Illicit Discharge Detection and Elimination Program

Prepared for:
Doylestown Township and Citizens

Doylestown Township, Pennsylvania

February 17, 2015
Previous Presentations

Illicit Discharge Detection and Elimination Program
Prepared for: Doylestown Township and Citizens
Doylestown Township, Pennsylvania
February 18, 2014

Previous Presentations available @ Township Website
http://www.doylestownpa.org/

• Richard Burns, P.G.
• Russell Mehalick
Agenda

• Current Status IDD&E
• 2014 Inspections & Sampling
• 2015
• Takeaways
• Q&A
Current Status IDD&E

- Year 11 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
Doylestown Township
Septage Management Program
Streets by Cycle

Cycle I
Start: January 2004
End: December 2004

Cycle II
Start: January 2005
End: December 2005

Cycle III
Start: January 2006
End: December 2006
IDD&E Inspections, Sampling & Results - 2014

• Focused Inspections & Sampling Areas 1, 2, 3
• Historical “Hot Spot” Sampling
• Sample Analysis
  – Fecal coliform at all locations
    • Area 1 = 9
    • Area 2 = 2
    • Area 3 = 8
  – Detergents at one location (Area 3)
• Data Review
• Completed 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 (2013) to PADEP – June 2014
Detailed Mapping
IDD&E Sampling - 2014

Area 1

- 9 samples at 9 outfalls
- 4 samples FC > 300 col/100 ml
- Maximum FC = >6,000 col/100 ml
IDD&E Sampling - 2014

Area 2

• 2 samples at 2 outfalls
• 1 sample FC > 300 col/100 ml
• Maximum FC = 670 col/100 ml
IDD&E Sampling - 2014

Area 3

- 8 samples at 8 outfalls
- 4 samples FC > 300 col/100 ml
- Maximum FC = > 6,910 col/100 ml

- 1 additional sample analyzed for detergents – Results positive
Area 1
FC levels showed some increased results compared to 2013 (Max = 1,000). 7 of the 9 samples >200. Max > 6,000.

Area 2
Only 2 samples collected. One sample was 7 and one was elevated at 670. Generally same result at 2013. Max = 670.

Area 3
FC levels are elevated in several areas. Max > 6,910.
Going Forward

• Complete inspections/hot-spot sampling throughout township ~25 locations.

• Additional source investigations:
  – Dye Tracing – Submit letters to residents as needed.
  – TV inspections of catch basins, as needed.

Source mitigation, if identified

• PADEP Permit changes?
Going Forward

- Possible DNA Testing
Takeaways

• Township in Compliance
• Continue Inspections/Sampling
• Mapping effort is complete
• 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

Rich Burns
Russ Mehalick
410 Eagleview Blvd., Suite 110
Exton, PA 19341
610.321.1800
rburns@craworld.com
rmehalick@craworld.com
www.craworld.com