



What
We
Do...

The City of Oklahoma City

Storm Water Quality Management

A Division of Public Works



The purpose of the Stormwater Quality's line of business is to provide inspections, enforcement, water quality assessments, public outreach, and household hazardous waste services to citizens, businesses and government agencies so they can comply with the Clean Water Act and enjoy a safe and clean environment.

Cuyahoga River Cleveland Ohio

June 23rd 1969

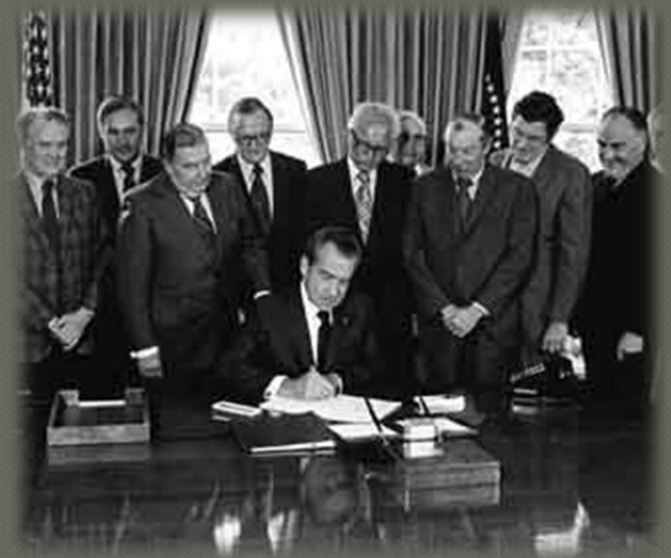


HISTORY IS MADE

In 1970 Congress and President Nixon formed the Environmental Protection Agency (EPA), which was to govern air and water pollution. From 1972 thru 1977 radical changes were made to the Water Pollution Control Act now commonly known as the Clean Water Act.

In 1977 President Jimmy Carter signed into law the Federal Clean Water Act.

1990 President George H. Bush signed the Pollution Prevention Act. At this time the City of Oklahoma City began a program to comply with this federal mandate, requiring “Phase I” cities to develop programs to prevent urban pollution from entering “Waters of the US”.



The City of Oklahoma City



In June of 1995 the OKC council approved a “drainage utility fee” to fund the Storm Water Quality program. In 1999, Storm Water Quality became a Division of the Public Works Department.

Area: 621 square miles

Population: 580,000 (Metropolitan – 1,200,000)

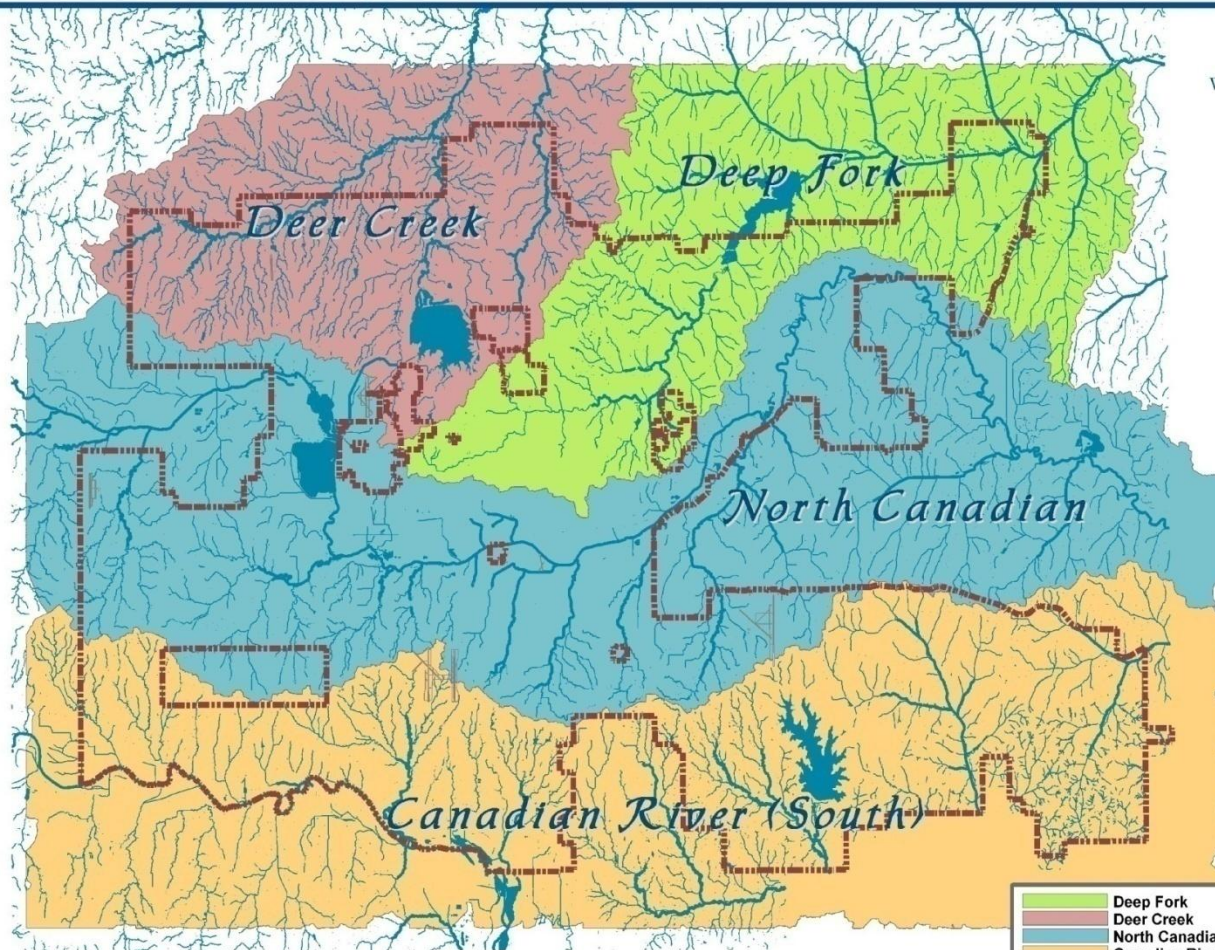
City of Oklahoma City - Drainage Basins



Storm Water Quality



The City of
OKLAHOMA CITY
1907 - 1908



- Deep Fork
- Deer Creek
- North Canadian
- Canadian River (South)

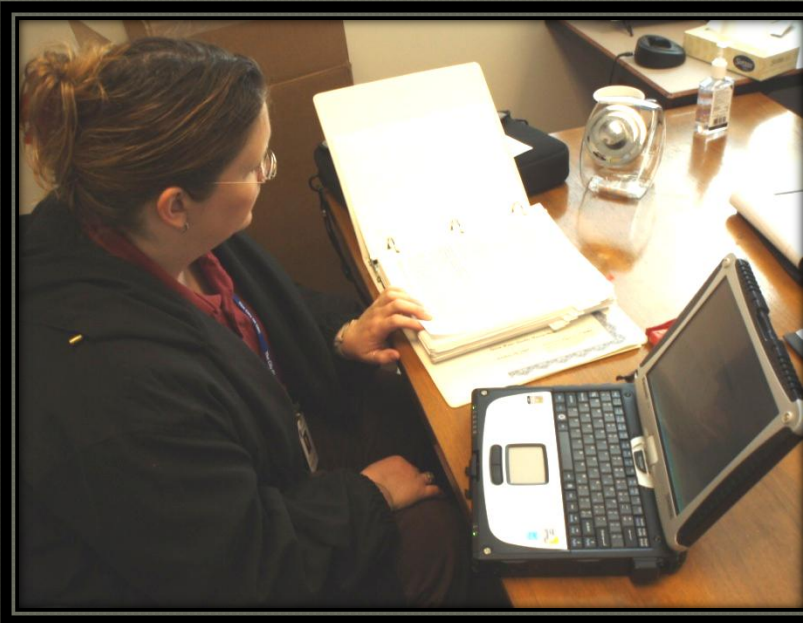
Construction Auditing Program

- **Permitting** ~ All construction sites are permitted and inspected to control sediment runoff
- Permitting **requirements** include;
 - Notice of Intent
 - Storm Water Pollution Prevention Plan
 - Site plan showing erosion controls
 - and a annual permit fee.
- Sites are **audited** by Environmental Technicians, The intent of these audits is to reduce or eliminate the potential to pollute surface runoff at each site.



Industrial Auditing Program

- ❑ **Permitting** ~ Specific businesses whose processes or operations are potentially harmful to the environment are required to permit.
- ❑ **Permitting requirements** include a Notice of Intent, a Storm Water Pollution Prevention Plan for the facility, and a annual permit fee.
- ❑ Facilities are **audited** by Environmental Technicians.



SWQ Workshops

SPRING AND FALL



AWARDS PROGRAM



Environmental Water Quality Program

- **Illicit Discharge Detection and Elimination Program**
Sample over 550 sites for illicit discharge detection in waterways. Detections are tracked to their source and elimination steps are taken.
- **Storm Event/Runoff monitoring Program**
Monitoring during runoff conditions at representative locations in Oklahoma City.
- **Watershed Characterization Program**
Data generation of the environmental conditions in 154 outfall-watersheds in Oklahoma City.



Environmental Water Quality Continued...

- ❑ **Floatable Debris Program** ~ Study-Categorize and remove floatable debris from waterways.
- ❑ **Optical Brightener Monitoring** ~ Deployment of devices that detect the optical brighteners often found in sanitary sewer discharges.
- ❑ **Technical Support and Operations** ~ Technical support with environmental GIS/GPS. Data collection and interpretation support, storm sewer confined entry operational support, dye testing and camera operations.



Illicit Discharge Detection & Elimination Program

- **Hazmat Response** ~ Provide technical support to the Fire Department to prevent and remediate illicit discharges into the drainage system.
- Respond to all calls indicating possible storm water contamination.
- “Panning crews” clean out clogged curb inlets and drainage structures.
- Administration of the contract for street sweeping.



Household Hazardous Waste Collection Facility

- Operating the state's first permanent HHW collection facility since August 23, 2003
- Semi-annual collection events for City residents to properly dispose of unwanted computers, ammunition, tires and pharmaceuticals



Public Outreach Program

- ◉ **Adopt-A-City-Street** ~ Volunteers remove trash from street right-of-ways.
- ◉ **Curbs-to-Creeks** ~ Volunteers mark storm drains to prevent improper waste disposal.
- ◉ **Community** ~ Public education at schools, training workshops for construction, industries, pesticide applicators and city personnel.



Public Outreach Program “Wayne Drop”



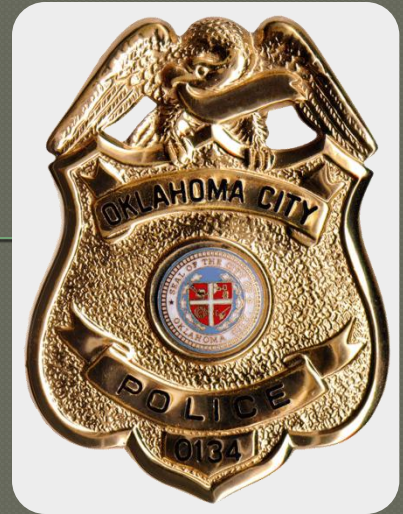
Earthday-Festivals-Cub Scouts



Brochures



Enforcement



- City of Oklahoma City Ordinances
 - Chapter 16 ~ Drainage & Detention
 - Chapter 48 ~ Grading Erosion & Sediment Control
 - Chapter 57 ~ Permits & Enforcement
- All Environmental Technicians are commissioned Environmental Enforcement Officers, capable of shutting down or stopping any activity that is breaking city ordinances or a facilities requirement per their SWPPP.
 - First offense: Warning possible Notice of Violation (NOV)
 - Second offense: NOV/ Cease and Desist Order
 - Third offense: Affidavit of Probable Cause
- On some occasions, in cooperation with the Department of Environmental Quality and Oklahoma City Police, felony arrests have been made.

Central Oklahoma Storm Water Alliance (COSWA)

“Every Day Environmentalist”

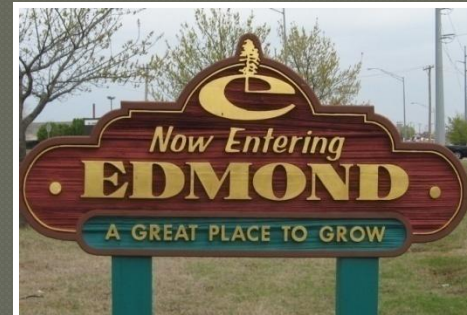
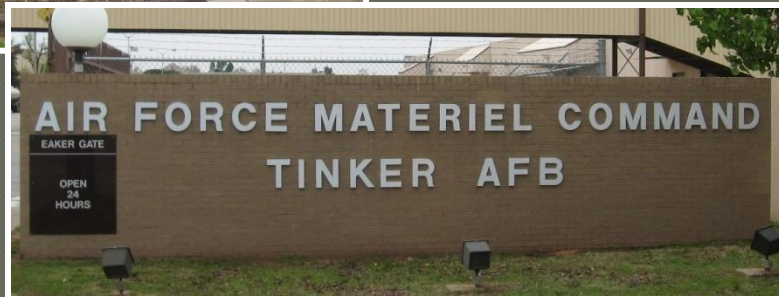
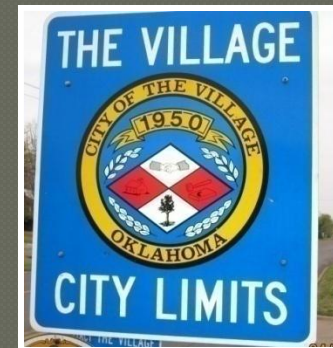


Memorandums of Understanding

- The Storm Water Quality Management Division contracts with Phase II cities, to do aspects of their required permit obligations with the Oklahoma Department of Environmental Quality.
- Bethany, Edmond, El Reno, Moore, Shawnee, Tinker AFB, Village, Warr Acres, and Yukon



CITY OF BETHANY
OKLAHOMA



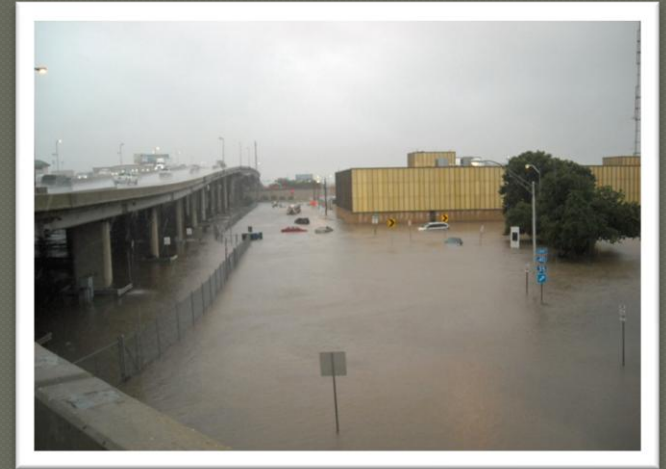
Co-Permittee Agreements

- Coordinate and manage contractual services for the Oklahoma Department of Transportation and the Oklahoma Turnpike Authority who have 260 miles of highways included in the Oklahoma City Storm Water Permit.



2010 Headlines

- January 28th Major Snow Storm
- May 10th Multiple Tornadoes
- May 16th Major Hail Storm
- June 13th Flood
- July 8th Flood



The "Oklahoma Standard" was born in the aftermath of the Oklahoma City Bombing. In April 1995, Oklahomans dropped everything to assist their friends and neighbors, coworkers and strangers. The response following the blast can only be described as amazing. First responders from across the state and nation converged in downtown Oklahoma City to rescue the living and then honorably recover the victims. The "Oklahoma Standard" continues to be the benchmark against which all efforts are measured. It is a high standard we expect to meet and Oklahomans are always up to the challenge. In 2010 Oklahomans were given several more opportunities to carry on the tradition of the "Oklahoma Standard".



SWQ Assistance

- ◉ Presidential Disaster Declaration
- ◉ FEMA Assistance
- ◉ Preliminary Disaster Assessments
- ◉ Monitor Debris Removal
- ◉ Monitor Debris Disposal
- ◉ Pick-up and Dispose HHW



Household Hazardous Waste from 2010 Flood Events



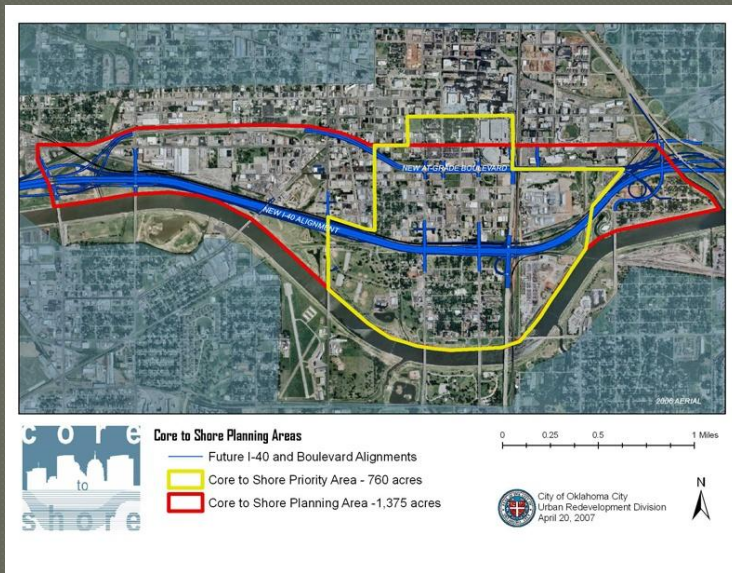
OKC Projects

I-40 Re-alignment



50 story Devon Tower





Thank You

Raymond Melton

City of Oklahoma City

Environmental Protection Manager

(405) 297-1774

raymond.melton@okc.gov

www.okc.gov/pw/swq/storm.html

