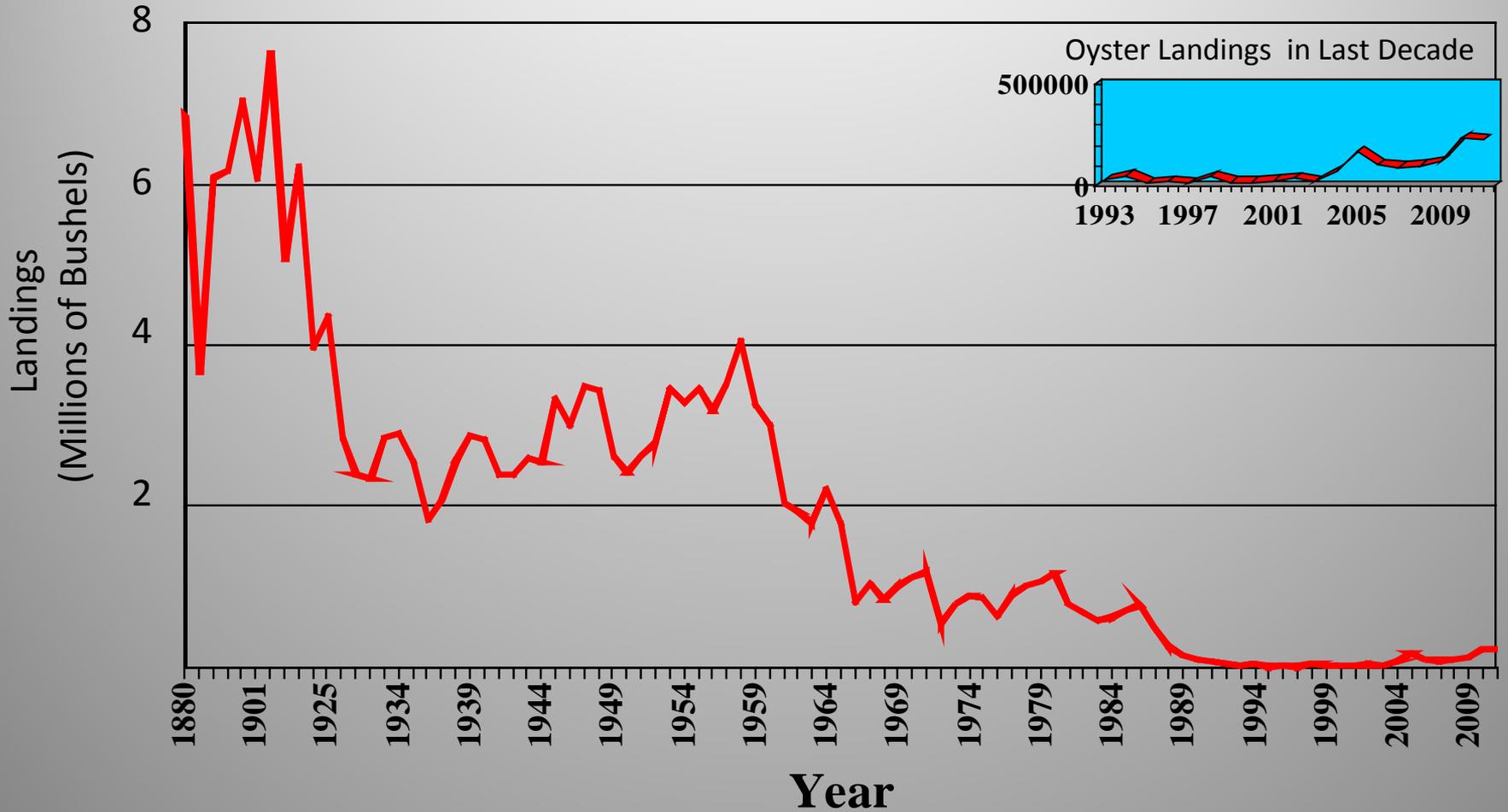


Engaging Stakeholders

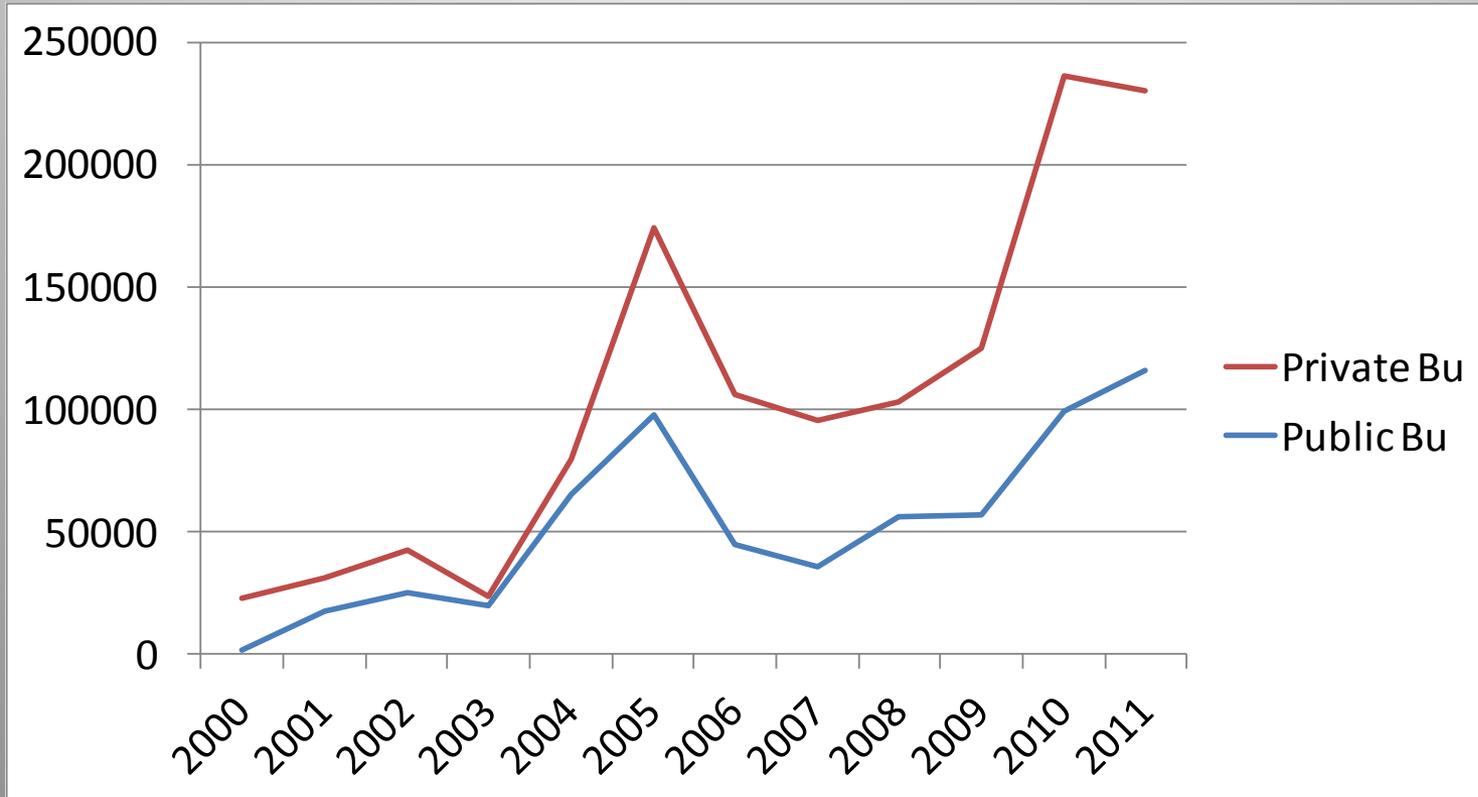
Improving Oyster Harvests

Protecting the Investment

Oyster Landings (1880 - 2011)

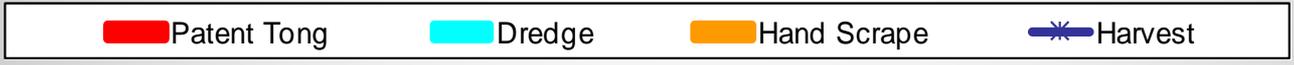


Public vs. Private Oyster Harvest

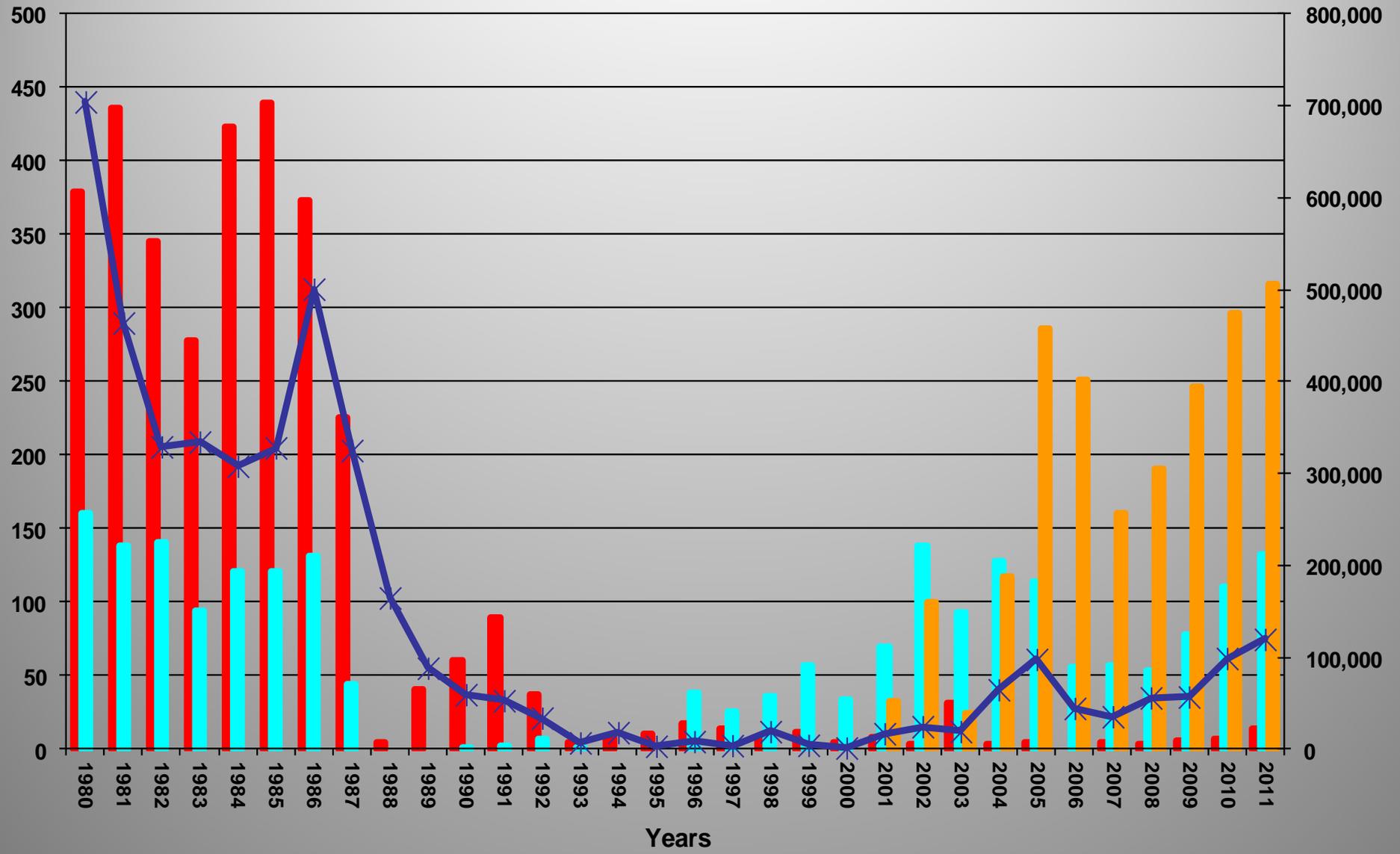


Gear Types Versus Harvest

No. of Gears



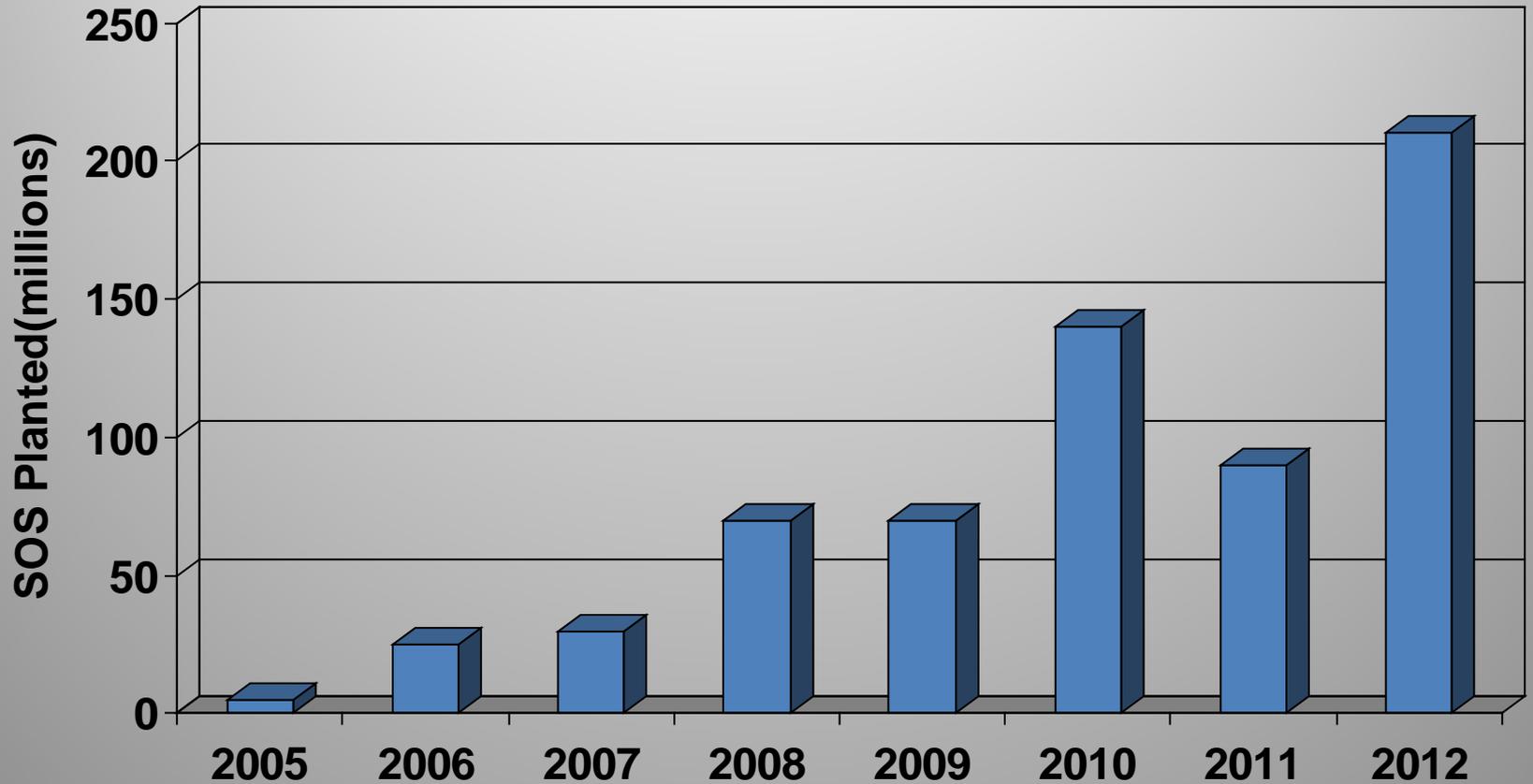
No. of Bushels







Spat-on-Shell Production

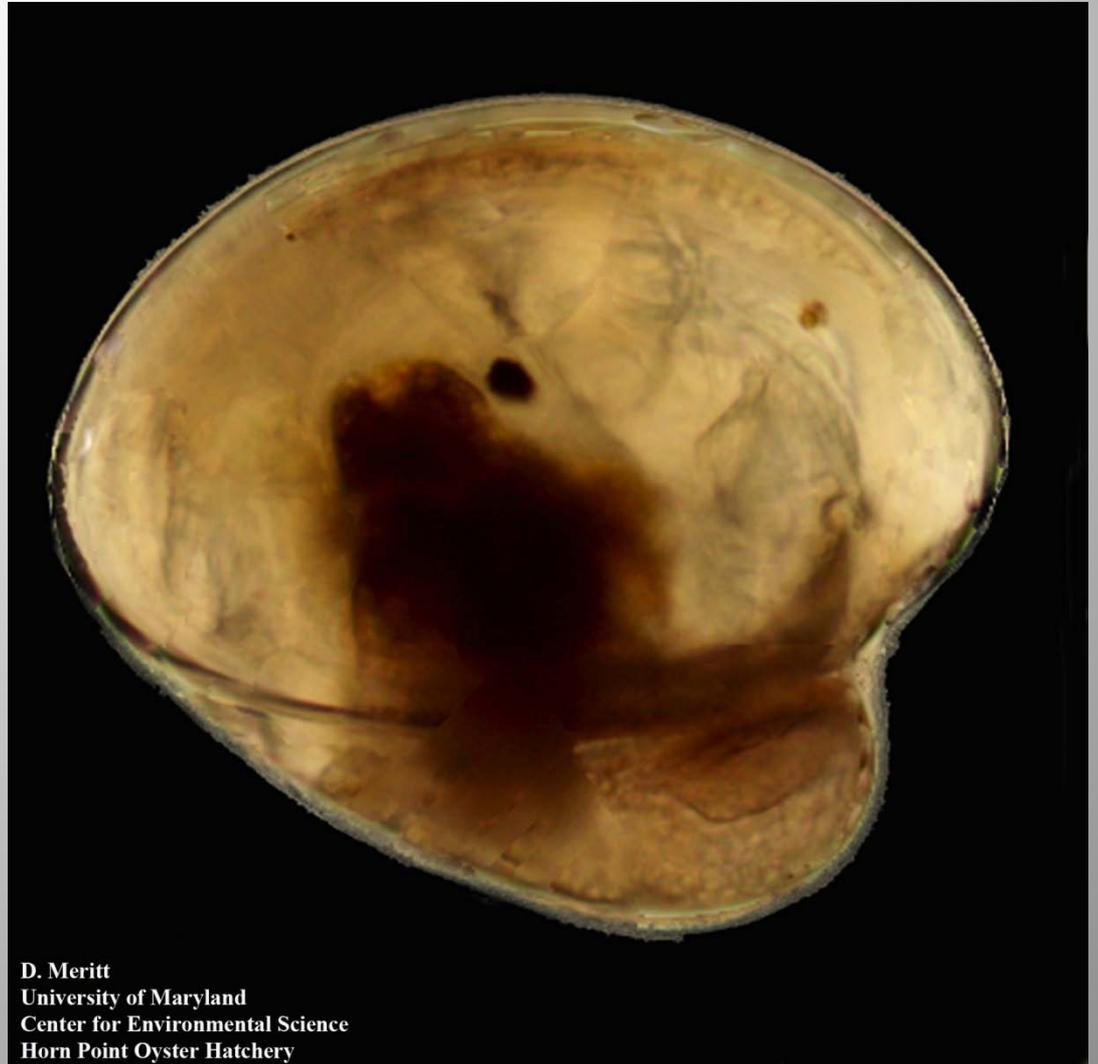


Containerized Shell



Eyed Oyster Larva

Ready to set after 12-
18 days in culture



D. Meritt
University of Maryland
Center for Environmental Science
Horn Point Oyster Hatchery

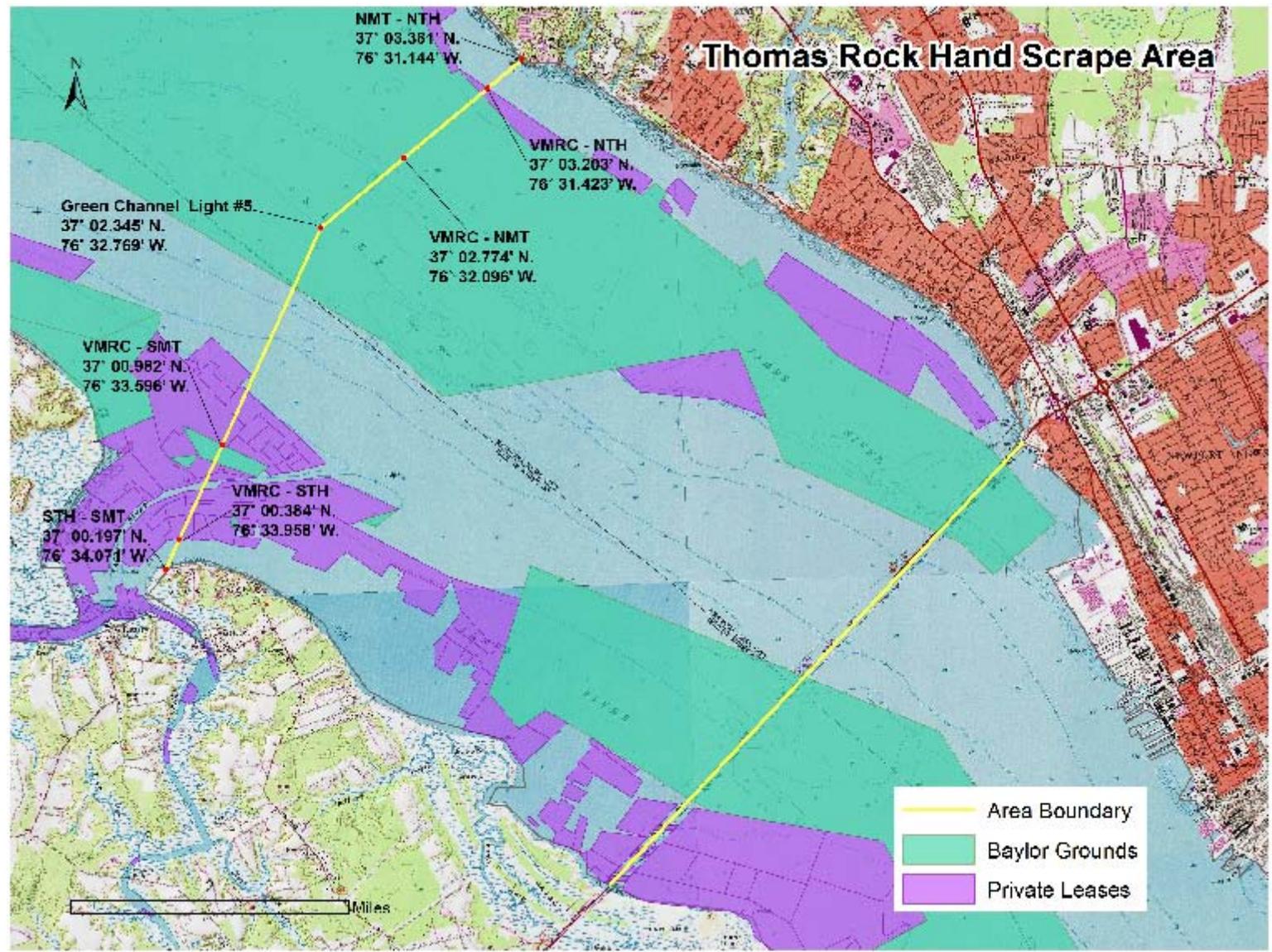


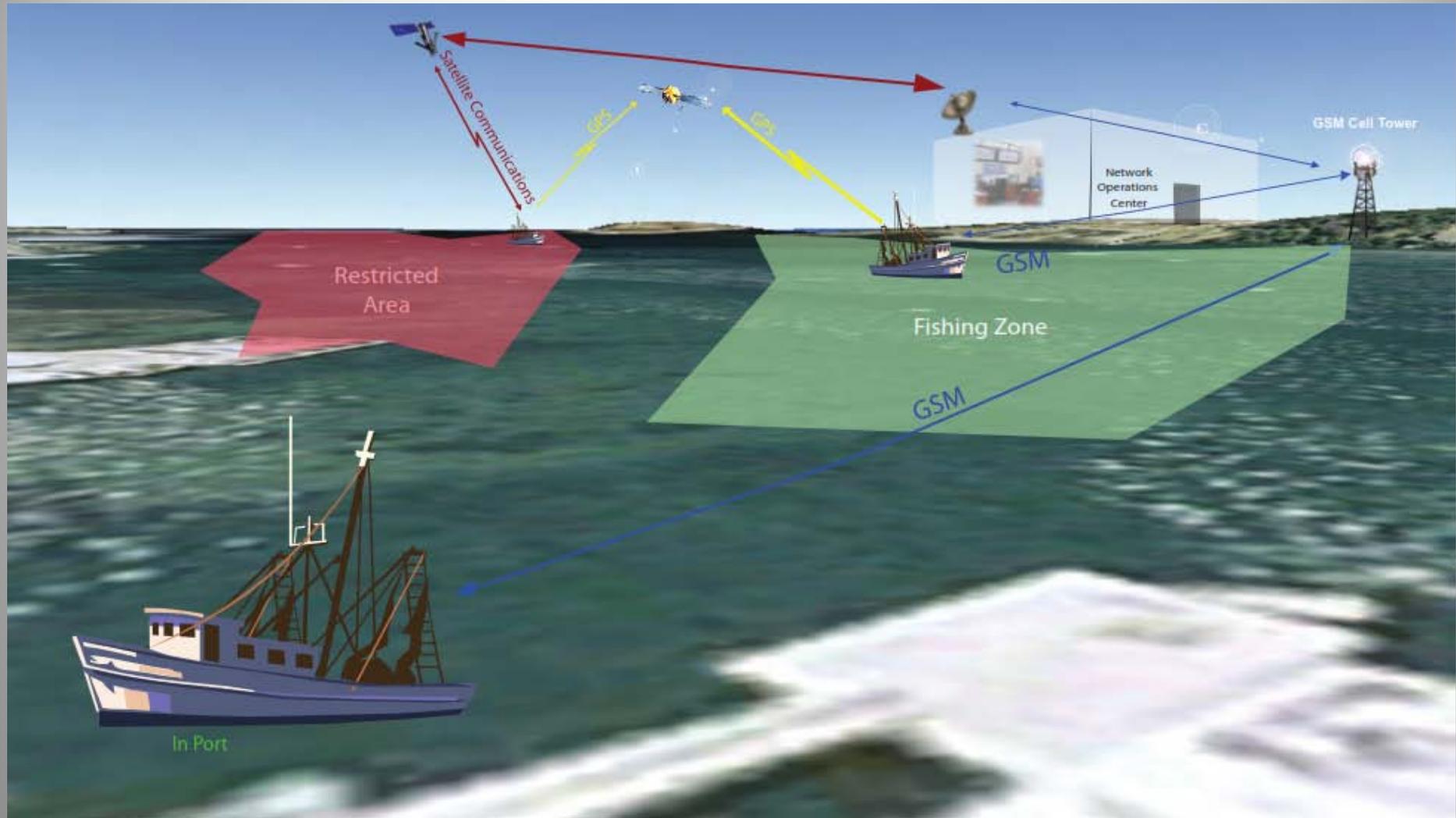


HONEY



Thomas Rock Hand Scrape Area





This is a graphical representation of our communications structure. Our SmartTraxx Marine units use the lowest cost method of communication (cellular or satellite) available. All data is sent to our Network Operations Center (NOC), where it is monitored 24 hours a day.



For this project, we completely overhauled the security features of SmartTraxx Marine. What we ended up with is what you see in the above photo.

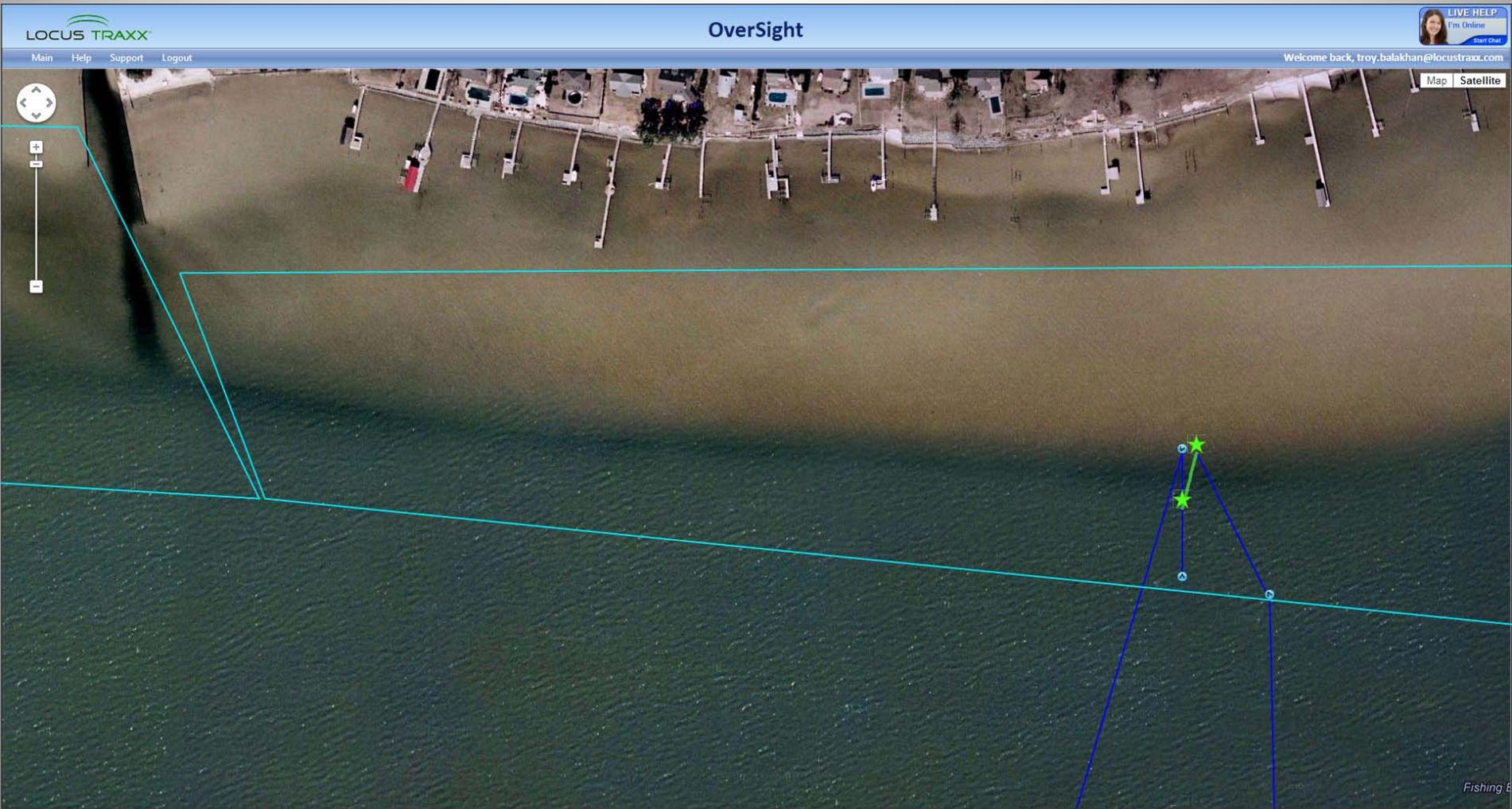
1. The rubber light window is replaced with a sealed poly port.
2. Security screws are added to the bottom and sides of the unit.
3. A cable protection cover is attached to the body of the unit so antennas cannot be disconnected.
4. A non removable, serialized cable seal adds visual evidence of tampering with the cable protector.

OverSight

The screenshot displays the OverSight web application interface. At the top left, the logo for LOCUS TRAXX is visible, along with navigation links for Main, Help, Support, and Logout. The title "OverSight" is centered at the top. On the top right, there is a "LIVE HELP" section with a user profile for "Tim Online" and a "Start Chat" button. Below this, a welcome message reads "Welcome back, troy.balakhn@locustraxx.com". The main area is a Google Maps interface showing a satellite view of the Chesapeake Bay region. Numerous blue and red circular markers are scattered across the water, connected by blue lines, representing vessel tracking data. The interface includes a navigation compass and zoom controls on the left. At the bottom, there is a control panel with tabs for Alerts, Vehicles, Locations, Events, and Trips. Below these tabs, there are search and filter options: "View: All Vehicles", "Vehicle: [input field]", "Vehicle Group: [Any]", and "CaseNumber: [input field]". There are also checkboxes for "Default View" and "Show On Map". At the very bottom, a table header is visible with columns: Vehicle, Location, Last Reported, Speed, Service, GPS, Temperature, Battery, Fuel Level, and Notes.

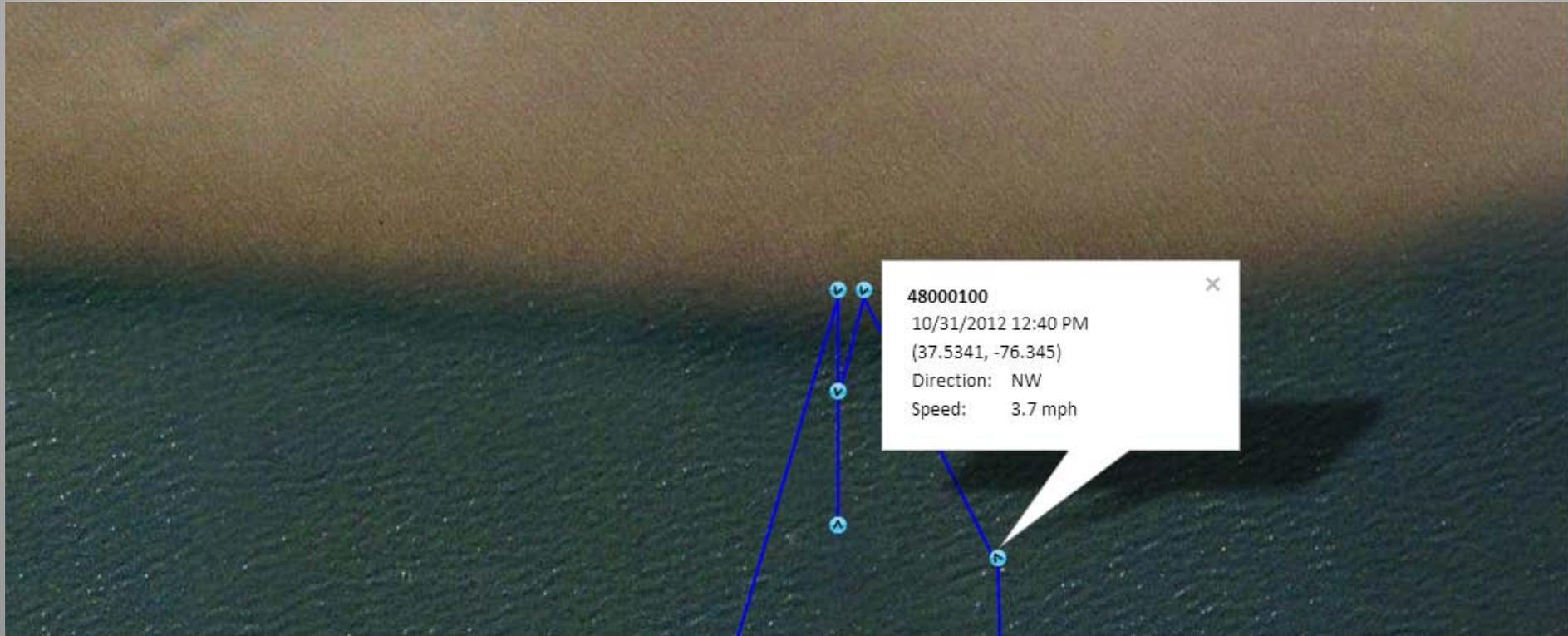
This is OverSight. This is the web application that is used to monitor vessels on the water. We lay continuously updating data over a Google Maps interface for an easy to read, simple to navigate interface.

Piankatank River



GIS layers can be imported and turned into “geo fences,” allowing you to differentiate one leased area from another.

Piankatank River



This image shows the information bubble that pops up when you click on a “breadcrumb.”

Breadcrumbs are what we call those blue points along the route.

Clicking a breadcrumb shows you the date and time the breadcrumb was dropped, the GPS coordinates, the heading of the vessel, and the vessel’s speed.

Piankatank River

The screenshot displays the LOCUS TRAXX Oversight web application. The interface includes a navigation menu (Main, Help, Support, Logout) and a user profile section (LIVE HELP, Tim O'Leary, Start Chat) in the top right. A welcome message for 'troy.baladhan@locustraxx.com' is visible. The main map area shows a satellite view of a river with a blue path and several green star markers. A popup window provides details for a highlighted segment:

Begin:	1-139 Berryville Shores Dr, Deltaville, VA 23043, USA
End:	1-139 Berryville Shores Dr, Deltaville, VA 23043, USA
Time:	1.72 minutes
Distance:	0.02 miles

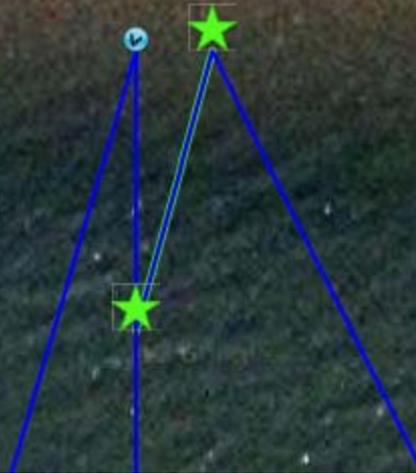
The popup also contains a 'Close' button. The bottom of the interface features a control bar with tabs for Alerts, Vehicles, Locations, Events, and Trips. It includes a search bar with fields for 'View' (set to 'All Vehicles'), 'Vehicle', 'Vehicle Group' (set to 'Any'), and 'CaseNumber'. There are also checkboxes for 'Default View' and 'Show On Map', and a timestamp indicating the last update on 12/04/2012 at 8:29:36 AM.

This screenshot shows a highlighted segment. By highlighting a segment, you can see the time between breadcrumbs and the distance between the breadcrumbs.

Piankatank River

Begin: 1-139 Berryville Shores Dr, Deltaville, VA 23043, USA
End: 1-139 Berryville Shores Dr, Deltaville, VA 23043, USA
Time: 1.72 minutes
Distance: 0.02 miles

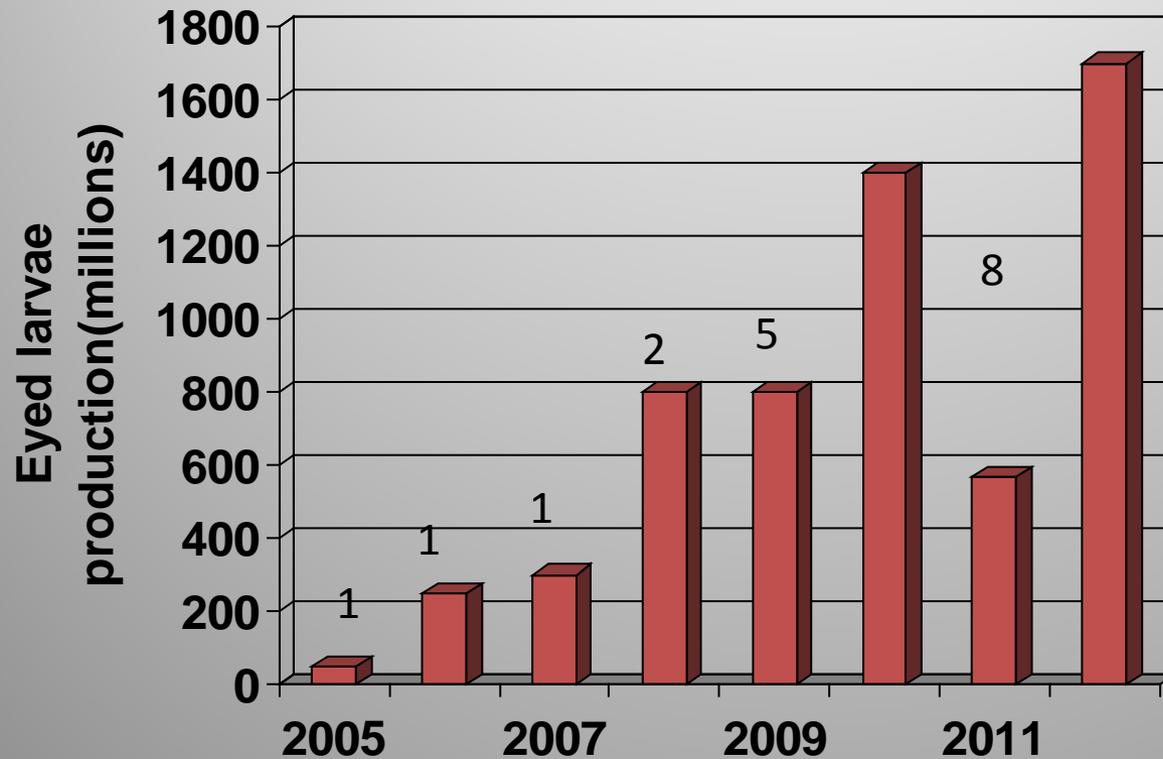
[Close](#)



Here, we see the details of the highlighted segment. The two addresses are the closest land addresses to each of the breadcrumbs.



Eyed Larvae Hatchery Production



Gear Types Versus Harvest

