



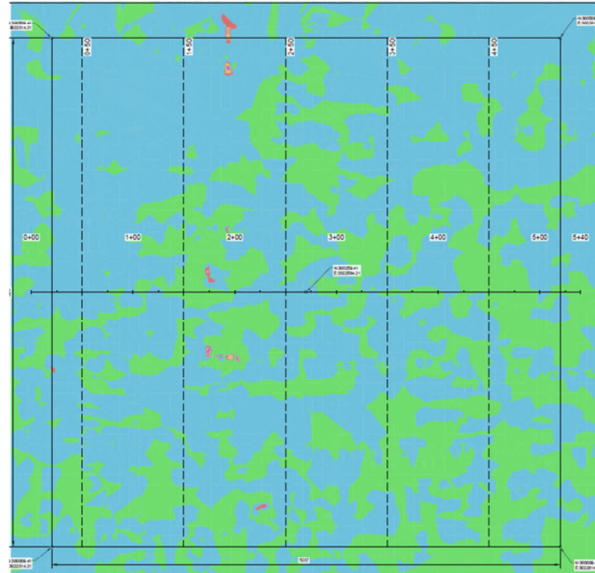
**SM-233/Louisiana Artificial Reef Plan Update**

Mike McDonough | Artificial Reef Council | May 1, 2023



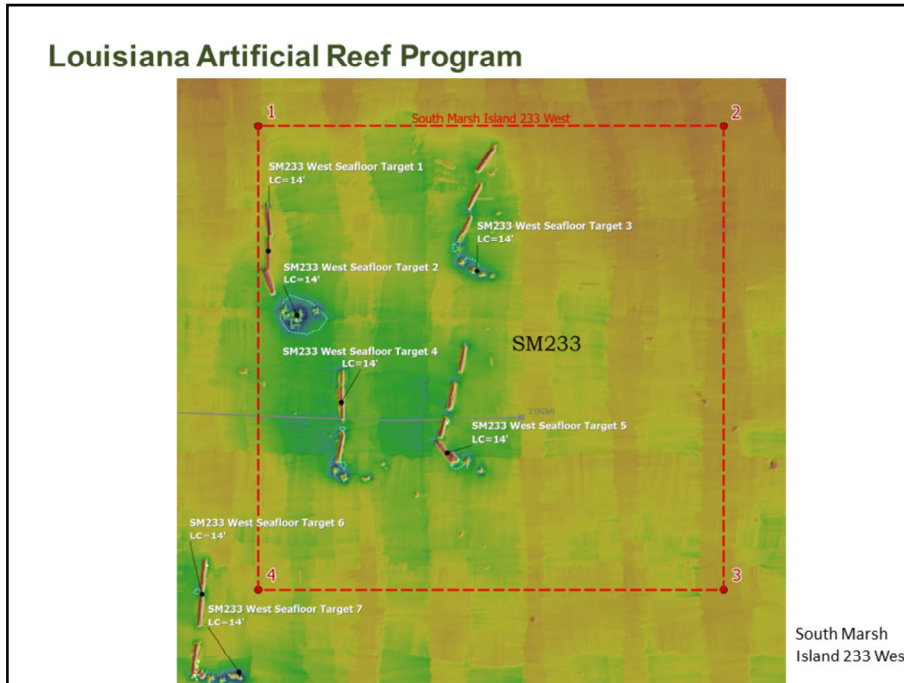
When we deployed the South Marsh Island 233 West & East reefs, we did so with the Council's blessing to do a pilot project testing whether round items would remain in the reef site. If I remember correctly, our conservation partner, CCA, was able to identify some round piles from some decommissioned structures; and we deployed those within the two reef sites. We also added some box junctions (or similar)—John (Walther may remember in more detail)

## Louisiana Artificial Reef Program

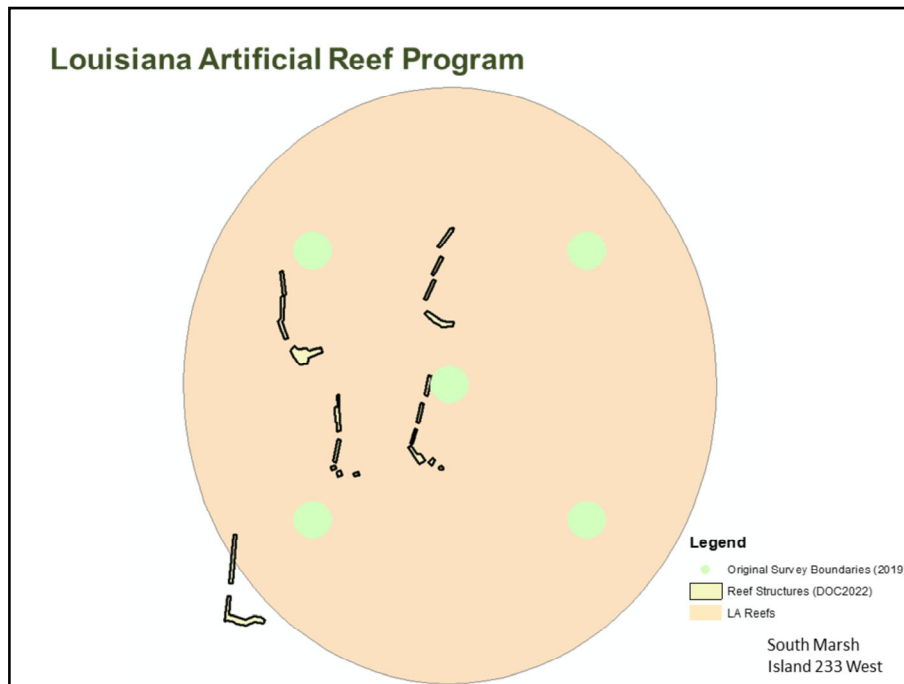


Here is an image from the original survey of the South Marsh Island 233 West reef site. There's not a lot of definition here (some false color reds indicate a little bit of structure), which you'll see when I show you the results of the recent survey. I am going to point out the boundaries of this survey, because I will have them indicated on some later slides.

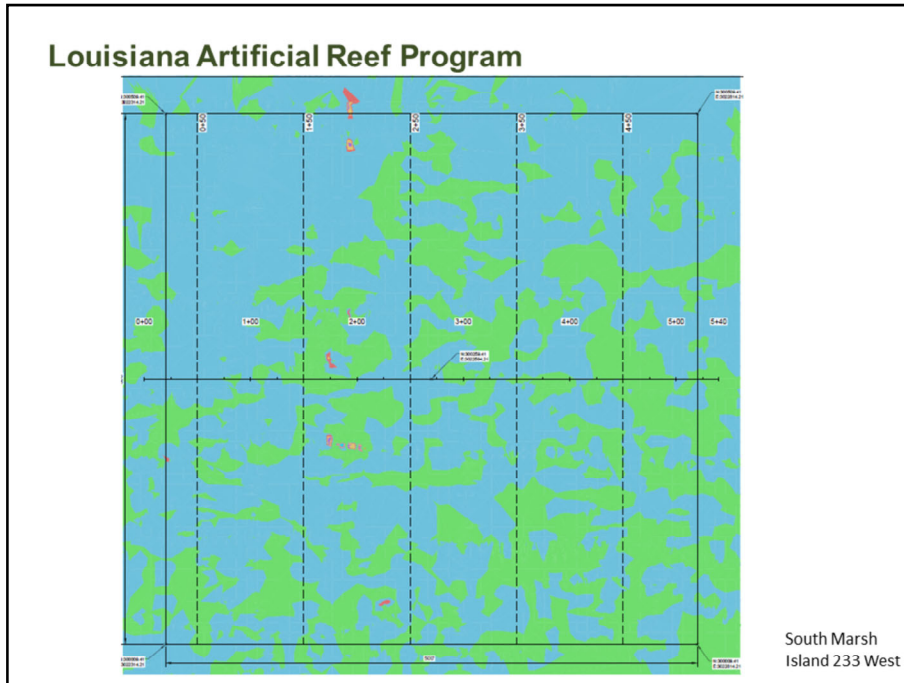
## Louisiana Artificial Reef Program



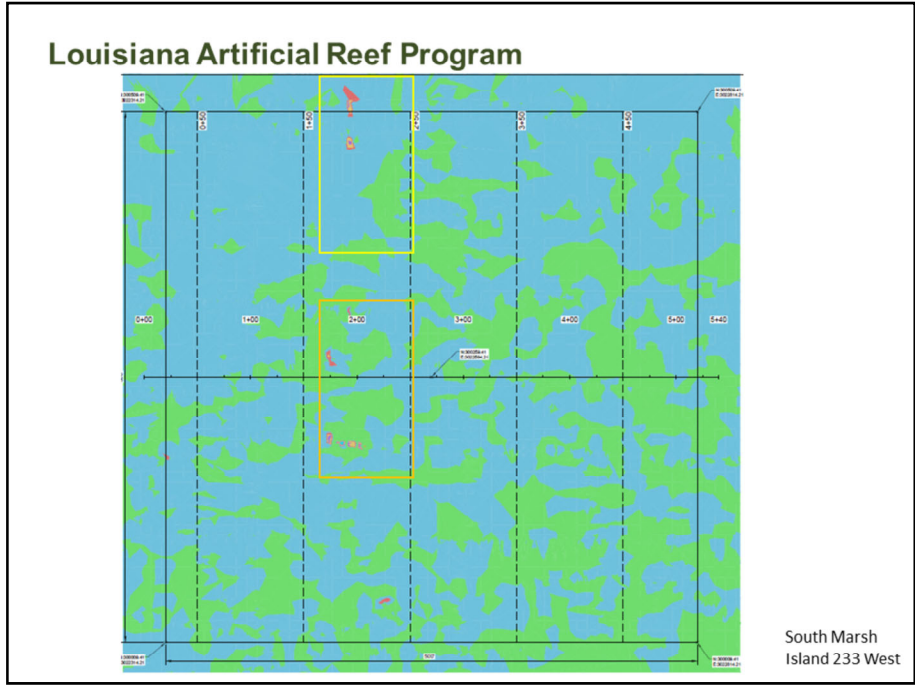
We had these reef sites re-surveyed this past year, and the structures deployed are much easier to see. Unfortunately, one of the things we've found is that some of the material was deployed outside of the permit boundary (SW corner of this image)—it was beyond the space surveyed, so it wasn't identified in the original survey. This is something we will have to address by permitting new boundaries



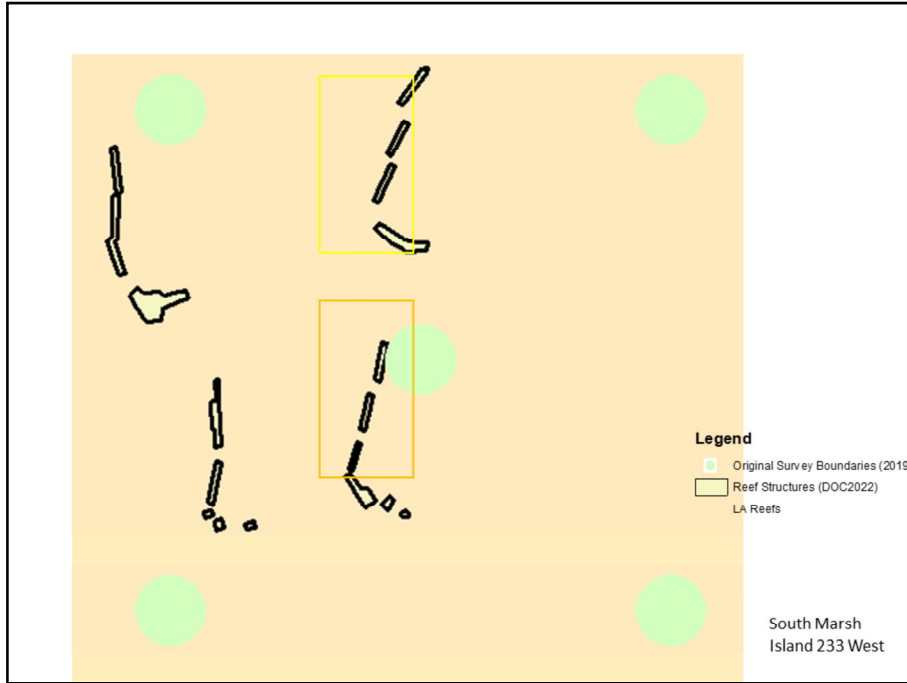
Another nice thing about the recent survey is that we have the data from it, so I've put as much of the data into GIS as I can, in order to compare—it's not really possible to get the survey results into the exact same space. What you're looking at: the peach circle depicts the permit boundaries, the yellow with dark outline the structures deployed, and these dots show the boundaries of the original survey



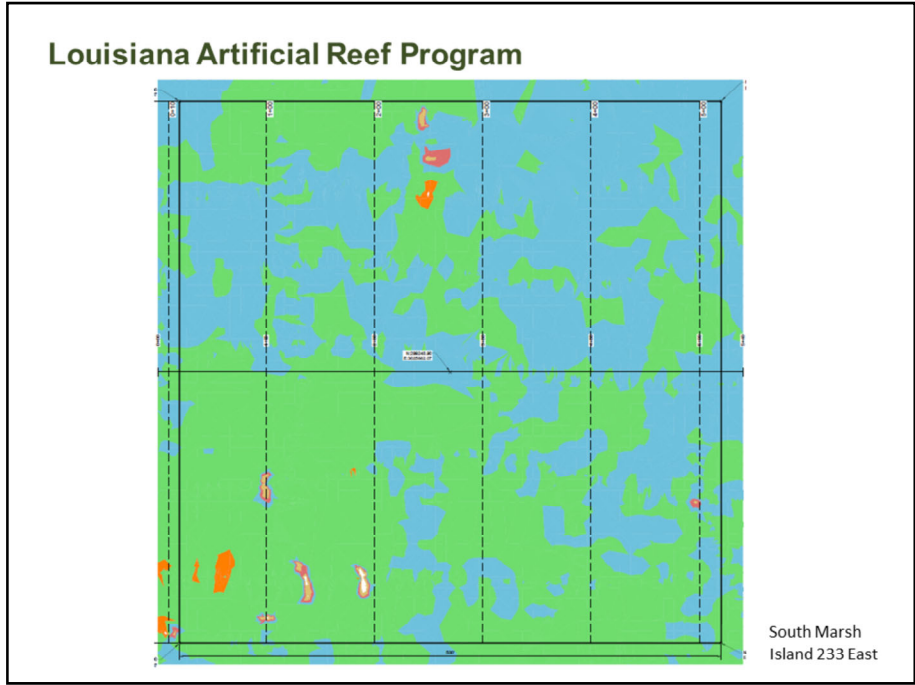
Here's our original survey again, and I've done my best to align and right-size the images from the different surveys. You'll see that the results are less than perfect, so I've tried to include visual references where able.



I've added boxes for reference to the two areas that

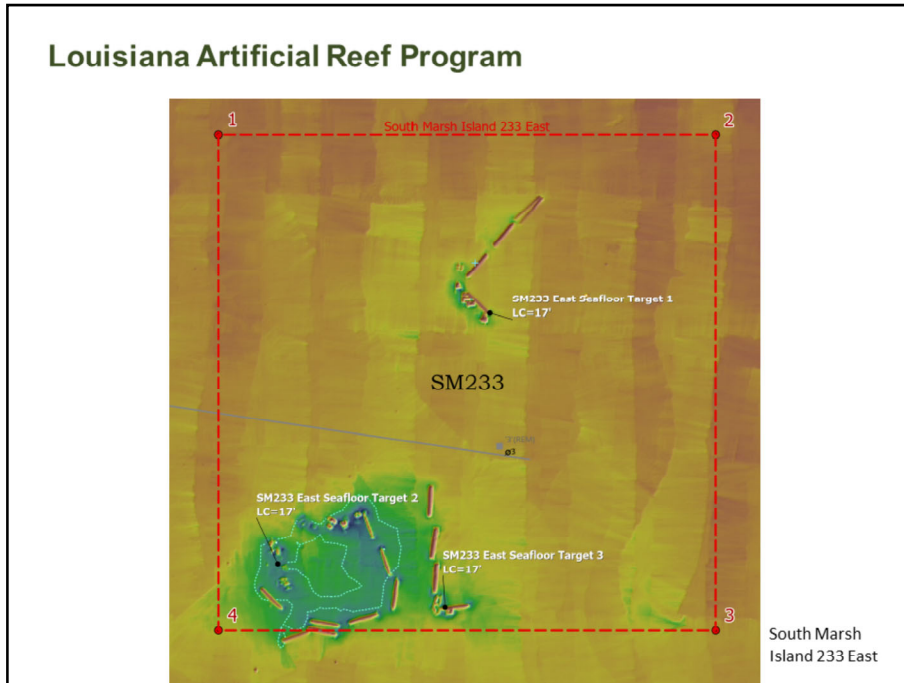


Here are the same boxes on the GIS data image. Nothing lines up perfectly here, but I'm not concerned that we're seeing any significant movement. And my conversations with coordinators from other states is that is their experience.

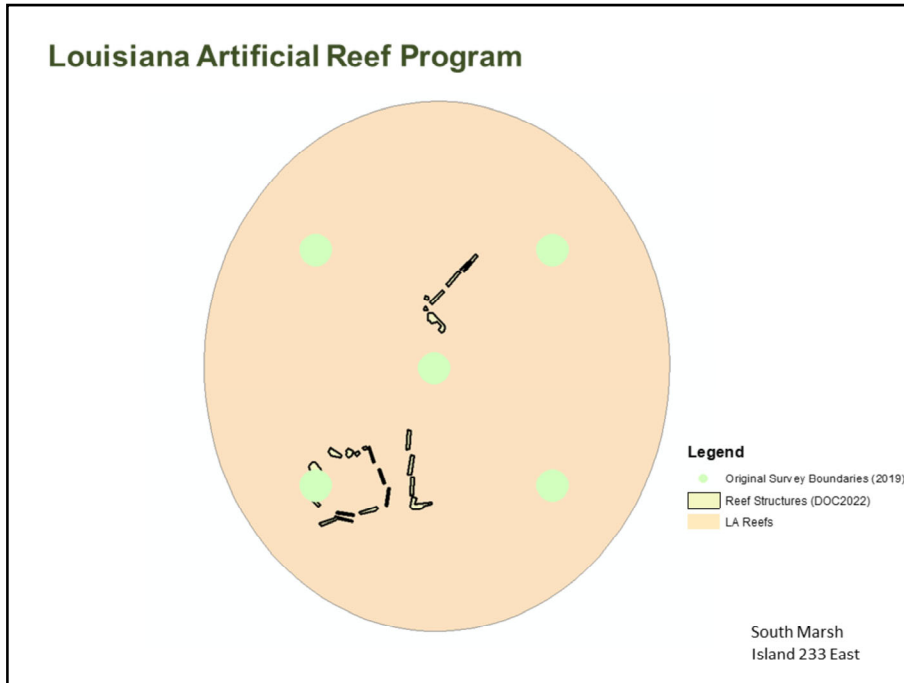


South Marsh Island 233 East was a little clearer, for whatever reason.

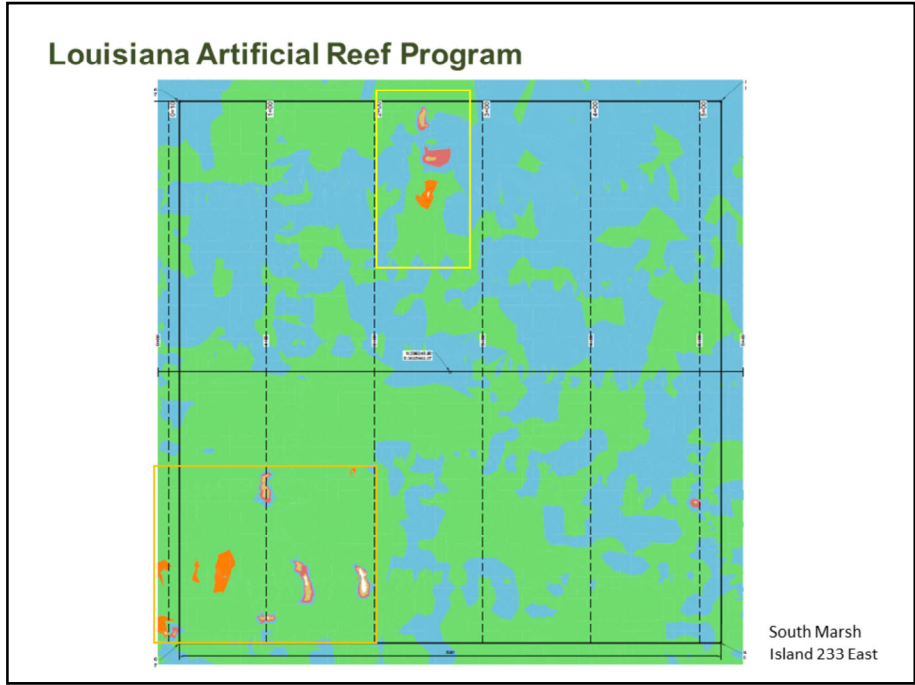
## Louisiana Artificial Reef Program



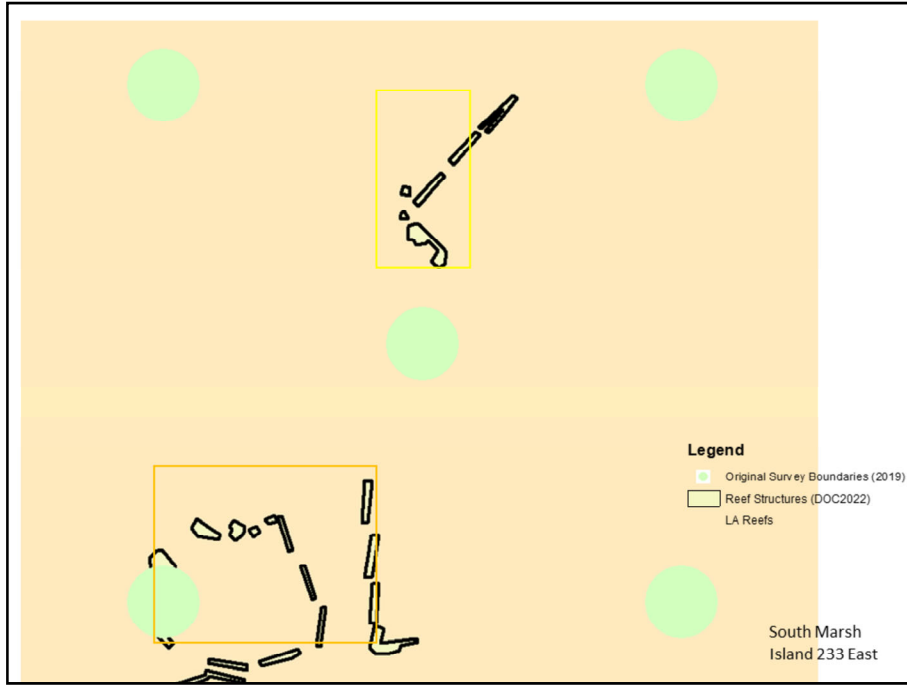
Again, the more recent survey



The GIS data: permit boundaries, structures, original survey boundaries



Finally comparing with as much alignment as I could manage



And the East site, I would argue, looks even better than the West.

## Louisiana Artificial Reef Program

Unacceptable Materials for artificial reef development include but are not limited to:

- All materials that can float
- All materials which contain or are coated with growth inhibitors (i.e. antifouling paint, antibacterial agents, etc.)
- All plastics, PVC or fiberglass
- Aircraft
- Asphalt
- Automobiles, buses, truck bodies, trailers or parts
- Cylindrical or spherical materials (round culverts, drums, pipe, etc.)
- Thin gauged metal objects (i.e. dumpsters, shopping carts, shelving units, desks, etc.)
- Tires
- Untested byproducts from combustion or manufacturing processes
- White goods (i.e. refrigerators, washers, dryers, toilet, etc.)
- Wiring and insulation
- Wood

This is page 10 of the Inshore Nearshore Plan, listing the Unacceptable Materials, line 7 reads "Cylindrical or spherical materials". If the Council agrees that movement is not a concern from the pilot project, I'd like to revise this line to

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- All plastics, PVC or fiberglass
- Aircraft
- Asphalt
- Automobiles, buses, truck bodies, trailers or parts
- Spherical materials
- Thin gauged metal objects (i.e. dumpsters, shopping carts, shelving units, desks, etc.)
- Tires
- Untested byproducts from combustion or manufacturing processes
- White goods (i.e. refrigerators, washers, dryers, toilet, etc.)
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“Spherical materials” (sorry, I couldn’t think of any examples, because we are not going to entertain spherical items). I think it also makes sense to go ahead and add the Inshore Nearshore Plan to the Artificial Reef Plan as an amendment, so we can refer to one plan, and that’s the sub-item to this agenda item.

Questions?

