

WASTEWATER FUND



Norman Utilities Authority

March 2010

Wastewater Treatment

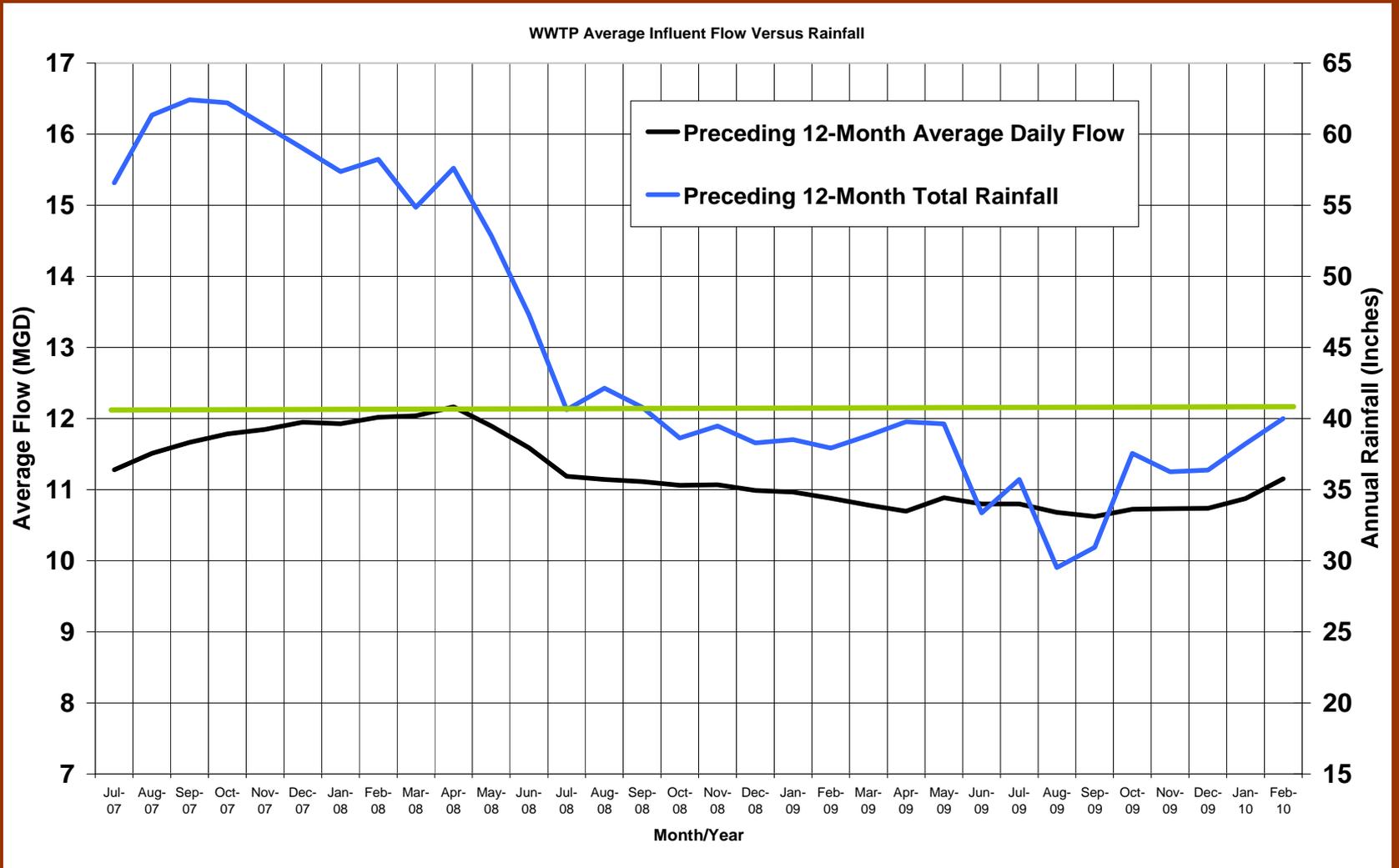
24/7 Operation

11 MGD

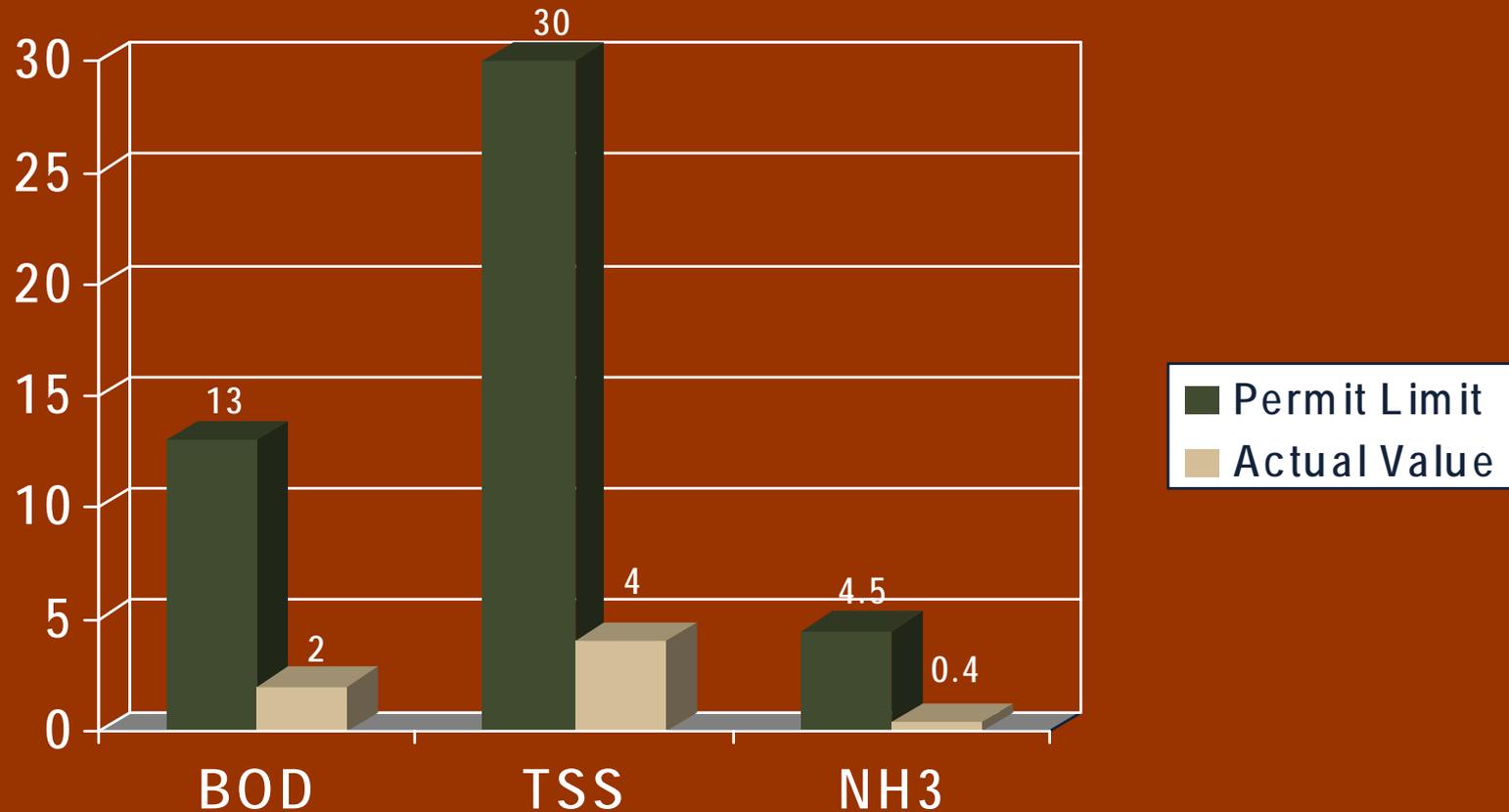
- Primary
- Secondary
- Anaerobic Digestion
- Laboratory



Wastewater Influent Flows

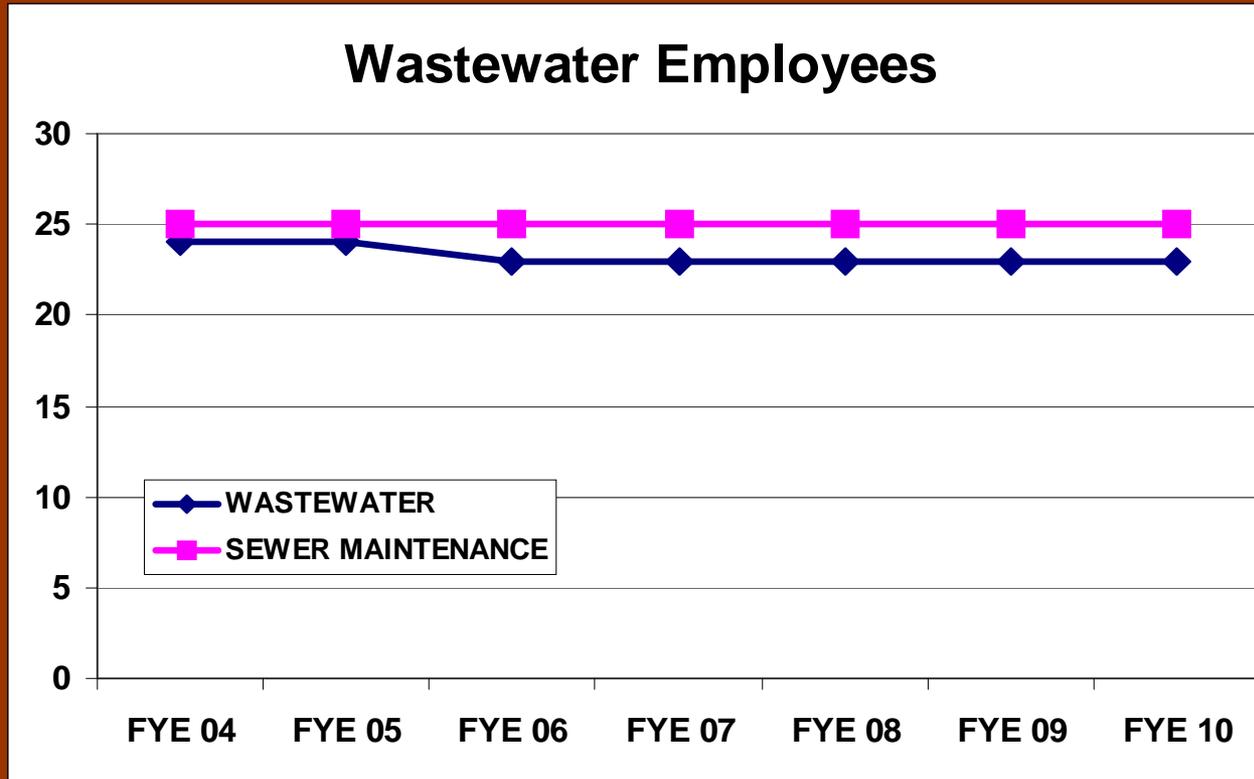


Wastewater Treatment Plant Excellent Results



All Permit parameters at 98 to 99 % removal

Wastewater Employees



WWTP Construction

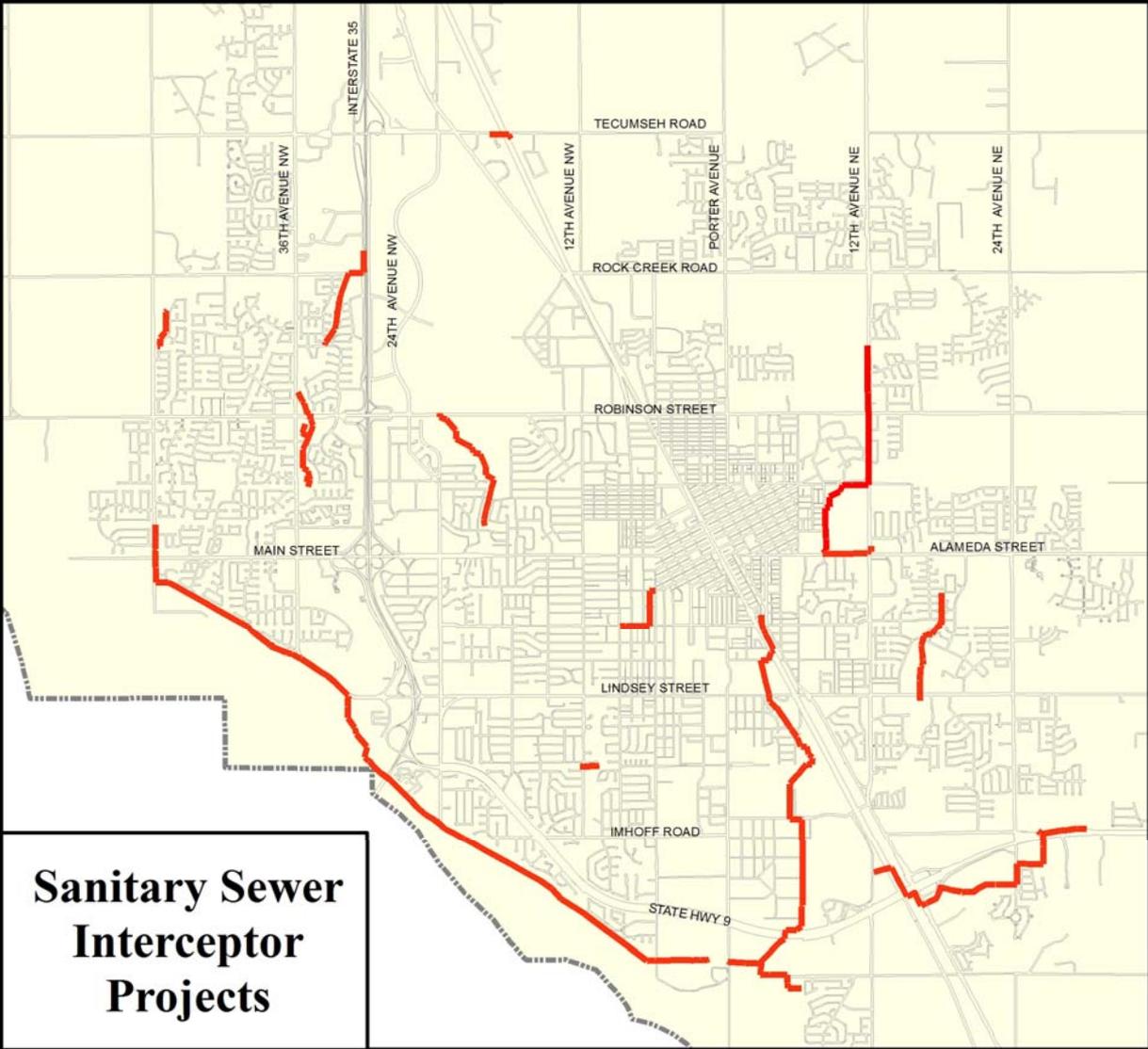
- West Side LS (2004) \$ 2.5 mil
- Headworks (2005) \$ 3.9 mil
- » Total \$ 6.4 mil (\$2.5 grant)

- Sludge Project (2009) \$ 6.5 mil (\$1.5 grant)

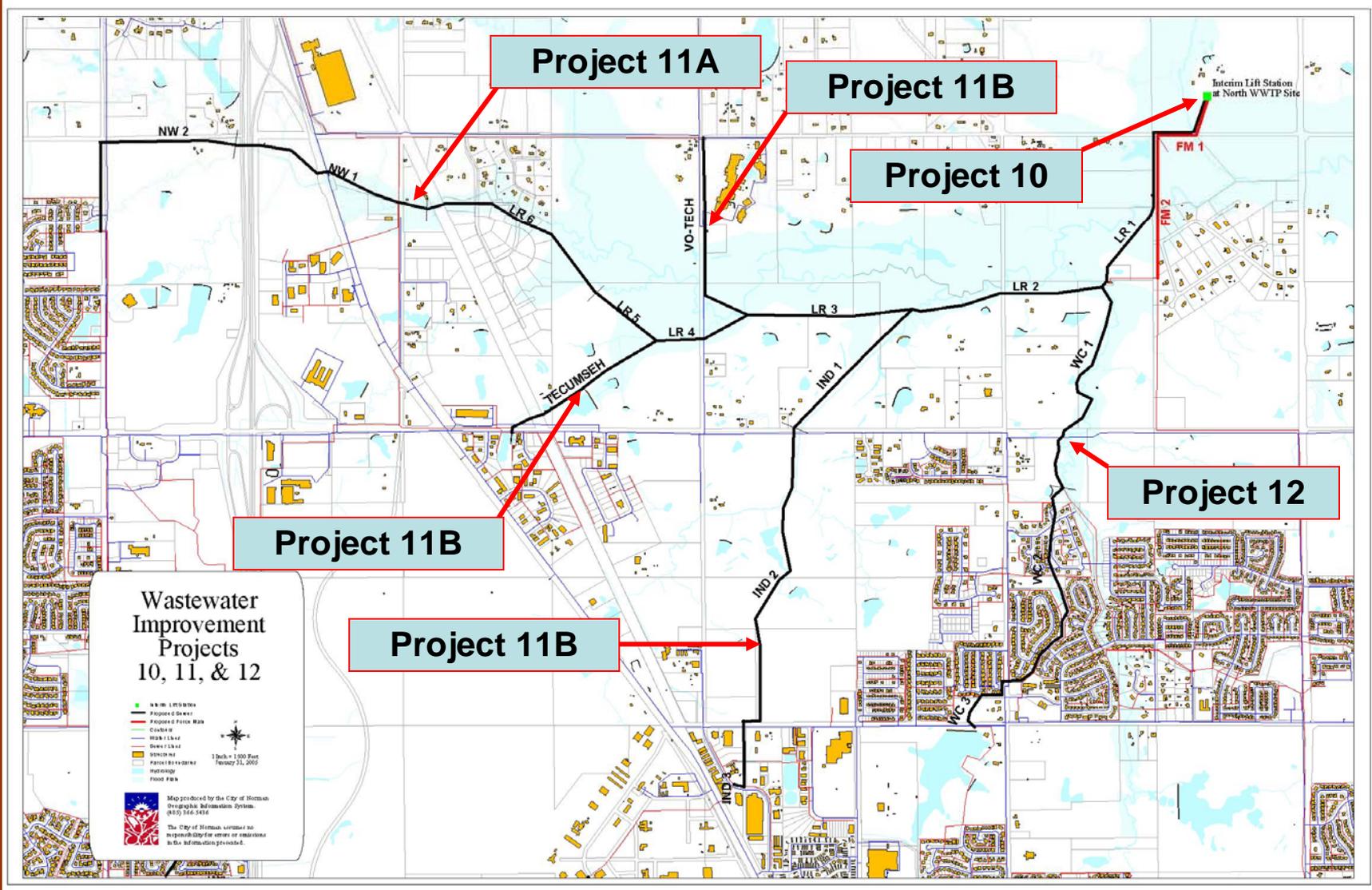
Headworks Lift Station Sludge Improvements



Interceptor Projects



North Interceptors



Interceptor installations and cost

	Total Feet	Completion Date	Total Estimated Cost
Normandy Interceptor	5,402	03/11/03	645,000
SE Bishop Phase 1	2,327	04/13/04	413,000
Bishop/Imhoff Interceptors	9,861	05/10/05	1,051,000
Brookhaven Interceptor	11,744	10/01/06	2,325,000
Upper Westside Interceptor	10,946	11/24/06	3,331,000
SE Bishop Phase 2A	1,558	01/26/07	1,220,000
Lower Bishop Interceptor	8,070	10/09/07	3,403,000
Lower Westside Interceptor	16,020	12/17/07	5,266,000
Upper Bishop Interceptor	7,697	02/04/08	2,246,000
NE Bishop Interceptor	9,198	08/15/08	1,598,000
Little River Interceptor Phase 2	7,534	01/21/09	1,237,000
Industrial Interceptor	9,881	06/05/09	1,169,000
Lift Station D Force Main	3,490	08/05/09	542,000
Little River Interceptor Phase 3	8,450	08/12/10	1,540,000
Northwest Interceptor	6,200	08/12/10	826,000
SE Bishop Phase 2B			2,480,000
Woodcrest Interceptor			1,860,000
	118,378		31,152,000

Lift Station D rehabilitation

Project Cost

\$6.6 mil

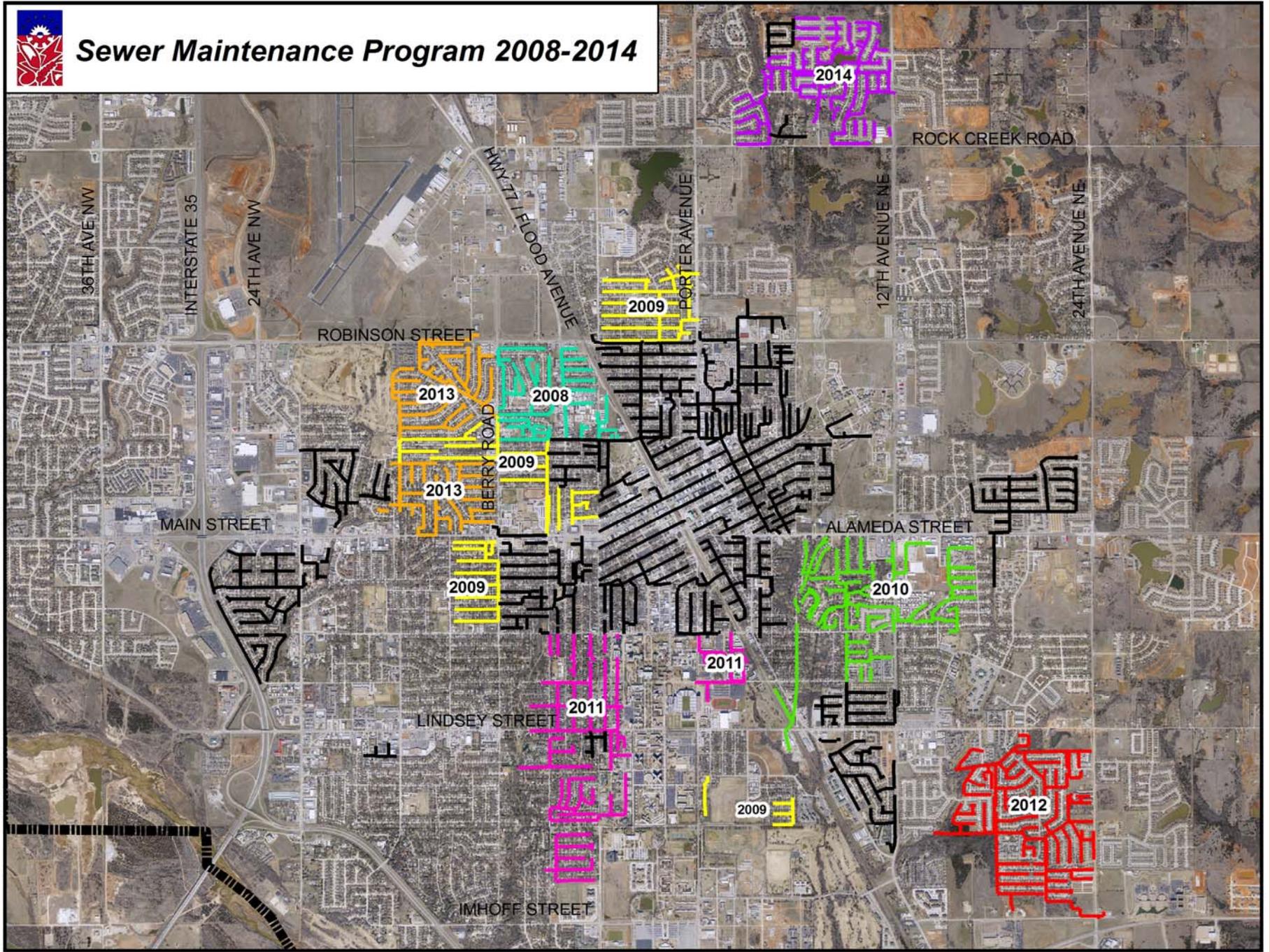
(1.3) mil Grant

Sewer Maintenance Fund

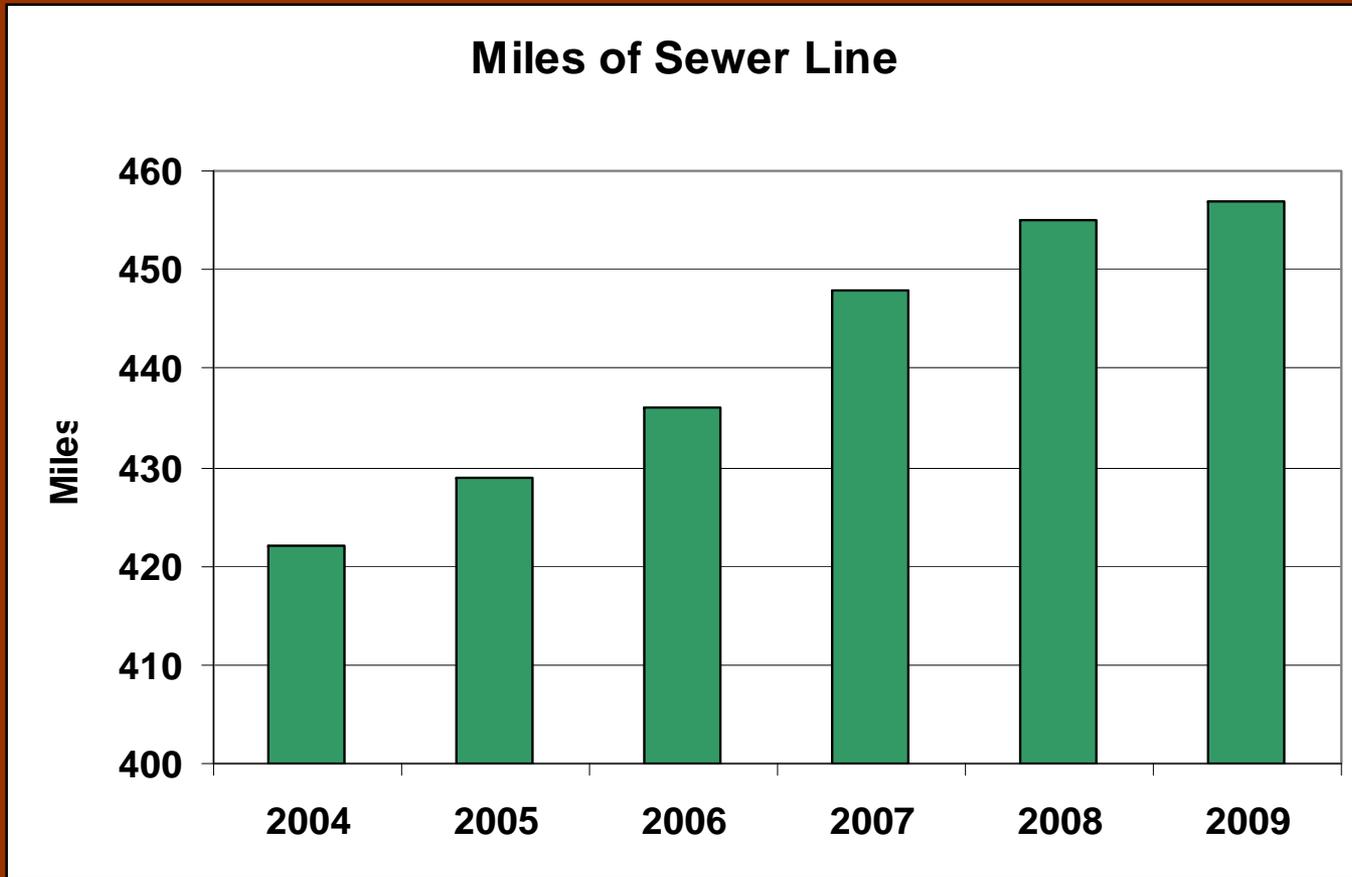
- Main source of revenues is from a \$5 per month sewer maintenance rate and the \$.50 per month Capital Improvement Charge
- Major projects
 - \$2,700,000 in replacement of sewer lines
 - All Sewer Maintenance Rate projects must be on a pay-as-you-go basis



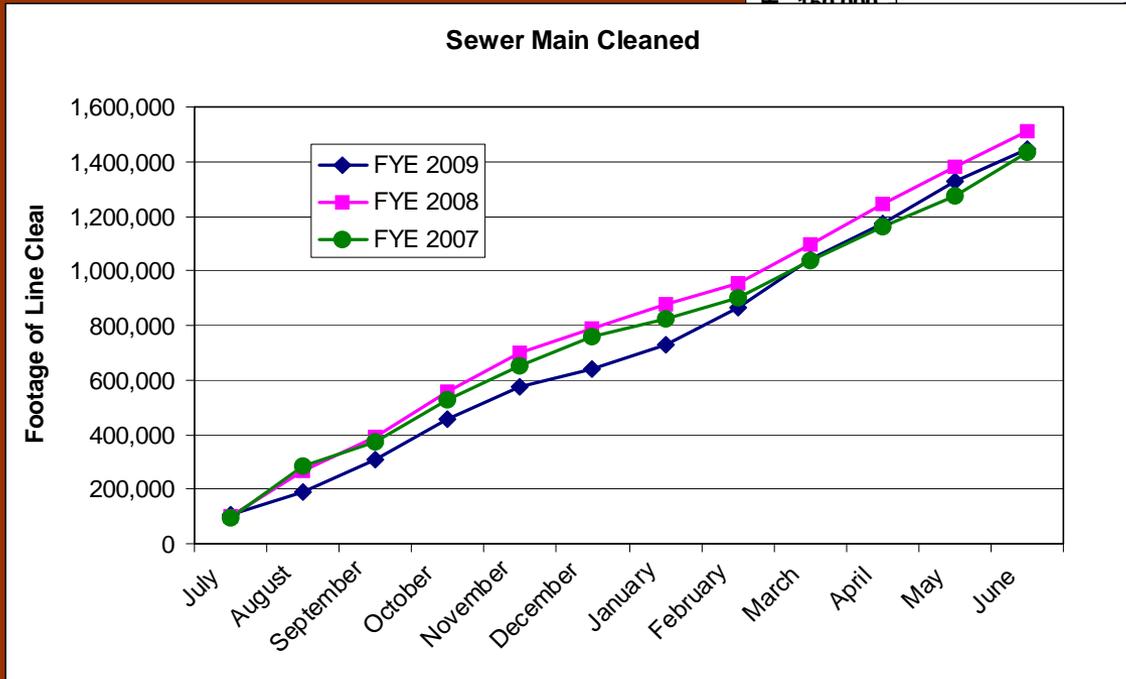
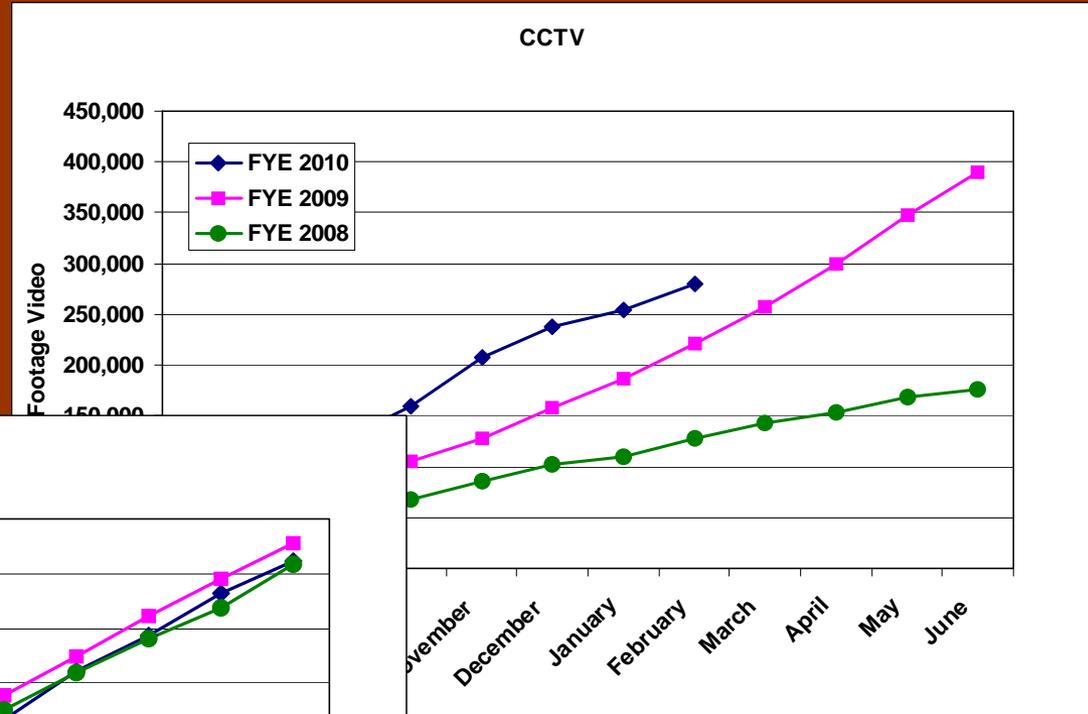
Sewer Maintenance Program 2008-2014



Line Maintenance



Sewer Line Maintenance

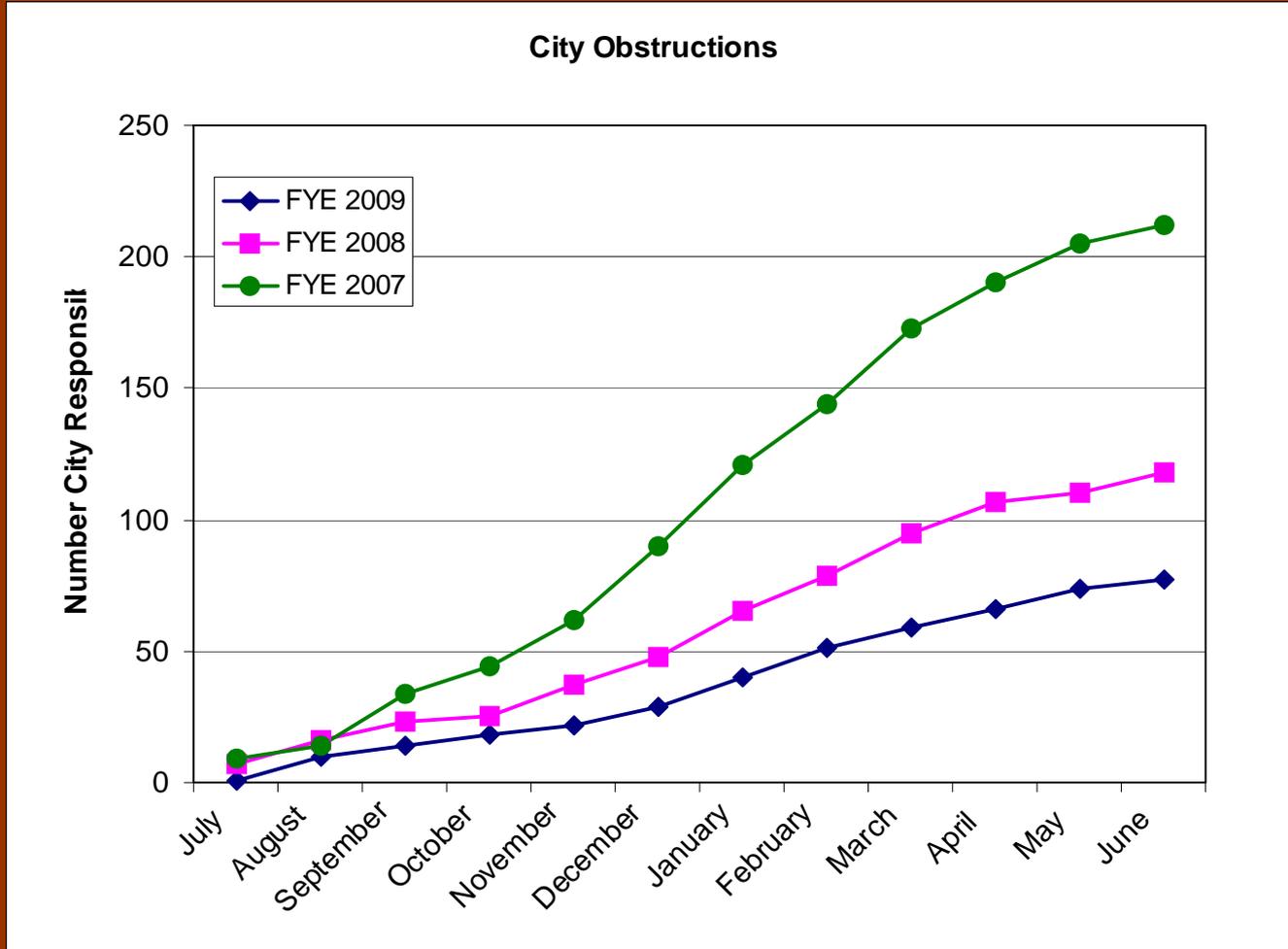


Environmental Services

- FOG Program
(Fats, Oils, and Grease)
- Eliminates over 200,000 gallons of grease annually



Sewer Line Maintenance



Wastewater Reuse System

Installed
Summer 2009

Avg. savings of
7 MG/Month



DOE Grant Project

Norman competed for and won a \$1 million grant from the Department of Energy

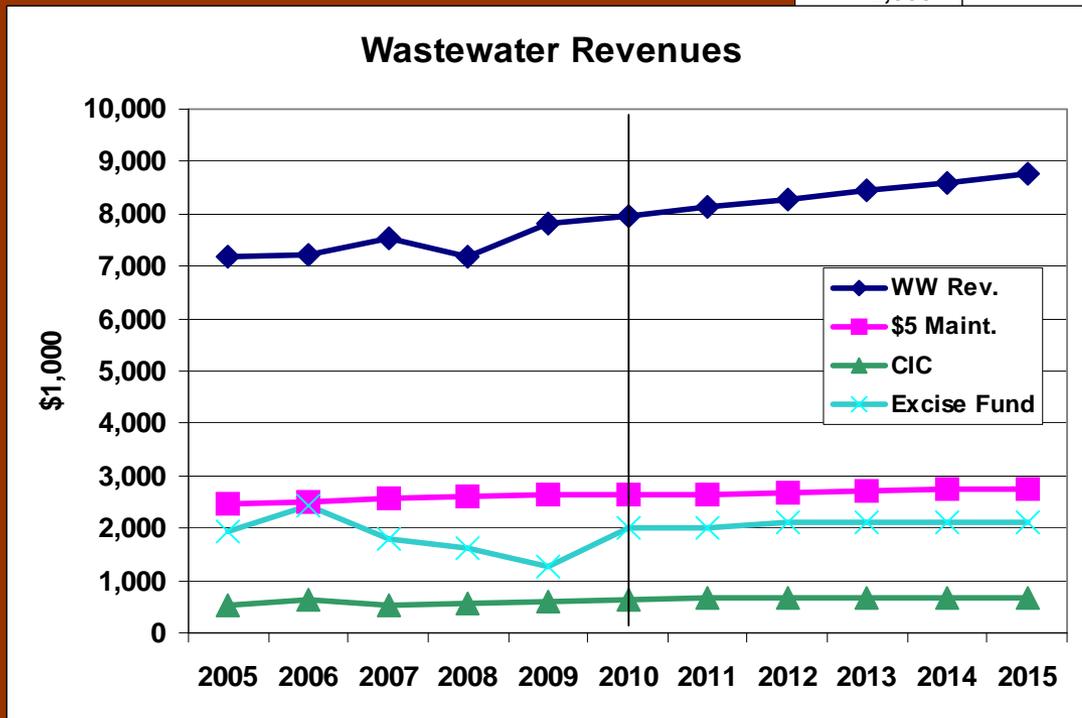
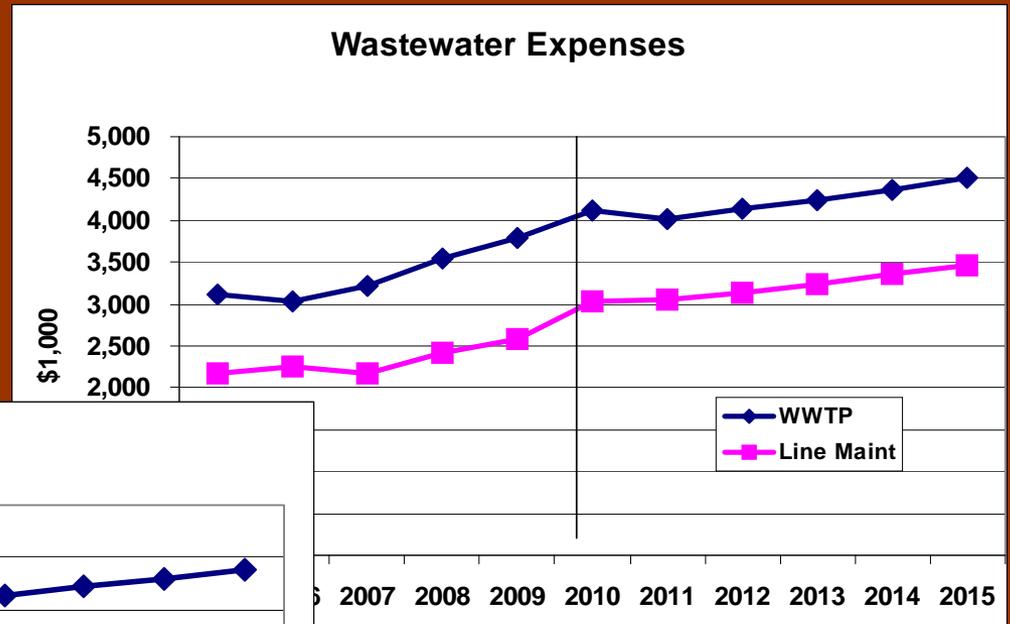


•Digester Boiler

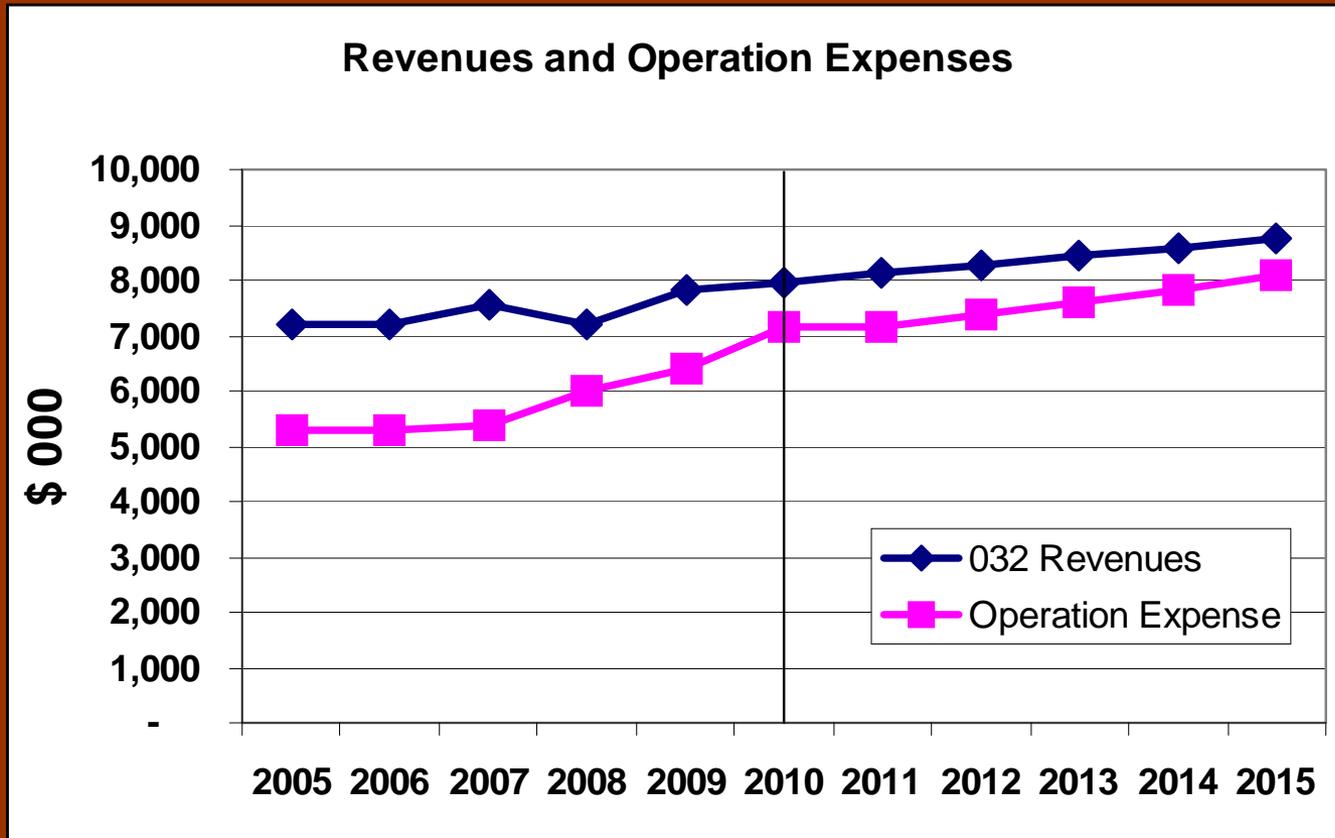


•Blower VFD

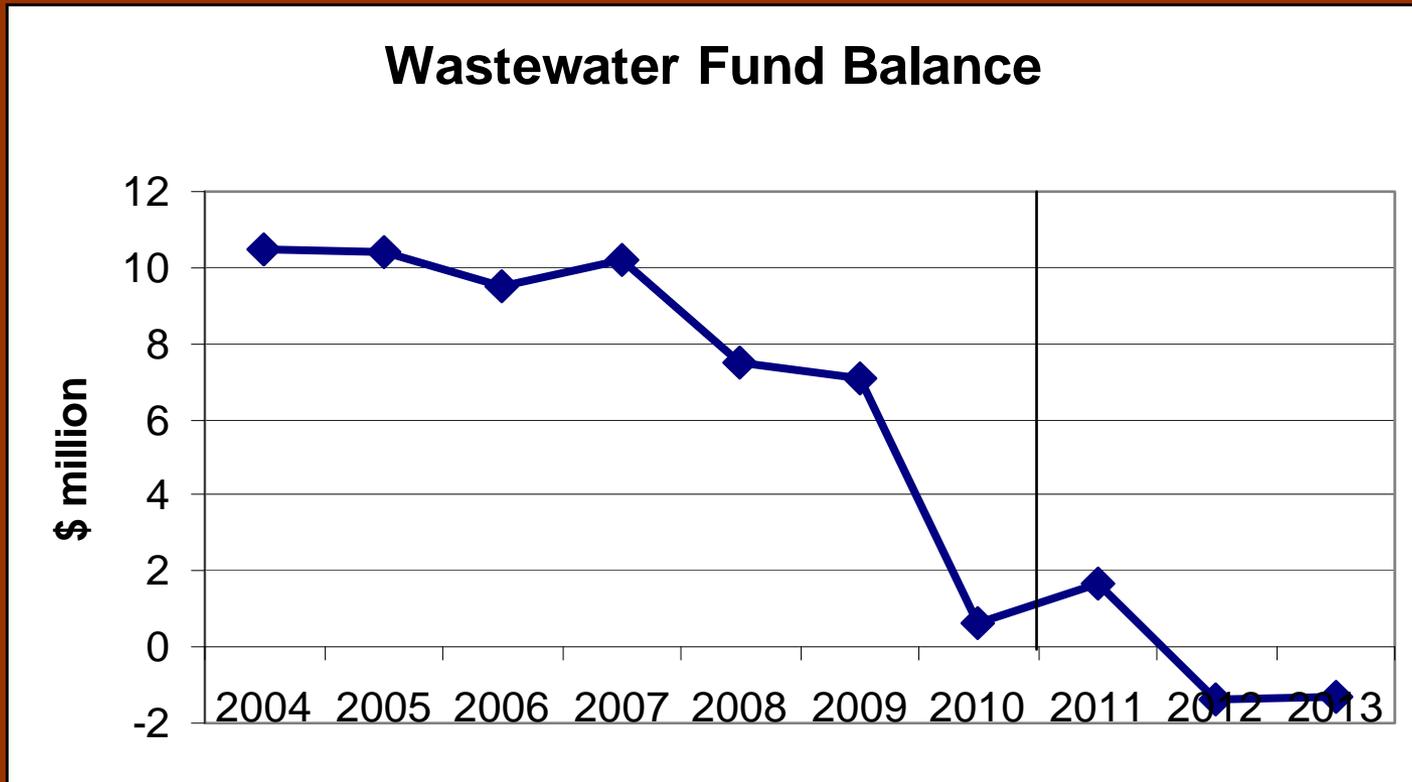
Wastewater Expenses



Wastewater Revenues and Operations Expense



Wastewater Fund Balance



Future Capital Additions

- Phase II WWTP improvements
 - Disinfection
 - Post aeration
 - Additional aeration basin
 - Primary clarifier
 - Influent parshall flume
- Gas storage sphere
- Effluent reuse system

SEWER SALES TAX FUND

- A temporary ½ cent sales tax implemented on October 1, 2001 and ended September 30, 2006
- Final disbursement of remaining funds for WWTP phase II improvements

NEW DEVELOPMENT EXCISE TAX FUND

- Main source of revenues is from new construction project building permits based on square footage.
- Design of South Canadian WWTP Expansion planned in FYE 2011;
Construction planned in FYE 2012

Wastewater Fund Revenue

- User charge rate adjusted Nov. 1996. Current rates are \$3.90 base + \$1.60 per 1,000 gallons of treated wastewater.
- Sewer Maintenance fee Oct. 2001
- Excise Tax initiated Oct. 2001

Wastewater Rates

Residential Wastewater Monthly charge for 10,000 gallons

