Background

- EPA issued Phoenix’s first MS4 permit in February 1997.
- The permit expired in 2002 and was administratively continued, until....
- ADEQ issued Phoenix’s second MS4 permit in February 2009.
General Permit Requirements

- Public Education and Outreach
- Illicit Discharge Investigation & Elimination
- Inspections & Enforcement
  - Industry
  - Construction
- Stormwater Monitoring
Key Differences: 1997 to 2009

- **Measurable Goals**
  - 1,700 Industrial Inspections

- **Time Frames**
  - Initiate corrective action within 60 days

- **Employee Training**

- **Post Construction Inspections & Controls**

- **Low Impact Development (LID) Standards**

- **Surface Water Quality Standards**

- **Mapping Requirements**
Other Considerations – EPA Audits

2001
- “Storm Water Section lacks resources to meet permit requirements in a timely manner.”
- “Limited interdepartmental coordination.”

2008
- “The City has not addressed the deficiencies indentified in the program evaluation conducted in 2001, and does not appear to have made progress since that time.”
Management Attention

- Internal study to evaluate the program
  - Existing Resources
  - Requirements of the new permit
- Recommendations
  - Additional Resources
  - Reorganize the Program
- City Council Approval
Program Organization

Interdepartmental Coordination
- Working Group
- Executive Oversight Committee

Water Services Department
- Program Coordination & Reporting
- Wet Weather Monitoring
- Public Education & Outreach
- Illicit Discharge Detection & Elimination
- Industrial & Commercial Inspections
- Compliance & Enforcement

Street Transportation
- Storm Drain Maintenance
- Geographic Information System (GIS)

Environmental Programs
- Municipal Facility Inspections
- Training Coordination

Planning & Development Services
- Construction & Post Construction Inspections
- Outreach & Education
Funding

- **1993:** $0.15 fee added to water bill
- **1997:** $0.05 fee increase
- **2010:** $0.50 fee increase
  - Corresponding decrease in Water Services Fee, resulting in no net increase to the consumer
  - $1M program to $4M program.

- **Funds all Stormwater Program activities, with the exception of:**
  - Construction Permits and Inspections
  - Household Hazardous Waste Collection Events
  - Capitol Improvement Projects
New Resources

- 18 New Positions
  - 7 Water Quality Inspectors
  - 5 Wash Maintenance Staff
  - 4 GIS Staff
  - 1 Program Coordinator
  - 1 Environmental Quality Specialist

- Funds for storm drain maintenance

- GIS Upgrades
Challenges – Training

- Training New Water Quality Inspectors
- Training City Staff
  - Annual Awareness Training for Field Staff
  - New Employee Training & Biennial Refreshers:
    - Stormwater Inspectors (Industrial, Construction, Municipal, IDDE)
    - Street Repair & Maintenance Staff
    - Water/Sewer Maintenance Staff
    - Spill Prevention & Reporting
    - Hazardous Materials Handling
Challenges - Industrial Inspections

- Industrial Inspections
  - Permit: 1,700
  - Status: 400

- Added Commercial Inspections

- Compliance & Enforcement
Challenges - IDDE

- Illicit Discharge Detection & Elimination
  - Identify Sources of Dry Weather Flow
  - Eliminate the Source
Challenges - SWQS

- Wet Weather Monitoring
  - E. coli
  - Lead
  - Copper
- Identify Sources
- Implement BMPs