

# *Illicit Discharge Detection and Elimination Program*

**Prepared for:**

**Doylestown Township and Citizens**

**Doylestown Township, Pennsylvania**

**February 7, 2012**



# *Introduction*



## **CONESTOGA-ROVERS & ASSOCIATES**

Worldwide Engineering, Environmental, Construction, and IT Services

- **Richard Burns, P.G.**
- **Russell Mehalick**



# Previous Presentations

## Illicit Discharge Detection and Elimination Program

Prepared for:  
Doylestown Township and Citizens  
Doylestown Township, Pennsylvania

March 1, 2011



## Illicit Discharge Detection and Elimination Program

Prepared for:  
Doylestown Township and Citizens  
Doylestown Township, Pennsylvania

February 10, 2010



## Illicit Discharge Detection and Elimination Program

Prepared for:  
Doylestown Township and Citizens  
Doylestown Township, Pennsylvania

August 7, 2009



## Illicit Discharge Detection and Elimination Program

Prepared for:  
Doylestown Township and Citizens  
Doylestown Township, Pennsylvania

February 19, 2008

and

and

August 7, 2007

November 21, 2006

2011 presentation available

@ Township Website

<http://www.doylestownpa.org/>



# *Agenda*

- **Current Status IDD&E**
- **Inspections, Sampling & Results**
- **Going Forward**
- **Takeaways**
- **Q&A**



## *Current Status IDD&E*

- Year 8 of the Program
- PADEP (Dec 2011)
  - “The overall effort was very good and the Township continues to refine and improve its MS4 program”
- NPDES Permit extended to June 2012



# *IDD&E - Dry Weather Inspection*



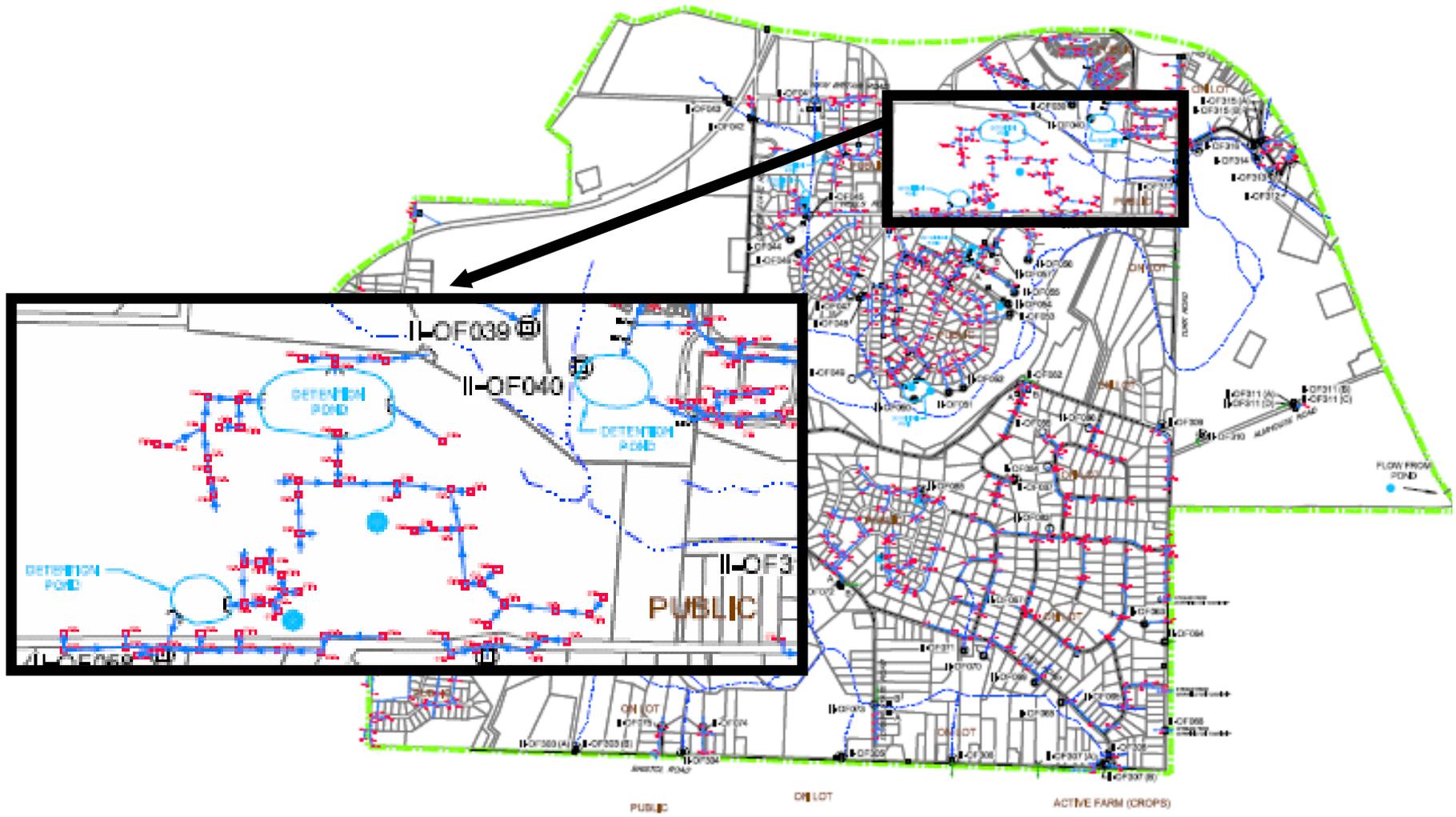


# *IDD&E Inspections, Sampling & Results - 2011*

- **Focused Inspections & Sampling on Area 1**
- **Sample Analysis**
  - Fecal coliform at all locations
  - Detergents at two locations
- **Data Review**
- **Mapping of Area 1**
  - EPA requirement to map all outfalls, catch basins, etc.
  - Identify all receiving waters and the surrounding municipalities
  - Prepare detailed map
- **Prepared Annual Report for PADEP**



# Area 1 - Detailed Mapping



# *IDD&E Sampling - 2011*

## Area 1

### Outfalls

- 23 samples at 17 outfalls
- 12 samples (8 locations) FC > 200 col/100 ml
- Maximum FC = 1,300 col/100 ml

### Upstream

- Samples collected “upstream” of Outfalls to identify IDD&E source
- 10 samples at 8 upstream locations
- 7 samples FC >200 col/100 ml
- Maximum FC >6,000 col/100ml (only 1 location)





# *IDD&E Sampling - 2011*

## Area 1

**Fecal Coliform levels still elevated in Area 1 but are generally lower than in previous years**



# *Going Forward*

- **Complete round of outfall inspections and sampling in Area 2**
- **Complete “Hot Spot” sampling in Area 1 with historical FC impact**
- **Based on sampling results, complete additional source investigations (i.e. dye tracing, TV inspection), if necessary**
- **Source Mitigation**



# *Takeaways*

- Township in Compliance
- Continue Inspections/Sampling
- Continue 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!!!**



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