

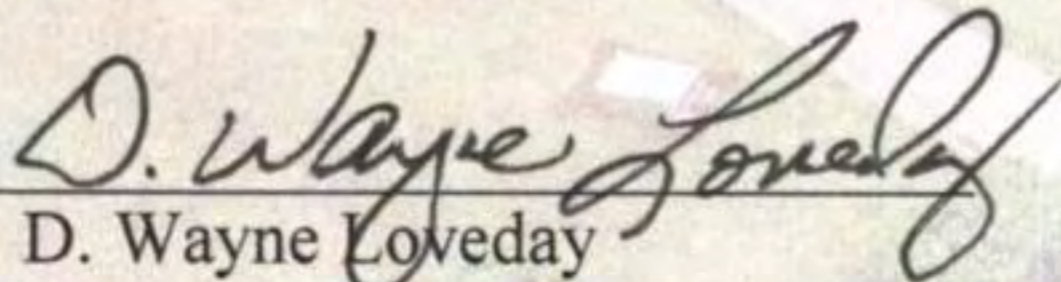


Phase 1 CAP/ER

2007 Annual Report

Submitted to EPA July 26, 2007

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

7-26-07
Date



Executive Summary

On February 11, 2005, the Knoxville Utilities Board (KUB) entered into a Consent Decree with the United States, the State of Tennessee, the Tennessee Clean Water Network, and the City of Knoxville. The following Annual Corrective Action Plan / Engineering (CAP/ER) Report is submitted to fulfill the reporting requirement described in Section VII. C. 4. of the Consent Decree.

Consent Decree language, pages 24-25: *“On an annual basis, beginning on July 30, 2006, KUB shall submit a report which shall include specific dates for beginning and completing all work identified by KUB in both the Phase 1 CAP/ER and Phase 2 CAP/ER for the upcoming twelve (12) month period (“Annual CAP/ER Report”). All Annual CAP/ER Reports shall be placed in the PDR for public review and information, but shall not be subject to the Public Review Requirement of Section VI.A.2. However, KUB shall receive questions and comments from the public for KUB’s review for a period of twenty (20) Days following placement in the PDR.”*

The work planned for the upcoming twelve (12) month period is detailed in the following table.

**Annual CAP/ER Report
July 1, 2007 - June 30, 2008**

First Creek Projects

Project ID	Project Name	Project Description ¹	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 06/07		FY07/08	Preliminary engineering has begun.
1-2	Lower First Creek Collector Project (Mini-basin 8B2)	Find and fix work to identify and address cause of overflow in the vicinity of 2412, 2514, 2528, 2806, 2808, 2900, 2528, 2700, and 2808 Tecoma Drive and 3501 Whittle Springs Road.	FY 05/06	FY 07/08			Design is complete. Construction will begin summer 2007.
1-4	Lower Fountain City Pipe Replacement	Replace approximately 2,293 If existing sewer with 36-in sewer.	FY 05/06	FY 07/08	Estimated total quantities: 2,109 If gravity sewer replaced; 14 new MHs installed; 0 If CIPP installed; 0 vf MH rehab; 5 private laterals reinstated		UNDER CONSTRUCTION
1-5	Upper Fountain City Pipe Replacement	Replace approximately 1,053 If of existing sewer with 12-in, 1,856 If with 24-in, and 595 If with 27-in pipe.	FY 05/06	FY 07/08	Estimated total quantities: 2,715 If gravity sewer replaced; 20 new MHs installed; 142 If CIPP installed; 0 vf MH rehab; 13 private laterals reinstated		UNDER CONSTRUCTION
1-20	Vine Middle School Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 214 Bertrand Street.	FY 05/06	FY 06/07		FY 07/08	Design is complete. Construction will begin in summer 2007.

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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			Preliminary engineering inspections are underway. Projects 2-1 and 2-2 have been combined for preliminary phases to achieve greater economy for investigative work. Design will commence immediately following investigative phase. Phase I along Woodland will be ready to bid in Feb-March 2008. Phase II near I40/I275 will be bid summer 2008.
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			Open cut replacement and CIPP work complete. Pipework is substantially complete. Request to extend completion date to September 2007 to allow for final closeout and cleanup.
2-4	Dutch Valley Collector Rehabilitation (Sewershed 10B1)	Rehabilitate 10-in collection system piping in sewershed 10B1.	FY 05/06	FY 06/07	Estimated total quantities: 290 lf gravity sewer replaced; 8 new MHP installed; 4,540 lf CIPP installed; 24 vf MH rehab; 35 private laterals reinstated	FY 07/08	UNDER CONSTRUCTION Pipework is substantially complete. Request to extend completion date to September 2007 to allow for final closeout and cleanup.
2-5	Rickard and Wilson Collector Rehabilitation (Sewershed 10C1)	Rehabilitate 10-in collection system piping in sewershed 10C1.	FY 05/06	FY 06/07	Estimated total quantities: 2,100 lf gravity sewer replaced; 19 new MHP installed; 6,400 lf CIPP installed; 62 vf MH rehab; 60 private laterals reinstated	Requested extension to FY 07/08	UNDER CONSTRUCTION Pipework is substantially complete. Request to extend completion date to September 2007 to allow for final closeout and cleanup.

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Third Creek Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
3-2	Subbasin 11 Rehabilitation Project (approximately 25% rehabilitation)	Find and fix work to identify and address cause of overflow in the vicinity of 5815 Wooded Acres Drive, 6512 Shaftsbury Drive, and 6525 Tewksbury Drive.	FY 04/05	FY 07/08	Estimated total quantities: 10 new MHs installed		UNDER CONSTRUCTION
3-4	Upper McKamey and Third Creek Road Replacement	Replace approximately 3,141 lf of existing sewer with 36-in sewer and approximately 1500 lf with 15-in sewer. Design and construction of a storage facility in Third Creek Basin (approximately 4.5 MG storage on Land Parcel # 093GB006)	FY 05/06	FY 07/08	Estimated total quantities: 7,792 lf gravity sewer replaced; 41 new MHs installed; 5 private laterals reinstated		UNDER CONSTRUCTION; Upper McKamey construction is 80% complete
3-5	Third Creek Storage Facility		FY 05/06	FY 07/08	Tank is 80% complete		UNDER CONSTRUCTION

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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 Replace approximately 230 lf of existing sewer with 12-in sewer, replace approximately 1100 lf of existing sewer with 15-in sewer, replace approximately 1000 lf of existing sewer 30-in sewer, replace approximately 60 lf of existing sewer with 36-in sewer	FY 06/07	FY 06/07		Requested extension to FY 08/09	Find work is complete. List of needed point repairs has been developed and will be scheduled for 07/08. Request to extend completion date to FY 08/09. Project concept has been modified to include upgrades to Ginnbrook and Power Park pump stations and force mains. These improvements have been designed and will be constructed by 08/09
S-2	Goose Creek Trunk Sewer Replacement and Siphon Upgrade		FY 06/07	FY 08/09			Siphon upgrade on hold. Phase I (from siphon to MH 11) under construction. Phase II in design.
S-5	South Knoxville/Knob Creek Storage Facility	Design and construction of an approximately 4 MG storage facility 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 05/06	FY 07/08		Requested removal from Phase 1 CAP/ER	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					Requested completion date FY 08/09	
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		Reroute portion completed as a short line project on July 29, 2005.

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S-10	Mini-basin 41A6 Rehabilitation Blount Avenue Trunk Sewer Project Phase II	Find and fix work to rehabilitate approximately 13,000 lf of sewer in sewershed 41A6 in the vicinity of 701 Lake Forest Rd.	FY 05/06	FY 08/09				
S-28		Trunk sewer project to correct reverse slopes in vicinity of 3430 Blount Ave	FY 06/07	FY 08/09				IN DESIGN Project combined with project S-2.

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Loves Creek and Eastbridge Projects

Project ID	Project Name	Project Description ¹	Start Date	End Date	Units Installed/Rehab	Revised Completion Date	Status
L-9	Shelbourne Road Rehabilitation	Find and fix work to identify and address cause of overflow in the vicinity of 3001 Shelbourne Road.	FY 11/12	FY 12/13	26,900 if gravity sewer replaced; 30 new MHs installed		SB6A4 and SB6A5 have been investigated, designed, and are under construction.

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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			IN DESIGN; construction underway in 19A and 19B

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.