

Seven Mile Island Innovation Lab

Work Group Meeting

June 16, 2021 9:00 – 12:00

Purpose: Provide an update on the suite of SMIIIL beneficial use sites, adaptive management, and ongoing research and monitoring projects.

Agenda

1. 9:00 – 9:10 - Welcome – Monica Chasten, Ginger Kopkash, and Lenore Tedesco
2. 9:10 – 9:30 – Gaining Momentum: How SMIIIL Advances Beneficial Use Practices Along the New Jersey Intracoastal Waterway– Monica Chasten, USACE
3. 9:30 – 9:50 - Overview of 2020/2021 SMIIIL Placement Projects at Gull and Sturgeon Islands and Great Flats – Lenore Tedesco, The Wetlands Institute
4. 9:50 – 10:00 – Discussion
5. 10:00 - 10:35 – USACE ERDC /UPenn Team Lightening Talks
 - a. SMIIIL Project Monitoring
 1. 10:00 - Consolidation and Dredged Material on Marshes at SMIIIL – Susan Bailey, USACE ERDC
 2. 10:10 - Monitoring Marsh Enhancement and Near Shore Placement: Turbidity and Sediment Profile Imaging – Kelsey Fall, USACE ERDC
 3. 10:15 - Monitoring Macroalgae and Benthic Communities at Gull and Sturgeon Islands – Safra Altman and Matt Balazak – USACE ERDC –
 - b. Innovative Techniques and Technologies
 1. 10:20 - Investigation of an Innovative Dredged Sediment Placement Technology - The Sediment Distribution Pipe - Brian McFall and Tim Welp, USAC ERDC
 2. 10:25 - Digital Elevation Model to Support Shoreline Change Analysis– Lauren Dunkin, USACE ERDC
 3. 10:30 Drone-based Elevation Survey Efforts and Mapping High Marsh Vegetation – Sean Burkholder, UPenn
6. 10:35 – 10:50 - Discussion
7. 10:50 – 10:55 - Break
8. 10:55 – 11:10 - Adaptive Management of Elevated Nesting Habitats – Lisa Ferguson, TWI
9. 11:10 – 11:15 – Update on Lessons Learned and Monitoring at Avalon Marsh and Ring Island - Metthea Yepsen, NJDEP
10. 11:15 – 11:25 Discussion
11. 11:25 – 11:40 – Upcoming Projects
 - a. Vessel-Generated Wave Impact Forces Along Marsh Shorelines – Anthony Priestas, USACE ERDC
 - b. Observations of Physical Properties and Processes within SMIIIL to Aid Ongoing and Future Projects – Dave Perkey, USACE ERDC
 - c. Tidal Delivery of Strategically Placed Dredged Material in Wetland Environments - Jarrell Smith, USACE ERDC
12. 11:40 – 12:00 Discussion and Next Steps