PDG provided design, construction engineering and construction observation for the installation of sanitary sewers, a pump station and a package WWTP for the unsewered rural community of Good Hope in southeastern Fayette County.

**Project Elements**
- 7,700 lineal feet of 8” gravity sanitary sewer
- 75 GPM package submersible pump station
- 32,000 GPD package wastewater treatment plant
- Trash trap, flow equalization, aeration tanks, two clarifiers, sludge holding, a fixed media tank and 1,350 square feet of surface sand filters and appurtenances
- Stand-by power to run the WWTP and pump station
- 525 lineal feet of 4” force main
- 29 manholes ranging in depth of 7 to 21 vertical feet
- 4,000 lineal feet of 6” sanitary service laterals to right-of-way serving 100 individual users.

**Location**
- Good Hope, Ohio

**Services Provided**
- Environmental and Electrical Engineering

**Project Cost**
- $2 Million

**Size**
- 47,910 sq.ft

**Schedule**
- Completed: October 2012

**Project Team**
- Michael Atherine, Project Manager
- Denise M. Plummer, P.E.
- Neal R. Materni
- Greg N. Chipps

**Reference**
- Steven G. Luebbe, P.E., P.S.
  Fayette County Engineer
  1600 Robinson Road
  Washington Court House, Ohio 43160
  740.335.1541
PDG provided engineering, design, and rate development for the creation of the regional district and continues to work with the District to provide project funding, design and construction administration as they expand services throughout the area. Described are examples of wastewater projects completed for the District since its organization.

**WASTEWATER TREATMENT**

**McComb WWTP**

PDG provided design and will provide construction engineering for the installation of a new oxidation ditch WWTP in McComb to eliminate their plant bypass and meet their new NPDES permit limits. The average daily design flow will remain 0.388 mgd, however the peak flow will be increased to 1.5 mgd. The WWTP is owned and operated by the Northwestern Water & Sewer District.

**Project Elements**

- Oxidation ditch WWTP including a raw water pump building (includes a screen), oxidation ditch, 2 final settling tanks with launder covers, a RAS/WAS pump station, UV disinfection, post aeration tank, aerobic digestion system, sludge drying beds, auxiliary power and an administration building.
- The peak flow is high due to inflow and infiltration. To try and reduce the I&I, the project is also including rehabilitation (combination of lining, grouting and pipe bursting) to approximately 5000 LF of sewers constructed in 1935 ranging in size from 8” to 12”.

**Engineers Estimate**

- Contract A (WWTP) $5,816,000
- Contract B (Sewer Rehabilitation) $577,500

**Schedule**

- Estimated completion date – June 2018

**Funding Sources**

- USDA - RD

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In 1991, the County of Wood, Ohio, together with five municipalities and 14 townships, petitioned the Court of Common Pleas of Wood County for the establishment of a regional water and sewer district under Chapter 6119, Ohio Revised Code, to assume ownership and operation of the water and sewer facilities owned and operated by the County. The Court created the District on May 18, 1992 and approved a formal plan of operation on September 29, 1993. The District is currently comprised of 9 municipalities and 20 townships.
Bairdstown Sanitary Sewer and Bloomdale WWTP
PDG provided design and construction engineering for the installation of sanitary sewers, 2 pump stations and a new oxidation ditch WWTP in Bloomdale that would be able to handle Bloomdale’s existing flow and add the flow from the unsewered community of Bairdstown.

**Project Elements:**
- 6800 LF of 8” gravity sanitary sewer
- 27 manholes
- 15,500 LF of 4” force main, including 2 railroad crossings
- Two (2) 90 gpm submersible pump stations
- 100,000 gpd oxidation ditch WWTP including a screening building, oxidation ditch, 2 clarifiers, sludge holding tank, sludge drying bed and an administration building.

**Engineers Estimate**
- Contract A (gravity sewers, pump stations and force main) $2,216,000
- Contract B (WWTP) $3,674,000

**Bid Amounts**
- Contract A $1,985,438
- Contract B $3,020,000

**Schedule**
- Estimated completion date – October 31, 2017

**Funding Sources**
- OEPA – WPCLF Principal Forgiveness ($3.49 M)
- CDBG
- OWDA Unsewered Communities Grant

SANITARY SEWER DESIGN AND PERMITTING

**U.S. Route 20 Sanitary Sewer Replacement**
This project was the first of three phases for improving capacities for the District. The use of new technologies, Pilot- Tube-Micro-Tunnel (PTMT), allowed only four access pits to disturb existing surface conditions. At a depth of 25-28 feet, the 1,500 lineal feet of 15-inch gravity sanitary sewer was constructed on grade.

**Project Cost**
- $550,000

**Completed**
- 2007

**West Millgrove Sanitary Sewers**
PDG provided professional engineering services for the design and construction of the West Millgrove Sanitary Sewer System. West Millgrove is a Village in Wood County, Ohio. The owner of this project was the Northwestern Water & Sewer District.

This project provided sewer for an EPA ordered area within the Village of West Millgrove. The system installed was a traditional gravity sanitary sewer system with a local pump station which included a small percentage of low pressure sewer. The project was constructed to service 119 homes. The sewage from the new pump station is pumped approximately 5 miles via a new 6” diameter force main to a regional treatment plant in the neighboring Village of Rising Sun. Residents along the route of the force main were connected to the system via individual grinder pumps.

**Project Cost**
- $1.8 million

**Completed**
- 2009

Wastewater Collection System Improvements
**Walbridge, Ohio**
Prime consultant for the design and construction of wastewater collection system consisting of six miles of gravity and interceptor sewers ranging in diameter from eight to 27 inches. Project included the replacement of existing sewers and an overloaded regional pumping station.
Ford Road Force Main Replacement
The Ford Road force main project consisted of replacing the existing 12-inch asbestos-concrete pipe with new 16-inch PVC. The force main extended 8,900 lineal feet across the City of Perrysburg, Ohio, Wood County. New technology using fusible PVC pipe for the 5,400 lineal feet of horizontal directional drilling was installed. This project was Phase II of III for improving capacities for the District.

Project Cost
- $3.1 million

Completed
- 2008

WASTEWATER PUMP STATION DESIGN
5 mgd Capacity or Larger

Rossford Jennings Road Pump Station
PDG provided engineering design to increase the capacity of the Jennings Road Pump Station to handle wet weather flow and eliminate overflows to the Maumee River.
The existing station was a below grade wet well/dry well pump station with two 300 gpm pumps. PDG performed flow monitoring to determine the capacity of the proposed pump station. The average dry weather flows are about 700 gpm and the wet weather flow can be upward of 2000 gpm.

The new submersible pump station includes:
- Three 1250 gpm submersible pumps with VFD’s
- A 15’ x 11’ x 16’ deep cast in place wet well
- A 15’ x 19’ precast concrete building, assembled on site
- Relocating the telemetry antennae from the existing pump station and adding new telemetry panels and SCADA system
- Installation of a 125 KW standby power generator with diesel engine

Project Cost
- Engineer’s Estimate $1,013,000
- Bid Amount $643,946

Project Funding
- EPA/WPCLF

Schedule
- Completion Anticipated December, 2014

Project Team
- Denise M. Plummer, P.E., Project Manager
- Dan Knott, P.E., Electrical Engineer

WASTEWATER GRINDER DESIGN

Latcha Sanitary Pump Station
Renovation of an existing pump station by replacement of two manual screens with an electric grinder and rotating screen.

Engineer’s Estimate
- $200,000

MANHOLE AND SEWER REHABILITATION DESIGN

Northwood Homecraft Sanitary Lateral Rehabilitation
This project consisted of lining sanitary sewer laterals from the public main up to within 5’ of the residence home to seal off inflow and infiltration into the sewer mains. New sanitary clean-outs were also installed on each lateral via hydro-excavation.

Project Cost
- Engineers Estimate: $500,000
- Bid Amount: $ 467,343

Rossford General I&I Removal
This project consisted of CIPP lining of 8” – 18” sanitary sewers, removing hammer taps and grouting of main to wye interfaces. Also as part of this job approximately 75 brick manholes were lined with cementitious products and all adjustment rings, manhole castings and frames were replaced. Pre and Post CCTV inspection of the mains was also performed.

Project Cost
- Engineers Estimate: $ 450,000
- Bid Amount: $ 317,718.45

Rossford Colony Area Inflow and Infiltration Reduction Improvements
This project consists of replacing an aging sewer system via
pipe bursting. As part of this project approximately 7900 LF of 8” and 1000 LF of 10” Sanitary Sewers will be pipe burst with Certa-Flow PVC pipe as well as the replacement of 113 service laterals via both open-cut and pipe bursting methods. Also included in this project is the replacement of 38 brick manholes with new pre-cast concrete manholes.

**Project Cost**
- Engineers Estimate: $1,275,000
- Bid Amount: $1,213,753.50

**Rossford Tree Street Pipe Lining**
Pipe lining of approximately 3750’ of 8” and 1600’ of 10” sanitary sewers. This project also included about 19 manholes (totally 225 VF) that will be relined with cementitious products.

**Project Cost**
- Estimate $374,000

**Project Completion**
- 2014

**West Boundary Sanitary Sewer Interception**
This project entailed the lining of a 60-inch diameter sewer interceptor. Slip lining, CIPP and fold and form type repairs were allowable alternatives to complete the work. Project included significant coordination with the City of Perrysburg and the Northwestern Water and Sewer District for bypass pumping and system shutdowns. This high traffic area in Perrysburg made for a difficult construction management. Through regular meetings and significant efforts, PDG was able to see the project through to completion.

**Millbury Sanitary Lateral Relining**
The laterals in Millbury were in poor condition, allowing much infiltration. The laterals were in tight, difficult areas which did not allow for excavation and replacement of the pipe. A T-Liner process was used to reline the laterals with a CIPP liner. The liner was pulled through the service lateral from the main to a cleanout established at the right of way line.

**Village of Walbridge Sanitary Sewer and Manhole Rehabilitation, Phases 1 & 2**
Completed the design of 11,000 feet of 8 inch sanitary sewer rehabilitation by pipe bursting and pulling new 8 inch polyethylene sewers. Laterals were re-established by excavation and replacement. Manholes were repaired and rehabilitated by cementitious liner.

**Village of Walbridge Sanitary Sewer Restoration**
Completed the design of over 3,000 feet of 8 inch sanitary sewer restoration. The processes used were fold and form type liner in the existing sewer and pipe bursting with an HDPE insert. The sewer in some areas was level and in good condition structurally. The joints were in poor condition allowing for heavy infiltration of groundwater. The sewer was located in tight areas with close proximity to homes, landscaping and other utilities. The sewer was cleaned and televised and a fold and form liner was pulled into place and cured. After the liner cured, the service lateral connections were reestablished with a remote cutting tool. The joint was sealed with a chemical grout to prevent infiltration at the joint.

**Sanitary Sewer Rehabilitation - Williamsburg on the River**
A 12” diameter reinforced concrete pipe was inspected by TV camera, along with the other sewers in this subdivision. It was discovered that reinforcement bars in the pipe were exposed. The 400 LF of pipe was rehabilitated by the EX method of pipeline reconstruction using a PVC pipe installed within the existing 12” diameter reinforced concrete pipe.

**STUDIES/MASTER PLANS**
- Master Plan (Updates)
- Rate Studies
- System Development Fee Study
- Rossford Sanitary Sewer Evaluation
- Ampoint Area Sanitary Sewer Evaluation Study Sugar Ridge/Mercer Road Sanitary Sewer Study
- Huffman/Kramer Road Sewer Study
- Hoytville Wastewater Collection/Treatment Study
- Bairdstown Sewer Study
- Perrysburg Township Study
- Debt Refinancing
- Grant Applications
- General Plans
- System Development Fee Study
- Energy Improvement Projects
- Sanitary Sewer Anylysis-Henry Township
- Sanitary Sewer Anylysis-Henry Township
- Sanitary Sewer Evaluation
## PROJECT FUNDING

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*Includes 2009 ARRA Funding
PDG is contracted with the Village of Woodville to design and install sanitary sewers to separate the current combined sanitary/storm system (CSS). Sanitary flows from 988 private resident and commercial establishment connections within an approximate 270-acre area are collected in approximately 13 miles of the CSS piping. The CSS piping was originally designed as a storm water collection system typically having lower flow velocities leading to silt and solids buildup that must be regularly cleaned to alleviate sewage back ups. Most of the manholes in the CSS were not channelized which also resulted in silt/solids deposition, particularly during dry weather operation.

**Project Relevance**
- Municipal Project
- Sanitary Sewer Replacement
- Grant Administration
- Bidding Assistance
- Construction Services

**Reference**
Keith Kruse, Village Administrator
419.849.3031

**Location**
- Woodville, Ohio

**Services Provided**
- Environmental Engineering
- Grantwriting

**Cost**
- Engineer’s Estimate: $9,545,000
- Bid amount: $8,478,547
- Project Change Orders: $500,000 + $506,000 to be added for an additional pump station replacement.

**Project Funding**
- Ohio Public Works Commission $750,000
- WPCLF Loan @0% $8,525,000

**Size**
- 13 miles

**Schedule**
- Design Services 2007-2014, Phases 1-4

**Project Team**
- Douglas A. Nusser, Project Manager
- Michelle Hister, Grantwriter

**Services Provided**
- Environmental Engineering
- Grantwriting

**Location**
- Woodville, Ohio

**Cost**
- Engineer’s Estimate: $9,545,000
- Bid amount: $8,478,547
- Project Change Orders: $500,000 + $506,000 to be added for an additional pump station replacement.

**Project Funding**
- Ohio Public Works Commission $750,000
- WPCLF Loan @0% $8,525,000

**Size**
- 13 miles

**Schedule**
- Design Services 2007-2014, Phases 1-4

**Project Team**
- Douglas A. Nusser, Project Manager
- Michelle Hister, Grantwriter
The separation project will eliminate 16 combined sewer overflows to the Portage River and include the benefit of treating all sanitary flows while alleviating storm water flows to the WWTP facility. The probable project cost for all three phases is projected to be $10,250,000.

Phase 1 improvements are primarily north of U.S. Route 20 and west of the Portage River and included the construction of approximately 14,095 lineal feet of ten-inch (10") diameter gravity sewers, 1,360 lineal feet of eight-inch (8") diameter gravity sewers, 46 manholes, 409 sanitary sewer lateral connections, disconnection of four CSOs, and restoration for the entire project area.

Phase 2 and Phase 3 improvements are primarily south of U.S. Route 20 and include the construction of approximately 1,771 lineal feet of twelve-inch (12") diameter gravity sewers, 20,184 lineal feet of ten-inch (10") diameter gravity sewers, 1,445 lineal feet of eight-inch (8") diameter gravity sewer, 71 manholes, 571 sanitary sewer lateral connections, disconnection of twelve CSOs, and restoration for the entire project area.

The replacement of the existing CSS with a separated sanitary sewer and storm sewer system will provide benefits to Woodville residents and businesses including:

- Remove sanitary sewer flows from the combined sewer, which will increase its storm water flow capacity and alleviate flooding in the area.
- Eliminate raw sanitary sewage backups into basements during heavy storm events.
- Reduce sanitary sewage odors which currently vent through catch basins attached to the combined sewer.
- Eliminate sanitary sewage "solids" build-up in the combined sewer, which should further increase its storm water carrying capacity.
- Eliminate untreated sewage discharge to the Portage River during heavy rainfall events.
NORTHWESTERN WATER & SEWER DISTRICT

PDG has provided professional engineering services to the District since its establishment in 1994. During the last three years, PDG has assisted with the following sanitary sewer collection projects:

- Bloomdale/Bairdstown Sanitary Sewers, (2) Pump Stations and Oxidation Ditch WWTP
- West Millgrove Sanitary Sewers
- Five Point Road Sanitary Sewers
- Sugar Ridge/Mercer Road Sanitary Sewers
- Rossford - Glenwood Road Sanitary Sewers
- Ampoint Sanitary Sewers
- Country Manor Pump Station
- Huffman/Kramer Road Sanitary Sewers
- Rudolph Road Sanitary Sewers
- Rossford - Hillview Sanitary Sewers
- Northwood Homecraft Sanitary Sewer Rehabilitation
- Sanitary Sewer 200 area
- Rossford Colony Sanitary Sewers
- Colony Pump Station

Contact Jerry Greiner • President • Northwestern Water & Sewer District • 419.544.9090 • jgreiner@nwwsd.org

PATASKALA VINE/cedar street WATER LINES AND SANITARY SEWER REPLACEMENT

This project included the replacement of existing waterlines on Cedar and Vine Streets. The scope of this project included upgrading the existing lines from 4" and 6" to 8", installation of new service lines and shut-offs to 43 residents and new hydrants and mainline valves. Record drawings of the existing system were vague so PDG personnel worked with the City of Pataskala’s Water Division in the field to locate existing valves and determine the size of the valves and mains which were unknown. Through this work we were also able to identify portions of the system that weren’t looped. These deficiencies were also addressed in the project and were upgraded so that the City has more operational flexibility going forward.

**Project Cost**

- Engineers Estimate $530,000 (W&S)
- Bid Amount (February 7, 2012) $574,796.00
- Construction Cost $591,635.02

Increase in construction costs was due to a 4” waterline extension required after it was discovered that several homes on a side street adjacent to the project were being served by a 1” service line.

**Completion**

2013

Contact Nathan W. Coey, Utilities Director • 740.927.4134 • nccey@ci.pataskala.oh.us

MT. GILEAD ORCHARD DRIVE SANITARY SEWER EXTENSION

PDG was selected by the Village to design sanitary sewers to an un-sewered area within the Village of Mt. Gilead. The project is located on Orchard Lane at the intersection of State Route 95 and extend south 1,000 lineal feet to the village corporation line.

**Project Elements**

- Installation of approximately 850 lineal feet of 8” gravity sewer, manholes, and service laterals for 8 homes of which will be served by a grinder pump
- One duplex submersible grinder pump station will be installed to pump sewage from the remaining 7 homes through 1,000 lineal feet of 2” force main

**Project Cost**

- Engineers Estimate $150,000
- Bid Amount (February 4, 2014) $158,637
- Construction Cost $162,241

**Completion**

August, 2014

MT. GILEAD SANITARY SEWER REHABILITATION

The Village of Mt. Gilead’s sanitary sewer system has segments that are very old, prone to operational emergencies, i.e. blockages, pipe failures, back-ups, and constructed of VCP (vitrified clay pipe) that experiences considerable infiltration under wet weather conditions. The Village is proposing to rehabilitate portions of this system in order to reduce I&I (inflow/infiltration) in these areas and reduce repair frequency and cost. The proposed project is located in (4) four separate locations in town and is depicted further in project area maps. For purposes of this
narrative they are described as the following, Baker Street Project Area, Lincoln Street Project Area, Southwest Trunk Project Area and the South Street Project Area.

The proposed project involves cleaning and televising (pre/post) work, cleaning will also include identified root removal. After cleaning and repair of identified deficiencies, work will include, repairing “hammer taps” in the mains, lining of sewer mains, plugging leaks in existing manholes as well as lining of sanitary manholes, complete with new frame and castings with appropriate seals to prevent inflow.

Mt. Gilead is a small community with approximately 1,518 households and pays a monthly sewer rate of $43.36 and pays a month water rate of $35.08. The Village had $89,522 to commit to this project, and is requested the remaining $254,793 in OPWC grant assistance.

**Project Cost**

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Contact Mr. Dan Rogers • Village Administrator • Village of Mount Gilead • 419.946.4861

**ERIE COUNTY - BAY VIEW SANITARY SEWERS**

PDG is worked with the Village of Bay View and the Erie County Sanitary Engineer to develop detailed design for the construction of a sanitary sewer collection system. PDG completed a preliminary engineering evaluation and report in 2009 and assisted the Village and RCAP with an application for funding assistance for design and construction from USDA, Rural Development.

The current method of wastewater treatment is by individual on-site septic systems, which have been identified by the Erie County General Health Department (ECGHD) as a failed system. Bacteria testing in the bay was completed by the ECGHD and levels were identified that exceed water quality standards for public use.

The PDG report recommended that a gravity sewer collection system be constructed within the incorporated area of Bay View. The existing on-site septic system is being abandoned and the new sewer collection system will collect the wastewater from each service connection and will flow by gravity to a pump station that will deliver the wastewater to the City of Sandusky for treatment.

The gravity sanitary sewer collection system in Bay View will include approximately 33,500 LF of PVC sanitary sewers, manholes, laterals, restoration, two pump stations and 22,000 LF of 6” force main to Sandusky is estimated to cost $6.4 million. The project will be funded by USDA Rural Development.

**Project Cost**

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**NEW LEXINGTON SANITARY SEWER REHABILITATION**

PDG was the prime consultant to prepare plans and specifications for New Lexington’s sanitary sewer rehabilitation project. Contract B and C consisted of cleaning and internal televising approximately 9,000 lineal feet of sanitary sewer, reline approximately 7,500 lineal feet of 8” – 18” diameter sanitary sewer, and rehabilitate approximately 23 manholes. Contract A consisted of replacing approximately 2,000 lineal feet of 8” – 12” diameter sanitary sewer and replacing approximately 10 manholes.

**Project Costs**

| Contract A | $5,952,442 |
| Contract B | $670,893 |
| Construction Cost | |
| Anticipated Completion | May, 2017 |

**Contact:** Jack Meyers, P.E. • Erie County Department of Environmental Services • 419.433.7303 • jmeyers@erie-county-ohio.net
Contract C  $53,015.00
Construction Cost
Contract A  $662,692.57
Contract B/C  $771,489.00
Completion  February, 2015 and June, 2015

Contact Village of New Lexington • 740.342.2177

MONROEVILLE SANITARY SEWER

PDG provided professional engineering to design and perform construction administration for the installation of approximately 2,360 lineal feet of 12” gravity sanitary sewer, 50 lineal feet of 8” sanitary sewer, and approximately 1,550 lineal feet of 6” service laterals. The project also included the installation of new manholes, general restoration and 2,700 square yards of asphalt replacement.

A bid alternate was also completed to install approximately 1,466 lineal feet of 10” sanitary sewer, 359 lineal feet of 8” sanitary sewer and 925 lineal feet of 6” service laterals via open-cut, 10 sanitary manholes, general restoration, and approximately 1,200 square yards of asphalt replacement.

Project Cost

Engineers Estimate  $1,130,000 (w/ Alternates)
Bid Amount (July 30, 2015)  $1,084,994 (w/ Alternate)
Construction Cost  $1,084,994

Completion  November, 2015

Contact Tom Gray • Administrator • Village of Monroeville • 419.465.4443 • villageadm@monroevilleohio.com