NEWEA PLANT OPERATIONS COMMITTEE Technical Presentation and Facility Tour Dover, NH Wastewater Treatment Facility

Wednesday August 24, 2016

#### Background

The Dover, NH wastewater treatment facility was a 4.7 MGD conventional secondary treatment facility. Wastewater is pumped to the facility through a 4 mile 36 inch force main from the River Street Pump Station. All preliminary treatment as well as Hypochlorite addition for odor control is completed at this station. Liquid treatment process located at the treatment facility included:

- 2- Primary Sedimentation Basins Covered with Odor Control
- 4- Fine Bubble Aeration Basins Covered with Odor Control
- 2- Secondary Clarifiers
- 2- Channel Ultraviolet Disinfection System
- 1- River bottom outfall retrofitted with Duckbill Diffusers
- 2-2 Meter Gravity Belt Thickeners
- 2-2 Meter Belt Filter Presses
- Onsite Composting Facility

The facility discharges treated Effluent into the Piscataqua River.

#### Improvements

- 1997- A New Odor System with Flat Covers and a Biofilter.
- 2002- Construction of a new Aeration Building.
- 2003- Installation of Duckbill Valves to the Outfall Structure.
- 2004- A new Trojan 3000 Plus UV System.
- 2011- Installation of 3-HSI Turbo Blowers.
- 2012- Installation of 2- HUBER Q 800 Inclined Screw Presses.

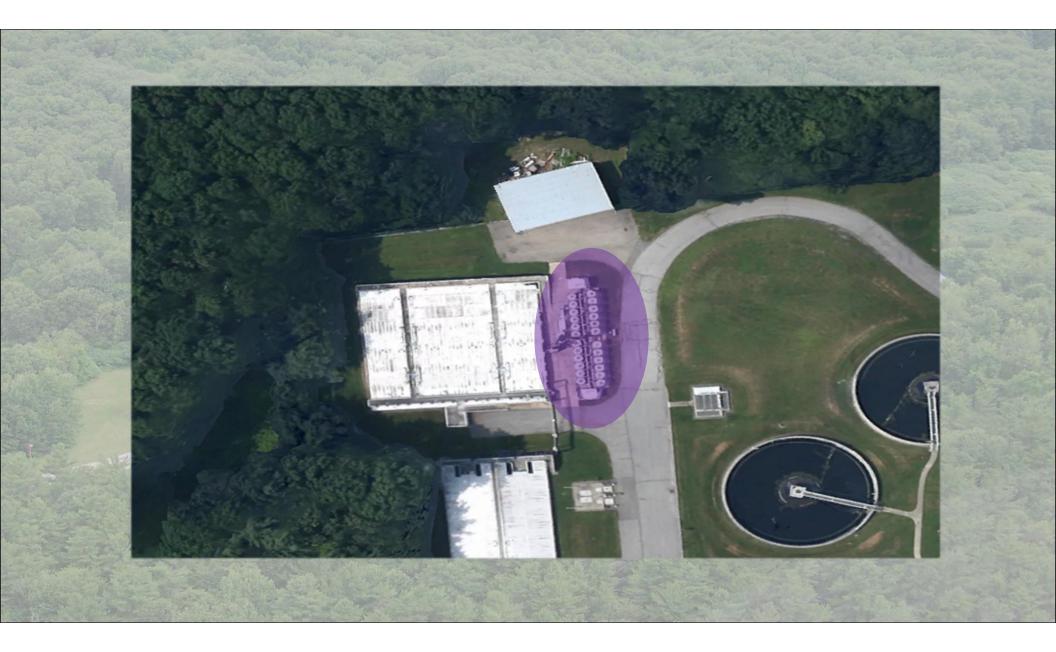












### 2002 New Blower Building





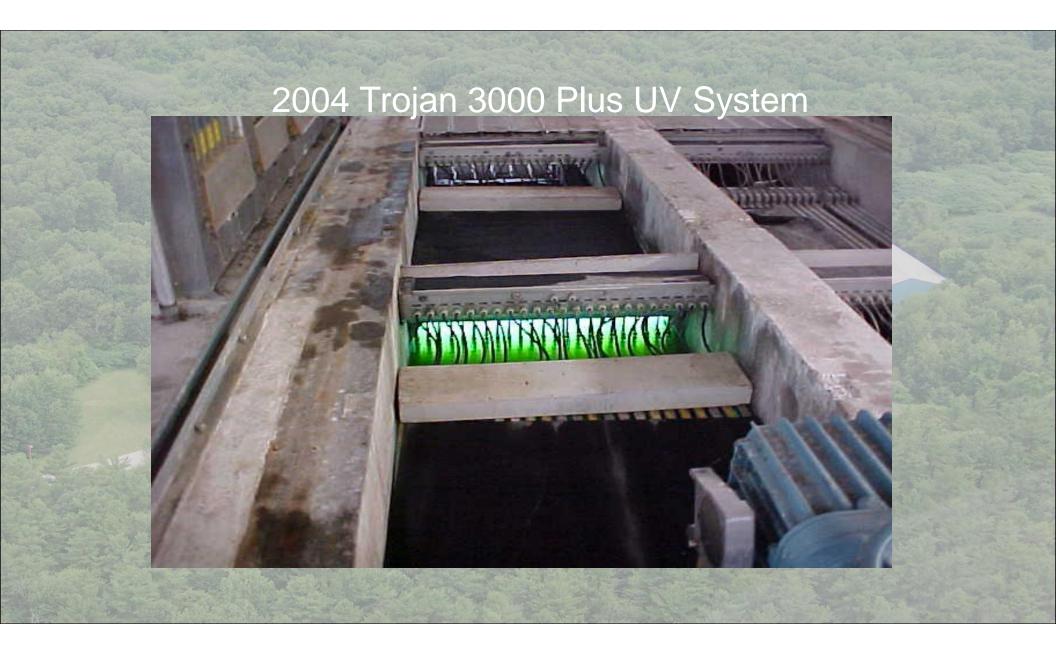










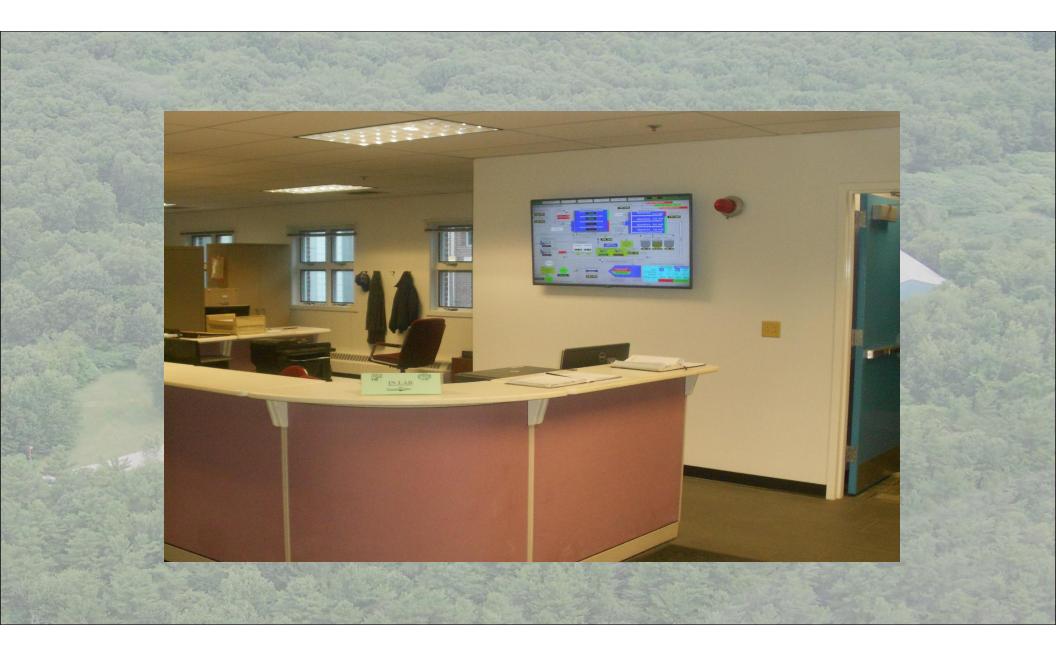












#### 2011 Installation of Turbo Blowers

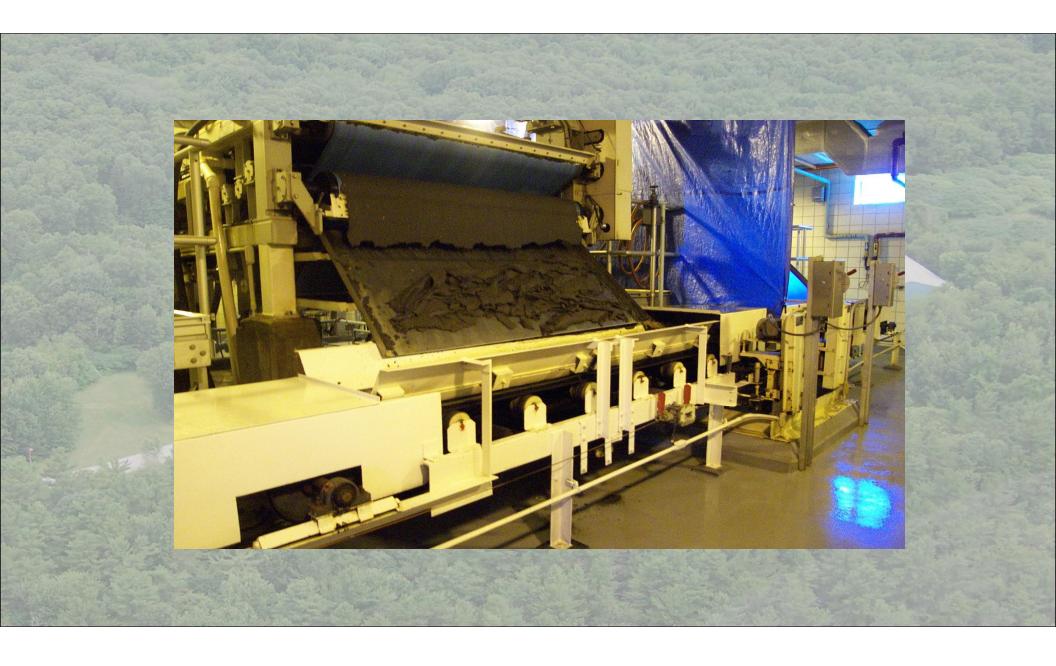






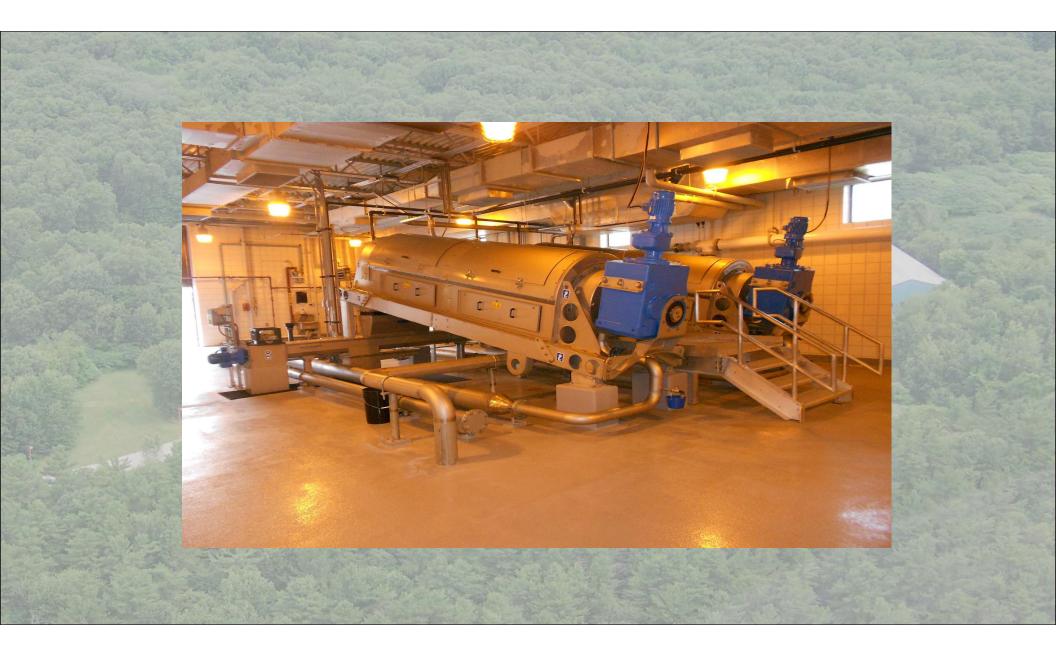
#### Pre 2012 Dewatering

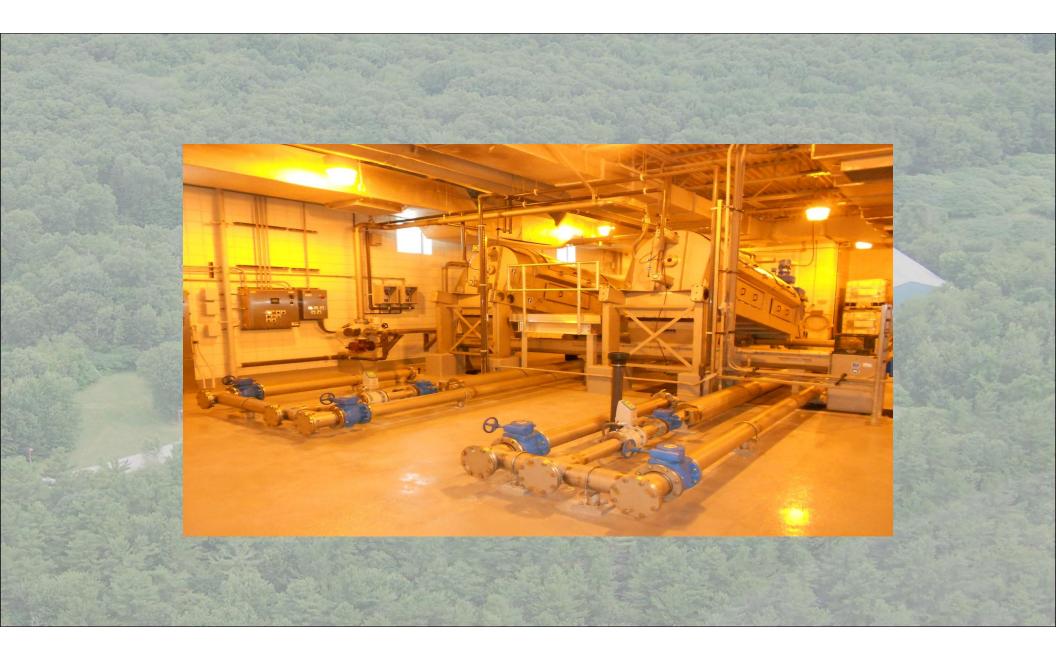














Tim Vadney will be taking you through the.....

- 2012 Facility Plan
  - 2014 Design
- 2016 Construction

## **THANK YOU!!**

# QUESTIONS?