# **Captain Plunger to the Rescue**

How New Bedford Transformed Their IPP and FOG Program Using Outreach and Technology





#### **Presentation Outline**

- Family History
- The Birth of Captain Plunger
- Captain Plunger Saves the Day
- Captain Plunger Continues the Fight...



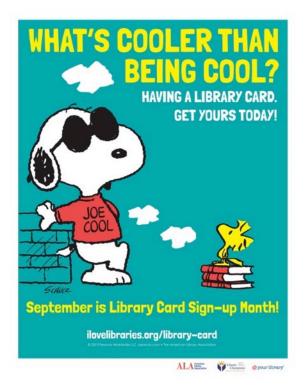






#### **Close Relatives of Captain Plunger**







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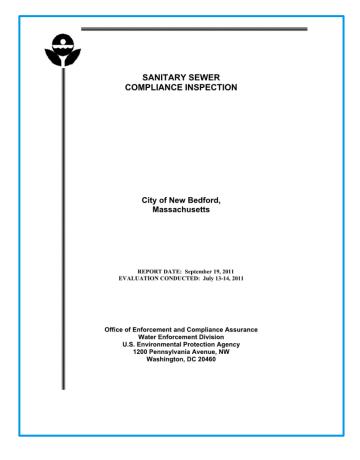
#### **Close Relatives of Captain Plunger**





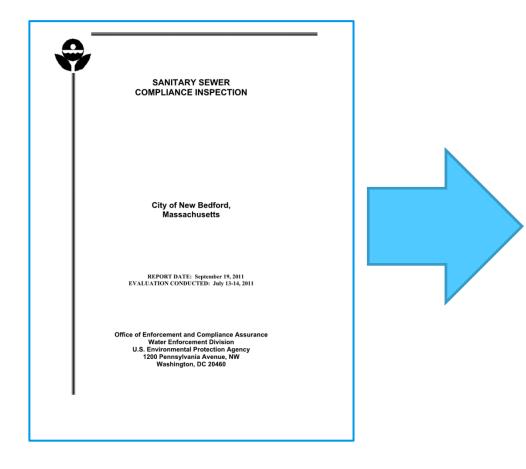


### Background





#### Background



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I IN THE MATTER OF: DOCKET NO. 12-010 Findings of Violation Proceedings under Sections 308 and Solg(J2) of the Clean Water Act, as amended, 33 U.S.C. §§ 1318 and 1319(a)(3)

#### I. STATUTORY AUTHORITY

The following FINDINGS are made and ORDER ("Order") issued pursuant to Sections 308(a) and 309(a)(3) of the Clean Water Act, as amended (the "Act"), 33 U.S.C. §\$ 1318 and 1319(a)(3). Section 309(a)(3) of the Act grants to the Administrator of the U.S. Environmental Protection Agency ("EPA") the authority to issue orders requiring persons to comply with Sections 301, 302, 306, 307, 308, 318, and 405 of the Act and any permit condition or limitation implementing any of such sections in a National Pollutant Discharge Elimination System ("NPDES") permit issued under Section 402 of the Act, 33 U.S.C. § 1342. Section 308(a) of the Act, 33 U.S.C. § 1318(a), authorizes EPA to require the submission of any information required to carry out the objectives of the Act. These authorities have been delegated to the EPA, Region I Administrator, and in turn, to the Director of the EPA, Region I Office of Environmental Stewardship ("Director").

The Order herein is based on findings of violation of Section 301 of the Act, 33 U.S.C. § 1311, and the conditions of NPDES Permit No. MA0100781. Pursuant to Section 309(a)(5)(A) of the Act, 33 U.S.C. § 1319(a)(5)(A), the Order provides a schedule for compliance that the Director has determined to be reasonable.

#### II. DEFINITIONS

Unless otherwise defined herein, terms used in this Order shall have the meaning given to those terms in the Act, 33 U.S.C. §§ 1251 ef exe, the regulations promulgated thereunder, and any applicable NPDES permit. For the purposes of this Order, "NPDES Permit" means the City of New Bedford's NPDES Permit, No. MA0100781, and all amendments or modifications thereto and renewals thereof as are applicable and in effect at the time.

#### Updates to Existing CMOM Program

- AO led to development of updated and enhanced CMOM program from prior program developed in 1993
- Embracing CMOM program as an opportunity to create efficiencies and expand system knowledge
- Technology advancements and data collection
- Formation of formal IPP and FOG department
- Public Outreach





### Highlights of IPP and FOG Programs

- Over 570 food handling facilities in the City
- 10 categorical and 19 industrial users in the City regulated under EPA's IPP program
- Two staff dedicated to program
- Annual reporting requirements
- FOG ordinance promulgated in October 2015







### The Birth of a Superhero

- Embraced public outreach efforts as a mechanism to improve system operations
- Reaching out to community for input and involvement
- Utilizing both regional and local avenues for outreach and communications









## The Birth of a Superhero (Cont.)

- Coordinated through City's IPP and FOG program
- Partnership with New Bedford Vocational High School graphic arts students and faculty
  - Super hero character
  - Information boards, handouts, and flyers
- Engineering and IPP/FOG
   Departments sponsor high school and college internships







### The Birth of a Superhero (Cont.)





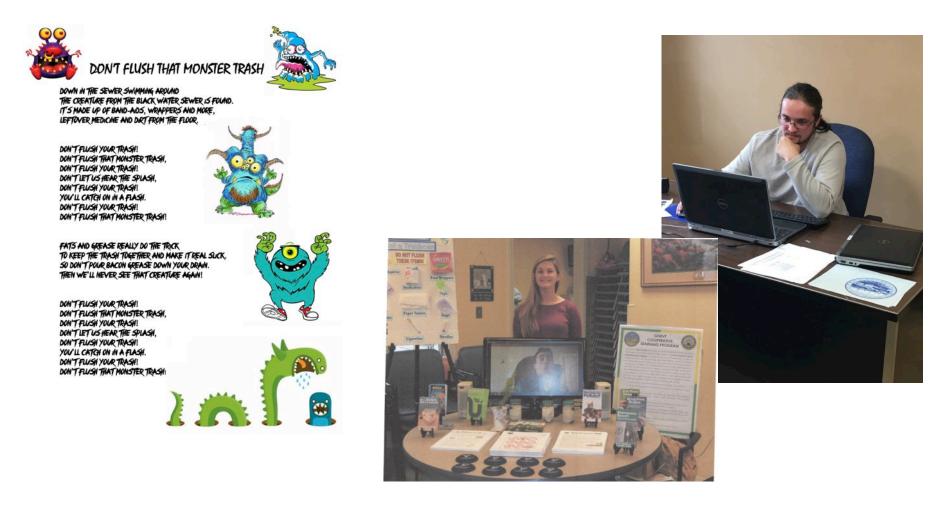
### Public Outreach and Education Starts at School

- Presentations to elementary school children
- Interactive demonstrations and engagement
- Simple but effective....





#### **Internship Program Strengthens DPI Team**





### **Developing a Strong Brand**

- Branding of Captain Plunger and DPI's FOG/IPP programs
- Cease the Grease Campaign
- Using Voc Tech visual design students to develop graphics, presentation material, and informational flyers
- Associates concept with goals



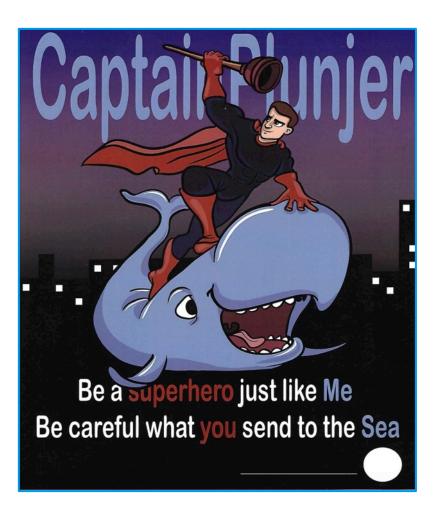






#### **Cease The Grease Campaign**

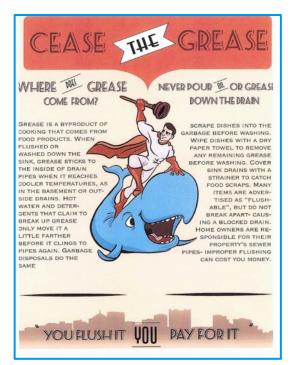






#### **Cease The Grease Campaign (Cont.)**









#### Paper, Paper, Everywhere!!

- Inefficiencies in data tracking and program operations
- Space constraints
- Expansion of the FOG program required a change in operations
- Manual labor and data entry to PreWin



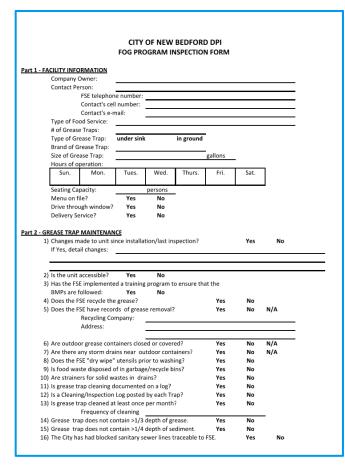


### IPP and FOG Programs in the 21<sup>st</sup> Century

- Technological improvements to drive efficiencies and system data collection, tracking, and management
- CMMS system enhancements
- Geographical Information System
  - Robust system updated to current ESRI standards
  - Record drawings and asset information
  - Restaurant and IPP locations in GIS
  - Linkage to CMMS system
- Inspections through CMMS system using iPads and custom applications
- New EPA regulations regarding electronic reporting (CROMERR)

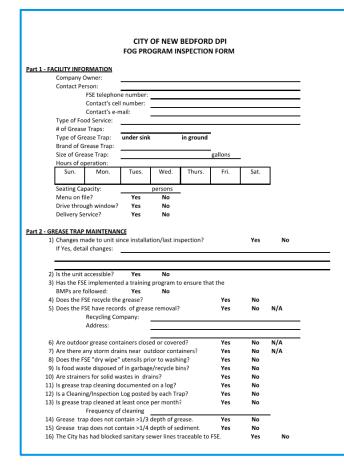


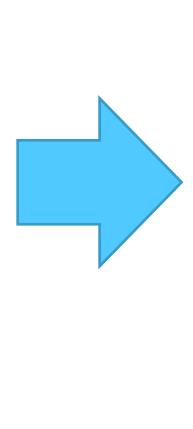
#### CMOM in the 21<sup>st</sup> Century (Cont.)





### CMOM in the 21<sup>st</sup> Century (Cont.)





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On-Site Contact				
General Comment				
Seasonal				



#### **Captain Plunger Continues the Fight**

- Track system operations improvements in areas prone to grease and flushable issues through GIS and CMMS
- Track food handling facility and industrial user compliance
- Reduced operations costs and violations
- Education tool

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### Questions

