

As communities in Northwest Arkansas, the state of Arkansas and the surrounding region continue to grow increased demand is placed on wastewater collection and treatment systems and associated processes. The ability to keep pace with that demand, expand collection and treatment systems and plan for future growth is key to the viability of any community or municipality.

McGoodwin Williams & Yates has been providing facility planning for six decades, serving most of the municipalities in Northwest Arkansas and many throughout the state and surrounding region. With detailed knowledge of collection and treatment systems as well as decades of experience in planning and design, MWY is recognized by its clients as well as local and state agencies for providing outstanding service and comprehensive, quality planning and reporting.

MWY has extensive experience in wastewater facilities planning including wastewater treatment plants, collection system improvements, lift stations, and sanitary sewer system infiltration/ inflow studies and rehabilitation. Where state Revolving Loan Funds (RLF) are the selected method of financing for the recommended improvements, MWY has assisted the cities in the preparation of RLF program application documents, and has the necessary provided design and construction management services.

The following is a brief description of several of our past planning projects that have been completed in Arkansas and Oklahoma.



WASTEWATER FACILITY PLANNING

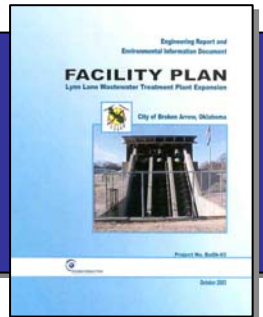
Report: *Preliminary Engineering Report*
Scope: Report for Expansion of Wastewater Treatment Plant
Contact: Larry Oelrich, Assistant Administrator
 City of Prairie Grove
 P. O. Box 255
 Prairie Grove, Arkansas 72753
 PH: 479-846-2961



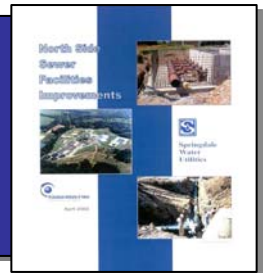
Report: *Facility Plan Amendment*
Scope: Facility Plan Amendment and EID
Contact: David Jurgens
 Water and Wastewater Director
 125 West Mountain
 Fayetteville, Arkansas 72701
 PH: 479-575-8318



Report: *Engineering Report and Environmental Information Document*
Scope: Facility Plan, Engineering Report & EID
Contact: Jeff Westfall, P.E.
 City of Broken Arrow, Oklahoma
 P. O. Box 610
 Broken Arrow, Oklahoma 74013
 PH: 918-259-8414



Report: *North Side Sewer Facilities Improvements*
Scope: Preliminary Design Study & Environmental Analysis
Contact: Rene Langston, Executive Director
 Springdale Water Utilities
 P. O. Box 769
 Springdale, Arkansas 72765-0769
 PH: 479-751-5751



Report: *Preliminary Engineering Report*
Scope: Preliminary Engineering Report for Future Growth of Sewer Facilities
Contact: Kevin Crosson
 Holiday Island Suburban Improvements District
 110 Woodsdale Drive
 Holiday Island, Arkansas 72631
 PH: 479-253-9700



PRELIMINARY ENGINEERING REPORT

Prairie Grove, Arkansas

CLIENT:

City of Prairie Grove, Arkansas

PROJECT SCOPE:

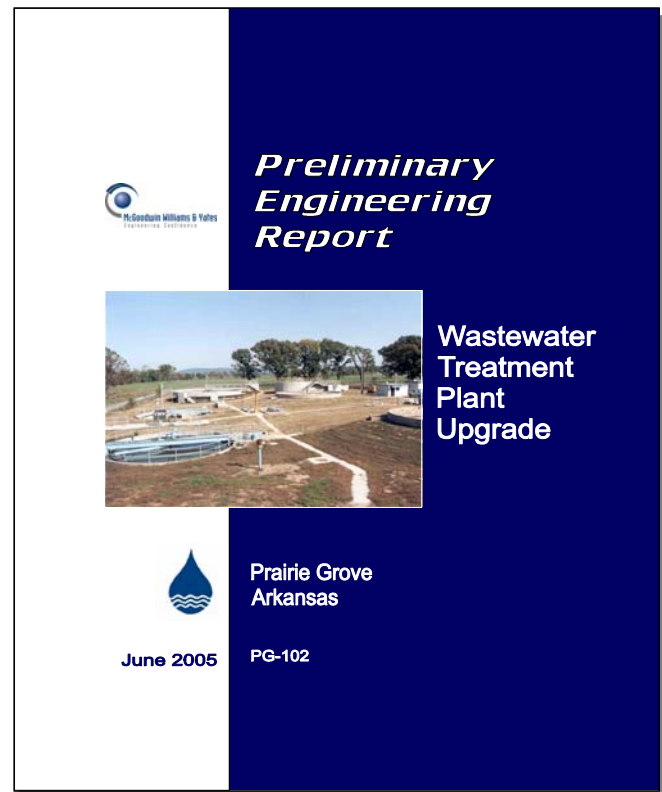
Preparation of Preliminary Engineering Report for expansion of the Prairie Grove Wastewater Treatment Plant

COMPLETION:

June 2005

CONTACT PERSON:

Larry Oelrich
Assistant Administrator
City of Prairie Grove
P. O. Box 255
208 E. Cleveland
Prairie Grove, Arkansas 72753
PH: 479-846-2961



PROJECT DESCRIPTION:

The city of Prairie Grove is experiencing rapid growth that is projected to exceed the capacity of its existing wastewater treatment facility within a few years. In addition, the city's treatment plant is facing a new requirement for phosphorus removal, as well as new restrictions on the land application of sludge.

The Preliminary Engineering Report (P.E.R.) analyzes current and projected population figures and wastewater flow rates. Population forecasts show the Prairie Grove sewered population to increase from 3,100 in 2004 to over 8,000 by 2009.

The P.E.R. evaluated alternative wastewater treatment systems which will handle the increased flow from this rapidly growing population. The recommended treatment process will utilize biological phosphorus removal, and aerobic sludge digestion. A new belt filter press is recommended so the city will have more options for sludge disposal in the future.

Due to the rapid growth, expected to occur into the foreseeable future, the recommended treatment facilities will be constructed so the plant can be easily expanded as the growth occurs.

FAYETTEVILLE FACILITY PLAN AMENDMENT

Fayetteville, Arkansas

CLIENT:

City of Fayetteville, Arkansas

PROJECT SCOPE:

Facility Plan Amendment

COMPLETION:

August 2001

CONTACT PERSON:

David Jurgens

Water and Wastewater Director

125 West Mountain

Fayetteville, Arkansas 72701

PH: 479-575-8318



PROJECT DESCRIPTION:

In August 2001, MWY submitted an amendment of the city of Fayetteville's *Facility Plan* to Arkansas Soil and Water Conservation Commission and the Arkansas Department of Environmental Quality (ADEQ). This amendment included specific recommendations as to the type of facility to be constructed for a new wastewater treatment plant under the "split flow" alternative previously selected by the city. Under the "split flow" alternative approximately 50 percent of the wastewater generated within the city would be treated at a new plant located on a tributary to the Illinois River. The remainder of the flow would be treated at the existing facility thereby extending the useful life of the facility. An innovative biosolids disposal method to dispose of the biosolids through a municipal/ commercial enterprise was also recommended. The complete *Facility Plan* and *Environmental Information Document* were approved by the state of Arkansas, and the city will be utilizing State Revolving Loan Funds to finance the new \$41 million facility. The facility plan also sets forth recommendations for upgrades to the existing treatment facility and interceptor sewers for a total project cost of \$125 million.

CLIENT:

City of Broken Arrow, Oklahoma

PROJECT SCOPE:

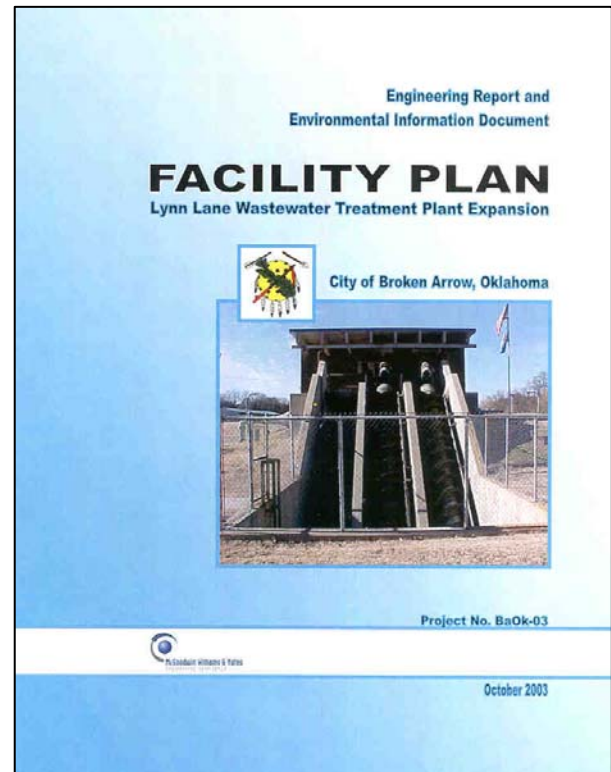
Facility Plan, Engineering Report and Environmental Information Document

COMPLETION:

August 2003

CONTACT PERSON:

Mr. Jeff Westfall, P. E.
City of Broken Arrow, Oklahoma
P. O. Box 610
Broken Arrow, Oklahoma 74013
PH: 918-259-8414



PROJECT DESCRIPTION:

The Facility Plan for Broken Arrow, Oklahoma is a comprehensive, long-range wastewater treatment master plan for the city, one of the fastest-growing cities in Oklahoma. The facility plan study utilized G.I.S. land use data, both current and projected, to determine future wastewater flows in the different watersheds in the planning area. The portion of these future wastewater flows, which would likely be treated at the city's Lynn Lane Wastewater Treatment Plant, was used to evaluate alternative wastewater treatment systems. The recommended facilities to serve the city's 20-year growth needs are set out in the report, as well as a planned expansion of the facilities to treat the flows resulting from the ultimate buildout of the residential, commercial and industrial lands within each watershed.

In addition, the facility plan contains an Environmental Information Document (E.I.D.) which addresses the social, environmental, and economic impacts of the recommended alternative. The E.I.D. and engineering report which comprise the facility plan were prepared in accordance with guidelines set out by the Oklahoma funding agencies for use of the Arkansas Revolving Fund Loan Program.

NORTH SIDE SEWER FACILITIES IMPROVEMENTS

Springdale, Arkansas

CLIENT:

Springdale Water Utilities
Springdale, Arkansas

PROJECT SCOPE:

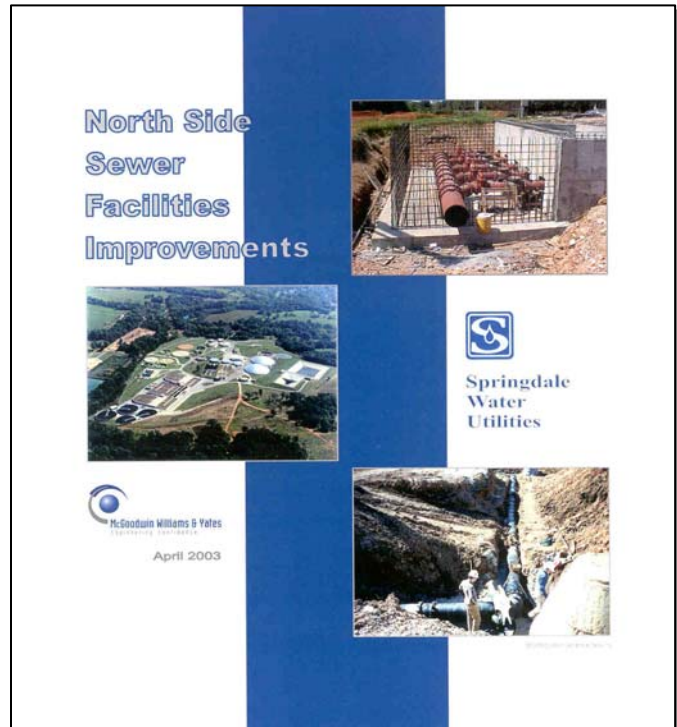
Preliminary Design Study and Preliminary
Environmental Analysis

COMPLETION:

April 2003

CONTACT PERSON:

Mr. Rene Langston
Executive Director
Springdale Water Utilities
P. O. Box 769
Springdale, Arkansas 72765-0769
PH: 479-751-5751



PROJECT DESCRIPTION:

This report presented the results of preliminary design study for sewer facilities required to transport wastewater to the proposed Benton Farm Pump Station from the Lowell Lift Station, the Har-Ber Meadows Lift Station, the Paul McGuire Lift Station, the Pine Woods Lift Station, the Vineyards Lift Station, the Stultz Road Lift Station, the Del's Woods Lift Station and other areas. The scope of work included a determination of existing and projected population, existing and projected sewer flows, routing and sizing of interceptor sewers, and a preliminary design of the proposed Benton Farm Lift Station. The scope also included a preliminary environmental analysis of the sewer line routes and a determination of the estimated probable cost of the improvements. Additional work involved the determination of cost sharing between Springdale and Lowell and an analysis of sewer needs for Lowell in the recently annexed area west of I-540.

PRELIMINARY ENGINEERING REPORT
Holiday Island Suburban Improvement District

CLIENT:

Holiday Island Suburban Improvement District

PROJECT SCOPE:

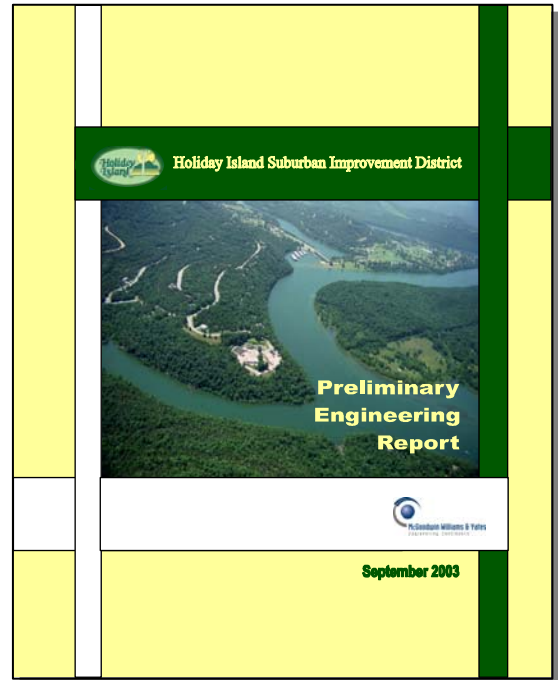
Preliminary Engineering Report

COMPLETION:

September 2003

CONTACT PERSON:

Mr. Kevin Crosson
Holiday Island Suburban Improvement District
110 Woodsdale Drive
Holiday Island, Arkansas 72631
PH: 479-253-9700



PROJECT DESCRIPTION:

This report presented the results of the preliminary design study for the 20-year master plan for improvements and additions to the existing wastewater treatment plant for Holiday Island Suburban Improvements District No. 1. In addition, this report contains a general assessment of the wastewater collection system and recommendations for a sewer rehabilitation program. The scope of work included a determination of existing and projected population, existing and projected sewer flows, an infiltration and inflow study for the existing collection system, an assessment of the existing wastewater treatment facility, and an analysis of the treatment options, that provide advanced nutrient removal, for the next 20 years. In addition, this report contains the conceptual design for the expansion of the wastewater treatment facility that is currently in the detailed design phase.