# BMA Physical Monitoring and Adaptive Management

2021 FSBPA Annual Conference September 16, 2021

Delray Beach, FL



#### **Physical Monitoring**

- ▶ BMA Lake Worth Inlet to South Lake Worth Inlet (approx. 15 miles)
- Sub-divided into 11 Reaches (areas)
- Annual monitoring is limited to the northern 8 Reaches (Approximately 12.2 miles)





### BMA Nourishment (2014-2021)

Summary of Volumetric Placement Under the BMA (CY)	
Reach 1	452,739
Mid-Town	1,758,543
Phipps	1,586,045
Reach 8	74,163
Reach 9	20,000
TOTAL	3,891,490



#### Sediment Budget

▶ Since 1990, net gain of ~ 4.0 million CY (~60% of total nourishment placed remaining)

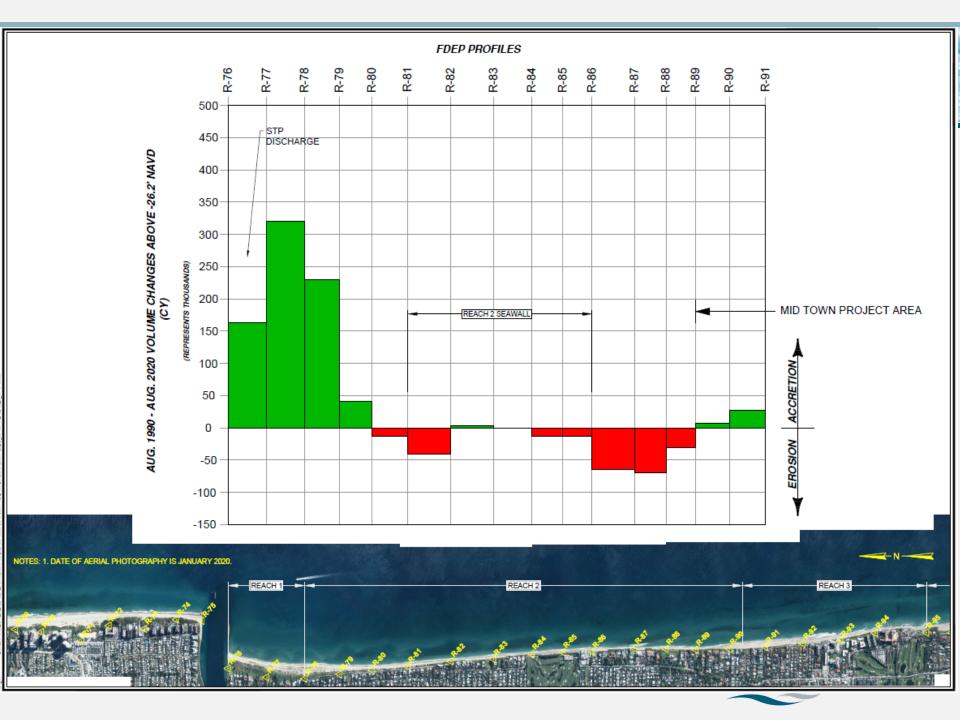
▶ Equivalent Volume Densities:

2014-2020: +24 CY/Ft.

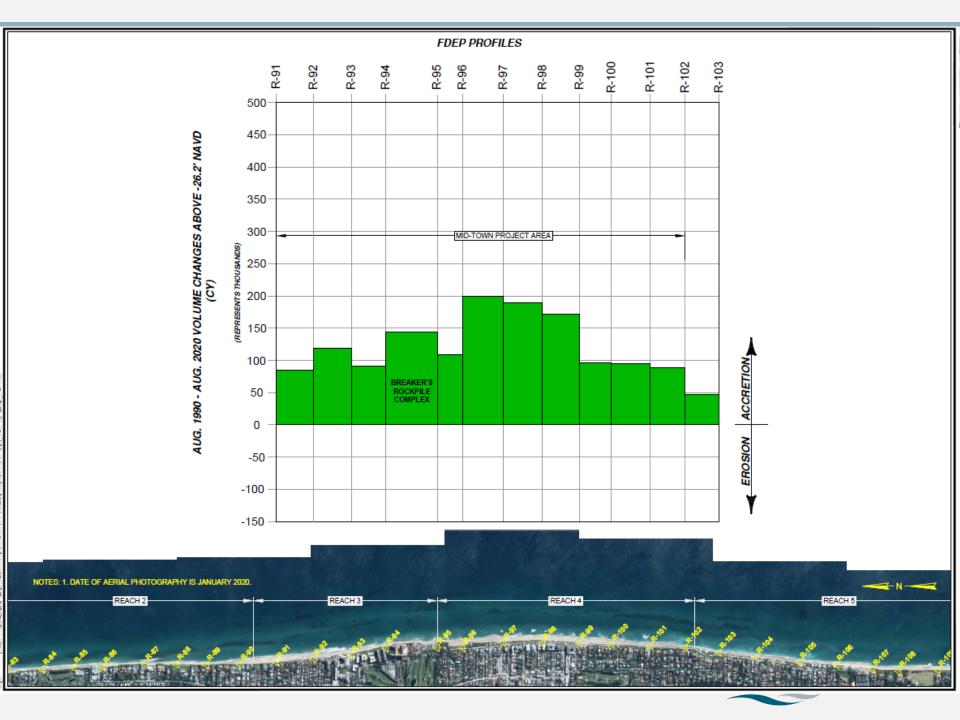
1990-2020: +60/CY/Ft.

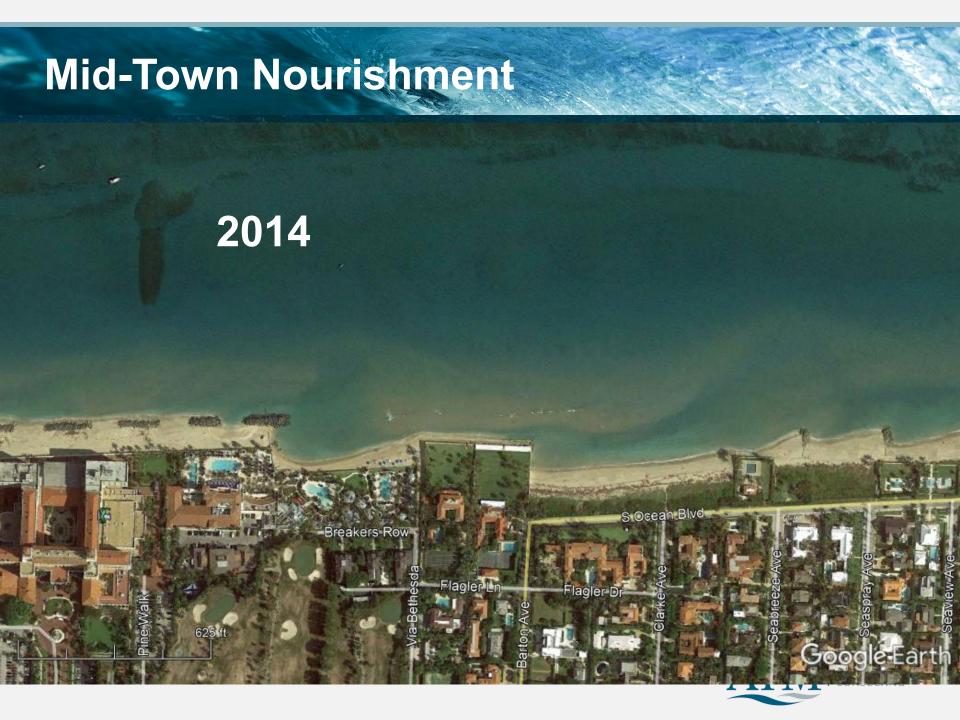
Gains are not evenly distributed

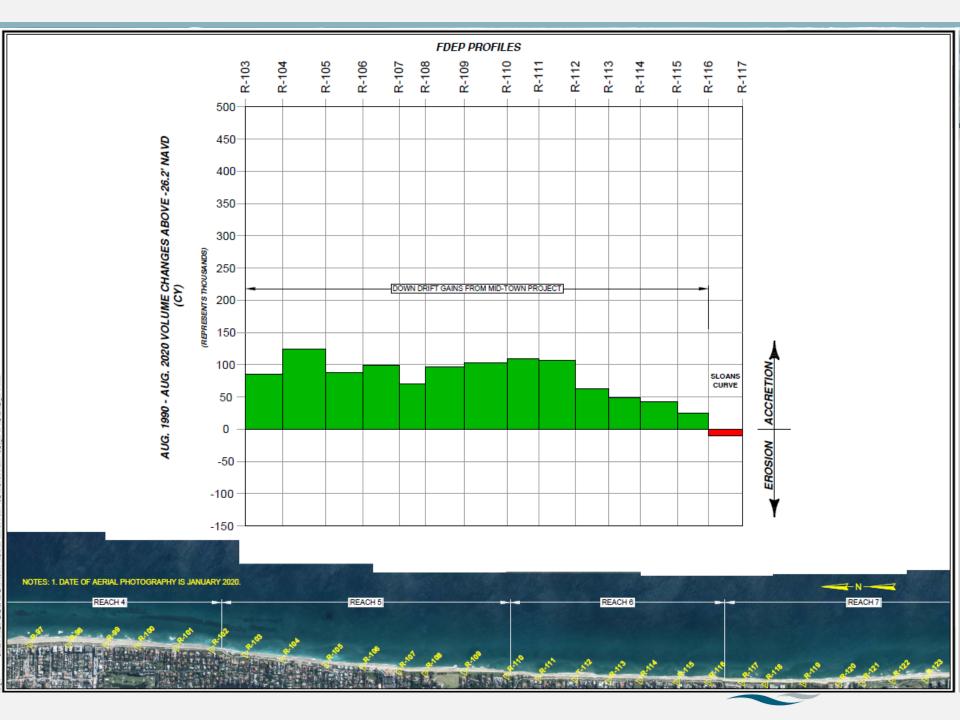


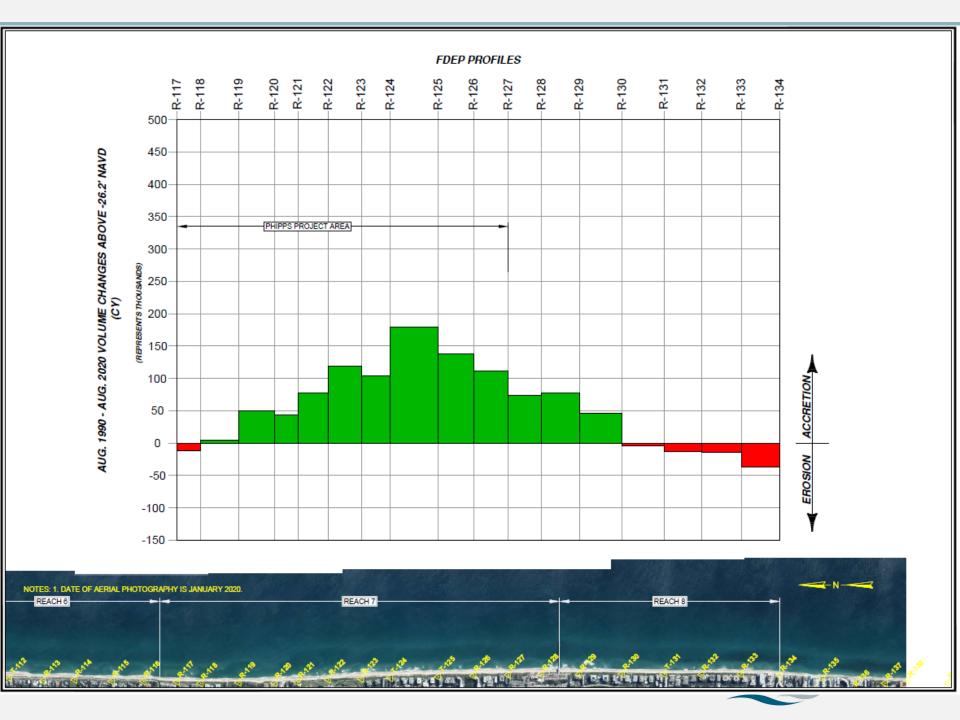












#### Summary

Volumetric Gains over 90+% of the total area

- Remaining issues uneven distribution of gains
- Adaptive management is focused on volume redistribution through strategic placement and structural modifications



## Thank You

