The Anchorage Canal Drainage Area Retrofit Assessment

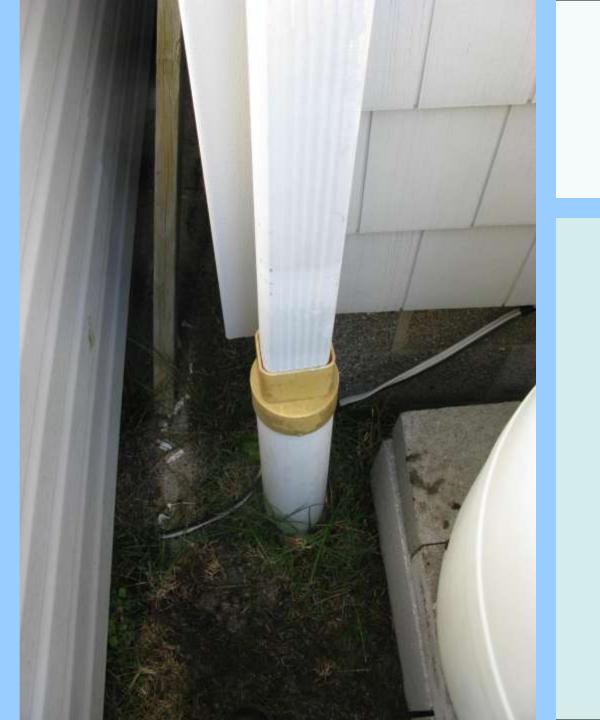
A Stormwater Retrofit Pilot Plan in the Coastal Corridor of the Inland Bays Watershed

Chris Bason, Science & Technical Coordinator
Delaware Center for the Inland Bays

NPS Annual Meeting, St. Jones Reserve March 18, 2009





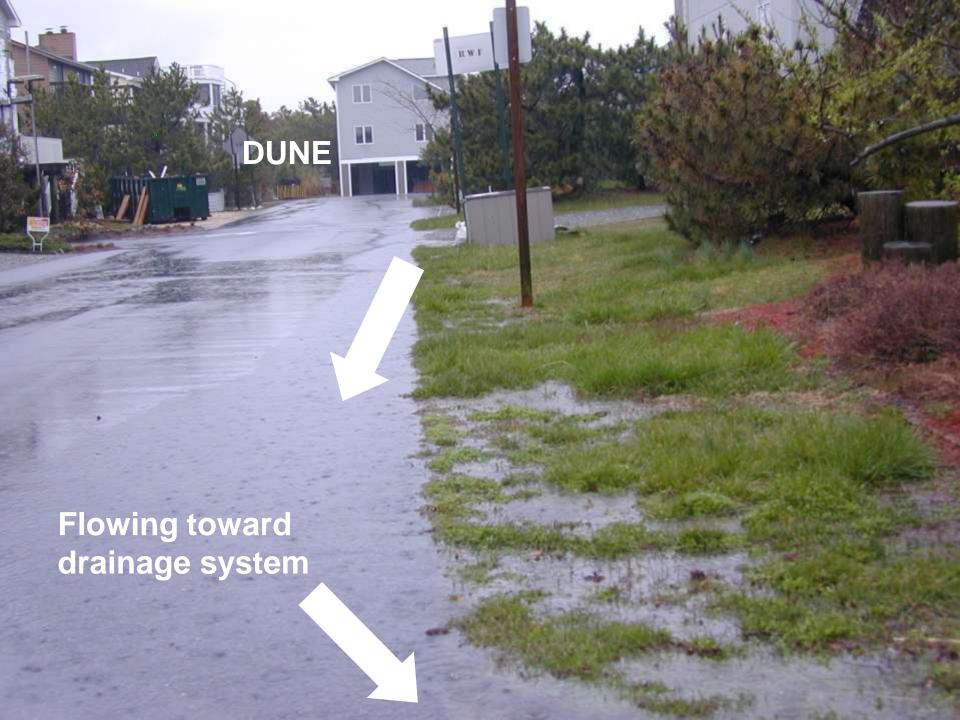


Homes

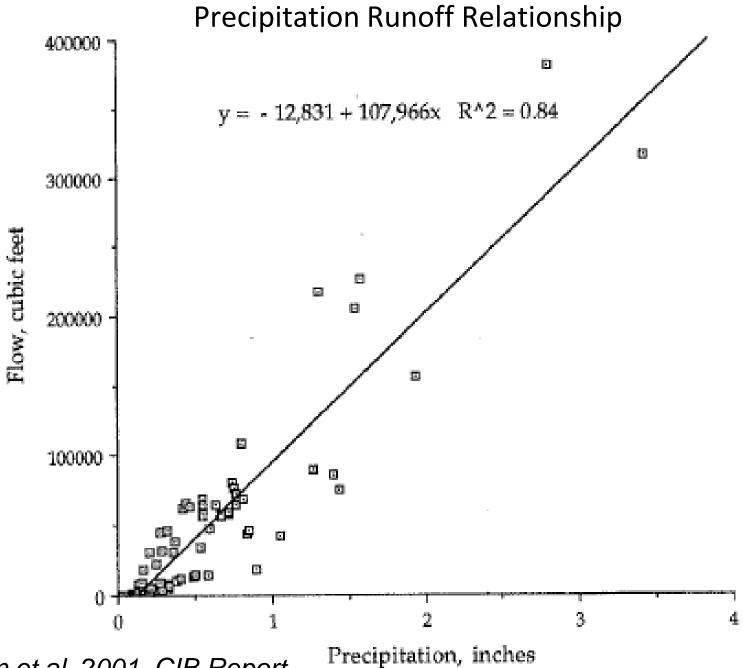
Many homes
have roof
runoff piped
directly to
canals



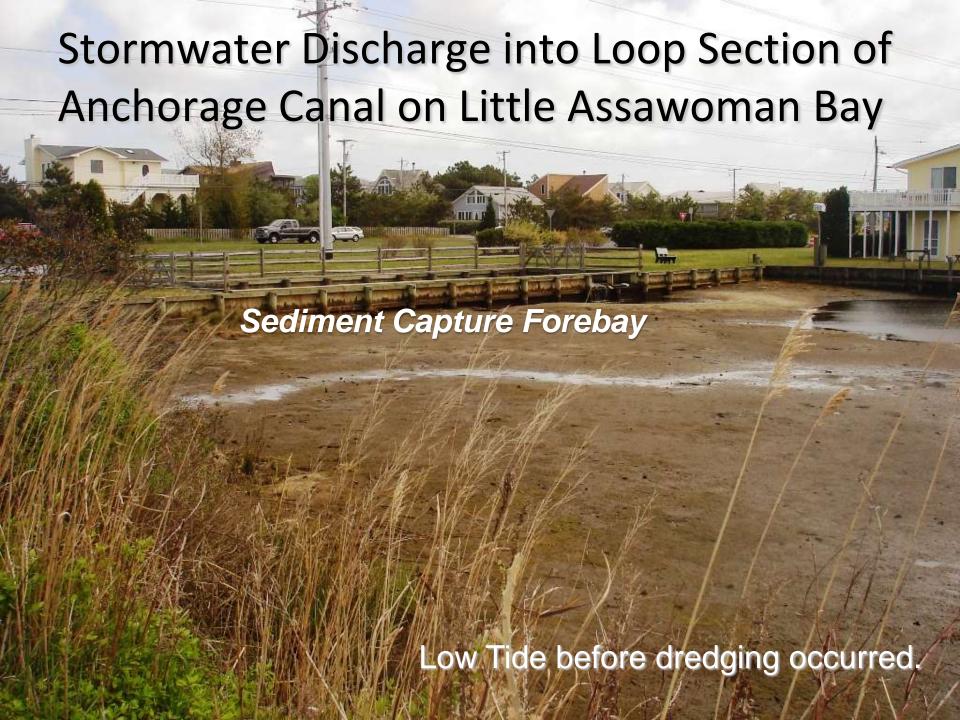








Martin et al. 2001. CIB Report





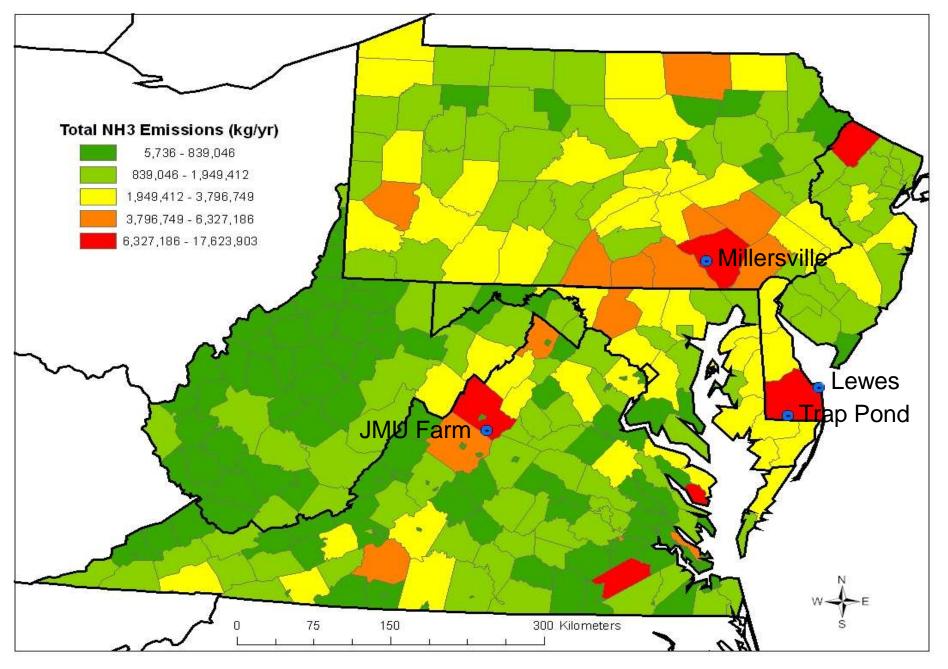
Stormwater Pollution Loads

Nitrogen 592 lbs/yr

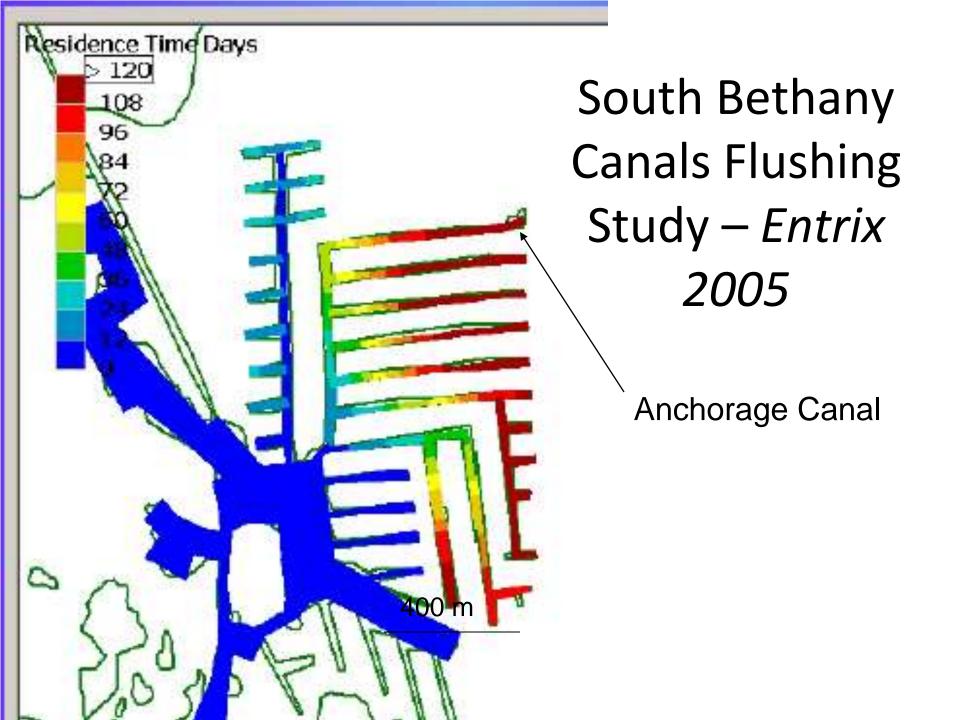
Phosphorus
33 lbs/yr

First flush Total
Coliforms
90,000 –
800,000 units
per 100 ml

Martin et al. 2001. CIB Report

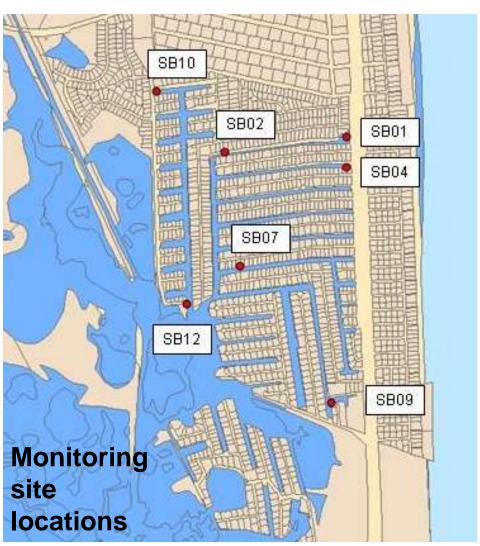


Scudlark Frontiers Conference Presentation (www.inlandbays.org)



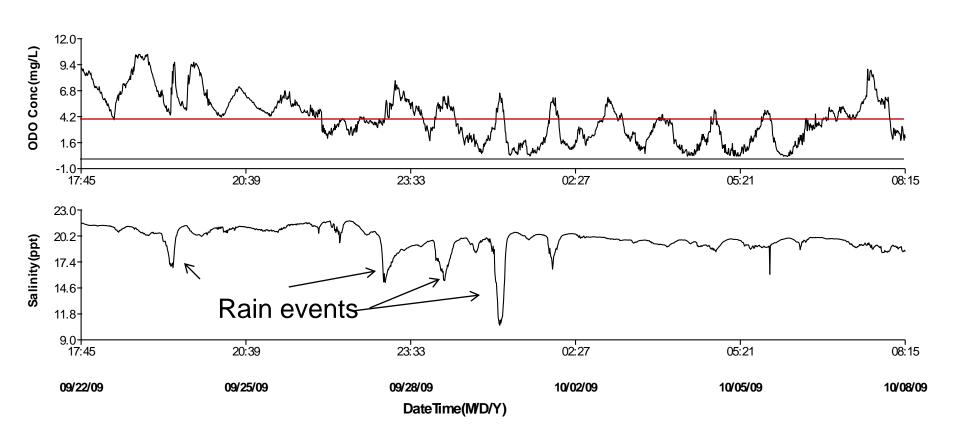


South Bethany Canals Water Quality Monitoring



- Monitored for WQ and meteorology since 2008
- Plan developed with support of UDCMP
- DelDOT funded Continuous Dissolved Oxygen Meter will be installed in Anchorage Canal this Spring.

Dissolved Oxygen and Salinity Monitoring in the Canal: Waters have severely low oxygen during summer



Finding Solutions

- Partnership formed between CIB, TSB, DelDOT
- Assessment funded by USACE & DelDOT through TSB
- CIB Hires Center for Watershed Protection & JMT Eng.
- Middlesex Beach, Sea Colony, Bethany Beach and UD join partnership
- Assessment begins



KCI conducting storm drain system mapping and inspections







The Best Solutions Produce Multiple Benefits





