

Gallatin Public Utilities

Water ♦ Sewer ♦ Natural Gas

April 29, 2013

Manager, Enforcement and Compliance Section
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor L&C Annex
Nashville, TN 37243

Manager, Nashville Environmental Field Office
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
711 R.S. Gass Boulevard
Nashville, TN 37243

Re: Agreed Order - Case No. WPC11-0066
Docket No. 04.30-116140A
Item No. 9 - Submittal of Annual Report
Sumner County, Tennessee

Ladies and Gentlemen:

In accordance with the provisions of the Agreed Order, referenced above, Item Number 9 – Annual Report submittal, below is the annual report for your review and approval. A copy of this annual report is also being placed on our website in the Public Document Repository.

Sanitary Sewer Overflow Response Plan (SSORP):

A draft Sanitary Sewer Overflow Response Plan was submitted to the Tennessee Department of Environment and Conservation (TDEC) for review and approval on November 13, 2012. We continue to implement the key measures contained in this plan pending final approval of the plan. We experienced a total of 34 sanitary sewer overflows during 2012; of these overflows, 23 were rainfall related, 2 were caused by a blockage, 3 were pump station failures (power or controls), 4 were due to line breaks, 1 was caused by contractor damage, and 1 was due to vandalism.

Corrective Action Plan/Engineering Report (CAP/ER):

A draft Corrective Action Plan/Engineering Report (CAP/ER) was submitted to the Tennessee Department of Environment and Conservation (TDEC) for review and approval on November 13, 2012. The CAP/ER was approved by the Department on December 13, 2012. As indicated in the CAP/ER there are currently several projects in the various stages of design and construction, these include the following:

Woodvale Pump Station Replacement

A "Notice to Proceed" was signed on May 4, 2012 for the construction of a replacement for the Woodvale Pump Station and force main. This project consisted of a new 625 gpm pump station, 5,000 linear feet of 12" gravity sewer main, 4,800 linear feet of 12" force main, and related appurtenances. The new "Coles Ferry Pump Station" went on-line on March 13, 2013 and is working as expected. This project not only eliminated a chronic overflow location, but had the added benefit of removing approximately 200 gpm of flow from the "A" basin.

Contract 212 – 2012 Sewer System Rehabilitation – Phase 1


The project consists of the replacement of approximately 10,000 linear feet of 8" to 24" sanitary sewer main with HDPE pipe by pipe-bursting. This project also includes the replacement of sewer service line, replacement or rehabilitation of manholes, and approximately 20 point repairs. A "Notice to Proceed" was given on October 15, 2012 for this project and construction is currently underway.

Capacity, Management, Operations, and Maintenance (CMOM) Plan:

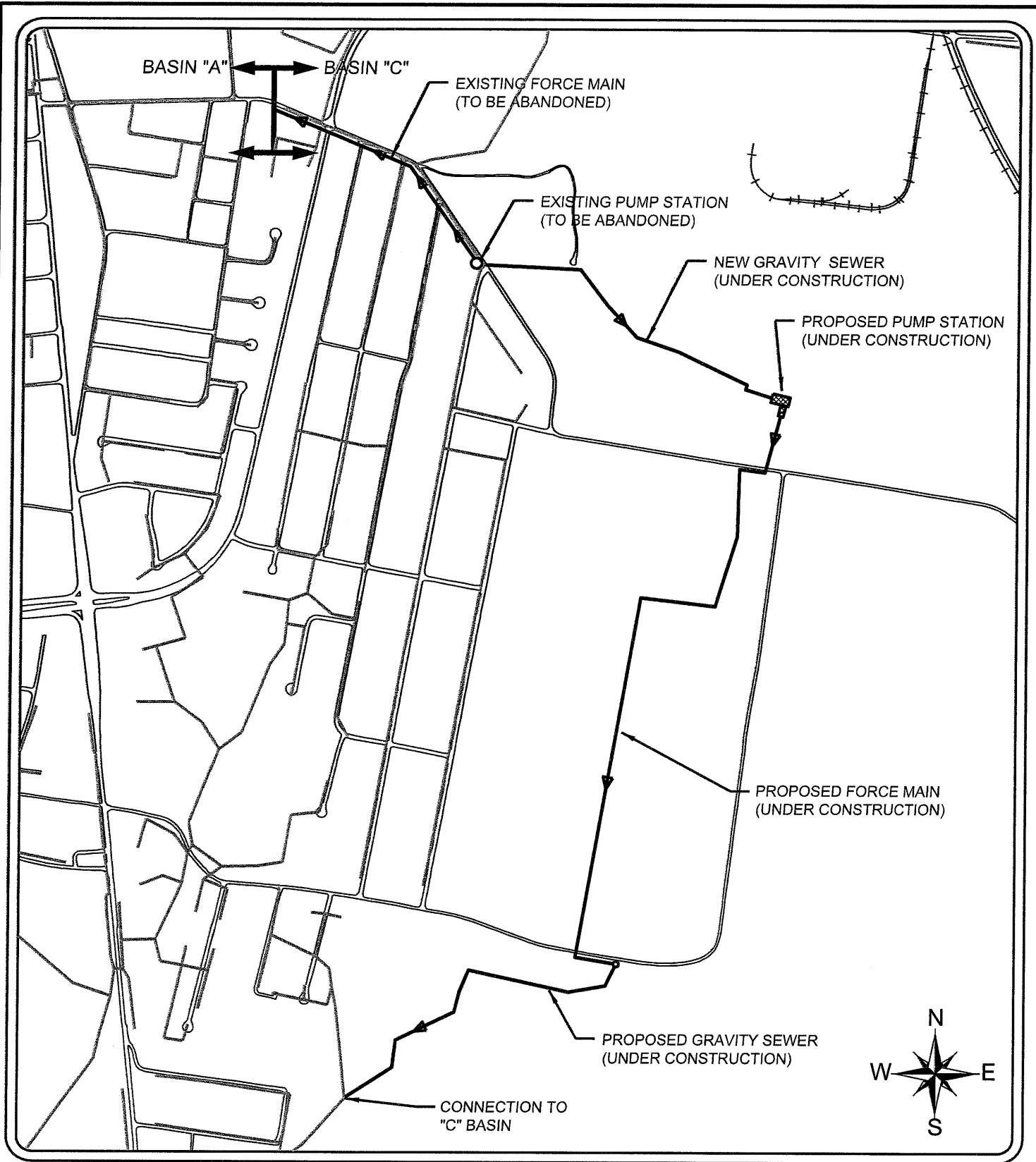
Work continues on the evaluation of our sanitary sewer collection system. At this time we have hydraulically cleaned and CCTV inspected in excess of 86% of the "A" basin, 78% of the "B" basin, and 62% of the "C" basin. We also continued to monitor system flows utilizing a network of 13 permanent flow monitors.

Please do not hesitate to contact me should you have any questions or require any additional information.

Sincerely,



David T. Kellogg
Assistant Superintendent
Gallatin Public Utilities



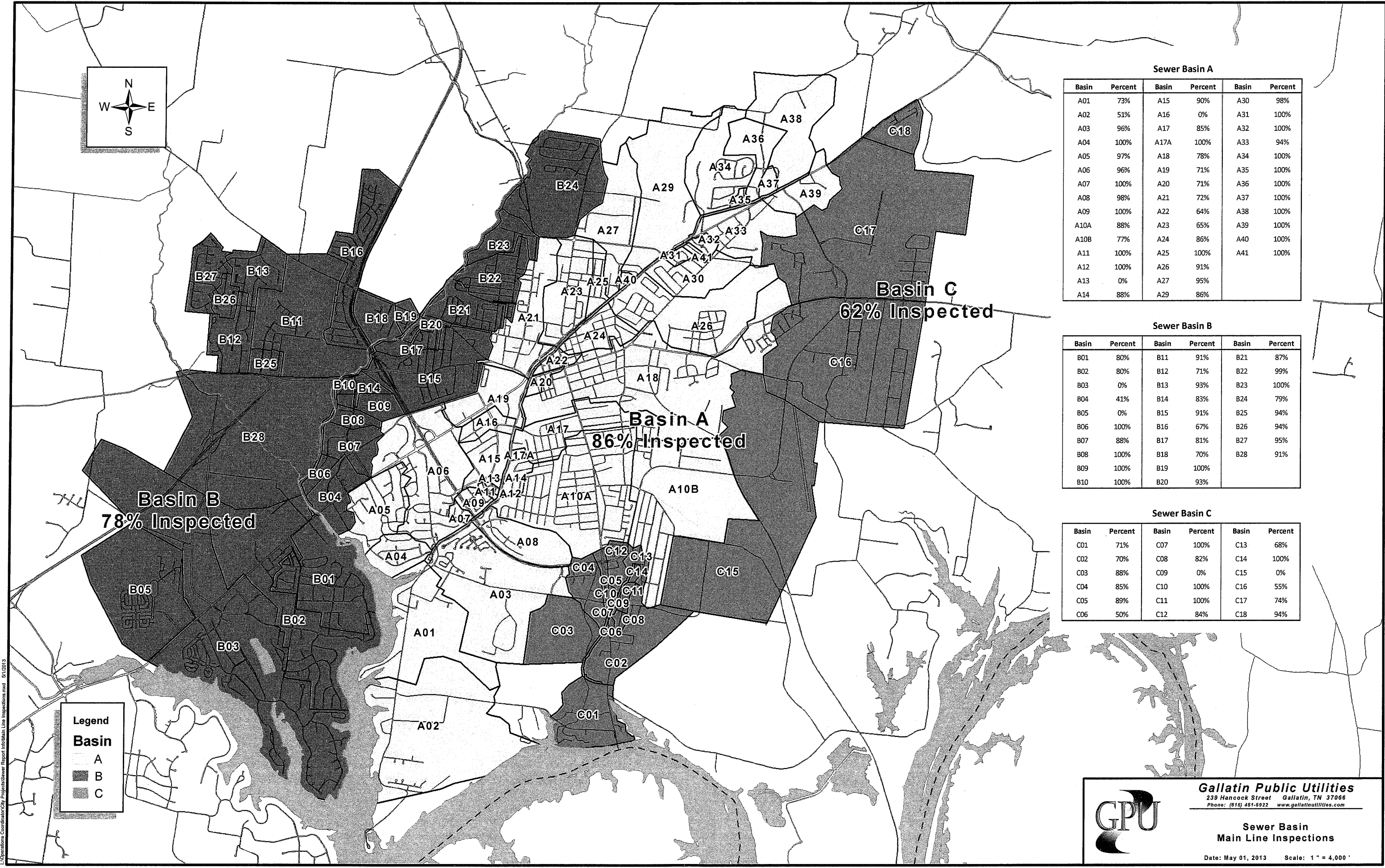
CITY OF GALLATIN
Sumner County, Tennessee

FIGURE 7

WOODVALE PROJECT

JAMES C. HAILEY & COMPANY
Consulting Engineers
7518 HIGHWAY 70 S, SUITE 100
NASHVILLE, TENNESSEE 37221

DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
MRT	JAS	MRT	OCT 2012	NONE	11182



GALLATIN PUBLIC UTILITIES

Wastewater Treatment and Collection System Projects

Collection System Construction Projects:

Contract: 2010-2011 Contractor: Contract Amount: Engineering/Inspection: Description of Work:	Contract 110 – 2010 Basin A Sewer Rehab Improved Technologies Group, LLC \$786,238.00 \$100,500.00 Furnish and install approximately 6,624 linear feet of 8" HDPE sanitary sewer main replacement via pipe bursting, furnish and install approximately 2,500 linear feet of 8" HDPE sanitary sewer main replacement (upsized from 6") via pipe bursting, furnish and install approximately 730 linear feet of 12" HDPE sanitary sewer (upsized from 8") via pipe bursting, 40 linear feet of 8" ductile iron sanitary sewer main replacement, furnish and install approximately 55 replacement pre-cast concrete manholes and lids, furnish and install approximately 106 replacement sanitary sewer service lines.
Contract: 2010 Contractor: Contract Amount: Engineering/Inspection: Description of Work:	Contract 210 – 2010 Nashville Pike Emergency Replacement A&M Contractors, LLC \$197,566.00 \$27,500.00 Furnish and Install approximately 2,323 linear feet of 8" HDPE sanitary sewer main replacement via pipe bursting, furnish and install approximately 10 replacement pre-cast concrete manholes and traffic lids, furnish and install approximately 9 replacement sanitary sewer service lines.
Contract: 2009 Contractor: Contract Amount: Engineering/Inspection: Description of Work:	Contract 2009 Public Square Emergency Replacement Pipeworks, Inc. \$7,800.00 Furnish and Install approximately 200 linear feet of 8" HDPE sanitary sewer main replacement (upsized from 6")

via pipe bursting as part of "Downtown Streetscape" Project.

Contract:

2009-2011

Contractor:

Contract Amount:

Engineering/Inspection:

Description of Work:

Contract 208 – Nichols Lane Area Sewers

Dillard & Maynard Construction, LLC

\$1,147,550.00

\$202,450.00

Furnish and Install approximately 11,270 linear feet of 8" PVC sanitary sewer main, furnish and install approximately 3,500 linear feet of 3" PVC force main, furnish and install approximately 54 pre-cast concrete manholes and lids, furnish and install approximately 120 sanitary sewer service lines, furnish and install 2 grinder pump stations. This project was performed to provide sanitary sewer service to an incorporated area of Gallatin that was experiencing failing septic systems.

Contract:

2010-2011

Contractor:

Contract Amount:

Engineering/Inspection:

Description of Work:

Contract 108 – East Camp Creek Pump Station Improvements

Charles Deweese Construction

\$221,000.00

\$.00

Furnish and Install one (1) 2,500 gpm, 300 HP pump, motor, VFD drive, exhaust and cooling system, and all related controls and accessories. This project was performed to provide a third pump at the East Camp Creek Lift Station, as well as providing a fume exhaust system and cooling system for the VFD drives.

Contract:

2009-2011

Contractor:

Contract Amount:

Engineering/Inspection:

Description of Work:

Contract 109 – Liberty Branch Interceptor Sewer

MIKO

\$999,135.00

\$.00

Furnish and Install approximately 1,019 linear feet of 12" PVC sanitary sewer main, 50 linear feet of 15" PVC sanitary sewer main, 2,651 linear feet of 18" PVC sanitary sewer main, 4361 linear feet of 21" PVC sanitary sewer main, furnish and install approximately 35 pre-cast concrete manholes and lids, furnish and install approximately 15 sanitary sewer service lines. This project was performed to provide sanitary sewer service to a recently annexed area of Gallatin.

Contract:
2006-2007
Contractor:
Contract Amount:
Engineering/Inspection:
Description of Work:

Contract 206 – Sewer System Rehab (Basin A)

Pipeworks, Inc.
\$851,752.00
\$128,248.00
Furnish and Install approximately 11,000 linear feet of 8" HDPE sanitary sewer main replacement via pipe bursting, furnish and install approximately 1,100 linear feet of 12" ductile iron force main replacement, furnish and install approximately 53 replacement pre-cast concrete manholes and watertight lids, furnish and install approximately 270 replacement sanitary sewer service lines.

Contract:
2004-2005
Contractor:
Contract Amount:
Engineering/Inspection:
Description of Work:

Contract 403 – 109 South Area Sewers

Parris Construction
\$183,276.00
\$41,600.00
Furnish and Install approximately 1427 linear feet of 8" PVC sanitary sewer main, furnish and install approximately 6 pre-cast concrete manholes and lids, furnish and install approximately 12 sanitary sewer service lines. This project was performed to provide sanitary sewer service to an incorporated area of Gallatin near Highway 109 South and the Cumberland River that needed sanitary sewer services to replace septic systems.

Contract:
2003-2004
Contractor:
Contract Amount:
Engineering/Inspection:
Description of Work:

Contract 206 – Tulip Circle Sewer System Rehab

Portland Utilities, Inc.
\$622,636.97
\$54,000.00
Furnish and install approximately 5,060 linear feet of 8" HDPE sanitary sewer main replacement via pipe bursting, furnish and install approximately 1,305 linear feet of 10" HDPE sanitary sewer main replacement via pipe bursting, 797 linear feet of 12" HDPE sanitary sewer main replacement via pipe bursting, furnish and install approximately 28 replacement pre-cast concrete manholes and lids, furnish and install approximately 60 replacement sanitary sewer service lines, furnish and install approximately 850 linear feet of 8" PVC force main replacement, clean approximately 10,000 linear feet of sanitary sewer main, 59 point repairs, and 12 manhole repairs.

Contract:

2001-2003

Contractor:

Contract Amount:

Description of Work:

Contract 601 – East Camp Creek Sewer Pump Station Replacement

W&O Construction

\$932,700.00

Construction of a new, replacement sanitary sewer pumping facility including: two (2) 2,500 gpm, 300 HP pumps, VFD drives, controls, stand-by generator, and related equipment. This project replaced and upgraded the existing East Camp Creek Pump Station and provided an increased capacity for the station and re-routed the flow from the station away from the Number 1 Pump Station.

Contract:

2001-2003

Contractor:

Contract Amount:

Description of Work:

Contract 501 – Rankin Branch Interceptor Sewer

Moore Construction

\$864,854.32

Furnish and Install approximately 260 linear feet of 15" PVC sanitary sewer main, approximately 6,166 linear feet of 30" PVC sanitary sewer main, furnish and install approximately 18 pre-cast concrete manholes and lids. This project was performed to re-route flow from the East Camp Creek Lift Station, to provide sanitary sewer capacities in this basin, and to provide sanitary sewer service to recently annexed areas of Gallatin.

Contract:

2001-2002

Contractor:

Contract Amount:

Description of Work:

Contract 301 – Rankin Branch Sewer Pump Station

Haren Construction

\$1,414,900.00

Construction of a new sanitary sewer pumping facility including: three (3) 2,500 gpm, 250 HP pumps, VFD drives, controls, stand-by generator, and related equipment.

Contract:

2001-2002

Contractor:

Contract Amount:

Description of Work:

Contract 201 – Rankin Branch Sewer Force Main – East Camp Creek Crossing

King Pipeline

\$624,000.00

Furnish and Install approximately 1,763 linear feet of 20" ductile iron force main and related accessories across East Camp Creek.

Contract:	Contract 101 – Rankin Branch Sewer Force Main
2001-2002	
Contractor:	Moore Construction
Contract Amount:	\$542,319.00
Description of Work:	Furnish and Install approximately 10,200 linear feet of 20" ductile iron sanitary sewer force main and related valves and fittings.

Contract:	Contract – Design/Engineering/Inspection for Contracts 101, 201, 301, 501, 601
2001-2003	
Contractor:	James C. Hailey & Company
Contract Amount:	\$585,200.00
Description of Work:	Furnish design, engineering, engineering during construction, and inspection during construction services for Rankin Branch Force Main Projects, the Rankin Branch Interceptor Project, the Rankin Branch Pump Station Project, and the East Camp Creek Pump Station Project.

Wastewater Treatment Plant Construction Projects:

Contract:	Contract 108 – WWTP Expansion
2005 - Current	
Contractor:	Smith Contracting
Contract Amount:	\$24,800,000.00
Description of Work:	Construction of a new, modernized wastewater treatment facility with a design organic treatment capacity of 12 million gallons per day. The new facility consists of a new head-works building with three (3) large rotary screens, two (2) oxidation ditches, four (4) large diameter clarifiers, and a UV disinfection facility. The old clarifiers will be upgraded and become tertiary clarifiers. The plant will be capable of being operated in "storm mode" with a hydraulic capacity in excess of 25 million gallons per day while meeting effluent limitations. Design of this facility began in October 2005 and construction began in April 2008.

Contract:	Contract 108 – 42" WWTP Outfall Line
Contractor:	Morgan Construction
Contract Amount:	\$1,200,000.00
Description of Work:	Furnish and install approximately 1,100 linear feet of 42" ductile iron sewer line and related outfall structures and appurtenances. This project replaces an existing 24" outfall line as part of the WWTP expansion.

Contract:	Contract 309 – WWTP Biosolids Facility
2010 - Current	
Contractor:	Smith Contracting
Contract Amount:	\$6,340,000.00
Description of Work:	Construction of a facility consisting of three (3) centrifuges with ancillary pumps, polymer system, solids grinders and conveyors, and a lime stabilization system to produce a Class A biosolids. Design of this facility began in 2009 and construction began in August, 2010.

Contract:	WWTP Design/Engineering/Inspection
2005-Current	
Contractor:	James C. Hailey & Company
Contract Amount:	\$2,369,100.00
Description of Work:	Furnish design, engineering, engineering during construction, and inspection during construction services for the WWTP Expansion Project, the WWTP 42" Outfall Line Project, and the WWTP Biosolids Facility Project.

Contract:	Contract – WWTP Aerator Replacements 2003
Contractor:	W&O Construction
Contract Amount:	\$133,700.00
Description of Work:	Remove, furnish, and replace four (4) 25-hp aerators.

Contract:	Contract – WWTP Aerator Replacements 2002
Contractor:	W&O Construction
Contract Amount:	\$104,000.00
Description of Work:	Remove, furnish, and replace three (3) 25-hp aerators.

Evaluation Projects:

Contract:	Sewer System Evaluation Program – Phase 1 (Pilot) (Basins A-5)
2002	
Contractor:	AMEC Earth & Environmental
Contract Amount:	\$28,950.00
Description of Work:	The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also

includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract:	Sewer System Evaluation Program – Phase 2 (Basins A-10A and A-10B)
2003-2004	
Contractor:	AMEC Earth & Environmental
Contract Amount:	\$177,050.00
Description of Work:	The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract:	Sewer System Evaluation Program – Phase 3 (Basins A-24, A-26, Trunk Line A)
2004-2005	
Contractor:	AMEC Earth & Environmental
Contract Amount:	\$220,756.00
Description of Work:	The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract:	Sewer System Evaluation Program – Phase 4 (Basins A-19, A-21, A-23, A-25, A-27, A-40)
2005-2006	
Contractor:	AMEC Earth & Environmental
Contract Amount:	\$231,110.00
Description of Work:	The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke

testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract: **Sewer System Evaluation Program – Phase 5
(Basins A-17)**

2006-2007

Contractor:

AMEC Earth & Environmental

Contract Amount:

\$60,675.00

Description of Work:

The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract: **Sewer System Evaluation Program – Phase 6
(Basins A-6, A-7, A-11, A-12, A-13, A-14, A-15, A-16, A-22)**

2007-2008

Contractor:

AMEC Earth & Environmental

Contract Amount:

\$185,000.00

Description of Work:

The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract: **Sewer System Evaluation Program – Phase 7
(Basins A-18 and A-20)**

2008-2009

Contractor:

AMEC Earth & Environmental

Contract Amount:

\$206,000.00

Description of Work:

The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and

evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract:

**Sewer System Evaluation Program – Phase 8
(Basins B-15, B-17, B-20, and Trunk Line B)**

2010-2011

Contractor:

AMEC Earth & Environmental

Contract Amount:

\$164,800.00

Description of Work:

The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract:

**Sewer System Evaluation Program – Phase 9
(Basins B-21, B-22, B-23, and B-24) – Current Project**

2011-Current

Contractor:

AMEC Earth & Environmental

Contract Amount:

\$146,482.25

Description of Work:

The purpose of this project is to collect GIS asset data for the sanitary sewer system, as well as to inspect and evaluate the integrity of the existing sanitary sewer collection system. A visual inspection and assessment of each manhole is performed and reported in the GIS system, along with digital photographs. The smoke testing of sanitary sewer mains in the project area is conducted and any observations are recorded in the GIS system along with digital photographs. The project also includes an independent review of CCTV inspection video performed by Gallatin Public Utilities.

Contract: **CCTC/Sonar Inspection – Interceptors A and B**
2011

Contractor: CES – Compliance EnviroSystems, LLC

Contract Amount: **\$196,320.00**

Description of Work: The purpose of this project was to conduct a complete CCTV/Sonar inspection and evaluation of Trunk Line A and Trunk Line B.

Contract: **Sanitary Sewer Flow Monitoring Program 2006**

Contractor: DWC

Contract Amount: **\$145,960.00**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Contract: **Sanitary Sewer Flow Monitoring Program 2007**

Contractor: ADS

Contract Amount: **\$121,203.33**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Contract: **Sanitary Sewer Flow Monitoring Program 2008**

Contractor: ADS

Contract Amount: **\$124,233.41**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Contract: **Sanitary Sewer Flow Monitoring Program 2009**

Contractor: ADS

Contract Amount: **\$89,874.00**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Contract: **Sanitary Sewer Flow Monitoring Program 2010**

Contractor: ADS

Contract Amount: **\$87,176.00**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow

monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Contract: **Sanitary Sewer Flow Monitoring Program 2011**

Contractor: ADS

Contract Amount: **\$88,781.00**

Description of Project: The purpose of this project is to monitor wastewater flow through the sanitary sewer system, utilizing eleven (11) flow monitors and two (2) rain gauges. The flow monitoring data can be used to evaluate capacity and system performance during both dry weather and wet weather periods. It can also be useful in quantifying inflow/infiltration under various storm events. The flow monitors are installed as part of a permanent network, with five (5) monitors in Basin A, three (3) monitors in Basin B, two (2) monitors in Basin C, and one (1) monitor at the WWTP. The project includes monthly data submittals and the routine maintenance of each flow monitor.

Equipment Projects:

Project: CCTV Inspection Truck and Equipment

Contractor: CUES

Purchase Amount: **\$190,580.00**

Description of Project: The purpose of this project was to purchase a CCTV inspection truck for the Department. The equipment provided on this truck included: two (2) pan, tilt, and zoom cameras, two (2) transporters, 1,000 feet of cable, a data collection system, real time video capture system, a module to connect the data to our ESRI GIS system, a pole mounted manhole inspection system, and a GIS mapping system.

Project: Sewer Combination Vacuuming/Cleaning Truck

Contractor: J. Abbott Enterprises, Inc. (Vac-con)

Purchase Amount: **\$225,000.00**

Description of Project: The purpose of this project was to purchase a new sanitary sewer cleaning truck for the Department. This equipment provides the Department a means to clean sanitary sewer mains by flushing the lines with high-

pressure water. Also included with this equipment is an air conveying vacuum system which provides a means for the removal of debris from sewer lines, manholes, and wet wells.

Project:	Sewer Lift Station Telemetry Equipment
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Contractor:	Kazimer & Associates (Mission Communications)
Purchase Amount:	\$32,900.00
Description of Project:	The purpose of this project was to equip the ten (10) most critical sanitary sewer lift stations with a cellular based telemetry system. This system provides real-time monitoring and alert notifications for each station, and provides an off-site monitoring center for data storage and access. Some of the data collected and monitored includes, power status, wet well levels, pump runtimes, and site access. This system is now part of our specifications for new sanitary sewer lift stations; and we now have fourteen (14) lift stations equipped with this system.

Project:	Sanitary Sewer Flow Monitoring Equipment
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Contractor:	DWC Technologies
Purchase Amount:	\$78,960.00
Description of Project:	The purpose of this project was to provide the equipment for the Long Term Flow Monitoring Project. This project provided ten (10) cellular based, area velocity/ Doppler flow meters for permanent installation in the sanitary sewer system. These flow meters connect to an off-site monitoring center for data collection. The system provides data access and monthly monitoring summaries.

Current Projects:

Project:	Woodvale Pump Station Replacement
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This project will replace and relocate the existing Woodvale Pump Station. This project will include a new 500 gallon per minute pump station and related equipment, 2,700 linear feet of 8" gravity sanitary sewer, 1,700 linear feet of upgrade existing 8" sanitary sewer to 12" sanitary sewer, 5,800 linear feet of 8" sanitary sewer force main, and related valves and fittings. The engineering and design for this project has been completed, the acquisition of easements and right-of-way for this project has been filed with the court, and the project should be bid by the end of the year.

Project: 2011 Sewer System Rehabilitation

This project will include furnishing and installing approximately 10,000 linear feet of 8" to 24" HDPE sanitary sewer main replacement via pipe bursting, furnishing and installing replacement pre-cast concrete manholes and lids, furnishing and installing replacement sanitary sewer service lines, approximately 20 point repairs, and the rehabilitation of approximately 30 additional manholes. This project is currently being designed and prepared for bidding.

Personnel Additions:

Wastewater Treatment Plant

2008 – One (1) New Operations Position
2011 – Two (2) New Operations Positions

These positions were added to aid in the daily operation of the facility, including routine maintenance and laboratory work.

Collections System

2004 – Two (2) New Operations Positions
2006 – One (1) New Operations Position
2007 - Four (4) New Operations Positions

These positions were added to aid in the daily operation of the sanitary sewer collections crew and the rehab crew. These personnel work in pump station maintenance and repair, sewer collection system maintenance and repair, sewer collection system cleaning, and sewer system CCTV inspection. One position is a full-time utility inspector.