine anchor system 2 shoreline anchor system		2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust angle as necessary to reduce entrainment. Set up shoreside recovery and tend throughout tide. Deploy shoreside anchor first. Alternate deployment with tide - reset during slack.
			Testing Date	N **Tested**	
PR-02 PR	Remove spilled oil by collecting it in a sorbent material	300 ft sorbent boom 300 ft sorbent pom-poms 9 anchor stakes		2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A	**Testing Date**	**Tested**	
PR-02 PR	Remove spilled oil by collecting it in a sorbent material	400 ft sorbent boom 400 ft sorbent pom-poms 11 anchor stakes		2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A	**Testing Date**	**Tested**	
SR-03 SR	Remove spilled oil that has been diverted to a designated recovery site accessible from shore	2 skimming system 2 storage tank or bladder 2 hoses, pumps, fittings		2 shore responders	Set up shoreside recovery tactic at general location depicted on map. Some access points located at private residences. Access may be difficult.
		N/A	**Testing Date**	**Tested**	

Geographic Response Strategy

Ipswich River NS09A

Local contacts

Ipswich Fire Department	978-356-6630
Ipswich Harbormaster	508-356-4343
Mass Bays Estuary Assn	978-374-0519
USCG Sector Boston	617-223-5757
Mass. DEP (24 Hours)	888-304-1133
Mass Division of Marine Fisheries	617-626-1520
Environmental Police	800-632-8075



Ipswich Center and Town Dock. Site of DV-01a and DV-01b at top middle (09 April 2008 photo)

Resources Protected

Marine Mammals	**None identified**
Fish	Anadromous, finfish
Invertebrates	Shellfish, Crab, Shrimp
Birds	Bald Eagle, Shorebirds, Seabirds
Threat/End. Species	**None identified**
Cultural	**None identified**
Subsistence	**None identified**
Human Use	Boat Ramps, Mooring Fields
Commercial Fishing	**None identified**
Land Management	**None identified**
Coastal Habitiat	Marsh/Swamp, Tidal Flats, Riprap

Entrance to Fox and Treadwell Island Creeks. Site of EX-02a and EX-02b (09 April 2009 photo)

Special Considerations & Navigational Hazards

Tidal range of 7-9 ft. Extensive tidal flats exposed during low tides. Tidal current max speed of 2-3- kts in main channel. Less than 1 kt in side creeks. Ipswich river downstream flow (from west) can be stronger than flood. Consider conditions when deploying DV-01a. Downstream flow typically stronger in Fall Winter and Spring. Vessel operators should have local knowledge and experience in operating in strong currents.

MassDEP North Shore Geographic Response Strategy — Ipswich River NS09B

Tactics Legend

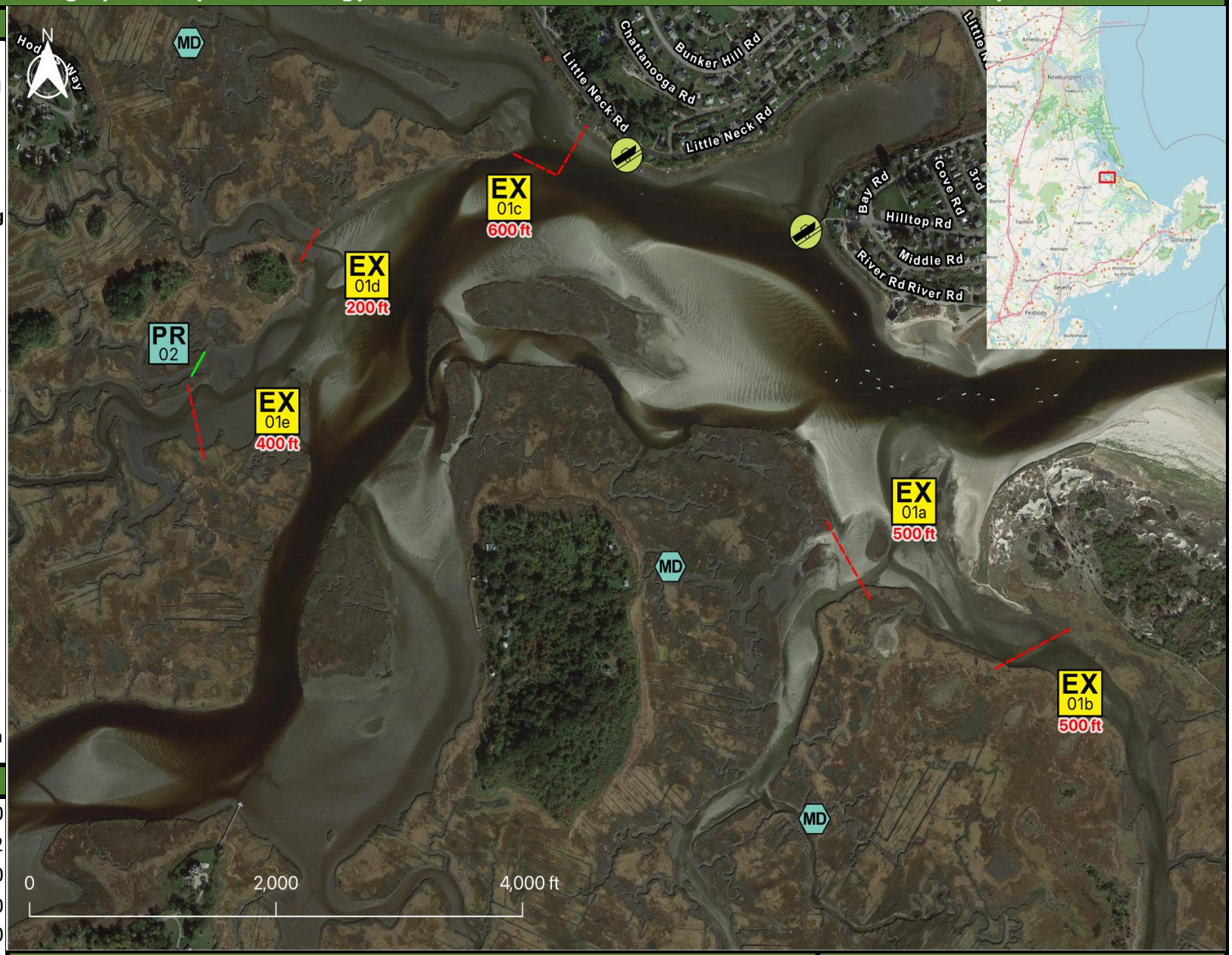
- DF — Deflection Booming
- DV — Diversion Booming
- EX — Exclusion Booming
- FO — Free Oil Recovery
- PR — Passive Recovery
- SR — Shoreside Recovery
- S — Staging Area
- Boat Ramp
- BB — Beach Berm
- TG — Tide Gate
- Protected-Water Boom
- Open-Water Boom
- Snare/ Sorbent Boom

Equipment - All Tactics

Boom(ft)	2200
Marine anchors	12
Shore anchors	10
Sorbent Boom(ft)	150
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2

Version

2/15/2023



Response Trailer, Tactics Deployment, and Responder Safety Information

A total of **3** state response trailers are required to implement all the tactics in this GRS.
Responders should always consider on-scene conditions before deploying GRP tactics.
Tactics may not be safe or effective under certain conditions.
Responder safety should always be the first priority.

Location

Latitude:	42°41'30" N
Longitude:	70°48'1" W
NOAA Chart #	13282

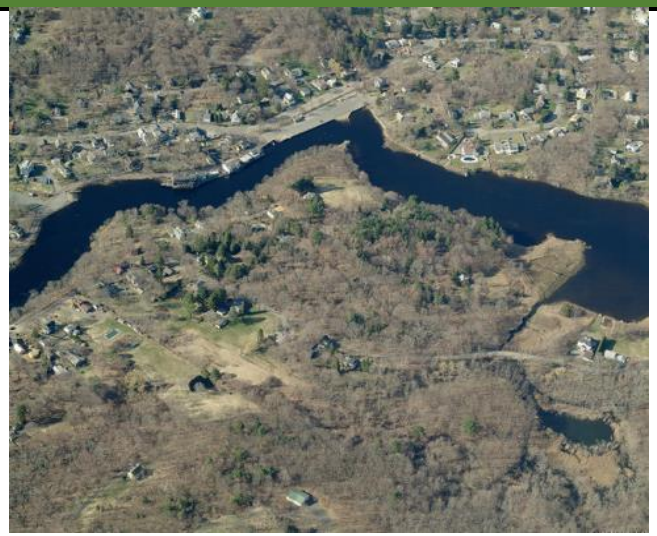
Geographic Response Strategy					Ipswich River NS09B
Tactic #	**Purpose**	**Response Equipment**		**Deployment Resources**	**Deployment Notes**
EX-01a EX	Prohibit oil slicks from entering a sensitive area	500	ft protected water boom	2 shore responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		3	marine anchor system	1 response boats	
		2	shoreline anchor system	3 boat responders	
			Testing Date	N **Tested**	
EX-01b EX	Prohibit oil slicks from entering a sensitive area	500	ft protected water boom	2 shore responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		3	marine anchor system	1 response boats	
		2	shoreline anchor system	3 boat responders	
			Testing Date	N **Tested**	
EX-01c EX	Prohibit oil slicks from entering a sensitive area	600	ft protected water boom	2 shore responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first. Readjust boom angle as needed to reduce entrainment
		3	marine anchor system	1 response boats	
		2	shoreline anchor system	3 boat responders	
			Testing Date	N **Tested**	
EX-01d EX	Prohibit oil slicks from entering a sensitive area	200	ft protected water boom	2 shore responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		1	marine anchor system	1 response boats	
		2	shoreline anchor system	3 boat responders	
			Testing Date	N **Tested**	
EX-01e EX	Prohibit oil slicks from entering a sensitive area	400	ft protected water boom	2 shore responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		2	marine anchor system	1 response boats	
		2	shoreline anchor system	3 boat responders	
			Testing Date	N **Tested**	
PR-02 PR	Remove spilled oil by collecting it in a sorbent material	150	ft sorbent boom	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		150	ft sorbent pom-poms		
		4	anchor stakes		
		N/A	**Testing Date**	**Tested**	

Local contacts

Ipswich Fire Department	978-356-6630
Ipswich Harbormaster	508-356-4343
Mass Bays Estuary Assn	978-374-0519
USCG Sector Boston	617-223-5757
Mass. DEP (24 Hours)	888-304-1133
Mass Division of Marine Fisheries	617-626-1520
Environmental Police	800-632-8075

Resources Protected

Marine Mammals	**None identified**
Fish	Anadromous, finfish
Invertebrates	Shellfish, Crab, Shrimp
Birds	Bald Eagle, Shorebirds, Seabirds
Threat/End. Species	**None identified**
Cultural	**None identified**
Subsistence	**None identified**
Human Use	Boat Ramps, Mooring Fields
Commercial Fishing	**None identified**
Land Management	**None identified**
Coastal Habitiat	Marsh/Swamp, Tidal Flats, Riprap



Ipswich Center and Town Dock. Site of DV-01a and DV-01b at top middle (09 April 2008 photo)

Entrance to Fox and Treadwell Island Creeks. Site of EX-02a and EX-02b (09 April 2009 photo)

Special Considerations & Navigational Hazards

Vessel operators should have local knowledge and experience in operating in strong currents.