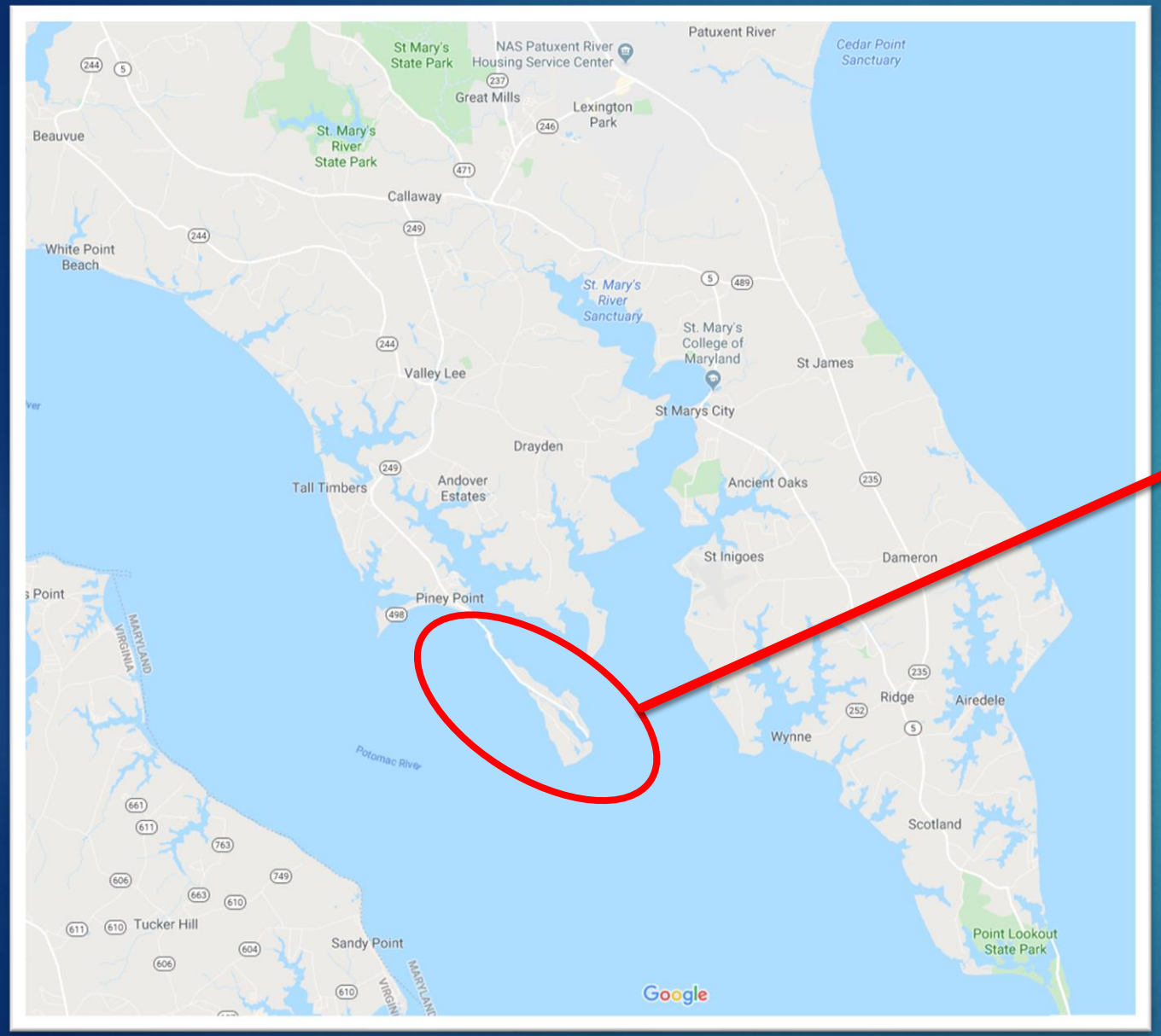
St. Mary's County

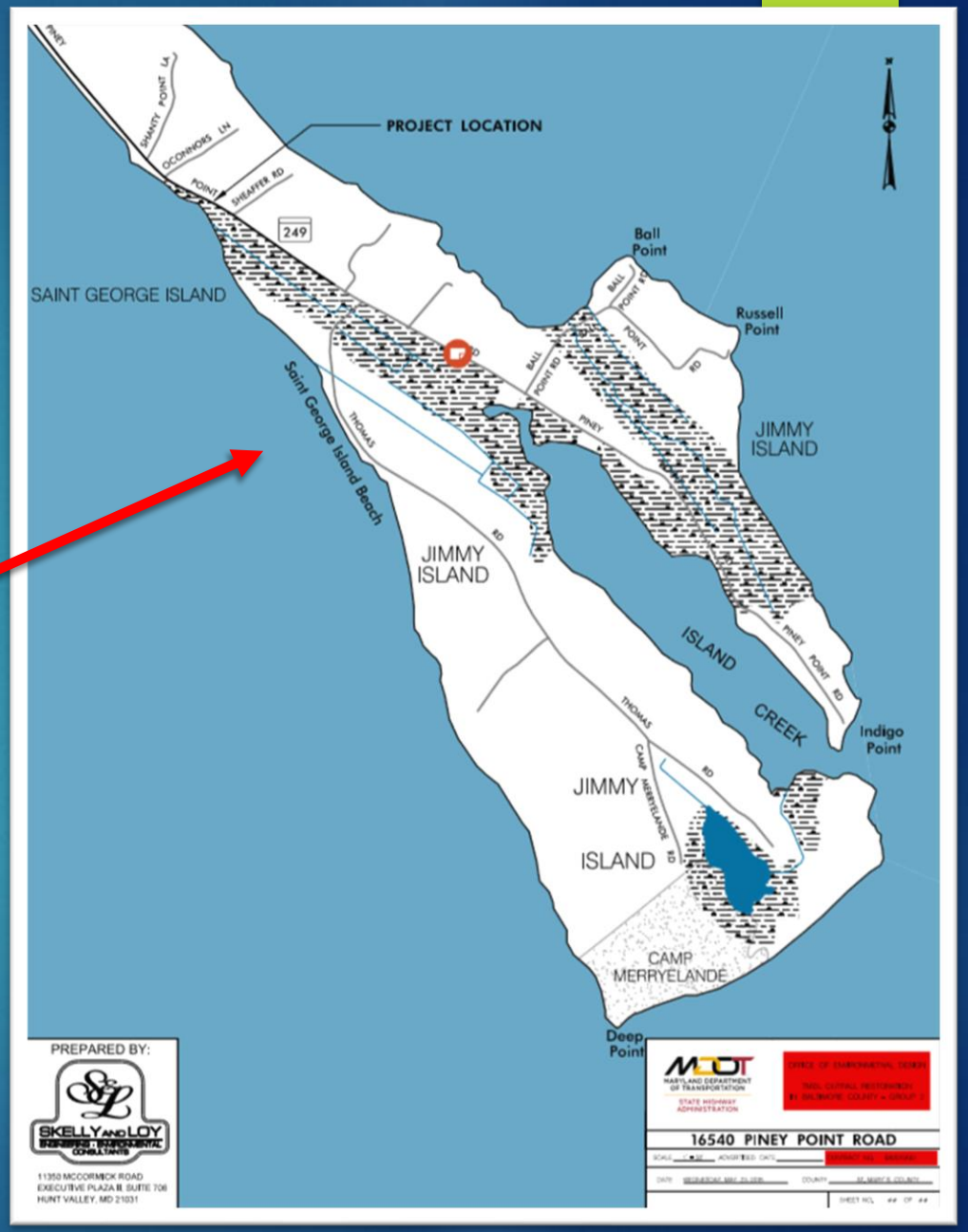
# MD 249 St. George Island

## Erosion & Flooding

10/18/19 INTERNAL SHA MEETING

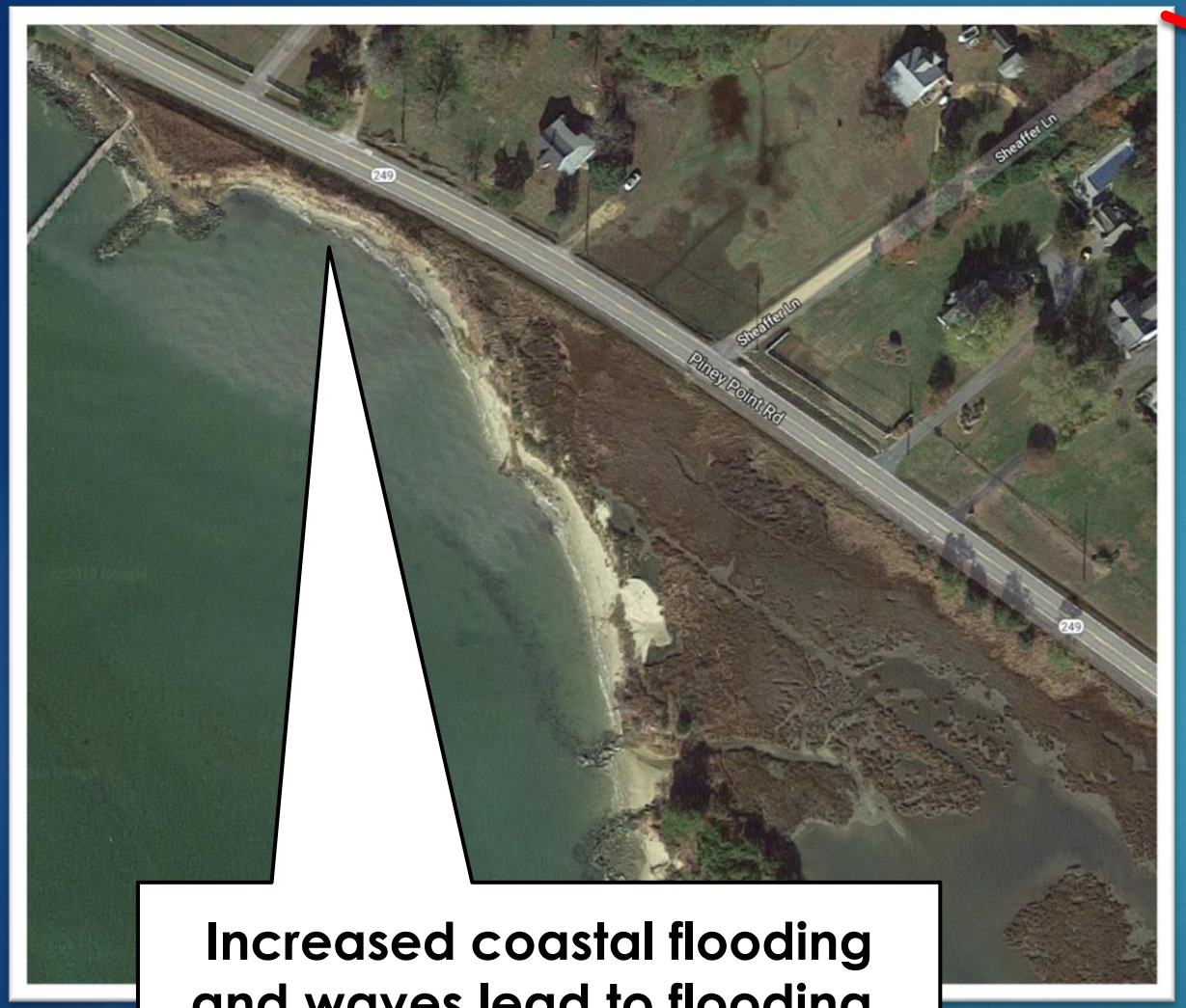
PRESENTED BY: CORREN JOHNSON, DISTRICT ENGINEER


Patuxent River
Cedar Point Sanctuary
St Mary's State Park
NAS Patuxent River Housing Service Center
Great Mills
Lexington Park
Beauvue
St. Mary's River State Park
Callaway
White Point Beach
St. Mary's River Sanctuary
St. Mary's College of Maryland
St James
Valley Lee
St Marys City
Drayden
Tall Timbers
Andover Estates
Ancient Oaks
St Inigoes
Dameron
Piney Point
Ridge
Airedele
Wynne
Potomac River
Scotland
Point Lookout State Park
Tucker Hill
Sandy Point
MARYLAND
VIRGINIA
Google


PROJECT LOCATION
SAINT GEORGE ISLAND
Saint George Island Beach
Ball Point
Russell Point
JIMMY ISLAND
JIMMY ISLAND
JIMMY ISLAND
ISLAND CREEK
Indigo Point
CAMP MERRYELANDE
Deep Point
PREPARED BY:
SKELLY AND LOY
11350 MCCORMICK ROAD
EXECUTIVE PLAZA III, SUITE 706
HUNT VALLEY, MD 21031
MDOT
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
16540 PINEY POINT ROAD

# Timeline of Key Events

- June 2010 – meeting w/ state and county agencies and officials, and citizens led by then-Delegate John Bohannan. A future of action was referenced but no specifics have been found.
- July 2014 – LOD installed native wetland plantings to protect the shoreline from erosion. Tidal erosion reduced the planting area.
- Aug 2017 – letter Lee Starkloff from St. George Island Improvement Assoc. regarding flooding (road/residential) and erosion
- Aug 2018 – received MEPA clearance document for the emergency culvert cleaning
- Aug 2018 – SMCo. Met with DNR, elected officials
- Oct 2018 – citizen complaints about removal of sand cleared from culverts
- July 2019 – field meeting with MDOT SHA offices, Del. Crosby, SMCo. DPW staff, permitting agencies / few citizens discussions

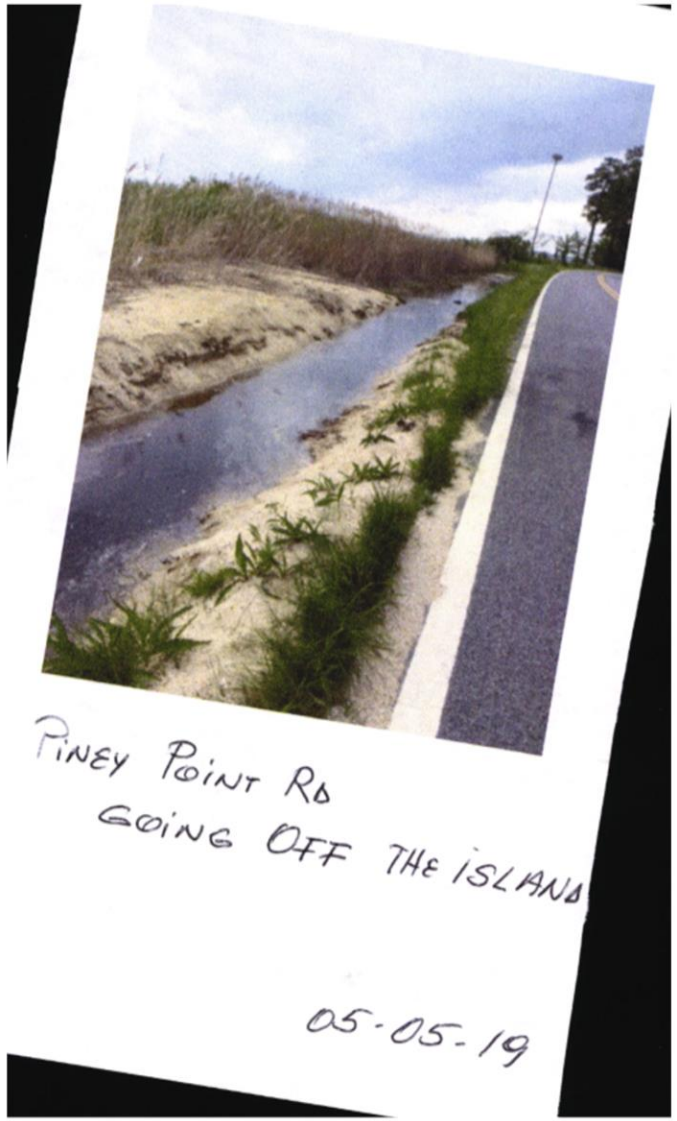



**Increased coastal flooding and waves lead to flooding. Erosion reduces shoreline and vegetation**

Sand accumulates, block culverts & ditches, traps water on properties

**Community wants Shoreline protection like**
**Rip-rap seawall along Thomas Rd**

Exhibit created by DNR after a meeting with St. Mary's Co. DPW
N
PINEY POINT RD
SHEAFFER LN
1943
1942
1858
1958
Area of Erosion and Flooding
Possible Living Shoreline Project
575-600 LF Proposed
Living Shoreline
1 inch = 100 feet


PINEY POINT RD
GOING OFF THE ISLAND
05-05-19

PINEY POINT RD
GOING ON TO THE ISLAND
05-05-19

# Video during high tide

(late Sept. 2019)

October 17, 2019 at low tide

October 17, 2019 at low tide

October 17, 2019 at low tide

# Resident Concerns

- Potomac River is a few feet from MD 249
- Health, safety, emergency access concerns
- Ditches and drop off visibility
- Small cars or low-to-the-ground vehicles
- School bus & children
- Private property flooding and destruction of landscaping and fencing
- Mosquitos
- Large pickups spray salt water impacting driver visibility
- Eventual road washout/collapse
- MDOT SHA "dredging"

# Ideas Suggested

- Extend the pipe further out into the water
- Relocate some existing pipes/install new ones in better locations
- Add rip rap/revetment
- Create living shoreline to re-establish the previously existing shore line
- Headland stone breakwaters system, with beach sand nourishment and applicable marsh plantings