

PUBLIC WORKS

Education and Outreach

Utah Pollutant Discharge Elimination System (UPDES)
Utah Sewer Management Program (USMP)

Background

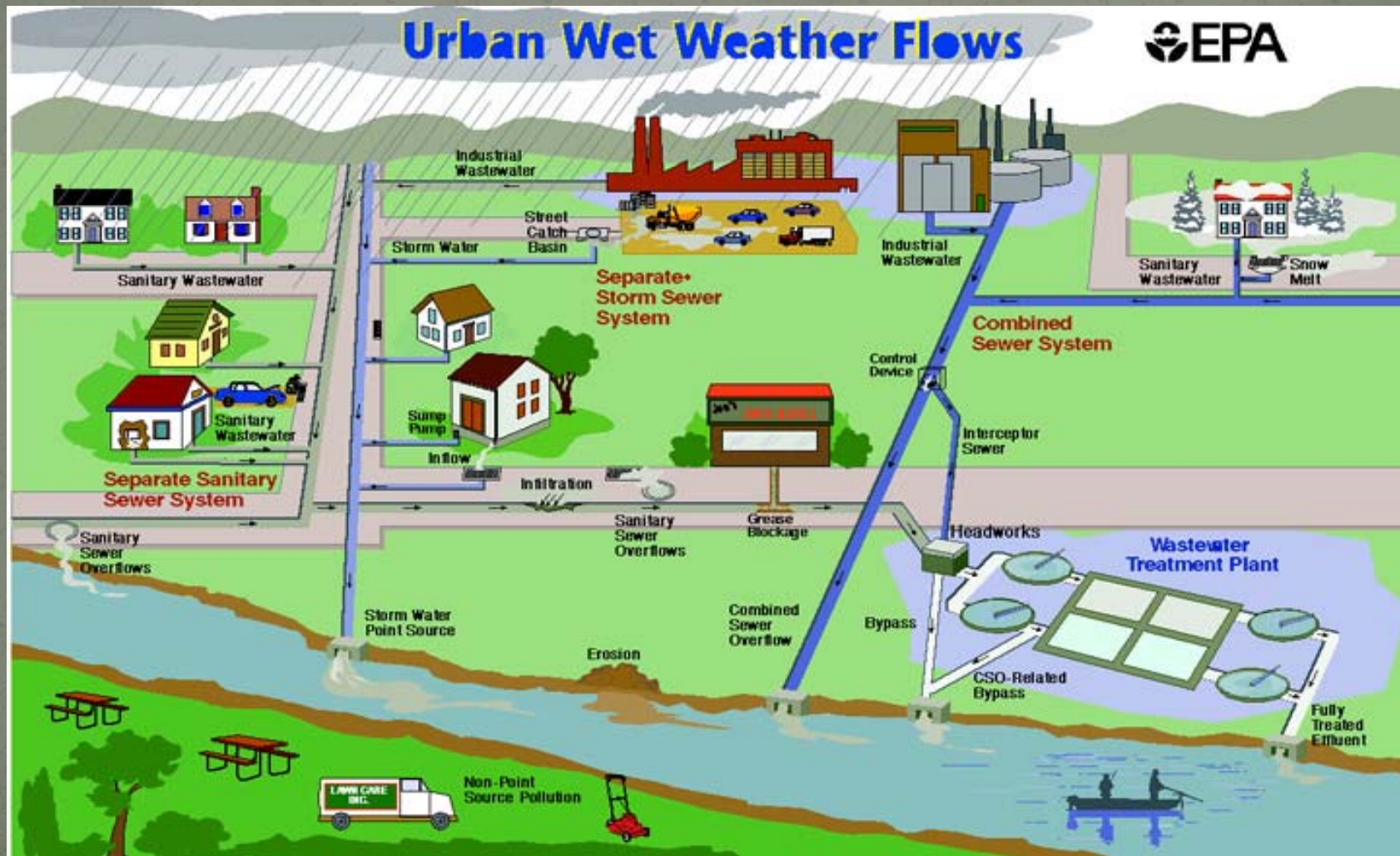
UPDES (Storm Water)

- The Federal Water Pollution Control Act of 1948 was the first major U.S. law to address water pollution. Growing concern over water pollution led to the Clean Water Act of 1972 and amendments in 1987.
- The U.S. Environmental Protection Agency (EPA) develops the “National Pollutant Discharge Elimination System” (NPDES).
- The EPA adopts Phase I for large entities. On December 8, 1999, Phase II extends to all cities in metropolitan areas.
- These regulations address the handling of storm water through control measure that apply to development of land or disturbance on one acre or greater.
- Utah Department of Environmental Quality (DEQ) administers the federal regulations .

USMP (Sewer)

- EPA became concerned with combined sewer/storm water collection systems in eastern states.
- EPA considered rule in 1999, by 2001 no rule had been imposed.
- In 2009, EPA gives guidance on possible rule for sewer management.
- Utah Department of Environmental Quality (DEQ) and sewer providers prepare for eventual federal rule.
- 2009-2011 DEQ and sewer providers prepare draft rule for the “Utah Sewer Management Program” (USMP).
- 2012 DEQ adopts final rule R317-801.

Storm Water and Sewer Systems



UPDES – Storm Water Management



UPDES – Storm Water Management

- The City implements a Storm Water Management Plan that includes the following six-part program. This program is funded by the storm water utility fee.
 - Public Education and Outreach.
 - Public Involvement and Participation.
 - Illicit Discharge Detection and Elimination.
 - Construction Site Storm Water and Runoff Control.
 - Post Construction Storm Water Management.
 - Pollution Prevention and Municipal Operations.

UPDES – Public Education and Outreach

- Participation in the Weber County Storm Water Coalition
- Educational Materials:
 - Newsletter
 - Pamphlets
 - Curb Markers
- Water Fair
- Training Opportunities
- Media Advertisements



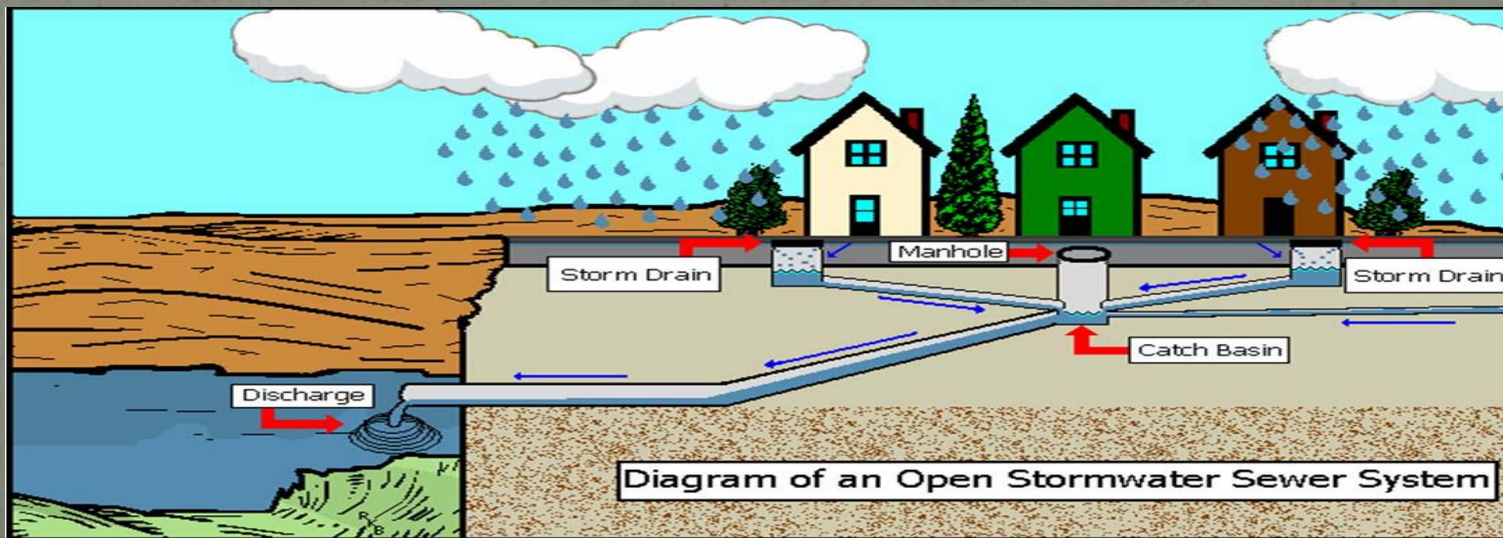
UPDES – Public Involvement and Participation

- Storm Drain Identification and Labeling
- Community Clean-up Projects
- Community Service Opportunities
- Public Input on Storm Water Plans and Regulations



UPDES – Illicit Discharge Detection and Elimination

- Storm Water System Map
- Track, Record, and Report Illicit Discharges
- Identify Improper Storm Water Management Practices
- Ordinance Prohibiting Illicit Discharges and Prescribing Penalties for Violations



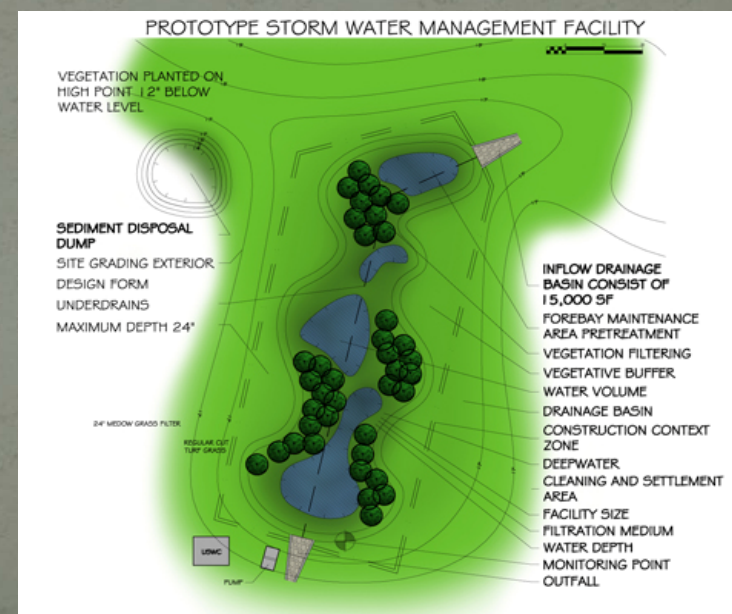
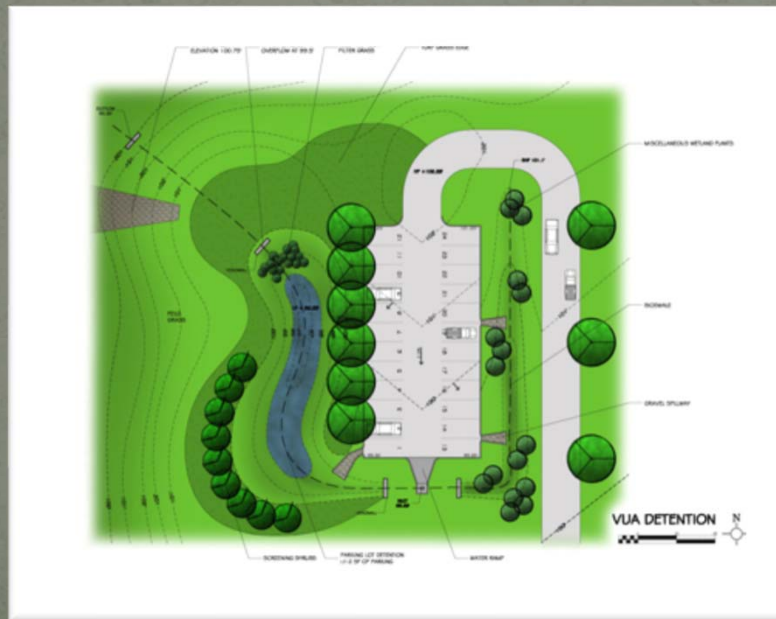
UPDES – Construction Site Storm Water Runoff Control

- Ordinance for Managing Construction Site Runoff
- Guidelines for Development or Land Disturbance
- Site Plan Review Process and Best Management Practices (BMPs)
- Storm Water Control Permitting Process



UPDES – Post Construction Storm Water Management

- Storm Water Detention/Retention
- Outlet Drainage to Match Pre-construction Hydrology
- Ongoing Inspection, Operation, and Maintenance.
- Compliance



UPDES – Pollution Prevention and Municipal Operations

- Good Housekeeping Practices in Municipal Operation
- Street Sweeping Program
- Storm Drain Cleaning and Maintenance
- Proper Disposal of Pollution Material



USMP – Utah Sewer Management Program



USMP – Utah Sewer Management Program

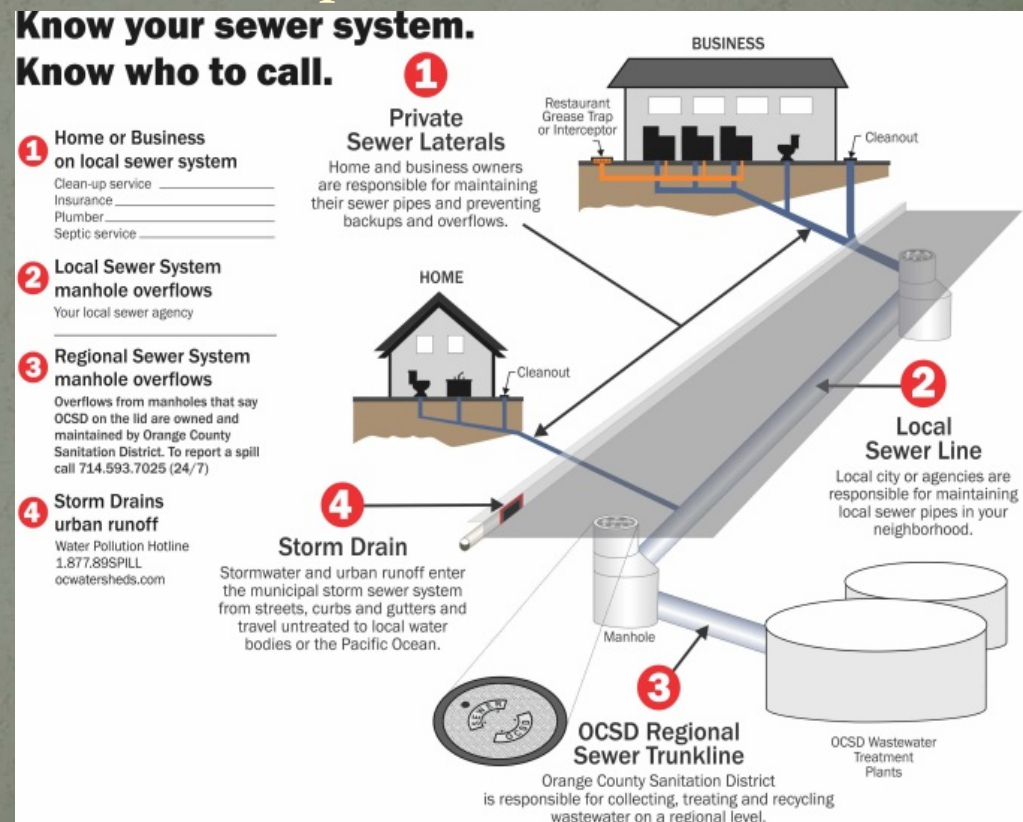
- Under the Utah DEQ regulation, the City is now required to implement a Sanitary Sewer Management Plan (SSMP)
- The SSMP
 - Must be prepared by a licensed engineer or other qualified professional
 - Public noticed by the City
 - Approved by the governing body at a public meeting

USMP – Utah Sewer Management Program

- The SSMP has 7 Key Elements:
 - Organization Information
 - Sewer System Ordinance
 - Operation and Maintenance Plan
 - Sewer System Design Standards
 - Sewer Overflow Response Plan (SORP)
 - Fats – Oils – Grease (FOG) Control Program
 - System Evaluation and Capacity Assurance Plan

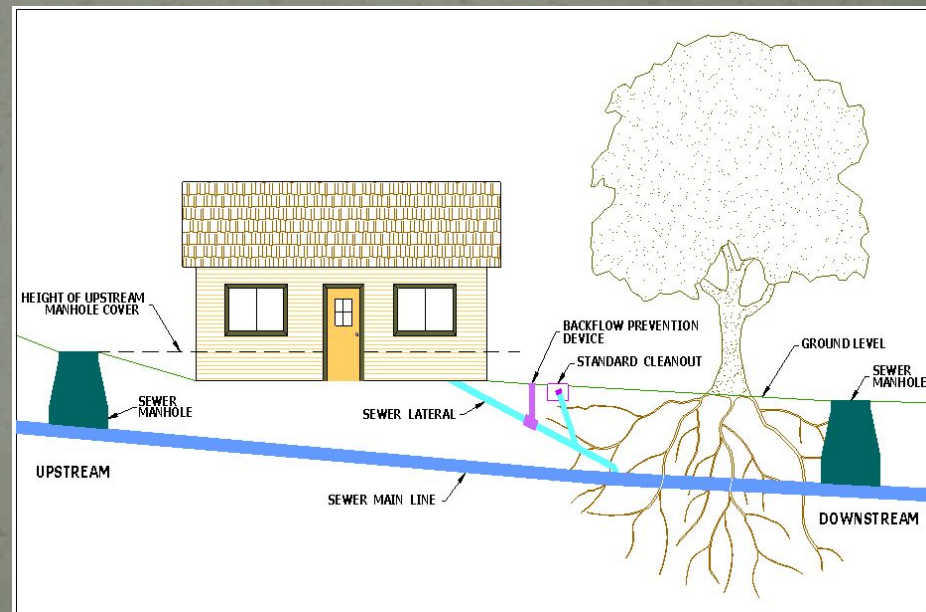
USMP – Utah Sewer Management Program

- Organization Information
 - Entity Responsible for Each Component of the Sewer System
- Contact Information
- Emergency Contact



USMP – Utah Sewer Management Program

- Implement Sewer System Ordinance
 - Connection Requirements
 - Unauthorized or Prohibited Discharges
 - Sewer Operation
 - Imposes Sewer Rates
 - Safety Controls
 - General Regulations



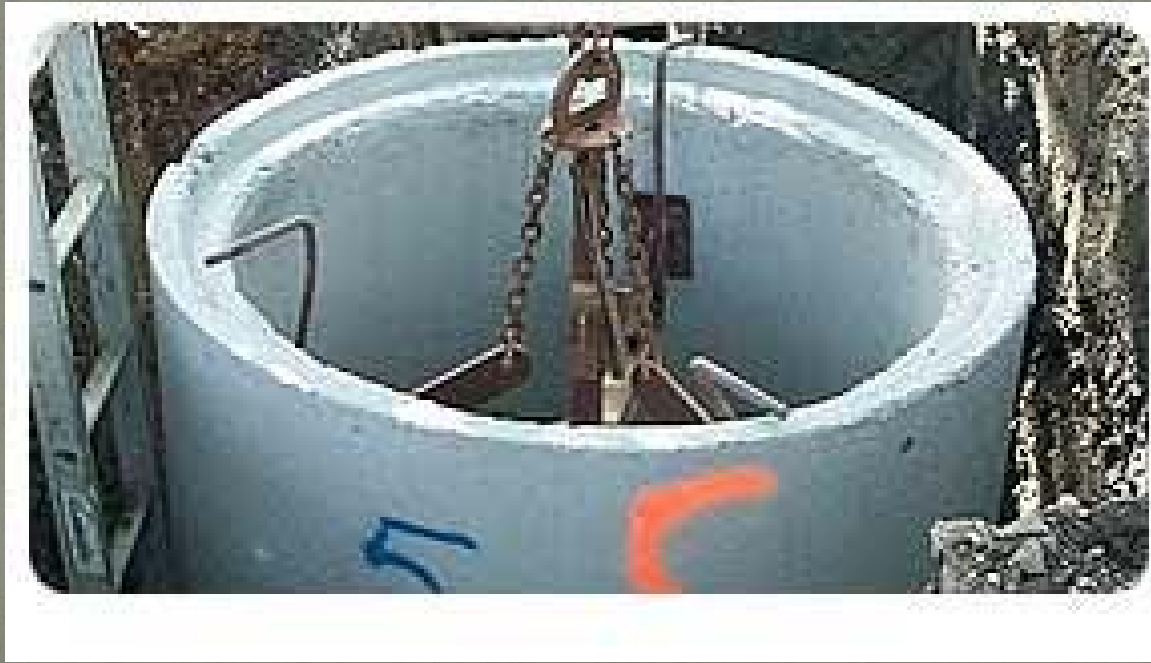
USMP – Utah Sewer Management Program

- Operation and Maintenance Plan
 - Maintain Updated Mapping of the Sewer System
 - Implement a Routine Maintenance Schedule
 - Rehabilitation and Replacement Schedule
 - Training and Equipment
 - Impose an Utility Fees Adequate to Support the System



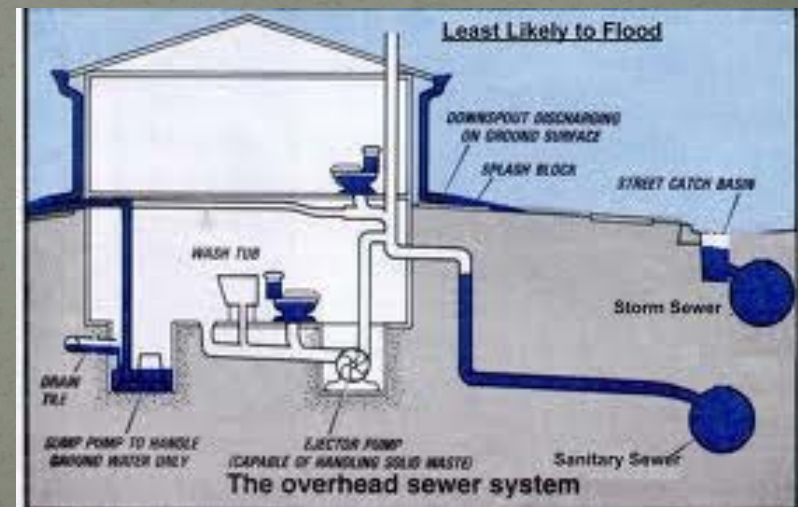
USMP – Utah Sewer Management Program

- Sewer System Design Standards
 - Local Sewer System Design and Construction Standards
 - Implement City Ordinance for Sewer Installation and Inspection



USMP – Utah Sewer Management Program

- Sewer Overflow Response Plan (SORP)
 - Notification and Reporting
 - Response to Overflow
 - Clean-up
 - Follow-up on Impacted Parties



USMP – Utah Sewer Management Program

- Fats – Oils – Grease (FOG) Program (For 2000+ Connections)
 - Implementation Plan
 - Public Outreach
 - Disposal Plan
 - Inspection and Monitoring



USMP – Utah Sewer Management Program

- System Evaluation and Capacity Assurance Plan (SECAP) for 2000+ Connections
 - Develop a SECAP
 - Conduct Capacity Modeling and Prioritized Planning
 - Conduct Flow Monitoring
 - Maintain Records and Regular Assessment
 - Identify Trends



USMP – Utah Sewer Management Program

- Complete the Sewer System Management Plan (SSMP)
 - Under 3,500 Population – March 31, 2016
 - 3,501 to 15,000 Population – September 30, 2015
- Complete System Evaluation and Capacity Assurance Plan (SECAP)
 - Under 3,500 Population – September 30, 2017
 - 3,501 to 15,000 Population – September 30, 2016