

US EPA ARCHIVE DOCUMENT

**State Innovation Grant Project  
Narragansett Bay Commission  
Progress Report - 5  
October 1, 2009 – December, 31 2009**

**Project Title:** Sustainable Energy Management Practices for Wastewater Treatment Facilities

## **Part 1 – Synopsis of Accomplishments**

During the current Project Reporting Period October 1<sup>st</sup> through December 31<sup>st</sup>, 2009 the following activities took place: the Project Partners (NBC, RIDEM, URI and RIMES) and EPA continued to meet and participate on conference calls to discuss and plan activities associated with project development and implementation, a Roundtable meeting was held on October 21<sup>st</sup>, a seminar on Energy Management for WWTF was held on December 2<sup>nd</sup>, 2009 in partnership with National Grid, work continue on the development of a FOG-BMP Workbook, and the remainder of the FOG-ERP Compliance/BMP inspections were completed for a grand total of approximately 200. See Attachment - Project Milestone Table for a complete summary of project activities.

## **Part 2 – Summary of Activities Accomplishments – Fifth Project Quarter**

### **I. WWTF Energy Focused Environmental Management System Project**

#### **EF-EMS Planning**

On November 19<sup>th</sup>, 2009 NBC met with Bill Patenaude from RIDEM and Gina Snyder from EPA to discuss an upcoming National Grid sponsored workshop on Energy Management for WWTF and to discuss the status of the on-going EF-EMS Project.

On December 28<sup>th</sup> NBC met with URI to discuss EF-EMS data collection activities. URI students will be contacting several WWTF during the winter break to collect Portfolio Manager data elements.

#### **Energy Use Baseline for Participating WWTF**

During the current reporting period NBC and URI continued to collect energy use data from the eight facilities visited as part of the energy audits and updated each of these WWTFs' Portfolio Manager Accounts for the previous year's energy use. Summary reports were developed and submitted to four WWTFs: West Warwick, South Kingstown, Jamestown and Narragansett see attachments.

#### **Energy Use Audits**

During the previous reporting period an energy consultant, Action Energy that had been assisting with energy audits notified the Project Partners that they could no longer participate in the program. On October 8<sup>th</sup> NBC Staff met with URI, RIMES and Frank Davey from RISE regarding Action Energy's past participation in the Sustainable Energy Management Program for WWTFs. Based on discussions during this meeting RISE agreed to obtain and forward an electronic copy of Bristol WWTF Energy Audit Report prepared by Action Energy. As noted above Action Energy does not plan on participating in future audits. A request was made to RISE to have Action Energy submit

all notes taken during the other six audits to URI. Negotiations are being made with National Grid to assist with conducting energy audits of all 19 WWTFs.

#### **Energy Audit - Bristol WWTF Energy Assessment**

On Tuesday, November 17, 2009, NBC sent a final Energy Assessment to Bristol Wastewater Control Facility.

#### **Energy Audit – West Warwick WWTF Energy Assessment**

On Monday, November 2, 2009, NBC met with Waterline at the West Warwick WWTF to discuss opportunities hydroelectric power.

#### **EF-EMS Roundtable**

On October 21<sup>st</sup> the fourth in a series of on-going “WWTF Sustainable Energy Roundtable Meetings” was held at the Warwick Public Library. As part of this meeting Mr. Steve Boles of Process Energy Services made a presentation on assessing pump efficiencies. The Roundtable meeting was attended by approximately 12 representatives of 5 WWTFs.

#### **National Grid Energy Workshop**

On December 2<sup>nd</sup> National Grid sponsored workshop on “Improving Energy Efficiencies in Wastewater Treatment Facilities” at the Inn at the Crossings in Warwick. The workshop was attended by more than 40 representatives of WWTF from Rhode Island and South Eastern MA.

#### **Massachusetts Energy Roundtable**

On October 6<sup>th</sup> NBC’s Pollution Prevention Engineer attended a meeting of the Massachusetts Water and Wastewater Facility Energy Roundtable.

#### **WWTF Superintendent’s Meeting**

On December 4<sup>th</sup> NBC attended a Rhode Island WWTF Superintends Meeting held at NBC to discuss WWTF energy issues. NBC’s Pollution Prevention Engineer gave a presentation on renewable energy opportunities for WWTFs.

#### **RIDEM WWTF Boot-Camp**

On December 17<sup>th</sup> NBC attended a RIDEM Boot-Camp meeting. During this meeting NBC’s Pollution Prevention Engineer presented information on Portfolio Manager.

## **II. FOG Environmental Results Program Project**

#### **FOG Best Management Practices (BMP) Factsheets**

During the current reporting period URI continued its work on developing a FOG BMP Workbook.

#### **ERP Assessments**

During the current reporting period NBC Pretreatment Staff completed the remaining baseline assessments of the randomly selected facilities. Approximately 200 baseline assessments have been completed.

## **Part 3 – Projection of Activities, Accomplishments, and Major Expenditures for Next Quarter Report**

### **I. WWTF Energy Focused Environmental Management System Project**

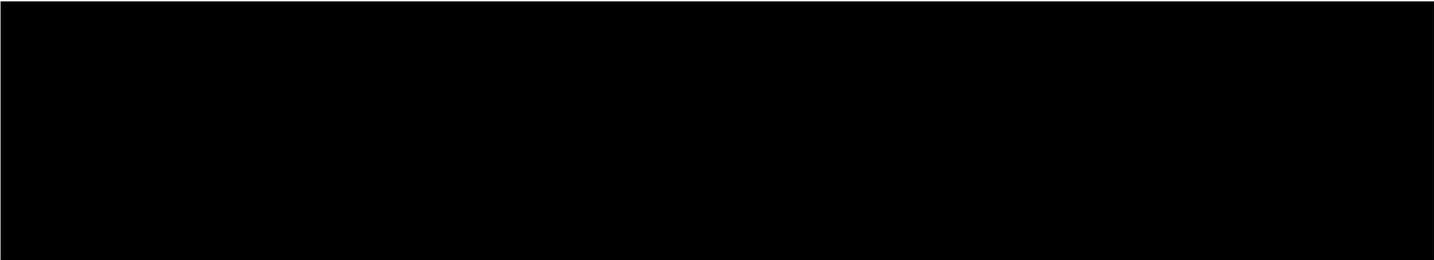
- A Roundtable Meeting is scheduled for February 3, 2010
- Continue with Energy Use Assessments in cooperation with National Grid

### **II. FOG Environmental Results Program Project**

- FOG-ERP Steering Committee – Form Steering Committee and schedule first meeting
- ERP Certification – Finalize Workbook and Certification procedures

## **Part 4 – Financial Report**

A summary of grant related expenses to-date is as follows:



### **Attachments:**

1. Project Milestone Summary Table
2. Bristol WWTF Energy Use Report
3. WWTF Summary Reports – Energy Use
4. WWTF Summary Reports – Solar Energy
5. WWTF Summary Reports – Wind Energy