# Illicit Discharge Detection and Elimination Program

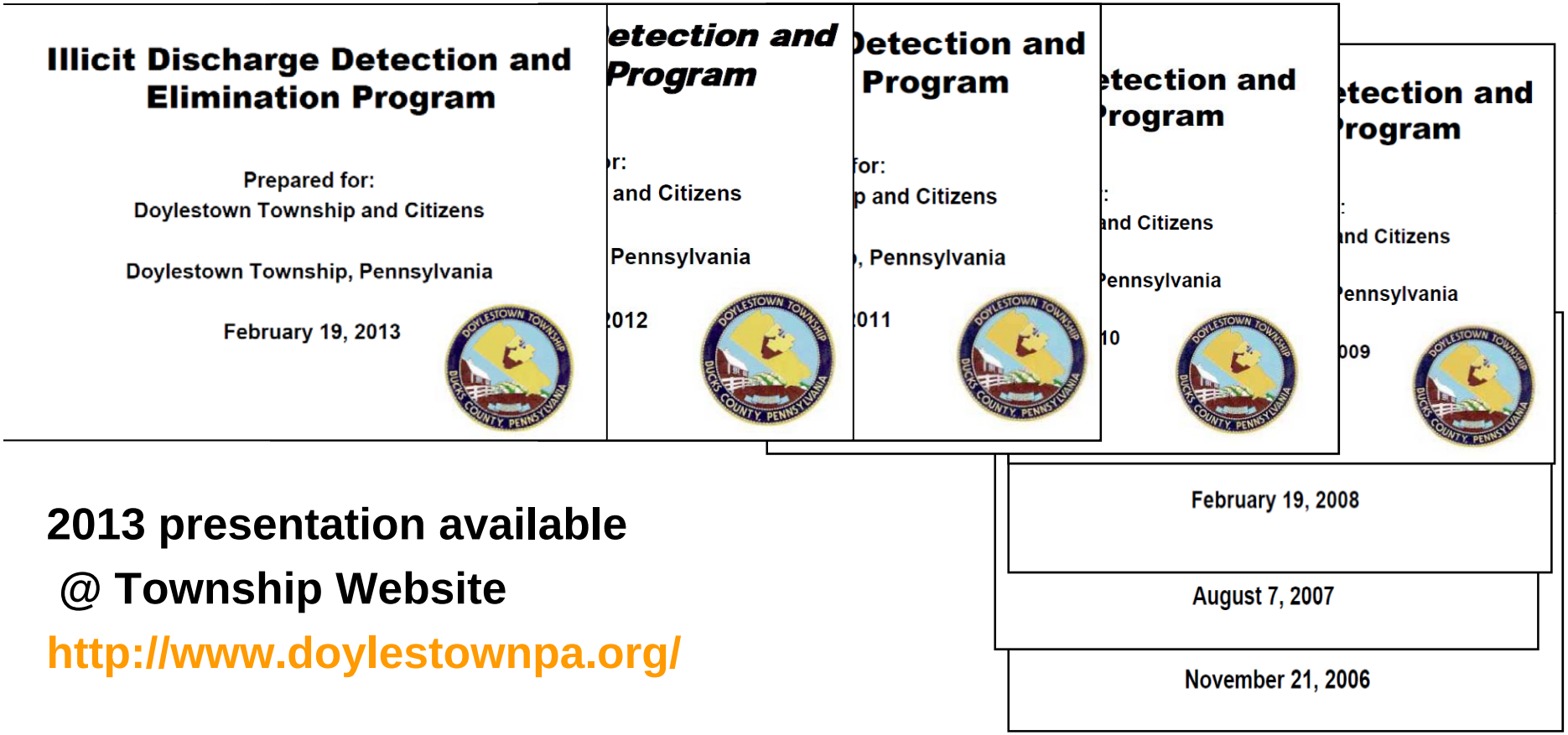
**Prepared for:**

**Doylestown Township and Citizens**

**Doylestown Township, Pennsylvania**

**February 18, 2014**

# Previous Presentations




**2013 presentation available**

**@ Township Website**

**http://www.doylestownpa.org/**

CONESTOGA-ROVERS & ASSOCIATES
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- **Richard Burns, P.G.**
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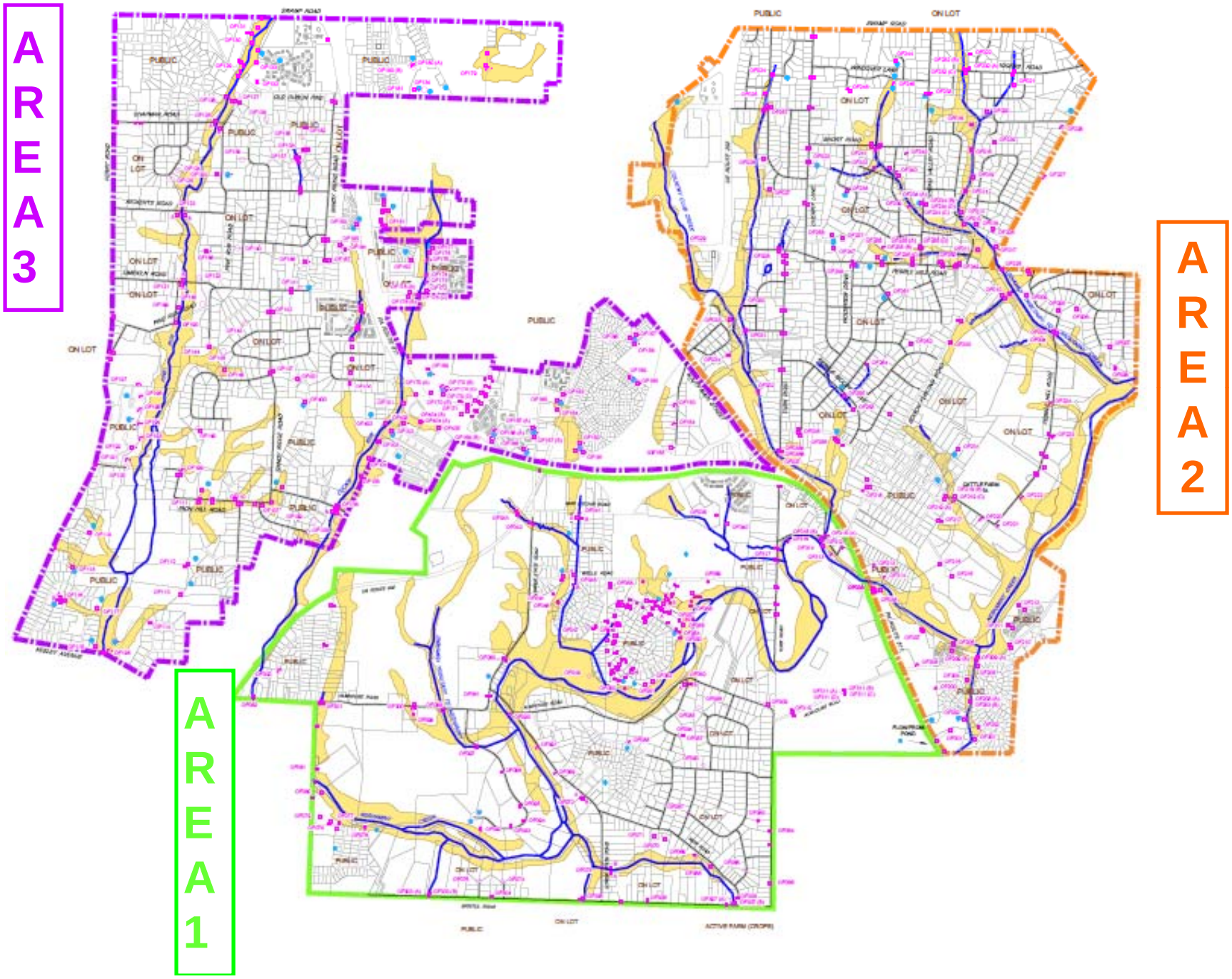
# Agenda

- **Current Status IDD&E**
- **2013 Inspections & Sampling**
- **2014**
- **Takeaways**
- **Q&A**

# Current Status IDD&E

- Year 10 of the Program
- PADEP (Feb 2014)
  - PADEP remains pleased at how Doylestown Township manages their IDDE program
- Application submitted to extend NPDES Permit to March 2018

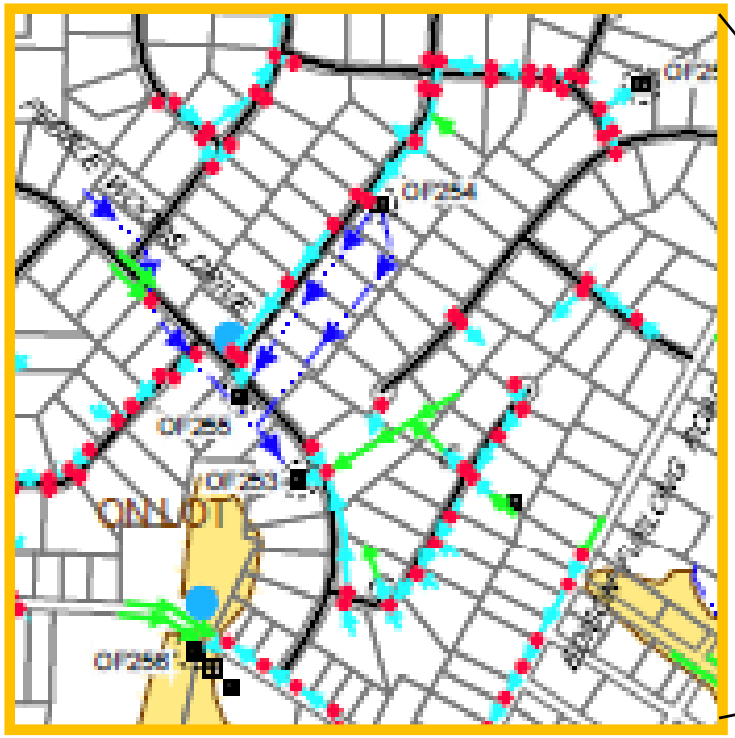
# IDD&E - Dry Weather Inspection

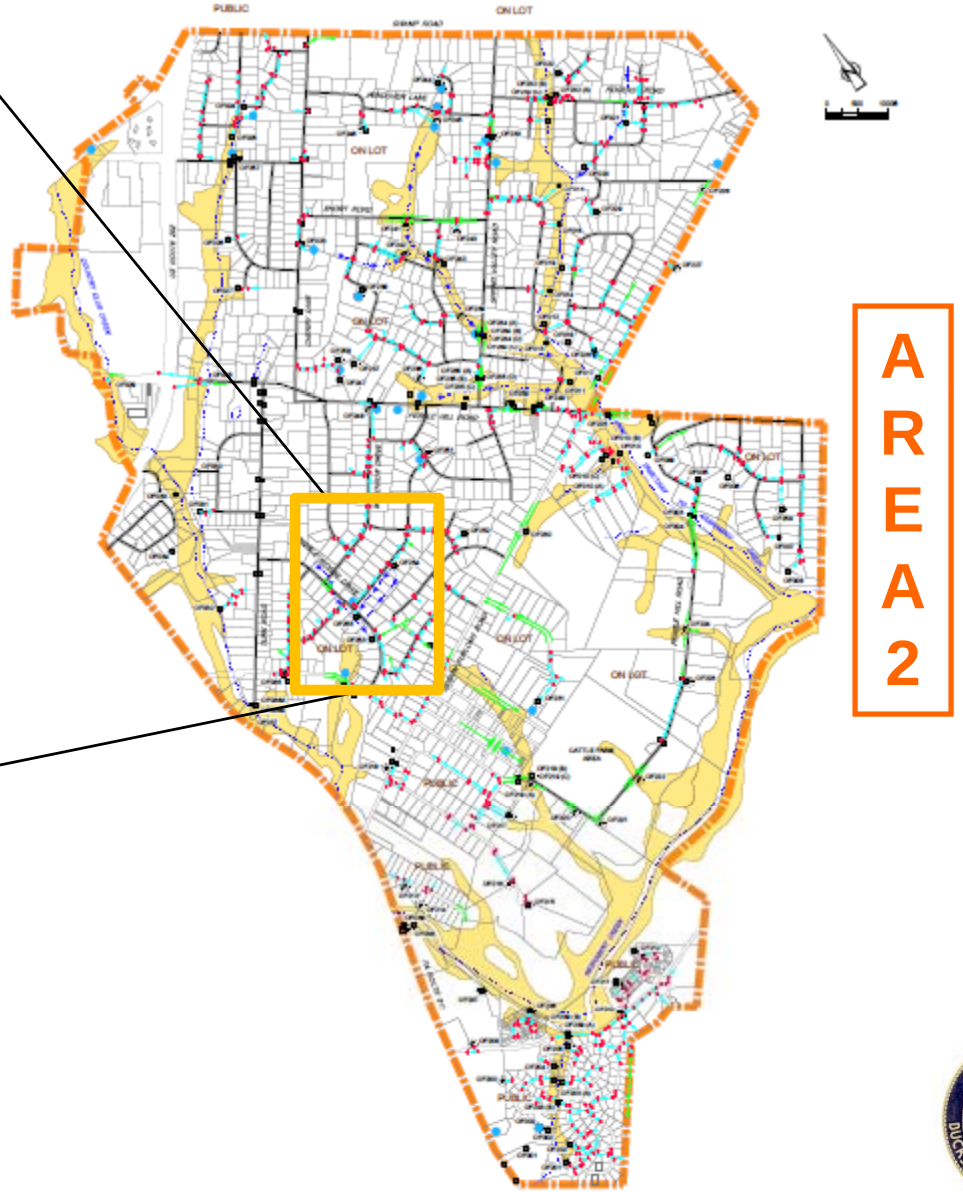

AREA 3
AREA 2
AREA 1

# IDD&E Inspections, Sampling & Results - 2013

- **Focused Inspections & Sampling Areas 1, 2,3**
- **Historical "Hot Spot" Sampling**
- **Sample Analysis**
  - **Fecal coliform at all locations**
    - **Area 1 = 9**
    - **Area 2 = 6**
    - **Area 3 = 20**
  - **Detergents at one location (Area 3)**
- **Data Review**
- **Continued Detailed Mapping of All Areas**
  - **EPA requirement to map all outfalls, catch basins, etc.**
  - **Identify receiving waters / surrounding municipalities**
  - **Prepare detailed CAD map**
- **Annual Report (2012) to PADEP – June 2013**

# Detailed Mapping



# IDD&E Sampling - 2013

## Area 1

- **9 samples at 9 outfalls**
- **8 samples FC > 200 col/100 ml**
- **Maximum FC = 1,000 col/100 ml**

# IDD&E Sampling - 2013

## Area 2

- **6 samples at 6 outfalls**
- **1 sample FC > 200 col/100 ml**
- **Maximum FC = 600 col/100 ml**

# IDD&E Sampling - 2013

## Area 3

- **20 samples at 20 outfalls**
- **9 samples FC > 200 col/100 ml**
- **Maximum FC = >60,000 col/100 ml**

# IDD&E Sampling - 2013

## Area 1

**FC levels showed mixed results compared to 2012. 8 of the 9 samples >200. Max = 1,000.**

## Area 2

**FC levels are elevated in a few sections of Area 2. General improvement over 2012. Max = 600.**

## Area 3

**FC levels are elevated in several areas. Max >60,000. Area 3 was not sampled in 2012.**

# Going Forward

- **Complete inspections/hot-spot sampling throughout township ~25 to 30 locations.**
- **Continued detailed mapping**
- **Additional source investigations:**
  - **Dye Tracing - Letters have been submitted to several residents.**
  - **DNA Testing - To identify source of FC (i.e. human, goose, etc.)**
  - **TV inspections of catch basins, as needed.**

- **Source mitigation, if identified**

# Takeaways

- Township in Compliance
- Continue Inspections/Sampling
- Complete mapping effort
- Continue to perform sampling where illicit discharges may be occurring
- Septic system maintenance
- Public participation
- Pollution prevention & good housekeeping
- **Goal is to Improve Water Quality!!!**

# For more information contact

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