

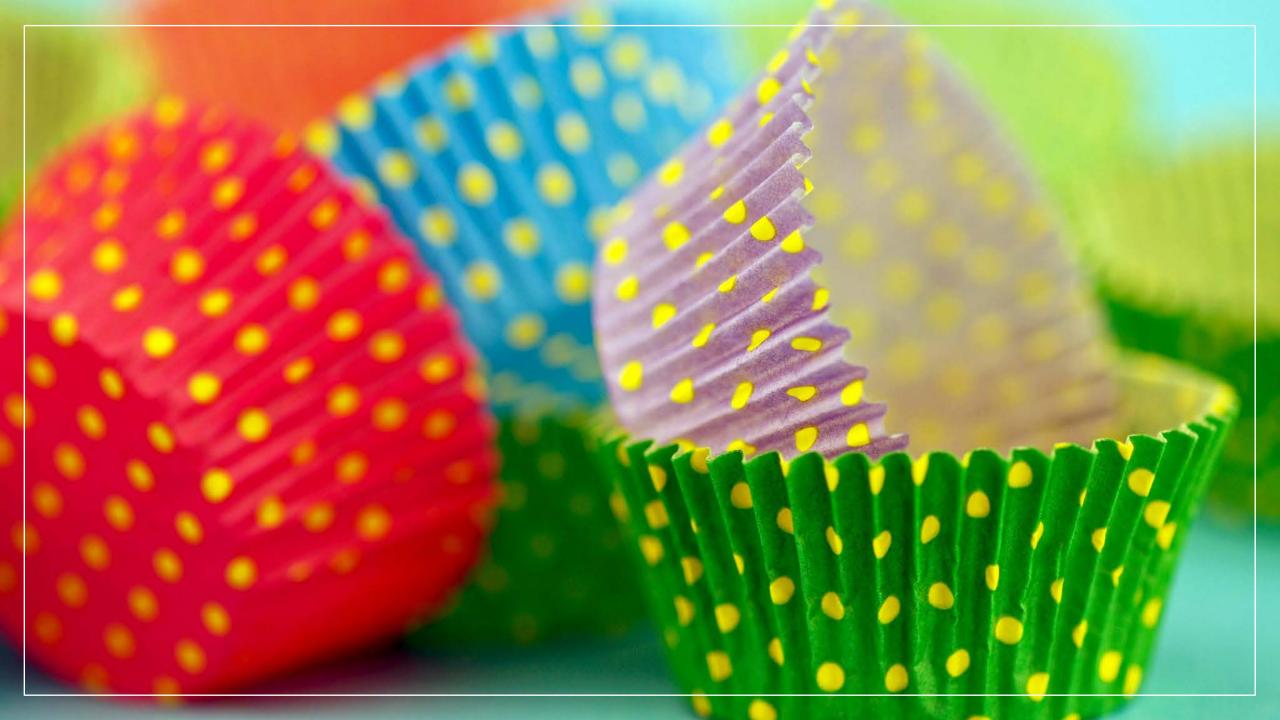


NPDES Overview



Sara Esposito February 16, 2021







Delaware Department of Transportation

Excellence in Transportation

- **Every Trip Every Mode Every Drop of Water**
 - Every Dollar
 Everyone

DAY 2			
Time	Presentation	Presenter(s)	
7:30	Registration		
8:00	Opening Remarks & Autonomous	Secretary Cohan	
8:20	Innovation Fair	Sec. Cohan/Breanna Kovach	
8:30	Mobile App	<u>LiWen</u> Lin	
8:35	Gateway Updates	Drew Boyce	
8:45	Project Search	Todd Webb	
9:00	Pipeline Process	Shante Hastings	
9:15	Drones in Construction	Dan Montag	
9:30	E&S Lessons Learned (US301)	Adam Marvin	
10:00	BREAK		
10:15	Horizontal Curve Evaluation	Peter Haag/Mir <u>Wahed</u>	
	High Friction Surface Treatment	Adam Weiser	
	US 113 Preferred Approach	Mark Whiteside	
11:30	Mobile Drivers Licenses Pilot	Scott <u>Vien</u>	
11:45	DE Transit Corp Topic	John Sisson	
11:45	LUNCH	SLIDESHOW	
12:45	Br.1-438 Precast Bridge	Paul Huhn/Gus Toussaint	
1:15	Brine Applications	Alastair Probert	
1:30	TSDM Database Management	Stephanie Johnson/Jason Vogl	
2:00	BREAK		
2:15	ATSSA/Workzone Updates	Roger Wentz	
2:45	NPDES - Map Viewer, Water Quality	Sara Esposito	
3:15	Wrap-up		

2021 DelDOT Winter Workshop February 16 th Day 1 - Live Streaming		
Time	Presentation	Presenter(s)
8:00	Opening Remarks	Secretary <u>Majeski</u> , Shanté Hastings & Doug Atkin
<mark>8:15</mark>	National Pollutant Discharge Elimination System	Sara Esposito
8:30	HR Training Programs	Missy Heck
8:45	How COVID Affected Software Roll-Out	Todd Reavis
9:00	CM/GC Project Overview/Current Projects	Ja <mark>so</mark> n Hastings
9:15	Virtual Workshops	Jesus Reyes & Dan Taylor
9:30	Federal Mandates & Department Procedures "Project Closeout"	Art Jenkins & Christine Levely
9:45	BREAK	BREAK
10:00	Bicycle Mobility Analysis Tool	Paul Moser
10:15	Emergency Response/Debris Management	Dwayne Day
10:30	Community Outreach	C.R. Mcleod
11:45	Update on Strategic Highway Safety Plan (SHSP)	Peter Haag & Scott Neidert
11:30	New Grant for Micro-transit in Georgetown	John Sisson & Veronica Vanterpool
11:45	General Manual Updates	John Caruano
12:00	End of Day	



The NPDES Problem

- Most people intentionally or unintentionally pollute our waterways
- Everything on land eventually washes into our rivers and streams, or enters our groundwater
- Video from the City of Wilmington (NC):

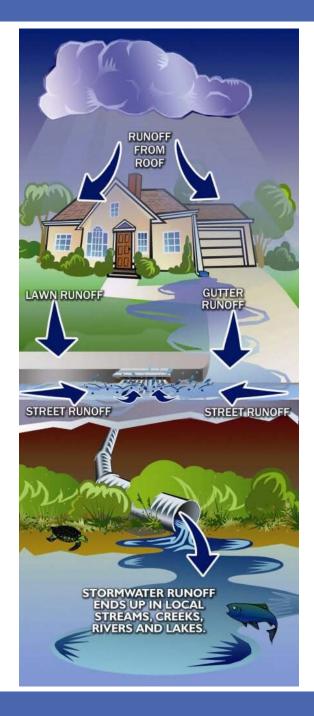
https://www.youtube.com/watch?v=jNs28UcjNbk

(YouTube "Wilmington NC Stormwater Runoff Animation")

• Video from Metro Vancouver:

https://www.youtube.com/watch?v=7crGd6EoFsk

(YouTube "Metro Vancouver Managing Stormwater Runoff")









Pollution







Why Important?









National Pollutant Discharge Elimination System

NPDES

Division of Maintenance & Operations

- Brian Urbanek
 Assistant Director Statewide Support
 Services
- Sara Esposito
 Program Manager
- Edwin Tennefoss
 NPDES Engineer
- Amanda Doremus NPDES Scientist
- Email team at <u>npdes@delaware.gov</u>

Program Responsibilities (To Name a Few)

- Maintenance Yard Environmental Compliance
- Stormwater BMP Maintenance Coordination
- Stormdrain Infrastructure Mapping
- Solid Waste Reporting
- MS4 / Population Based Stormwater Permits
 - Street Sweeping
 - Water Quality Improvement Projects
 - BMP & Water Quality Research
 - Public Education and Outreach
 - Staff Education
 - Illicit Discharge Detection





National Pollutant Discharge Elimination System NPDES

What We Don't Do:

- Erosion and Sediment Control / ES2M reviews
- Stormwater BMP design and as-built approvals
- Wetland and Subaqueous Permitting

What We're Starting to See A Lot Of:

- Drainage complaints
 - System undersized
 - System failing
- Great Looking Maintenance Yards!
- Pollution in our Water





What Are We Doing to Help?

- Per year Screen 20% of all outfalls during dry weather (ie, not raining) to determine if any pollutants
 - Dry weather flow could simply be groundwater
 - Septic and sump pumps with washing machines are often culprits
 - In the last 6 years, looked at over 10,000 outfalls in NCC
- Also sample maintenance yard outfalls 2x a year







What Are We Doing to Help?

- Provide a hotline for residents to call anonymously to report pollution: 302-STOPPIT
 - Consultant will investigate and sample water if necessary
 - Depending on severity of case, placed on watch list, educational door hangers distributed, or a Notice of Violation sent.







Public Education & Outreach

• Participate in public events, such as stream clean-ups, community days, and K-12 educational programs

 Educate on vehicle fluids, hazardous household waste, litter, car washing, lawn care, animal waste, etc















Livable Lawns – <u>www.delawarelivablelawns.org</u>



Residential Homeowner and Commercial Applicator Incentive Programs



Educates on proper fertilizer use:

Conduct a soil test (sent for free)
Apply fertilizer based on results
Only apply in the fall when grass
roots utilize

Don't apply right before rain



Once homeowner completes, receive a \$50 native plant voucher





Livable Lawns – <u>www.delawarelivablelawns.org</u>







Scoop the Poop!

- Animal waste acts like fertilizer in the water, just as it does on land
- May have harmful bacteria or parasites
- Yes "natural" but the amount of dogs we have isn't!







No PILE is Left Behind







OHLY RAIN.































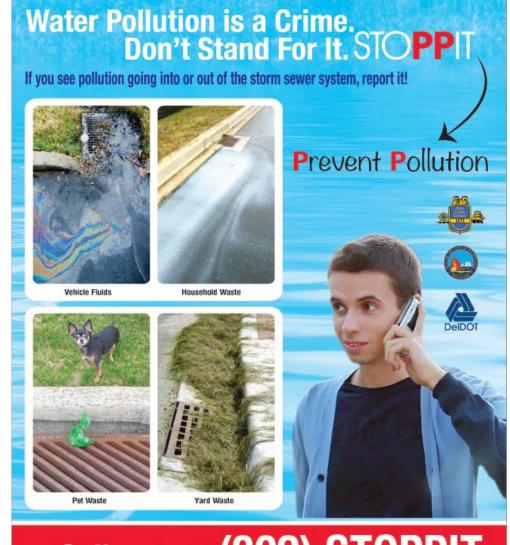
See it, Report it!

•Call 302.STOPPIT (anonymously)

Contact me:

 Sara Esposito
 NPDES Program Manager
 302.760.2346
 sara.esposito@delaware.gov

• Team at: <u>npdes@delaware.gov</u>



© Call or text (302) STOPPIT

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