

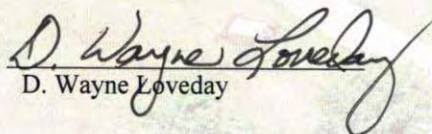


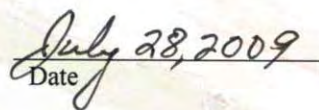
Phase 1 CAP/ER

2009 Annual Report

Submitted to EPA July 28, 2009

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


D. Wayne Loveday


Date



**Annual CAP/ER Report
July 1, 2009 - June 30, 2010**

First Creek Projects

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehabilitated	Revised Completion Date	Status
1-1	Upper First Creek Collector Project (Mini-basin 1A1, 2A2, and 3D1)	Find and fix work to identify and address cause of overflow in the vicinity of 4811 Beverly Road, 4144 Oakland Drive, and 5511 Dogwood Road.	FY 05/06	FY 08/09	Estimated total quantities: 10,235 lf gravity sewer replaced/rehab; 32 new MHs installed; 175 vf MH rehab; 69 private laterals reinstated	FY 08/09	COMPLETE
1-19	Edgewood Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1620 Edgewood Avenue.	FY 09/10	FY 10/11			PRELIMINARY ENGINEERING
1-23	Oglewood Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1307 Oglewood Avenue.	FY 11/12	FY 12/13			PRELIMINARY ENGINEERING

Second Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
2-1	Lower Second Creek Replacement/Rehabilitation at I40/I275 Junction	Replace approximately 1,300 lf of existing sewer with 30-in sewer, replace approximately 3100 lf of existing sewer with 36-in sewer, replace approximately 1200 lf of existing sewer with 42-in sewer, and rehabilitate approximately 2,400 lf of trunk line between replacement segments.	FY 06/07	FY 08/09		FY 09/10	Majority of trunkline construction work is no longer required due to the construction of new storage tank at Bernard Avenue. Replacement work from MH 19-133 to MH 19-107 will be constructed during FY 09/10.
2-2	Lower Second Creek Replacement/Rehabilitation at Woodland	Replace approximately 2,500 lf of existing sewer with 30-in sewer and rehabilitate approximately 1,200 lf of trunk line between replacement segments.	FY 06/07	FY 07/08	Estimated total quantities: 1588 lf gravity sewer replaced; 11 new MHs installed to date	Requested additional extension to FY 10/11	Construction has been completed of the lower trunkline work. Upper portion is currently under design and will require permitting from two different railroad owners. End date was initially extended to FY 08/09. New alignment for trunk sewer construction required easement acquisition and railroad permitting and requires an additional extension.
2-11	Burnside Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 2523 Burnside Street	FY 12/13	FY 12/13			UNDER CONSTRUCTION
2-12	Camelia Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of Camelia Road and Merchant Drive and 412 Merchant Drive	FY 10/11	FY 10/11			UNDER CONSTRUCTION
2-13	Cedar Heights Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5511 Cedar Heights Road and 5605 Pinecrest Road	FY 10/11	FY 10/11			UNDER CONSTRUCTION
2-14	Central Avenue Pike Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5500 Central Avenue Pike	FY 10/11	FY 10/11			UNDER CONSTRUCTION
2-15	1000 Block Elm Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1025 Elm Street	FY 11/12	FY 11/12			IN DESIGN
2-16	1600 Block Elm Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1611 Elm Street and 801 West Oldham Avenue	FY 11/12	FY 11/12			IN DESIGN
2-17	Shasta Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5108 Fennel Road and 805 Shasta Drive	FY 11/12	FY 11/12			UNDER CONSTRUCTION
2-18	Nicholas Road - Clinton Highway Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 4500 Nicholas Road and 4200 Clinton Highway	FY 12/13	FY 12/13			UNDER CONSTRUCTION
2-19	Cumberland Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1000 Phillip Fulmer Way, 1509 Cumberland Avenue, and Seventeenth Street and White Avenue	FY 12/13	FY 12/13			IN DESIGN
2-20	Sierra Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5609 Sierra Road	FY 10/11	FY 10/11			UNDER CONSTRUCTION

Second Creek Projects, continued

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
2-21	Morelia Avenue Rehabilitaiton Project	Find and fix work to identify and address cause of overflow in the vicinity of 120 E. Morelia Avenue	FY 11/12	FY 11/12			IN DESIGN
2-22	Dale Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 345 Dale Avenue	FY 12/13	FY 12/13			IN DESIGN

Third Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
3-6	Interstate 40 and Middlebrook Pike Trunk Replacement Project	Replace approximately 400 lf of existing sewer with 15-in sewer, 750 lf with 24-in sewer, 2,000 lf with 30-in sewer, and 7,000 lf with 36-in sewer.	FY 08/09	FY 09/10		Requested extension to FY 11/12	IN DESIGN - Constructability issues and permitting require that the project completion date be extended until FY 11/12. Project will require coordination with future TDOT road improvement project and extensive railroad permitting, environmental permitting, and property acquisition.
3-7	Neyland Drive Trunk Replacement Project	Replace approximately 5,900 lf of existing sewer with 48-in sewer	FY 08/09	FY 10/11			IN DESIGN - Project scope has been changed from construction along Neyland Drive to the upsizing of the existing Lower Third Creek Trunkline.
3-8	Third Creek Bike Trail Pipe Replacement Project	Replace approximately 1,200 lf of existing sewer with 24-in sewer.	FY 08/09	FY 10/11			IN DESIGN
3-11	Sutherland Avenue Collector Rehabilitation Project (Sub-Basin 28B1)	Find and fix work to identify and address cause of overflow in the vicinity of 3110, 3204 and 3208 Sutherland Avenue, 409 North Bellemeade Avenue, Sutherland Avenue and North Bellemeade Avenue and 5824 Stoneleigh Road.	FY 05/06	FY 07/08	Replaced 303 lf of existing sewer, rehabbed 3,332 lf, replaced 13 manholes.		COMPLETE
3-12	Clinch and 21st Street Collector Rehabilitation Project (Sub-basin 35B3)	Find and fix work to identify and address cause of overflow in the vicinity of Twenty First Street and Twenty First Street and Laurel Avenue.	FY 10/11	FY 10/11			IN CONSTRUCTION

Fourth Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
4-1	Chukar Road Rehabilitation (Sub-basin 32A3) Project	Find and fix work to identify and address cause of overflow in the vicinity of 410, 2513, 2621, 2624, 2644, and 2645 Chukar Road.	FY 07/08	FY 08/09	Replaced 1,600 ft of pipe and nine manholes; rehabbed 900 ft of pipe and nine manholes.		COMPLETE
4-2	Gleason Drive Collector Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 8013 and 8044 Gleason Drive.	FY 07/08	FY 08/09		Requested extension to FY 09/10	Preliminary design of these projects were shifted from FY 07/08 to FY 08/09 to allow resources to focus on other projects in First Creek, Second Creek, Loves Creek, and Williams Creek that were determined to be higher risk areas for overflows. The shift in starts has led to a need for extension in completion of one year. In the case of the Northshore trunk, a two-year extension is requested due to difficult construction on a major street. All projects are well underway and should complete in the requested time frame.
4-3	Middlebrook Pike Rehabilitation (Sub-basin 27C3) Project	Find and fix work to identify and address cause of overflow in the vicinity of 7350, 7351, and 7424 Middlebrook Pike.	FY 07/08	FY 08/09		Requested extension to FY 09/10	
4-4	Northshore Drive Trunk Replacement Project	Replace approximately 3,600 lf of existing sewer with 36-in sewer (IAP 2).	FY 07/08	FY 08/09		Requested extension to FY 10/11	
4-6	Shadyland Drive Rehabilitation (Sub-basin 36A2) Project	Find and fix work to identify and address cause of overflow in the vicinity of 7000 Rotherwood Drive and 7112 and 7712 Shadyland Drive.	FY 07/08	FY 08/09		Requested extension to FY 09/10	

South Knoxville / Knob Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
S-1	Ginnbrook Pump Station Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of Ginnbrook Pump Station	FY 06/07	FY 06/07	Ginnebrook Pumpstation expanded to 620 gpm. Power Park Pumpstation replaced existing pumps and upgrade forcemain 5400 lf. Ginnebrook forcemain replaced 9800 10" forcemain. Eliminate pumping flow from Ginnebrook & Power Park through Woodson Drive Pumpstation. Eight point repairs upstream of Ginnebrook totaling 73 lf and 541 lf of gravity sewer replacement to address structural & I/I issues.	FY 08/09	COMPLETE
S-2	Goose Creek Trunk Sewer Replacement and Siphon Upgrade	Replace approximately 725 lf of existing 8-in sewer with 18-in sewer, replace approximately 418 lf of existing 12-in sewer with 18-in sewer, replace approximately 841 lf of existing 21-in sewer with 36-in, replace approximately 160 lf of existing 24-in sewer with 36-in sewer.	FY 06/07	FY 08/09	Phase I Scope (Blount Avenue) - 1824 lf gravity sewer replaced, 452 lf rehabbed, 12 MHS replaced. Phase II Scope (Blount Avenue) - 2591 lf of gravity sewer replaced, 2369 rehabilitated, 37 MHS replaced.		COMPLETE. Construction of facilities that were required to address historic overflows has been completed. Previous lines for asset management is underway.
S-5	South Knoxville/Knob Creek Storage Facility	Design and construction of an approximately 1.7 MG storage facility	FY 05/06	FY 07/08		Project was removed from Phase 1 CAP/ER and replaced with revised S-5 below	ON HOLD; Value engineering indicates additional rehab, along with pipeline improvements in lieu of storage tank construction may be cost effective solution to effectively reducing I/I.
S-5	Revised S-5 Neubert Springs Collector and West Ford Valley Trunk Rehabilitation	In lieu of 1.75 MG storage facility, find and fix rehabilitation will be performed in Sub-basin 41C1, 41C2, and 41A2 on approximately 40,000 lf of sewer lines to significantly reduce peak flows to Neubert Springs pump station. Scope will also include rehabilitation of approximately 10,000 lf of 15" – 18" trunk sewer along West Ford Valley Road.		FY 07/08	West Ford Valley scope - 1170 lf gravity sewer replaced; 9670 gravity sewer rehabilitated, 25 MHS. SB 41 Rehab	FY 08/09	COMPLETE
S-6	Sevier Avenue and Jones Street Collector	Rehabilitate approximately 3,100 lf of existing sewer and reroute approximately 352 lf of 8-in sewer	FY 08/09	FY 09/10	352 lf gravity sewer replaced; two new MHS installed		IN CONSTRUCTION Completion date: August 2009
S-9	Ellis Road Rehabilitation Project	Find and fix work to rehabilitate approximately 3940 lf of sewer in the vicinity of 6555 Chapman Highway, 6516 Jackie Lane, 212 Ellis Road, and 6528 Jackie Lane.	FY 08/09	FY 09/10			IN DESIGN
S-11	Ford Valley Pump Station Upgrade Project	Upgrade pump station	FY 08/09	FY 09/10			IN DESIGN

Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
L-1	Asheville Highway west of I-40 Trunk Replacement	Replace approximately 5,030 lf of existing 18-in pipe.	FY 10/11	FY 11/12			UNDER CONSTRUCTION
L-2	Boyds Bridge Pike and Holston Hills Trunk Replacement	Replace approximately 4,190 lf of existing 10-in, 500 lf of 12-in, and 330 lf of 15-in pipe.	FY 10/11	FY 11/12			IN DESIGN
L-3	River View Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 4102, 4200, 3722, 3716, and Holston Hills Road.	FY 10/11	FY 11/12			IN DESIGN
L-4	Asheville Highway Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 5411 Asheville Highway.	FY 10/11	FY 11/12			IN DESIGN
L-5	Brentwood Shortline Repair	Find and fix work to identify and address cause of overflow in the vicinity of Brentwood Road.	FY 11/12	FY 12/13			IN DESIGN
L-6	Holston Hills Road Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 4716 Holston Hills Road.	FY 11/12	FY 12/13			IN DESIGN
L-7	Magnolia Avenue Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3301 Magnolia Avenue.	FY 11/12	FY 12/13			IN DESIGN
L-8	McDonald Drive Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3415 McDonald Drive.	FY 10/11	FY 11/12			IN DESIGN
L-10	Washington Court Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 4436 Washington Court.	FY 11/12	FY 12/13			IN DESIGN
EB-1	Maloneyville Road Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of Maloyneville Road (MH 93-1, 93-7, 93-10, and at the lift station).	FY 10/11	FY 11/12	Mechanical grinder was installed at Knox County Detention Facility to remove paper debris prior to discharge. Paper debris clogging the pumps was the cause of previous SSOs at Maloney Road pump station.		COMPLETE

Williams Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
W-1	Sub-basin 19A2 Rehabilitation	Rehabilitation to reduce R to 2% in Sub-basin 19A2.	FY 09/10	FY 11/12	Approx. 47000 lf gravity sewer rehabilitated; 25000 lf gravity sewer replaced; 166 MHs replaced, 138 MHs rehabbed; 1172 laterals reinstated		COMPLETE
W-6	Selma Avenue - Harrison Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 2806 Selma Avenue, 509 Harrison Street, and 515 Harrison Street.	FY 11/12	FY 12/13	Replaced 650 ft with 8" PVC and 4 manholes. Rehabbed 600 ft of 8" concrete.		COMPLETE
W-8	South Elmwood Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 121, 129, and 133 South Elmwood Street.	FY 11/12	FY 12/13	Replaced 200 ft with 8" PVC and 3 manholes. Rehabbed 400 ft of 8" concrete.		COMPLETE
W-9	Williams Creek Trunk Line Replacement (Sub-basin 19A1)	Replace approximately 360 ft of existing sewer with 15-in sewer	FY 11/12	FY 12/13	In lieu of replacing 360 ft of 12" concrete with 15" sewer, problem was addressed by comprehensive rehab of mini-basin 19A1. Work included replacement with 8,900 ft of 8" PVC, 97 ft with 10" PVC, and 76 manholes. Also included rehab of 21,200 ft of 8" concrete and 180 ft of 12" concrete.		COMPLETE

¹Approximate sizing and extents of each project is given for planning level purposes. The exact sizing and extent of each project will be determined during preliminary design. Other modifications to the projects may occur during preliminary design. For example, it may be determined that parallel relief sewers would be more cost effective than replacement sewers for some projects. Any modifications will be explained in the quarterly updates submitted after approval of the Phase 1 CAP/ER.