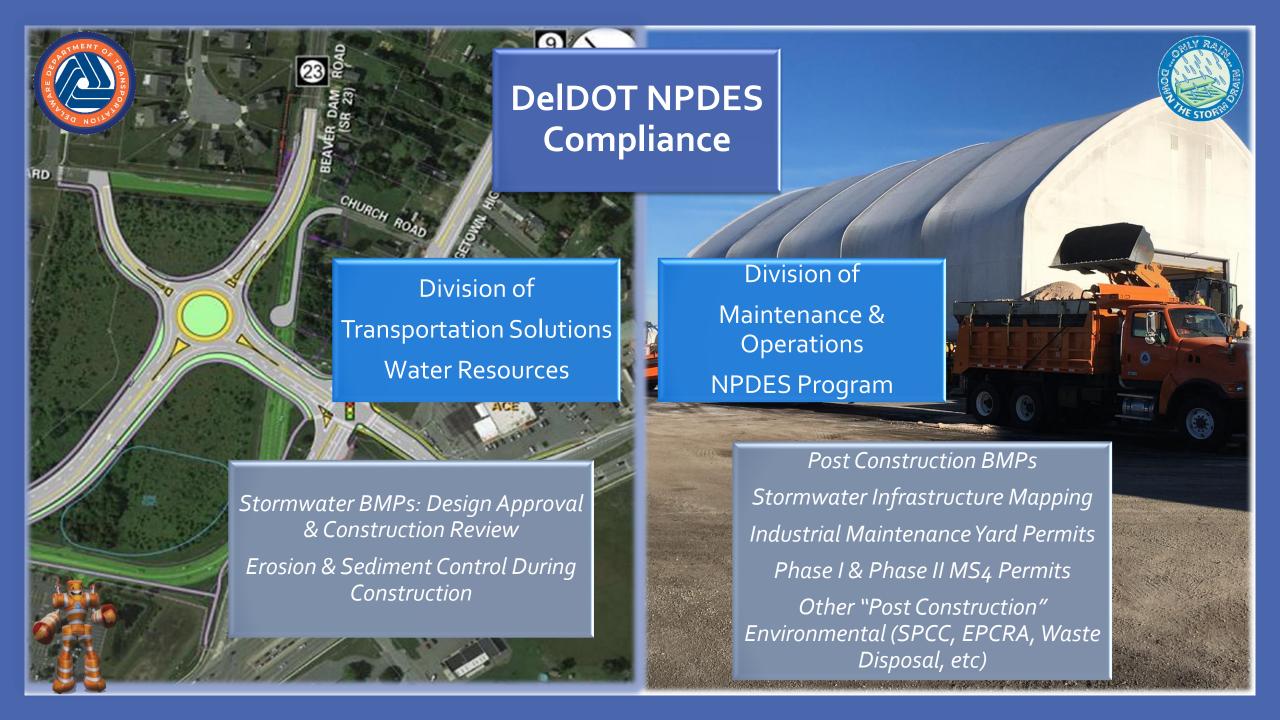
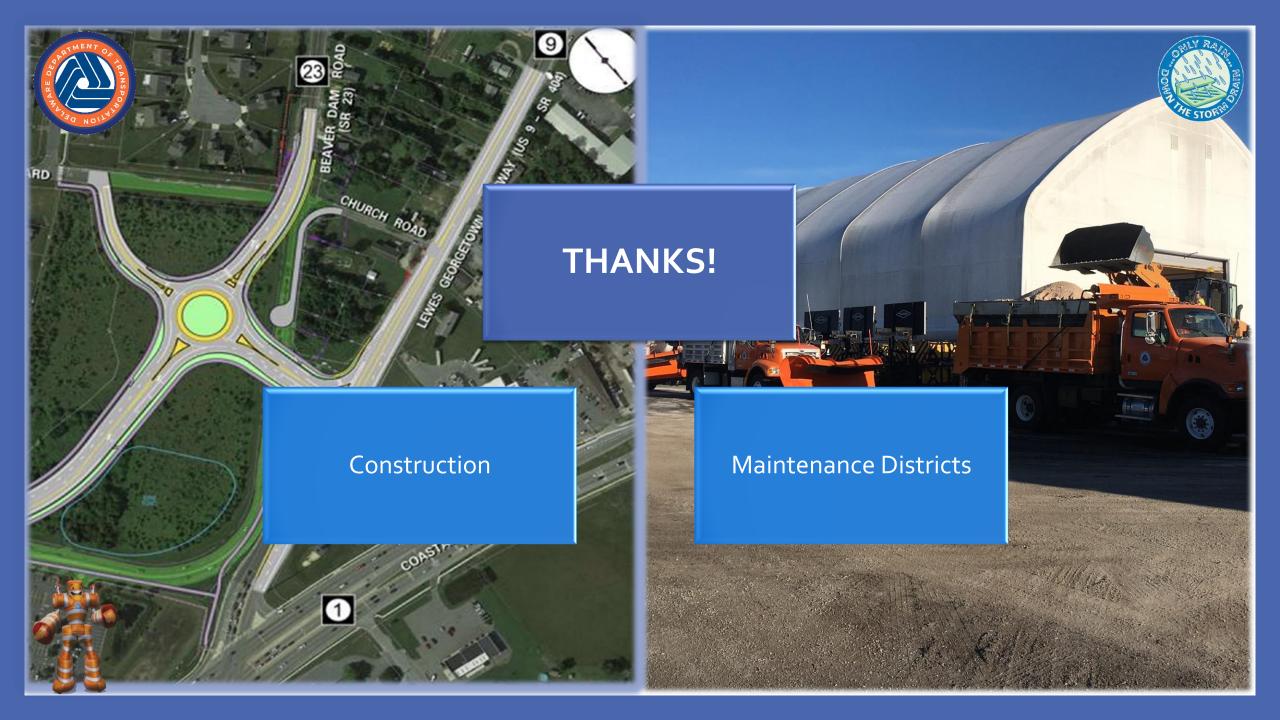


NPDES LESSONS LEARNED

SARA ESPOSITO & STEVE WRIGHT
MARCH 14, 2023







ONLY RAIN. NE STORM

Team

- Brian Urbanek
 Assistant Director Statewide
 Support Services
- Sara Esposito
 Program Manager II (NPDES Program Manager)
- Dan Taylor
 Engineer V (NPDES Engineer)
- Kerin Hume Environmental Scientist IV (NPDES Scientist)

NPDES@delaware.gov

NPDES

National Pollutant Discharge Elimination System

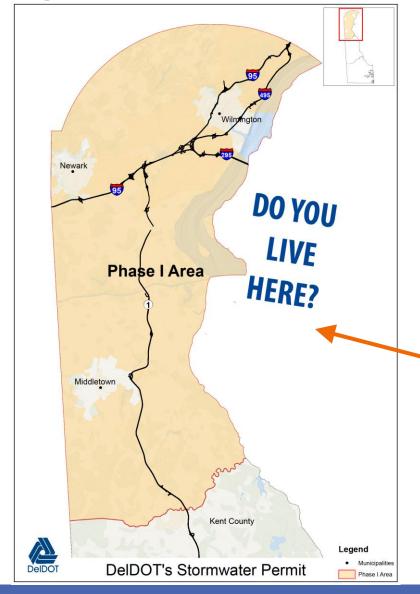
- NPDES program developed under the Clean Water Act
- NPDES permits limit the potential pollutants in stormwater in an effort to protect the waterways that receive the runoff
 - Many different types of NPDES permits:
 - Animal feeding operations
 - Wastewater
 - Commercial vessels (ships)
 - Construction
 - Industrial
 - Municipally Separate Storm Sewer System (MS4)

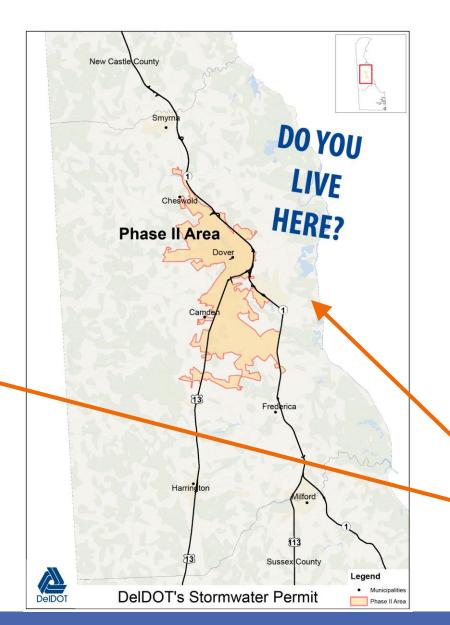




MS₄Permits



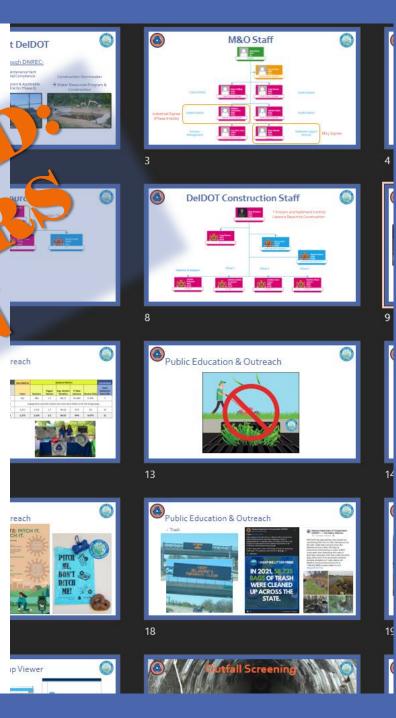






Phase II Audit

- Notified August 30th
- Conducted in October
- 2 Virtual Days & 1 Field Day
- Developed Powerpoint Presentations that Skie vectour Progress for Virtual Sessions
 - Focused iscussions
 - Minimized "proba"







Phase II Audit

- Audit Review Letter Received January 5th.
- All aspects has "no observed deficiency sor other items to address" except...
- Post Construction BMRs (a) DNREG examiner is prioritizing inspection of repair of BMPs that discharge directly to streams (b) before water calles".
 - DelDOT's response included that because on Ps are inspected amountally and extered into Maximo quarterly prioritizing does not make sente for inspection and minor maintenance; however, our lettre major maintenance efforts will look into proximity to waterbodies.
- DNREC approved approach on February 16th







Phase II Audit

- Special Thanks to Area 7 & Area 21 for prepping the Magnolia Maintenance Yard and the Stormwater BMPs for Inspection.
- The Magnolia Maintenance Yard is a <u>Large</u> Yard and didn't have any audit action items... This is due in part to years of improvements both by the Yard and Facilities investments in indoor washing and paving.













MS₄ Permits



Public Education & Outreach about Clean Water



KEEP YOUR LAWN GREEN FOR A CHANCE TO WIN SOME GREEN.

There are two chances to win during the year.



Time to Test
Win up to \$150.

- 1. Visit **DelawareLivableLawns.org** to sign up for a free soil test kit.
- 2. Test your soil and return your sample by July 1 for a chance to win a \$100 Visa® gift card.
- 3. Tag Delaware Livable Lawns on Facebook to receive an extra \$50 if you win.





Time to Fertilize
Win up to \$250.

- 1. Use your spring soil test results to fertilize your lawn.
- 2. Submit your information to Delaware Livable Lawns by November 15 for a chance to win a \$200 Visa® gift card.
- 3. Tag Delaware Livable Lawns on Facebook to receive an extra \$50 if you win.

GET A BETTER LAWN. BUILD A BETTER PLANET. WIN SOME \$\$\$.





ONLY RAIN. DOWN THE STORM

MS₄ Permits

Illicit Discharge Detection & Elimination





See it, Report it!

•Call 302.STOPPIT (anonymously)

Contact me:

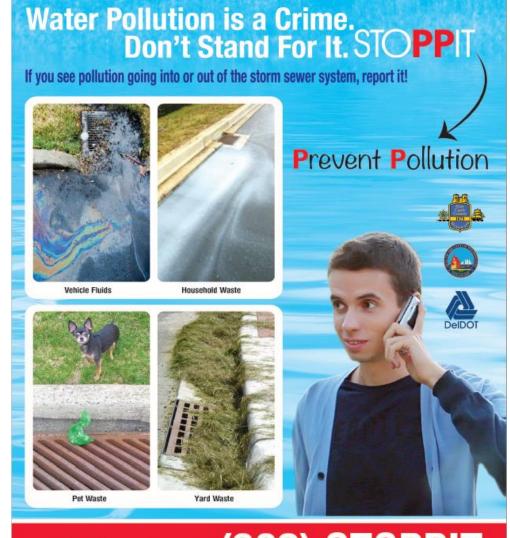
Sara Esposito

NPDES Program Manager

302.760.2346

sara.esposito@delaware.gov

• Team at: npdes@delaware.gov





Solution Email hotline@302stoppit.org or visit www.302stoppit.org City of Wilmington residents can also use the Report It/ Resolve It App











May 10, 2022

The Delaware Department of Transportation (DelDOT) is responsible for maintaining not only roadways.

The Federal National

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The Pederal National The Delaware Department of Transportation (DelDOT) is responsible for maintaining not only roadways. The Federal National of 1972, and the extensive storm drain and pipe networks located within State rights-of-way. The federal National but also the extensive storm drain and pipe networks located within is a component of the Clean Water Act of 1972. Program, which is a component of the Clean Water Act of 1972. Program with a state of the Clean Water Act of 1972. The Pollutant Discharge Elimination System (NPDES) Program, which arises a system and pollutants or are otherwise not program of the System Clean Water Act of the Clean Water Act of 1972. The Pollutant DelDOT to control the amount of the System that may contain pollutants or are otherwise not program of the System that the System Clean Water Act of 1972. The Pollutant DelDOT to control the amount of the System that may contain pollutants or are otherwise not program of the Clean Water Act of 1972. requires DelDOT to control the amount of pollutants entering the dramage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system will ultimately impact nearby streams, as soon allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams.

and elimination of $\dagger ll ggal$ discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as stome allowed. Left uncorrected any sort of treatment facility.

DeDOT has contracted with the engineering firm KCI Technologies, Inc. to survey and inspect the draining firm KCI Technologies, Inc. to survey and inspect t in a caren basin located in front of 104 Forest the lowed evidence of human waste and grease in the evidence of numan waste and grease in the and connects into the catch basin a 1226 E. Newport Pike tying

































Good Housekeeping































MS₄ Permits

Construction & Post Construction Stormwater







Construction → Post Construction Stormwater

- Provide Forebays with Depth (Ideally Min. 26)
 - Maintenance Required at 50% Full
 - Should Not Back Up into Pipe
- Provide Maintenance Road to A Pond Structure
- Provide Riprap ALL The Wan to State Grand
- Minimize # of Signary ipe Ends Combine to Compound Point of Discharge
 - Into Ponds
 - In Swe
 - Underdrain Out ats
- Coordinate any Large pen-Areas for Reforestation or Pollinator to Reduce Mow
- Coordinate Any Shared Use Pond Agreements
- As-Builts at Initial Inspection Approved by Steve Wright



DOWN MARKET NEW STORM

MS₄ Permits

Water Quality Improvement Plans





Robscott Manor Stream Restoration





