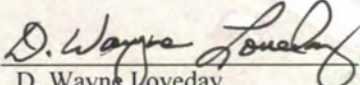


Phase 1 CAP/ER

2010 Annual Report

Submitted to EPA July 28, 2010

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

7.28.2010
Date



004407

**Annual CAP/ER Report
July 1, 2010 - June 30, 2011**

First Creek Projects

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehabilitated	Revised Completion Date	Status
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			IN DESIGN
1-21	College Park Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 106 College Park Lane.	FY 10/11	FY 11/12			IN DESIGN
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			AHEAD OF SCHEDULE - IN DESIGN
1-26	Cherry Street Rehabilitation Project	Find and fix work to identify and address cause of overflow at 1918 Cherry Street.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - IN DESIGN
1-27	Fair Drive Rehabilitation Project	Find and fix work to identify and address cause of overflows at 2538, 2541, and 2544 Fair Drive.	FY 10/11	FY 11/12	Preliminary engineering work discovered that 567 ft of 8" gravity main and 3 MHs were rehabilitated after the SSO occurred. No additional work is necessary to address the overflow at this location.		COMPLETE

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	Replaced 260 ft and 3 MHs; CIPP 140 ft	FY 09/10	COMPLETE
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 ft gravity sewer replaced; 11 new MHs installed to date	FY 10/11 Additional extension requested to FY 11/12	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			AHEAD OF SCHEDULE - 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 Merchand Drive and 412 Merchant Drive	FY 10/11	FY 10/11	Replaced 430 ft 8" and 2 MHs; CIPP 220 ft 8".		COMPLETE
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	Replaced 123 ft 8"; CIPP 263 ft 8".		COMPLETE
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	Replaced 102 ft 10", 25 ft 18", and 2 MHs; CIPP 659 ft 8".		COMPLETE
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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	Replaced 714 ft 8" and 6 MHs; CIPP 2149 ft 8".		COMPLETE
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	Replaced 405 ft 8" and 1 MH.		COMPLETE

Second Creek Projects, continued

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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	CIPP 969 ft 8"		COMPLETE
2-21	Morelia Avenue Rehabilitation 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			AHEAD OF SCHEDULE - UNDER CONSTRUCTION
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	The 8" main was replaced in 2003 with a ductile iron main in Dale Avenue. No additional overflows have occurred.		COMPLETE - Closed circuit television inspection of the collection system in the area did not show defects or deficiencies. Therefore, no construction work was necessary.

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		FY 11/12 Additional extension requested to FY 12/13	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			Phase I is under construction. Phase II (Lower Third Creek Trunkline) is in design, construction scheduled to begin January 2011
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	Improvements the sewer hydraulics were made at the connection of the 12" main to a 36" trunk sewer running south of Sutherland Avenue along Third Creek bike trail. Improvements included approximately 50 ft of 12" line and a new manhole. Additionally, rehabilitation in SB 28B1 has reduced the peaks to the 12" line.		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	Replaced 2563 ft 8" and 15 MHs; CIPP 3094 ft 8"; rehabilitated 10 MHs.		COMPLETE
3-14	McKamey Road Interconnection Project	Project will involve constructing a hydraulic connection between the upper and lower McKamey Road sewers.	FY 10/11	FY 10/11			PRELIMINARY ENGINEERING
3-15	Ball Camp Pike Improvement Project	Replace approximately 600 lf of existing sewer with 12" sewer.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
3-16	Painter Avenue Rehabilitation Project ²	Find and fix work in mini-basins 28B1 and 34A2	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
3-20	Citico Street Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 600 and 605 Citico Street.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - IN DESIGN
3-21	Deerfield Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 4428 Deerfield Road.	FY 10/11	FY 11/12			IN DESIGN
3-22	Fountain Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 4337 Fountain Drive	FY 11/12	FY 12/13	Replaced 750 ft and 5 MHs; rehabilitated 800 ft and 4 MHs.		COMPLETE
3-23	Hillvale Circle Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of the SSO at Hillvale Circle.	FY 12/13	FY 12/13			AHEAD OF SCHEDULE - IN DESIGN
3-24	Montgomery Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 3624 Montgomery Avenue.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - IN DESIGN

Third Creek Projects, continued

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
3-25	Rolling Ridge Interconnection Project	Replace Rolling Ridge pump station with gravity sewer.	FY 10/11	FY 11/12	Pump station was decommissioned and 1,950 ft of new gravity sewer was installed to divert flow from the station into existing gravity sewer.		COMPLETE
3-27	Montgomery Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1811 and 1816 Sterchi Street and 3608 and 3618 Montgomery Avenue.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING
3-29	Highland Hills Road Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 409, 411, and 419 Highland Hills Road.	FY 12/13	FY 12/13			AHEAD OF SCHEDULE - IN DESIGN

Fourth Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
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	Replaced 980 ft 8" and 12 MHs; CIPP 640 ft 8" and 480 ft 12".	FY 09/10	COMPLETE
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	Replaced 190 ft 8" and 2 MHs; CIPP 2,000 ft 8"; rehabilitated 2 MHs.	FY 09/10	COMPLETE
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		FY 10/11 Additional extension requested to FY 11/12	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.
4-6	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	Replaced 1,700 ft 10" and 9 MHs; CIPP 1,000 ft 10".	FY 09/10	COMPLETE
4-19	Northshore Drive Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 5501 and 6410 Northshore Drive and Lyons Bend Road.	FY 11/12	FY 12/13			PRELIMINARY ENGINEERING AHEAD OF SCHEDULE
4-21	Black Bear Road Project	Find and fix work to identify and address cause of overflow in the vicinity of 2313 Black Bear Road.	FY 11/12	FY 12/13			PRELIMINARY ENGINEERING AHEAD OF SCHEDULE
4-23	5205 Bent River Blvd Project	Find and fix work to identify and address cause of overflow in the vicinity of 5205 Bent River Boulevard.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
4-24	Kerri Way Project	Find and fix work to identify and address cause of overflow in the vicinity of 7505 Kerri Way.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
4-25	Lonas Drive Project	Find and fix work to identify and address cause of overflow in the vicinity of 4930 Lonas Drive.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING
4-26	Midpark Drive Project	Find and fix work to identify and address cause of overflow in the vicinity of 1721 Midpark and Midpark and Beard Drive.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING

Fourth Creek Projects, continued

4-27	Southfork Project	Find and fix work to identify cause of overflow in the vicinity of 2501 Miss Ellie Drive (private).	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING
4-28	Queensridge Pump Station Upgrade Project	Upsize Queensridge Pump Station	FY 10/11	FY 10/11			PRELIMINARY ENGINEERING
4-31	Kingston Pike @ Gallaher View Project	Find and fix work to identify and address cause of overflow in the vicinity of 8401 and 8403 Kingston Pike.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING

South Knoxville / Knob Creek Projects

Project ID	Project Name	Project Description¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
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 ft gravity sewer replaced; 2 MHs installed		COMPLETE
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	Rehabilitated 2,250 ft of gravity sewer and replaced 6 MHs.		COMPLETE
S-11	Ford Valley Pump Station Upgrade Project	Upgrade pump station	FY 08/09	FY 09/10	Replaced pump station and added additional pump and generator to convey two-year storm within CAP requirements.		COMPLETE
S-15	Trunk Replacement in Sub-basin 40A2 Project	Replace Approximately 1,932 lf of existing 12" sewer with 24" sewer; replace approximately 810 lf of existing 12" sewer with 30" sewer; and replace approximatey 1,326 lf of existing 24" sewer with 30" sewer.	FY 10/11	FY 11/12			UNDER CONSTRUCTION
S-20	Avenue A Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 530 Avenue A.	FY 10/11	FY 10/11	CIPP 1,585 ft; replaced 7 MHs and 25 service lines		COMPLETE
S-21	Alpine Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 3609 Alpine Avenue.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING
S-26	Trunk Sewer Replacement Project in Sub-basin 40F1	Replace 700 lf of existing sewer with 18" sewer.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING

Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description¹	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	Upgraded 4,688 ft of pipes and replaced 20 MHs		COMPLETE
L-2	Boyd's 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			UNDER CONSTRUCTION
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	Rehabilitated 4,627 ft of 8" gravity mains and rehabilitated 8 MHs; replaced 1 MH		COMPLETE
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	Rehabilitated 440 ft of 8" concrete pipe.		COMPLETE
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			AHEAD OF SCHEDULE - 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			AHEAD OF SCHEDULE - 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	Rehabilitated 872 ft of 8" concrete pipe.		COMPLETE
EB-2	Strawberry Plains Pike Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 8616, 8714, and 9005 Strawberry Plains Pike.	FY 10/11	FY 11/12			PRELIMINARY ENGINEERING

Williams Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
W-5	Groner Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 1114 Groner Road.	FY 11/12	FY 12/13			AHEAD OF SCHEDULE - PRELIMINARY ENGINEERING
W-7	Sunset Avenue Rehabilitation Project	Find and fix work to identify and address cause of overflow in the vicinity of 2614 Sunset Avenue.	FY 11/12	FY 11/12	Replaced 102 ft with 8" PVC		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.

²The original scope of this project called for replacement of 2,200 lf of existing 42" sewer with 48" and 54" sewer to correct slight surcharging during a two-year rain event (no overflows currently occur and none are predicted). Subsequent modeling and analysis showed that rehabilitation of the collector sewer upstream will be more effective in reducing peak flows to this trunk sewer. This approach will prevent digging and replacing the trunk sewer along Third Creek that extends under a four-lane road and through a wetland area. KUB is requesting changing the scope of the project to rehabilitation (find and fix) of collection system in mini-basins 28B1 and 34A2. The project will be completed in the same time frame as approved for the original Painter Avenue trunk project but will now be referred to as 3-16 Painter Avenue Rehabilitation Project.