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April 24, 2008

VIA HAND-DELIVERY

Chairman Eddie Roberson, PhD
c/o Ms. Sharla Dillon
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, Tennessee 37243

***Re: Petition Of Tennessee American Water Company To Change And
Increase Certain Rates And Charges So As To Permit It To Earn A
Fair And Adequate Rate Of Return On Its Property Used And
Useful In Furnishing Water Service To Its Customers
Docket No. 08-00039***

Dear Chairman Roberson:

Enclosed please find an original and sixteen (16) sets of copies of Tennessee American Water Company's Responses to the TRA's Data Request dated March 31, 2008, Questions 51, 52 and 53. Also enclosed is a disk with the same material in electronic form in PDF format for the Docket and Word and Excel format for the Staff.

Please return three copies of these Responses, which I would appreciate your stamping as "filed," and returning to me by way of our courier.

Should you have any questions concerning any of the enclosed, please do not hesitate to contact me.

With kindest regards, I remain

Very truly yours,



R. Dale Grimes

RDG/ms
Enclosures

Chairman Eddie Roberson, PhD

April 24, 2008

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cc: Hon. Ron Jones (*w/o enclosure*)
Hon. Sara Kyle (*w/o enclosure*)
Hon. Tre Hargett (*w/o enclosure*)
Ms. Darlene Standley, Chief of Utilities Division (*w/o enclosure*)
Richard Collier, Esq. (*w/o enclosure*)
Mr. Jerry Kettles, Chief of Economic Analysis & Policy Division (*w/o enclosure*)
Ms. Pat Murphy (*w/o enclosure*)
Timothy C. Phillips, Esq. (*w/enclosure*)
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Henry M. Walker, Esq. (*w/enclosure*)
Michael A. McMahan, Esq. (*w/enclosure*)
Frederick L. Hitchcock, Esq., (*w/enclosure*)
Mr. John Watson (*w/o enclosure*)
Mr. Michael A. Miller (*w/o enclosure*)

TENNESSEE AMERICAN WATER COMPANY
Docket No. 08-00039
Tennessee Regulatory Authority Staff Data Request No. 1
SUPPLEMENTAL RESPONSE

Responsible Witness: John Watson

RATE BASE (EXCLUDING WORKING CAPITAL)

Question:

51. Provide month plant additions and retirements by account number for the last three (3) fiscal years to include the test period. Please break down plant additions into normal or special projects, as defined below:
- a. Normal construction requirements should be considered to include the needs created through normal system expansions, such as serving residential areas, shopping areas, old home conversions, replacements of tools and work equipment, transportation equipment, etc.
 - b. Special construction requirements should be considered to arise from extensive replacement of old facilities which cannot be foreseen, major expansion projects, and changes required by government action such as street improvement and relocation, community and neighborhood development, bridge replacement, etc. These requirements should be considered to be outside the control of TAWC.
 - c. For the last three (3) fiscal years, identify any contributions in aid of construction.

Response:

- a. Due to extensive amount of information that has to be compiled to respond to sub-parts A & B the Company is requesting a two week extension to complete the response. If the response is completed earlier

than the two week extension the information will be supplied at the earliest possible date

- b. See the response to sub-part a.
- c. Please see the attached schedule.

Supplemental Response:

- a. Please see attached schedules. You may also refer to the file on the enclosed CD titled TN-TRA-01-Q051-SUPPLEMENTAL-ATTACHMENT.
- b. Refer to the spreadsheet for response a. The spreadsheet has the items detailed as special or normal projects.

Tennessee American Water
Tennessee American Water Response to TRA Staff Data Request 51 A & B
Additions/Adjustments and Retirements by Account Number by Month

DR-51 NARUC Acct No.	JDE Acct No.	Jan-05		Feb-05		Mar-05		Apr-05		May-05		Jun-05	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0	0	0	0	0	0	0	0	0
320	303300	0	0	0	0	0	0	0	0	0	0	0	0
330	303400	0	0	0	0	0	0	0	0	0	0	0	0
340.1	303500	0	0	0	0	0	0	0	0	0	0	0	0
340.11	303501	0	0	0	0	0	0	0	0	0	0	0	0
340.12	303502	0	0	0	0	0	0	0	0	0	0	0	0
340.2	303503	0	0	0	0	0	0	0	0	0	0	0	0
389.3	303600	0	0	0	0	0	0	0	0	0	0	0	0
311	304100	0	0	0	0	0	0	0	0	0	0	0	0
321	304200	0	0	0	0	0	0	0	0	0	0	0	0
331	304300	0	0	0	0	0	0	0	0	0	0	0	0
331.99	304301	0	0	0	0	0	0	0	0	0	0	0	0
341	304400	0	0	0	0	0	0	0	0	0	0	0	0
341	304500	0	0	0	0	0	0	0	0	0	0	0	0
390.1	304600	0	0	0	0	0	0	0	0	0	0	0	0
390.2	304700	0	0	0	0	0	0	0	0	0	0	0	0
390.3	304800	0	0	0	0	0	0	0	0	0	0	0	0
313	306000	0	0	0	0	0	0	0	0	0	0	0	0
316	309000	0	0	0	0	0	0	0	0	0	0	0	0
323.2	310100	0	0	0	0	0	0	0	0	0	0	0	0
325	311200	0	0	0	0	0	0	0	0	0	0	0	0
326	311300	0	0	0	0	0	0	0	0	0	0	0	0
328.3	311500	0	0	0	0	0	0	0	0	0	0	0	0
328.3	311530	0	0	0	0	0	0	0	0	0	0	0	0
332	320100	0	0	0	0	0	0	0	0	0	0	0	0
342	330000	0	0	0	0	0	0	0	0	0	0	0	0
342.99	330003	0	0	0	0	0	0	0	0	0	0	0	0
342	330100	0	0	0	0	0	0	0	0	0	0	0	0
342	330400	0	0	0	0	0	0	0	0	0	0	0	0
343	331001	0	0	0	0	0	0	0	0	0	0	0	0
343.1	331100	608	0	1,305	0	2,417	(786)	639	0	161	0	5,307	(3,872)

Tennessee American Water

[illegible]

**Tennessee American Water
Tennessee American Water Response to TRA Staff Data Request 51 A & B
Additions/Adjustments and Retirements by Account Number by Month**

DR-51 NARUC Acct No.	JDE Acct No.	Jan-05		Feb-05		Mar-05		Apr-05		May-05		Jun-05	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
392.2	341300	3,119	0	31,710	0	0	0	0	0	51,868	0	0	0
392.3	341400	0	0	0	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0	0	0
394	343000	23,470	0	90,823	0	0	0	0	0	23,591	0	27	0
395	344000	0	0	0	0	0	0	0	0	0	0	0	0
396	345000	0	0	0	0	0	0	0	0	0	0	0	0
397	346100	0	0	0	0	0	0	0	0	0	0	0	0
397	346190	0	0	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	0	0	0	0	0	0	0	0	0	0	0
398	347000	0	0	0	0	0	0	0	0	0	0	0	0
399	348000	0	0	0	0	0	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0	0	0
		211,057	(4,875)	298,231	(45,605)	348,712	(2,446)	277,758	0	230,531	0	434,337	(82,415)

Tennessee American
Tennessee American
Additions/Adjustments

DR-51		Jul-05		Aug-05		Sep-05		Oct-05		Nov-05		Dec-05	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0	0	0	0	0	0	0	0	0
320	303300	0	0	0	0	0	0	0	0	0	0	0	0
330	303400	0	0	0	0	0	0	0	0	0	0	0	0
340.1	303500	0	0	0	0	0	0	0	0	0	0	0	0
340.11	303501	0	0	0	0	0	0	0	0	0	0	0	0
340.12	303502	0	0	0	0	0	0	6,750	0	0	0	947	0
340.2	303503	0	0	0	0	0	0	0	0	0	0	0	0
389.3	303600	0	0	0	0	0	0	0	0	0	0	0	0
311	304100	0	0	0	0	0	0	0	0	0	0	10,336	0
321	304200	0	0	44,908	0	0	0	0	0	0	0	1,787,098	0
331	304300	0	0	5,085	0	0	0	0	0	0	0	0	(3,500)
331.99	304301	0	0	0	0	0	0	0	0	0	(66,978)	0	(80,809)
341	304400	0	0	0	0	0	0	(6,004)	0	0	0	0	0
341	304500	0	0	0	0	0	0	0	0	0	0	0	0
390.1	304600	0	0	0	0	0	0	0	0	0	0	14,507	(18,254)
390.2	304700	0	0	0	0	0	0	0	0	0	0	0	0
390.3	304800	0	0	0	0	0	0	0	0	0	0	256,867	0
313	306000	0	0	0	0	0	0	0	0	0	0	0	0
316	309000	0	0	0	0	0	0	0	0	15,085	0	151,208	0
323.2	310100	0	0	0	0	0	0	0	0	0	0	0	(8,000)
325	311200	59	0	0	0	0	(1,437)	0	0	0	0	1,426	0
326	311300	0	0	0	0	0	0	0	0	0	0	0	0
328.3	311500	0	0	0	0	0	0	0	0	0	0	0	0
328.3	311530	0	0	0	0	0	0	0	0	0	0	0	0
332	320100	(6,702)	0	42,690	(16,212)	6,825	0	0	(6,421)	0	0	0	(2,686)
342	330000	0	0	0	0	0	0	0	0	0	0	1,385,994	0
342.99	330003	0	0	0	0	0	0	0	0	0	0	511,576	0
342	330100	0	0	0	0	0	0	0	0	0	0	0	0
342	330400	0	0	0	0	0	0	0	0	0	0	0	0
343	331001	0	(2,453)	0	(34,843)	0	(1,377)	0	(7,398)	0	(6,405)	0	0
343.1	331100	22,696	0	(4,232)	0	2,102	0	7,602	0	2,788	(770)	100,360	(5,740)

Tennessee Americ
Tennessee Americ
Additions/Adjustm

NARUC Acct No.	JDE Acct No.	Jul-05		Aug-05		Sep-05		Oct-05		Nov-05		Dec-05	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
343	331200	0	0	0	0	0	0	0	0	0	0	0	0
343.2	331210	53,695	0	170,899	0	479,383	0	285,315	0	148,384	0	1,462,925	0
343	331300	0	0	153,242	0	607,968	0	1,224	0	0	0	3,347,819	0
343.3	331350	10,658	0	787	0	12,799	0	400	0	4,255	0	180,719	0
343.4	331400	102	0	0	0	0	0	127,399	0	0	0	433	0
345	333000	62,958	0	64,622	0	152,798	0	101,501	0	74,040	0	305,901	(3,361)
346	334100	34,160	(19,788)	0	(5,431)	121,226	(6,335)	334,277	(18,357)	25,669	(23,538)	687,852	(49,605)
346.1	334110	0	0	0	0	4,496	0	5	0	0	0	0	0
346.2	334120	0	0	0	0	0	0	0	0	0	0	0	0
346	334130	0	0	0	0	0	0	0	0	0	0	0	0
346	334131	0	0	0	0	0	0	0	0	0	0	0	0
346.1	334140	0	0	0	0	0	0	0	0	0	0	0	0
346.5	334150	0	0	0	0	0	0	0	0	0	0	0	0
347	334200	55,155	0	44,886	0	66,180	0	74,414	0	59,062	0	176,799	(15,834)
348	335000	5,488	0	20,634	(5,782)	58,064	(157)	21,973	(1,576)	19,040	(105)	173,881	(22,692)
317	339200	0	0	0	0	0	0	0	0	0	0	0	0
303.99	339600	0	0	0	0	0	0	0	0	0	0	0	0
391.1	340100	0	0	0	(20,000)	0	0	0	0	0	0	0	0
391.2	340200	0	0	13,728	0	5,424	0	85,748	0	1,715	0	37,213	0
391.21	340210	0	0	0	0	0	0	0	0	0	0	0	0
391.21	340220	0	0	0	0	0	0	0	0	0	0	0	0
391.21	340230	0	0	0	0	0	0	0	0	0	0	0	0
391.25	340300	0	0	591	0	263,274	0	(10,111)	0	31,312	0	62,156	0
391.25	340310	0	0	0	0	0	0	0	0	0	0	0	0
391.28	340320	0	0	0	0	0	0	0	0	0	0	0	0
391.28	340330	0	0	0	0	0	0	0	0	0	0	13,169	0
391.25	340310	0	0	0	0	0	0	0	0	0	0	13,806	(86,127)
391.2	340400	0	0	0	0	0	0	0	0	0	0	0	0
391.3	340500	0	0	0	0	0	0	0	0	0	0	0	0
392.11	341100	24,740	0	23,701	0	6,479	0	(7,527)	0	0	0	0	(313,520)
392.12	341200	59,092	0	15	0	14,322	0	6,277	0	0	0	0	(140,946)

DR-51

Tennessee American
Tennessee American
Additions/Adjustments

DR-51		Jul-05			Aug-05			Sep-05			Oct-05			Nov-05			Dec-05		
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements		Additions Adjustments	Retirements		Additions Adjustments	Retirements		Additions Adjustments	Retirements		Additions Adjustments	Retirements		Additions Adjustments	Retirements	
392.2	341300	18,759	0	0	46,820	0	0	8,101	0	0	0	0	0	0	0	0	0	(132,278)	0
392.3	341400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
394	343000	4,282	0	0	12,863	0	0	0	0	0	0	0	0	12,543	0	0	14,673	0	0
395	344000	11,445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
396	345000	0	0	0	21,580	0	0	0	0	0	0	0	0	0	0	0	0	0	0
397	346100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
398	347000	0	0	0	21,781	0	0	434,940	0	0	7,146	0	0	(3,808)	0	0	0	0	0
399	348000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		356,585	(22,240)		624,920	(82,268)		2,295,961	(9,306)		1,050,494	(39,756)		390,083	(97,796)		10,697,765	(883,352)	

Tennessee Americ
Tennessee Americ
Additions/Adjustm

DR-51		Jan-06		Feb-06		Mar-06		Apr-06		May-06	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0	0	0	0	0	0	0
320	303300	0	0	0	0	0	0	0	0	0	0
330	303400	0	0	0	0	0	0	0	0	0	0
340.1	303500	0	0	0	0	0	0	0	0	0	0
340.11	303501	0	0	0	0	0	0	0	0	0	0
340.12	303502	0	0	0	0	0	0	(993)	0	0	0
340.2	303503	0	0	0	0	0	0	0	0	0	0
389.3	303600	0	0	0	0	0	0	0	0	0	0
311	304100	0	0	0	0	0	0	(10,336)	0	0	0
321	304200	0	0	139,087	0	(291,338)	0	(226,677)	0	15,778	0
331	304300	0	0	0	0	0	0	0	0	0	0
331.99	304301	0	0	0	0	0	0	0	0	0	0
341	304400	0	0	0	0	0	0	8,316	0	2,616	0
341	304500	0	0	0	0	0	0	0	0	0	0
390.1	304600	0	0	0	0	1,393	0	0	0	0	0
390.2	304700	0	0	0	0	0	0	0	0	0	0
390.3	304800	0	0	463	0	1,157	0	0	0	0	0
313	306000	0	0	0	0	0	0	0	0	0	0
316	309000	531	0	0	0	(13)	0	(6,107)	0	0	0
323.2	310100	0	0	4,140	0	74	0	926	0	0	0
325	311200	0	0	0	0	0	0	4,799	0	1	0
326	311300	0	0	0	0	0	0	0	0	0	0
328.3	311500	0	0	0	0	0	0	20,366	0	6	0
328.3	311530	0	0	0	0	0	0	0	0	0	0
332	320100	0	0	0	0	239	0	(239)	0	(5,245)	0
342	330000	0	0	114,586	0	(114,586)	0	(104,447)	0	42,461	0
342.99	330003	0	0	0	0	0	0	(66,208)	0	0	0
342	330100	0	0	0	0	0	0	0	0	0	0
342	330400	0	0	0	0	0	0	0	0	0	0
343	331001	0	0	0	0	(3)	0	0	0	0	(6,815)
343.1	331100	46,312	0	7,164	0	(2,803)	0	10,078	(19)	799	(1,693)

Tennessee Americ
Tennessee Americ
Additions/Adjustm

DR-51		Jan-06		Feb-06		Mar-06		Apr-06		May-06	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
343	331200	0	0	632	0	0	0	0	0	0	0
343.2	331210	183,256	0	33,217	0	151,087	(2)	63,614	(63)	404,127	(9,703)
343	331300	0	0	592,452	0	(572,377)	0	(186,233)	0	20,266	(2,283)
343.3	331350	0	0	680	0	51	0	(391)	0	10,699	(34)
343.4	331400	0	0	11,165	0	837	0	0	0	0	0
345	333000	6,554	0	24,048	0	44,738	0	125,323	0	190,529	(8,483)
346	334100	0	0	634	0	203	0	5,751	(275,154)	63,234	(44,908)
346.1	334110	0	0	0	0	0	0	0	0	0	0
346.2	334120	0	0	0	0	0	0	0	0	0	0
346	334130	0	0	0	0	0	0	0	0	0	0
346	334131	0	0	0	0	0	0	0	0	0	0
346.1	334140	0	0	0	0	0	0	0	0	0	0
346.5	334150	0	0	0	0	0	0	0	0	0	0
347	334200	4,752	0	26,559	0	20,107	0	63,865	0	140,963	(4,979)
348	335000	28,888	0	5,532	0	12,362	0	48,342	0	43,954	(17,924)
317	339200	0	0	0	0	0	0	0	0	0	0
303.99	339600	0	0	0	0	0	0	0	0	0	0
391.1	340100	0	0	0	0	0	0	0	0	1,817	0
391.2	340200	0	0	705	0	0	0	0	0	2,725	0
391.21	340210	0	0	0	0	0	0	0	0	0	0
391.21	340220	0	0	0	0	0	0	0	0	3,783	0
391.21	340230	0	0	0	0	0	0	0	0	0	0
391.25	340300	11,538	0	17,274	0	6,681	0	9,014	0	505	0
391.25	340310	0	0	0	0	0	0	0	0	0	0
391.28	340320	0	0	0	0	0	0	0	0	0	0
391.28	340330	0	0	0	0	1,053	0	0	0	0	0
391.25	340310	0	0	0	0	0	0	(6,820)	0	0	0
391.2	340400	0	0	0	0	0	0	0	0	0	0
391.3	340500	0	0	0	0	0	0	0	0	2,286	0
392.11	341100	0	0	0	0	0	0	0	0	0	0
392.12	341200	0	0	32,808	0	0	0	0	0	0	0

Tennessee Americ
Tennessee Americ
Additions/Adjustm

DR-51		Jan-06		Feb-06		Mar-06		Apr-06		May-06	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
392.2	341300	0	0	0	0	0	0	0	0	0	0
392.3	341400	0	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0
394	343000	0	0	0	0	0	0	0	0	22,993	0
395	344000	0	0	0	0	0	0	0	0	0	0
396	345000	0	0	0	0	0	0	0	0	0	0
397	346100	0	0	0	0	0	0	0	0	0	0
397	346190	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	0	0	0	0	0	0	0	0	0
398	347000	8,001	0	600	0	0	0	0	0	0	0
399	348000	0	0	4,918	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0
		289,832	0	1,016,663	0	(741,136)	(2)	(248,056)	(275,236)	964,297	(96,823)

Tennessee Americ
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Additions/Adjustm

DR-51	NARUC Acct No.	JDE Acct No.	Jun-06		Jul-06		Aug-06		Sep-06		Oct-06		Nov-06	
			Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301		301000	0	0	0	0	0	0	0	0	0	0	0	0
320		303300	0	0	0	0	0	0	0	0	0	0	0	0
330		303400	0	0	0	0	0	0	0	0	0	0	0	0
340.1		303500	0	0	0	0	0	0	0	0	0	0	0	0
340.11		303501	0	(57,100)	0	0	0	0	0	0	0	0	0	0
340.12		303502	0	0	0	0	0	0	0	0	0	0	0	0
340.2		303503	0	0	0	0	0	0	0	0	0	0	0	0
389.3		303600	0	0	0	0	0	0	0	0	0	0	0	0
311		304100	0	0	0	0	0	0	0	0	0	0	0	0
321		304200	354,349	0	(58,355)	0	12,185	0	51,351	0	24,890	0	54,558	0
331		304300	0	0	0	0	0	0	0	0	0	0	0	0
331.99		304301	0	0	0	0	0	0	0	0	0	0	0	0
341		304400	0	0	0	0	0	0	0	0	0	0	0	0
341		304500	0	0	0	0	0	0	0	0	0	0	0	0
390.1		304600	0	0	0	0	0	0	0	0	0	0	0	0
390.2		304700	0	0	0	0	0	0	0	0	0	0	0	0
390.3		304800	0	0	(128)	0	0	0	10,468	0	0	0	0	0
313		306000	0	0	0	0	0	0	0	0	0	0	0	0
316		309000	353,571	0	28,000	0	0	0	43,581	0	(32,649)	0	7,436	0
323.2		310100	0	0	8,087	0	0	0	0	0	0	0	0	0
325		311200	11,637	(1,002)	0	0	0	0	0	0	0	0	0	0
326		311300	0	0	0	0	0	0	0	0	0	0	0	0
328.3		311500	0	0	0	0	0	0	0	0	0	0	0	0
328.3		311530	0	0	0	0	0	0	0	0	0	0	0	0
332		320100	71,460	(54,045)	0	0	0	0	0	0	0	0	0	0
342		330000	32,290	0	47,496	0	5,715	0	1,738	0	0	0	0	0
342.99		330003	0	0	213	0	0	0	0	0	0	0	0	0
342		330100	0	0	0	0	0	0	0	0	0	0	0	0
342		330400	0	0	0	0	0	0	0	0	0	0	0	0
343		331001	0	0	0	0	0	(21,511)	0	(999)	0	(1,525)	0	(1,776)
343.1		331100	2,382	(39,927)	10,545	(238)	14,653	0	42,830	(20,831)	23,551	(869)	9,576	(1,590)

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Additions/Adjusn

NARUC Acct No.	JDE Acct No.	Jun-06		Jul-06		Aug-06		Sep-06		Oct-06		Nov-06	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
343	331200	0	0	0	0	0	0	0	0	0	0	0	0
343.2	331210	314,324	(1)	136,600	(639)	147,164	(199)	557,510	(2,891)	367,289	(3,657)	144,007	(2,177)
343	331300	535,886	(22,414)	1,354	0	159,568	0	150,136	0	100,232	0	2,802	0
343.3	331350	188,507	(224)	139,834	0	977	0	333,038	(33)	244	0	22,634	0
343.4	331400	0	0	0	0	0	0	358,407	0	0	0	40,978	0
345	333000	98,274	0	77,629	0	138,796	0	156,526	0	64,363	0	57,957	0
346	334100	89,530	(2,660)	10,494	(1,106)	18,119	(8,926)	57,515	(1,756)	408,518	(1,715)	41,438	(38,704)
346.1	334110	0	0	0	0	0	0	0	0	0	0	0	0
346.2	334120	0	0	0	0	0	0	0	0	0	0	0	0
346	334130	0	0	0	0	0	0	0	0	0	0	0	0
346	334131	0	0	0	0	0	0	0	0	0	0	0	0
346.1	334140	0	0	0	0	0	0	0	0	0	0	0	0
346.5	334150	0	0	0	0	0	0	0	0	0	0	0	0
347	334200	94,179	0	87,357	0	88,500	0	104,753	0	73,384	0	49,900	0
348	335000	25,414	(7,029)	9,656	0	5,499	0	31,428	0	45,821	(4,208)	31,158	0
317	339200	0	0	0	0	0	0	0	0	0	0	0	0
303.99	339600	0	0	0	0	0	0	0	0	0	0	0	0
391.1	340100	0	0	0	0	0	0	1,626	0	0	0	411	0
391.2	340200	1,149	0	0	0	0	0	0	0	0	0	0	0
391.21	340210	0	0	0	0	0	0	0	0	0	0	0	0
391.21	340220	0	0	0	0	0	0	23,351	0	19,036	0	0	0
391.21	340230	0	0	0	0	0	0	0	0	0	0	0	0
391.25	340300	216	0	6,805	0	0	0	0	0	(99)	0	0	0
391.25	340310	0	0	0	0	0	0	0	0	0	0	0	0
391.28	340320	0	0	0	0	0	0	0	0	0	0	0	0
391.28	340330	0	0	0	0	0	0	0	0	0	0	0	0
391.25	340310	0	0	0	0	0	0	0	0	0	0	0	0
391.2	340400	0	0	0	0	0	0	0	0	0	0	0	0
391.3	340500	0	0	0	0	0	0	0	0	0	0	0	0
392.11	341100	0	0	0	0	0	0	0	0	0	0	0	(100,006)
392.12	341200	0	0	0	0	0	0	0	0	0	0	0	0

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DR-51 NARUC Acct No.	JDE Acct No.	Jun-06		Jul-06		Aug-06		Sep-06		Oct-06		Nov-06	
		Additions	Retirements	Additions	Retirements	Additions	Retirements	Additions	Retirements	Additions	Retirements	Additions	Retirements
392.2	341300	0	0	0	0	0	0	0	0	0	0	0	(24,424)
392.3	341400	0	0	0	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0	0	0
394	343000	25,515	0	34,365	0	2,923	0	15,514	0	15,420	0	1,197	0
395	344000	0	0	0	0	0	0	0	0	0	0	0	0
396	345000	0	0	0	0	0	0	0	0	0	0	0	0
397	346100	0	0	0	0	0	0	0	0	0	0	13,648	0
397	346190	0	0	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	0	0	0	0	(1,375)	0	0	0	0	0	0
398	347000	287,588	0	0	0	0	0	0	0	1,131	0	0	0
399	348000	0	0	0	0	0	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0	0	0
		2,487,471	(184,402)	539,951	(1,982)	594,099	(32,011)	1,939,770	(26,511)	1,111,130	(11,974)	477,700	(168,677)

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Additions/Adjustm

NARUC Acct No.	JDE Acct No.	Dec-06		Jan-07		Feb-07		Mar-07		Apr-07		May-07	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0	0	0	0	0	0	0	0	0
320	303300	0	0	0	0	0	0	0	0	0	0	0	0
330	303400	0	0	0	0	0	0	0	0	0	0	0	0
340.1	303500	0	0	0	0	0	0	0	0	0	0	0	0
340.11	303501	0	0	0	0	0	0	0	0	0	0	0	0
340.12	303502	430	0	0	0	0	0	0	0	0	0	0	0
340.2	303503	0	0	0	0	0	0	0	0	0	0	0	0
389.3	303600	0	0	0	0	0	0	0	0	0	0	0	0
311	304100	0	0	0	0	0	0	0	0	0	0	0	0
321	304200	29,061	0	637	0	0	0	715	0	0	0	0	0
331	304300	267,018	0	0	0	0	0	26,497	0	0	0	11,902	0
331.99	304301	0	0	0	141,805	0	0	0	0	0	0	0	0
341	304400	0	0	0	0	0	0	0	0	0	0	0	0
341	304500	0	0	0	0	0	0	0	0	0	0	0	0
390.1	304600	0	0	0	0	0	0	0	0	0	0	0	0
390.2	304700	0	0	0	0	0	0	0	0	0	0	0	0
390.3	304800	5,608	0	0	0	0	0	0	0	0	0	0	0
313	306000	207,671	0	0	0	0	0	0	0	0	0	0	0
316	309000	49,913	0	(7,891)	0	0	0	0	0	0	0	0	0
323.2	310100	0	0	0	0	0	0	0	0	0	0	0	0
325	311200	8,744	(32,981)	0	0	0	0	0	(59,406)	0	0	0	0
326	311300	0	0	0	0	0	0	0	0	0	0	0	0
328.3	311500	148,360	0	0	0	(2,677)	0	83,307	0	0	0	0	0
328.3	311530	0	0	0	0	0	0	0	0	0	0	0	0
332	320100	54,270	0	0	0	0	0	0	0	0	0	0	0
342	330000	1,475	0	829	0	1,179	0	238,980	0	0	0	0	0
342.99	330003	5,235	0	0	0	0	0	634,445	0	72,817	0	0	0
342	330100	1,603,986	0	(46,202)	0	15,864	0	6,396	0	17,537	0	12,233	0
342	330400	0	0	0	0	0	0	0	0	0	0	0	0
343	331001	164,907	(4,005)	0	0	0	0	0	(49,129)	0	0	0	0
343.1	331100	173,918	(4,102)	11,865	0	9,838	0	33,596	0	2,381	0	1,539	0

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DR-51 NARUC Acct No.	JDE Acct No.	Dec-06		Jan-07		Feb-07		Mar-07		Apr-07		May-07	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
392.2	341300	121,068	0	(18,864)	0	0	0	0	0	0	0	0	0
392.3	341400	205,387	0	(26,356)	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0	0	0
394	343000	52,364	0	(565)	0	(2,917)	0	0	0	0	0	0	0
395	344000	0	0	0	0	0	0	0	0	0	0	0	0
396	345000	85,411	0	(81,874)	0	78,308	0	0	0	0	0	0	0
397	346100	18,989	0	0	0	896	0	0	0	0	0	0	0
397	346150	0	0	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	(10,866)	0	0	0	0	0	0	0	0	0	0
398	347000	10,618	0	0	0	0	0	0	0	0	0	0	0
399	348000	0	0	0	0	0	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0	0	0
		7,823,144	(313,437)	(651,014)	141,805	485,768	(48,434)	2,248,558	(134,761)	1,262,292	0	259,962	0

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DR-51		Jun-07		Jul-07		Aug-07		Sep-07		Oct-07	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0	0	0	0	0	0	0
320	303300	0	0	0	0	0	0	0	0	0	0
330	303400	0	0	0	0	0	0	0	0	0	0
340.1	303500	0	0	0	0	0	0	0	0	0	0
340.11	303501	0	0	0	0	0	0	0	0	0	0
340.12	303502	0	0	0	0	0	0	0	0	0	0
340.2	303503	0	0	0	0	0	0	0	0	0	0
389.3	303600	0	0	0	0	0	0	0	0	0	0
311	304100	0	0	0	0	0	0	0	0	0	0
321	304200	0	0	0	0	0	0	0	0	0	0
331	304300	0	0	0	0	0	0	0	0	0	0
331.99	304301	0	0	0	0	0	0	0	0	0	0
341	304400	17,399	0	0	0	0	0	(3,424)	0	0	0
341	304500	0	0	0	0	0	0	0	0	0	0
390.1	304600	0	0	0	0	0	0	0	0	0	0
390.2	304700	0	0	0	0	0	0	0	0	0	0
390.3	304800	0	0	0	0	0	0	0	0	0	0
313	306000	0	0	0	0	0	0	0	0	0	0
316	309000	0	0	0	0	0	0	0	0	0	0
323.2	310100	0	0	0	0	0	0	0	0	0	0
325	311200	0	0	0	0	31,143	0	0	0	0	0
326	311300	0	0	0	0	0	0	0	0	0	0
328.3	311500	0	0	0	0	13,557	0	0	0	0	0
328.3	311530	0	0	0	0	0	0	0	0	0	0
332	320100	0	0	0	0	0	0	0	0	0	0
342	330000	0	0	0	0	0	0	0	0	0	0
342.99	330003	0	0	0	0	0	0	0	0	0	0
342	330100	0	0	0	0	0	0	0	0	0	0
342	330400	0	0	0	0	0	0	0	0	0	0
343	331001	0	0	0	0	0	0	0	0	0	0
343.1	331100	18,775	(4,973)	6,659	(9,451)	417	(9,297)	10,667	(233)	137	(114)
						1,997	(9,330)		0	25,100	(4,112)

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NARUC Acct No.	JDE Acct No.	Jun-07		Jul-07		Aug-07		Sep-07		Oct-07	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
343	331200	0	0	0	0	0	0	0	0	0	0
343.2	331210	180,244	(9)	321,538	0	95,591	(255,163)	373,133	0	145,481	(3,688)
343	331300	0	0	0	0	0	0	76,402	0	0	0
343.3	331350	874,424	0	8,530	0	4,197	(19,306)	151,092	0	21,106	(580)
343.4	331400	0	0	0	0	0	0	0	0	0	0
345	333000	(442,564)	0	287	0	493,955	0	49,194	0	100,245	0
346	334100	(110,030)	0	0	0	0	0	0	0	(6,567)	0
346.1	334110	0	0	0	0	0	0	0	0	3,478	0
346.2	334120	0	0	0	0	0	0	0	0	0	0
346	334130	0	0	0	0	0	0	0	0	0	0
346	334131	0	0	0	0	0	0	0	0	0	0
346.1	334140	0	0	0	0	0	0	0	0	0	0
346.5	334150	0	0	0	0	0	0	0	0	0	0
347	334200	(288,000)	0	0	0	1,021,360	0	565,004	0	171,249	0
348	335000	17,942	(1,640)	17,478	0	16,090	0	15,555	0	36,601	0
317	339200	0	0	0	0	0	0	0	0	0	0
303.99	339600	0	0	0	0	0	0	0	0	0	0
391.1	340100	18,010	0	97	0	4,534	0	204	0	1,311	0
391.2	340200	0	0	0	0	0	0	0	0	0	0
391.21	340210	0	0	0	0	2,370	0	0	0	0	0
391.21	340220	0	0	0	0	31,400	0	0	0	25,213	0
391.21	340230	3,646	0	45,374	0	1,338	0	0	0	5,641	0
391.25	340300	0	0	0	0	0	0	0	0	0	0
391.25	340310	0	0	0	0	0	0	0	0	0	0
391.28	340320	0	0	0	0	0	0	0	0	0	0
391.28	340330	0	0	0	0	0	0	0	0	0	0
391.25	340310	0	0	0	0	0	0	0	0	0	0
391.2	340400	0	0	0	0	0	0	0	0	0	0
391.3	340500	0	0	0	0	0	0	0	0	0	0
392.11	341100	0	0	0	0	0	0	0	0	0	0
392.12	341200	0	0	0	0	119,297	0	(13,806)	0	0	0

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DR-51 NARUC Acct No.	JDE Acct No.	Jun-07		Jul-07		Aug-07		Sep-07		Oct-07	
		Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements	Additions Adjustments	Retirements
392.2	341300	0	0	0	0	0	0	0	0	0	0
392.3	341400	28,415	0	0	0	0	0	0	0	0	0
393	342000	0	0	0	0	0	0	0	0	0	0
394	343000	15,353	0	0	0	4,980	0	(3,588)	0	4,662	0
395	344000	2,538	0	0	0	0	0	0	0	0	0
396	345000	0	0	0	0	0	0	0	0	0	0
397	346100	0	0	0	0	0	0	0	0	0	0
397	346190	0	0	0	0	0	0	0	0	0	0
397.2	346200	0	0	3,282	0	0	0	0	0	0	0
398	347000	0	0	0	0	50,962	0	3,787	0	(2,950)	0
399	348000	0	0	0	0	0	0	0	0	0	0
	354400	0	0	0	0	0	0	0	0	0	0
		336,152	(6,622)	403,245	(9,451)	1,893,188	(303,096)	1,224,220	(233)	530,708	(8,494)

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DR-51		Nov-07		Dec-07	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements
301	301000	0	0	0	0
320	303300	0	0	0	0
330	303400	0	0	0	0
340.1	303500	0	0	0	0
340.11	303501	0	0	13,000	0
340.12	303502	0	0	0	0
340.2	303503	0	0	0	0
389.3	303600	0	0	0	0
311	304100	0	0	0	0
321	304200	0	0	53,169	(137)
331	304300	0	0	0	(467)
331.99	304301	0	0	0	0
341	304400	0	0	0	0
341	304500	0	0	170,455	0
390.1	304600	0	0	(13,000)	0
390.2	304700	0	0	0	0
390.3	304800	0	0	0	0
313	306000	0	0	0	0
316	309000	0	0	1,171	0
323.2	310100	0	0	0	0
325	311200	0	0	0	0
326	311300	0	0	0	0
328.3	311500	0	0	0	0
328.3	311530	0	0	49,049	0
332	320100	0	0	91,217	0
342	330000	0	0	0	(11,641)
342.99	330003	0	0	284,443	0
342	330100	0	0	109,410	0
342	330400	0	0	0	0
343	331001	0	0	257,484	(16,381)
343.1	331100	5,436	0	48,906	(1,608)

Tennessee American
Tennessee American
Additions/Adjustments

DR-51		Nov-07		Dec-07	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements
343	331200	0	0	0	0
343.2	331210	425,368	0	278,377	(312)
343	331300	0	0	177	0
343.3	331350	7,421	0	651,366	(321)
343.4	331400	0	0	754	0
345	333000	67,688	0	145,881	0
346	334100	0	0	58,131	(11)
346.1	334110	0	0	1,311,374	0
346.2	334120	0	0	0	0
346	334130	0	0	0	0
346	334131	16,786	0	183	0
346.1	334140	0	0	0	0
346.5	334150	0	0	0	0
347	334200	59,709	0	(1,153,462)	0
348	335000	10,909	0	207,905	(84)
317	339200	0	0	0	0
303.99	339600	0	0	0	(405,132)
391.1	340100	4,572	0	347	(101,696)
391.2	340200	0	0	0	(12,097)
391.21	340210	0	0	0	0
391.21	340220	0	0	9	(299,636)
391.21	340230	0	0	(53,090)	(12,899)
391.25	340300	0	0	0	0
391.25	340310	0	0	0	0
391.28	340320	0	0	(5,388)	(9,372)
391.28	340330	0	0	0	0
391.25	340310	0	0	0	0
391.2	340400	0	0	0	0
391.3	340500	0	0	0	0
392.11	341100	0	0	17,000	(44,519)
392.12	341200	0	0	58,422	(60,739)
					0

Tennessee American
Tennessee American
Additions/Adjustments

DR-51		Nov-07		Dec-07	
NARUC Acct No.	JDE Acct No.	Additions Adjustments	Retirements	Additions Adjustments	Retirements
392.2	341300	0	0	0	0
392.3	341400	(5,592)	0	0	0
393	342000	0	0	0	0
394	343000	(413)	0	(2,843)	0
395	344000	(499)	0	0	(1,884)
396	345000	0	0	0	0
397	346100	0	0	0	(2,344)
397	346190	0	0	37,879	0
397.2	346200	0	0	0	(70,027)
398	347000	0	0	10,118	(365)
399	348000	0	0	0	0
	354400	0	0	0	0
		591,385	0	2,628,442	(1,051,672)

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	Jan-05		Feb-05		Mar-05	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire
Special	26020003	CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	-	-	\$	-
Special	26020003	CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	-	\$	-
Special	26020003	CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	-	\$	-
Special	26020003	CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	-	\$	-
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	-	\$	-
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400	\$	-	-	\$	-
Special	26020303	CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	-	-	\$	-
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Normal	26020401	Business Process Efficiency Project-Organization	301	301000	\$	-	-	\$	-
Normal	26020401	Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	-	-	\$	-
Normal	26020401	Business Process Efficiency Project-Computer Software	391.25	340300	\$	-	-	\$	-
Special	26020402	Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	-	\$	-
Special	26020402	Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	-	\$	-
Special	26020403	- Security: Physical hardening-Misc Equipment	398	347000	\$	-	-	\$	-
Special	26020501	TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	-	-	\$	-
Special	26020501	TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Special	26020501	TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	-	\$	-
Special	26020501	TN DOT Relocations-Services	345	333000	\$	-	-	\$	-
Special	26020501	TN DOT Relocations-Hydrants	348	335000	\$	-	-	\$	-
Special	26020601	Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	-	\$	-
Normal	26020602	Hill City Discharge-Supply Mains	316	309000	\$	-	-	\$	-
Normal	26020602	Hill City Discharge-Struct & Imp P	321	304200	\$	-	-	\$	-
Normal	26020602	Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	-	\$	-
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340230	\$	-	-	\$	-
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340210	\$	-	-	\$	-
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397	346190	\$	-	-	\$	-
Special	26020704	SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-Organization	301	301000	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-Services	345	333000	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	-	\$	-
Special	26029606	CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100	\$	-	-	\$	-
Normal	26029612	CHAT-Customer Service System-Comp Software Mainframe	391.25	340310	\$	0	-	\$	-
Special	26030204	CHAT-Replace Lkt Mtn Supp Mal-TD Mains 12in & Grtr (TN)	343.3	331350	\$	74	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Pump Equip Electric	325	311200	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Struct & Imp WT	331	304300	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Services	345	333000	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Meters	346	334100	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100	\$	-	-	\$	-
Normal	26030204	CHAT-Suck Creek Utility-Other Tangible Property	399	348000	\$	-	-	\$	-
Normal	26040206	CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	\$	-
Normal	26040206	CHAT-Lone Oak Acquisition-Services	345	333000	\$	-	-	\$	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B									
Normal/Special	Budget Item	Budget Item Description	NARUC Acct No.	Jan-05		Feb-05		Mar-05	
				JDE No.	In Service	Retire	In Service	Retire	In Service
Normal	26040206	CHAT-Lone Oak Acquisition-Meters	346	334100	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-Hydrants	348	335000	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-Dist Reservoirs & Standpipes	342	330000	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-Hydrants	348	335000	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-Computer Software	391.25	340300	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Power Generation Equip Other	323.2	310100	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp AG-Lease	341	304510	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Services	345	333000	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters	346	334100	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters Other	346	334130	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters Plastic Case	346.2	334120	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Computer Software	391.25	340300	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Supply Mains	316	309000	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Struct & Imp P	321	304200	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Struct & Imp WT	331	304300	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-WT Equip Non-Media	332	320100	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Services	345	333000	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Hydrants	348	335000	\$	-	\$	-	\$
Normal	DV-2604-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	Land Sale	Land Sale-Land TD	340.11	303501	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-Services	345	333000	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-Comp Software Mainframe	391.25	340310	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Services	345	333000	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meters	346	334100	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meters Other-Rem Rdr Units	346	334131	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meters Bronze Case	346.1	334110	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meter Installations	347	334200	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Tools Shop, Garage Equip	394	343000	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Meters	346	334100	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Meters Bronze Case	346.1	334110	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Meter Installations	347	334200	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Hydrants	348	335000	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$
Normal	RP-2602-G1	Services and Lateral - New-Services	345	333000	\$	-	\$	-	\$
Normal	RP-2602-H1	Services and Lateral - Replaced-Services	345	333000	\$	-	\$	-	\$
Normal	RP-2602-H1	Services and Lateral - Replaced-Hydrants	348	335000	\$	-	\$	-	\$
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$

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Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Jan-05		Feb-05		Mar-05	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-F1	348	335000		928	-	778	-	1,680	(21)
Normal	RP-2602-E1	343.2	331210		-	-	-	-	-	-
Normal	RP-2602-E1	348	335000		425	-	32	-	12,576	-
Special	RP-2602-C1	343.1	331100		-	-	-	-	-	-
Special	RP-2602-C1	343.2	331210		-	-	-	-	-	-
Special	RP-2602-C1	343.3	331350		-	-	-	-	-	-
Special	RP-2602-C1	345	333000		-	-	-	-	-	-
Special	RP-2602-C1	348	335000		-	-	-	-	-	-
Normal	RP-2602-K1	332	320100		-	-	-	-	-	-
Normal	RP-2602-K1	343.2	331210		-	-	-	-	-	-
Normal	RP-2602-K1	391.1	340100		-	-	-	-	-	-
Normal	RP-2602-K1	391.2	340200		-	-	-	-	-	-
Normal	RP-2602-K1	391.2	340400		-	-	-	-	-	-
Normal	RP-2602-K1	391.21	340230		-	-	-	-	-	-
Normal	RP-2602-K1	391.21	340220		-	-	-	-	-	-
Normal	RP-2602-K1	391.25	340310		-	-	-	(45,605)	-	-
Normal	RP-2602-K1	391.28	340320		-	-	-	-	-	-
Normal	RP-2602-K1	391.3	340500		-	(4,875)	-	-	-	-
Normal	RP-2602-K1	397.2	346200		-	-	-	-	-	-
Normal	RP-2602-B1	316	309000		-	-	-	-	-	-
Normal	RP-2602-B1	321	304200		-	-	-	-	-	-
Normal	RP-2602-B1	331.99	304301		-	-	-	-	-	-
Normal	RP-2602-B1	332	320100		-	-	-	-	-	-
Normal	RP-2602-B1	340.11	303501		-	-	-	-	-	-
Normal	RP-2602-B1	341	304500		-	-	-	-	-	-
Normal	RP-2602-B1	342	330100		-	-	-	-	-	(1,274)
Normal	RP-2602-B1	343	331001		-	-	-	-	-	-
Normal	RP-2602-B1	343	331300		-	-	-	-	-	-
Normal	RP-2602-B1	343	331200		-	-	-	-	-	-
Normal	RP-2602-B1	343.1	331100		608	-	1,305	-	2,417	(786)
Normal	RP-2602-B1	343.2	331210		18,947	-	1,942	-	8,570	-
Special	RP-2602-B1	343.3	331350		1,866	-	1,081	-	288	-
Special	RP-2602-B1	343.4	331400		-	-	-	-	-	-
Normal	RP-2602-B1	345	333000		-	-	-	-	-	-
Normal	RP-2602-B1	346	334100		-	-	-	-	-	-
Normal	RP-2602-B1	347	334200		-	-	-	-	-	-
Normal	RP-2602-B1	348	335000		-	-	-	-	-	-
Normal	RP-2602-B1	390.1	304600		-	-	-	-	-	-
Normal	RP-2602-B1	391.21	340230		-	-	-	-	-	-
Normal	RP-2602-B1	391.21	340220		-	-	-	-	-	-
Normal	RP-2602-B1	391.28	340320		-	-	-	-	-	-
Normal	RP-2602-B1	392.11	341100		-	-	-	-	-	-
Normal	RP-2602-B1	392.12	341200		-	-	-	-	-	-
Normal	RP-2602-B1	394	343000		-	-	-	-	-	-
Normal	RP-2602-B1	398	347000		-	-	-	-	-	-
Special	RP-2602-D1	343.3	331350		-	-	-	-	-	-
Normal	RP-2602-Q1	316	309000		-	-	-	-	-	-
Normal	RP-2602-Q1	321	304200		-	-	-	-	-	-
Normal	RP-2602-Q1	323.2	310100		-	-	-	-	-	-
Normal	RP-2602-Q1	325	311200		-	-	-	-	-	-
Normal	RP-2602-Q1	328.3	311530		-	-	-	-	-	-
Normal	RP-2602-Q1	328.3	311500		-	-	-	-	-	-
Normal	RP-2602-Q1	331	304300		-	-	-	-	-	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	Jan-05		Feb-05		Mar-05		Retire
				In Service	Retire	In Service	Retire	In Service	Retire	
		Budget Item Description	JDE Acct No.							
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-WT Equip Non-Media	332	\$ 320100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp & Periph Equip	391.2	\$ 340200	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Computer Software	391.25	\$ 340300	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp Software Other	391.28	\$ 340330	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Laboratory Equipment	395	\$ 344000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Operated Equipment	395	\$ 345000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Remote Control & Instrumentatati	397	\$ 346190	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	397	\$ 347000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Misc Equipment	398	\$ 347000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Supply Mains	316	\$ 309000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp AG-Lease	341	\$ 304510	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp TD	341	\$ 304400	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Meters	346	\$ 334100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Office Furniture & Equip	391.1	\$ 340100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Comp & Periph Equip	391.2	\$ 340200	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Trans Equip Other	392.3	\$ 341400	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Tools,Shop,Garage Equip	394	\$ 343000	23,470	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Laboratory Equipment	395	\$ 344000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-P1	Tools and Equipment-Misc Equipment	398	\$ 347000	-	\$ -	-	\$ -	-	-
Normal	RP-2602-O1	Vehicles-Trans Equip Lt Duty Trks	392.11	\$ 341100	87,547	\$ -	-	\$ -	-	-
Normal	RP-2602-O1	Vehicles-Trans Equip Hwy Duty Trks	392.12	\$ 341200	-	\$ -	-	\$ -	-	-
Normal	RP-2602-O1	Vehicles-Trans Equip Autos	392.2	\$ 341300	3,119	\$ -	-	\$ -	-	-
Normal	RP-2602-O1	Vehicles-Trans Equip Other	392.3	\$ 341400	-	\$ -	-	\$ -	-	-
Normal	RP-2602-O1	Vehicles-Power Operated Equipment	396	\$ 345000	-	\$ -	-	\$ -	-	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	331.99	\$ 304301	-	\$ -	-	\$ -	-	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	342	\$ 330000	-	\$ -	-	\$ -	-	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	342.99	\$ 330003	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp SS	311	\$ 304100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp TD	341	\$ 304400	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Offices	390.1	\$ 304600	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Office Furniture & Equip	390.3	\$ 304800	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Other Office Equipment	391.1	\$ 340100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Non-Telephone	391.3	\$ 340500	750	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397	\$ 346100	-	\$ -	-	\$ -	-	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397.2	\$ 345200	-	\$ -	-	\$ -	-	-
Special	RP-2602-M1	Security Equipment and Systems-Misc Equipment	398	\$ 347000	-	\$ -	-	\$ -	-	-
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	341	\$ 304500	-	\$ -	-	\$ -	-	-
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	303.99	\$ 339600	-	\$ -	-	\$ -	-	-
	Total			\$ 211,058	\$ (4,875)	\$ 298,231	\$ (45,605)	\$ 348,712	\$ (2,446)	

Tennessee American Water Response to TRA Staff Data Request 51 A & B									
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		Apr-05		May-05		Jun-05	
		NARUC Acct No.	JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003 CHAT-Design Eastridge Tank-Right of Way TD	340.12	303502	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.4	331400	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	348	335000	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	343.2	331210	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	301	301000	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Organization	391.2	340200	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.25	340300	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Computer Software	321	304200	\$	-	\$	-	\$	-
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	343	331300	\$	-	\$	-	\$	-
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	398	347000	\$	-	\$	-	\$	-
Special	26020403 - Security: Physical hardening-Misc Equipment	343	331300	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343.2	331210	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.3	331350	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	345	333000	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-Services	348	335000	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-Hydrants	343.4	331400	\$	-	\$	-	\$	-
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	316	309000	\$	-	\$	-	\$	-
Normal	26020602 Hill City Discharge-Supply Mains	321	304200	\$	-	\$	-	\$	-
Normal	26020602 Hill City Discharge-Struct & Imp P	343.3	331350	\$	-	\$	-	\$	-
Normal	26020602 Hill City Discharge-TD Mains 12in & Grtr (TN)	391.21	340230	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340210	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	397	346190	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	398	347000	\$	-	\$	-	\$	-
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	301	301000	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-Organization	343	331001	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343.1	331100	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.2	331210	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	345	333000	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-Services	346	334100	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-Meters	392.11	341100	\$	-	\$	-	\$	-
Special	26029606 CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	391.25	340310	\$	-	\$	-	\$	-
Normal	26029612 CHAT-Customer Service System-Comp Software Mainframe	343.3	331350	\$	-	\$	-	\$	-
Special	26029804 CHAT-Replace Lkt Mtn Supp Mal-TD Mains 12in & Grtr (TN)	313	306000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	325	311200	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	331	304300	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	332	320100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	343	331001	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343.1	331100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	343.2	331210	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.3	331350	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	345	333000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Services	346	334100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Meters	391.21	340230	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	397	346100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	399	348000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	343.2	331210	\$	-	\$	-	\$	-
Normal	26040206 CHAT-Lone Oak Acquisition-Other Tangible Property	345	333000	\$	-	\$	-	\$	-
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)								
Normal	26040206 CHAT-Lone Oak Acquisition-Services								

Tennessee American Water Response to TRA Staff Data Request 51 A & B											
Normal/Special	Budget Item	Budget Item Description	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Apr-05		May-05		Jun-05	
				JDE	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal	26040206	CHAT-Lone Oak Acquisition-Meters	346		334100	\$	-	\$	-	\$	-
Normal	26040206	CHAT-Lone Oak Acquisition-Hydrants	348		335000	\$	-	\$	-	\$	-
Normal	26060302	Walden's Ridge Utility-Dist Reservoirs & Standpipes	342		330000	\$	-	\$	-	\$	-
Normal	26060302	Walden's Ridge Utility-TD Mains 10in to 16in	343		331300	\$	-	\$	-	\$	-
Normal	26060302	Walden's Ridge Utility-Hydrants	348		335000	\$	-	\$	-	\$	-
Normal	26060302	Walden's Ridge Utility-Computer Software	391.25		340300	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Power Generation Equip Other	323.2		310100	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	331.99		304301	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp AG-Lease	341		304510	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-TD Mains Not Classified by Siz	343		331001	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-TD Mains 4in & Less	343.1		331100	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Services	345		333000	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Meters	346		334100	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Meters Other	346		334130	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Meters Plastic Case	346.2		334120	\$	-	\$	-	\$	-
Normal	Adjustment	2006 Overhead Adjustment-Computer Software	391.25		340300	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-Supply Mains	316		309000	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-Struct & Imp P	321		304200	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-Struct & Imp WT	331		304300	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-WT Equip Non-Media	332		320100	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-TD Mains 10in to 16in	343		331300	\$	496	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-TD Mains 4in & Less	343.1		331100	\$	-	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2		331210	\$	20,197	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	343.3		331350	\$	5,173	\$	-	\$	-
Normal	DV-2602-1	Developer Contribution-Services	345		333000	\$	15,548	\$	4	\$	-
Normal	DV-2602-1	Developer Contribution-Hydrants	348		335000	\$	8,991	\$	1,438	\$	2,847
Normal	DV-2604-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2		331210	\$	-	\$	-	\$	-
Normal	Land Sale	Land Sale-Land TD	340.11		303501	\$	-	\$	-	\$	-
Normal	RP-2602-A1	Mains - New-TD Mains 4in & Less	343.1		331100	\$	-	\$	-	\$	-
Normal	RP-2602-A1	Mains - New-TD Mains 6in to 10in (TN)	343.2		331210	\$	23,300	\$	607	\$	10,454
Normal	RP-2602-A1	Mains - New-Services	345		333000	\$	-	\$	-	\$	-
Normal	RP-2602-A1	Mains - New-Hydrants	348		335000	\$	-	\$	-	\$	-
Normal	RP-2602-A1	Mains - New-Comp Software Mainframe	391.25		340310	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-TD Mains 12in & Grtr (TN)	343.3		331350	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Services	345		333000	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Meters	346		334100	\$	798	\$	28,699	\$	6,401
Normal	RP-2602-H1	Meters - New-Meters Other-Rem Rdr Units	346		334131	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Meters Bronze Case	346.1		334110	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Meter Installations	347		334200	\$	55,955	\$	40,991	\$	63,911
Normal	RP-2602-H1	Meters - New-Comp & Periph Equip	391.2		340200	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Comp & Periph Personal	391.21		340220	\$	-	\$	-	\$	-
Normal	RP-2602-H1	Meters - New-Tools,Shop,Garage Equip	394		343000	\$	-	\$	-	\$	-
Normal	RP-2602-J1	Meters - Replaced-Meters	346		334100	\$	-	\$	-	\$	-
Normal	RP-2602-J1	Meters - Replaced-Meters Bronze Case	346.1		334110	\$	-	\$	-	\$	-
Normal	RP-2602-J1	Meters - Replaced-Meter Installations	347		334200	\$	4,076	\$	1,144	\$	3,958
Normal	RP-2602-J1	Meters - Replaced-Hydrants	348		335000	\$	-	\$	-	\$	-
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Other	391.21		340230	\$	-	\$	-	\$	-
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Personal	391.21		340220	\$	-	\$	-	\$	-
Normal	RP-2602-G1	Services and Laterals - New-Services	345		333000	\$	57,137	\$	55,545	\$	91,919
Normal	RP-2602-H1	Services and Laterals - Replaced-Services	345		333000	\$	525	\$	3,081	\$	4,986
Normal	RP-2602-H1	Services and Laterals - Replaced-Hydrants	348		335000	\$	-	\$	-	\$	-
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1		331100	\$	-	\$	-	\$	-
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2		331210	\$	-	\$	-	\$	-

(16,099)

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Additions/Adjustments and Retirements by Account Number by Month		Apr-05		May-05		Jun-05	
				JDE No.	Acct	In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-F1	348	Hydrants, Valves, and Manholes-Rep-Hydrants	335000		1,332		4,233		3,058	
Normal	RP-2602-E1	343.2	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	331210							
Normal	RP-2602-E1	348	Hydrants, Valves, and Manholes-New-Hydrants	335000		3,852				1,567	
Special	RP-2602-C1	343.1	Mains - Unscheduled-TD Mains 4in & Less	331100							
Special	RP-2602-C1	343.2	Mains - Unscheduled-TD Mains 6in to 10in (TN)	331210							
Special	RP-2602-C1	343.3	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	331350							
Special	RP-2602-C1	345	Mains - Unscheduled-Services	333000							
Special	RP-2602-C1	348	Mains - Unscheduled-Hydrants	335000							
Normal	RP-2602-K1	332	ITS Equipment and Systems-WT Equip Non-Media	320100							
Normal	RP-2602-K1	343.2	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	331210							
Normal	RP-2602-K1	391.1	ITS Equipment and Systems-Office Furniture & Equip	340100							
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Comp & Periph Equip	340200							
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Data Handling Equipment	340400							
Normal	RP-2602-K1	391.21	ITS Equipment and Systems-Comp & Periph Other	340230							
Normal	RP-2602-K1	391.25	ITS Equipment and Systems-Comp Software Mainframe	340310							
Normal	RP-2602-K1	391.28	ITS Equipment and Systems-Comp Software Personal	340320							
Normal	RP-2602-K1	391.3	ITS Equipment and Systems-Other Office Equipment	340500							
Normal	RP-2602-K1	397.2	ITS Equipment and Systems-Comm Equip Telephone	346200							
Normal	RP-2602-B1	316	Mains - Replaced / Restored-Supply Mains	309000							
Normal	RP-2602-B1	321	Mains - Replaced / Restored-Struct & Imp P	304200							
Normal	RP-2602-B1	331.99	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	304301							
Normal	RP-2602-B1	332	Mains - Replaced / Restored-WT Equip Non-Media	320100							
Normal	RP-2602-B1	340.11	Mains - Replaced / Restored-Land TD	303501							
Normal	RP-2602-B1	341	Mains - Replaced / Restored-Struct & Imp AG	304500							
Normal	RP-2602-B1	342	Mains - Replaced / Restored-Elevated Tanks & Standpipes	330100							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains Not Classified by Siz	331001							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 10in to 16in	331300							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 6in to 8in	331200							
Normal	RP-2602-B1	343.1	Mains - Replaced / Restored-TD Mains 4in & Less	331100		639		161		5,307	
Special	RP-2602-B1	343.2	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	331210		79,666		3,339		226,108	
Special	RP-2602-B1	343.3	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	331350		72		35		857	
Special	RP-2602-B1	343.4	Mains - Replaced / Restored-TD Mains 18in & Grtr	331400							
Normal	RP-2602-B1	345	Mains - Replaced / Restored-Services	333000							
Normal	RP-2602-B1	346	Mains - Replaced / Restored-Meters	334100							
Normal	RP-2602-B1	347	Mains - Replaced / Restored-Meter Installations	334200							
Normal	RP-2602-B1	348	Mains - Replaced / Restored-Hydrants	335000						1,462	
Normal	RP-2602-B1	390.1	Mains - Replaced / Restored-Struct & Imp Offices	304600							
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Other	340230							
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Personal	340220							
Normal	RP-2602-B1	391.28	Mains - Replaced / Restored-Comp Software Personal	340320							
Normal	RP-2602-B1	392.11	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	341100							
Normal	RP-2602-B1	392.12	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	341200							
Normal	RP-2602-B1	394	Mains - Replaced / Restored-Tools,Shop,Garage Equip	343000							
Normal	RP-2602-B1	398	Mains - Replaced / Restored-Misc Equipment	347000							
Special	RP-2602-D1	343.3	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	331350							
Normal	RP-2602-Q1	316	Process Plant - Facilities and Equip-Supply Mains	309000							
Normal	RP-2602-Q1	321	Process Plant - Facilities and Equip-Struct & Imp P	304200							
Normal	RP-2602-Q1	323.2	Process Plant - Facilities and Equip-Power Generation Equip Other	310100							
Normal	RP-2602-Q1	325	Process Plant - Facilities and Equip-Pump Equip Electric	311200							
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pumping Equipment WT	311530							
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pump Equip Other	311500							
Normal	RP-2602-Q1	331	Process Plant - Facilities and Equip-Struct & Imp WT	304300							

(62,131)

(313)

(3,872)

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	Apr-05		May-05		Jun-05			
			NARUC Acct No.	JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal/Special		Budget Item Description								
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Computer Software	391.25	340300	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp Software Other	391.28	340330	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Laboratory Equipment	395	344000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Operated Equipment	396	345000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Remote Control & Instrumentati	397	346100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	397	346190	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Tools and Equipment-Supply Mains	316	309000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp AG-Lease	341	304510	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp TD	341	304400	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Meters	346	334100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Trans Equip Other	392.3	341400	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Tools,Shop,Garage Equip	394	343000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Laboratory Equipment	395	344000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Hvy Duty Trks	392.12	341200	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Autos	392.2	341300	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Other	392.3	341400	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Power Operated Equipment	396	345000	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	342	330000	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	342.99	330003	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp SS	311	304100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp TD	341	304400	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Offices	390.1	304600	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Misc	390.3	304800	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Other Office Equipment	391.3	340500	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397.2	346200	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Special	RP-2602-M1	Security Equipment and Systems-Misc Equipment	341	304500	\$	-	\$	-	\$	-
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	303.99	339600	\$	-	\$	-	\$	-
		Total		\$ 277,758	\$ -	\$ 230,531	\$ -	\$ 434,337	\$ (82,415)	\$ -

Tennessee American Water Response to TRA Staff Data Request 51 A & B									
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		Jul-05		Aug-05		Sep-05	
		NARUC Acct No.	JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003 CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	153,242	\$	605,755	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	6,719	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$	-
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	-	5,313	\$	5,119	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Organization	301	301000	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-
Normal	26020401 Business Process Efficiency Project-Computer Software	391.25	340300	\$	-	591	\$	263,416	\$
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	\$	-	\$	-
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-
Special	26020403 - Security: Physical hardening-Misc Equipment	398	347000	\$	-	\$	-	434,940	\$
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-Services	345	333000	\$	-	\$	-	\$	-
Special	26020501 TN DOT Relocations-Hydrants	348	335000	\$	-	\$	-	\$	-
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$	-
Normal	26020602 Hill City Discharge-Supply Mains	316	309000	\$	-	\$	-	\$	-
Normal	26020602 Hill City Discharge-Struct & Imp P	321	304200	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	343.3	331350	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340230	\$	-	\$	-	\$	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentat	391.21	340210	\$	-	\$	-	\$	-
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	397	346190	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-Organization	398	347000	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	301	301000	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-Services	345	333000	\$	-	\$	-	\$	-
Special	26020906 CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	\$	-	\$	-
Special	26020912 CHAT-Customer Service System-Comp Software Mainframe	392.11	341100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	391.25	340310	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	343.3	331350	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	313	306000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	325	311200	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	331	304300	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	332	320100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343	331001	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.1	331100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 18in & Grtr (TN)	343.2	331210	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 24in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 30in & Grtr (TN)	345	333000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 36in & Grtr (TN)	346	334100	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	399	348000	\$	-	\$	-	\$	-
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-
Normal	26040206 CHAT-Lone Oak Acquisition-Services	345	333000	\$	-	\$	-	\$	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Jul-05		Aug-05		Sep-05		Retire
				In Service	Retire	In Service	Retire	In Service	Retire	
				JDE No.	Acct No.	JDE No.	Acct No.	JDE No.	Acct No.	
Normal	26040206	346	CHAT-Lone Oak Acquisition-Meters	334100	\$	-	\$	-	\$	-
Normal	26040206	348	CHAT-Lone Oak Acquisition-Hydrants	335000	\$	-	\$	-	\$	-
Normal	26060302	342	Walden's Ridge Utility-Dist Reservoirs & Standpipes	330000	\$	-	\$	-	\$	-
Normal	26060302	343	Walden's Ridge Utility-TD Mains 10in to 16in	331300	\$	-	\$	-	\$	-
Normal	26060302	348	Walden's Ridge Utility-Hydrants	335000	\$	-	\$	-	\$	-
Normal	26060302	391.25	Walden's Ridge Utility-Computer Software	340300	\$	-	\$	-	\$	-
Normal	Adjustment	331.99	2006 Overhead Adjustment-Power Generation Equip Other	310100	\$	-	\$	-	\$	-
Normal	Adjustment	341	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	304301	\$	-	\$	-	\$	-
Normal	Adjustment	343	2006 Overhead Adjustment-Struct & Imp AG-Lease	304510	\$	-	\$	-	\$	-
Normal	Adjustment	343.1	2006 Overhead Adjustment-TD Mains Not Classified by Siz	331001	\$	-	\$	-	\$	-
Normal	Adjustment	345	2006 Overhead Adjustment-TD Mains 4in & Less	331100	\$	-	\$	-	\$	-
Normal	Adjustment	346	2006 Overhead Adjustment-Services	333000	\$	-	\$	-	\$	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters	334100	\$	-	\$	-	\$	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters Other	334130	\$	-	\$	-	\$	-
Normal	Adjustment	391.25	2006 Overhead Adjustment-Meters Plastic Case	334120	\$	-	\$	-	\$	-
Normal	Adjustment	316	2006 Overhead Adjustment-Computer Software	340300	\$	-	\$	-	\$	-
Normal	DV-2602-1	321	Developer Contribution-Supply Mains	309000	\$	-	\$	-	\$	-
Normal	DV-2602-1	331	Developer Contribution-Struct & Imp P	304200	\$	-	\$	-	\$	-
Normal	DV-2602-1	332	Developer Contribution-Struct & Imp WT	304300	\$	-	\$	-	\$	-
Normal	DV-2602-1	343	Developer Contribution-WT Equip Non-Media	320100	\$	-	\$	-	\$	-
Normal	DV-2602-1	343.1	Developer Contribution-TD Mains 10in to 16in	331300	\$	-	\$	-	\$	-
Normal	DV-2602-1	343.2	Developer Contribution-TD Mains 4in & Less	331100	\$	-	\$	-	\$	-
Normal	DV-2602-1	343.3	Developer Contribution-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-
Normal	DV-2602-1	345	Developer Contribution-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$	-
Normal	DV-2602-1	348	Developer Contribution-Services	333000	\$	-	\$	-	\$	-
Normal	DV-2602-1	343.2	Developer Contribution-Hydrants	335000	\$	-	\$	-	\$	-
Normal	DV-2602-1	340.11	Developer Contribution-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-
Normal	Land Sale	340.11	Land Sale-Land TD	303501	\$	-	\$	-	\$	-
Normal	RP-2602-A1	343.1	Mains - New-TD Mains 4in & Less	331100	\$	-	\$	-	\$	-
Normal	RP-2602-A1	343.2	Mains - New-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-
Normal	RP-2602-A1	345	Mains - New-Services	333000	\$	-	\$	-	\$	-
Normal	RP-2602-A1	348	Mains - New-Hydrants	340310	\$	-	\$	-	\$	-
Normal	RP-2602-A1	391.25	Mains - New-Comp Software Mainframe	335000	\$	-	\$	-	\$	-
Normal	RP-2602-H1	343.3	Meters - New-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$	-
Normal	RP-2602-H1	345	Meters - New-Services	333000	\$	-	\$	-	\$	-
Normal	RP-2602-H1	346	Meters - New-Meters	334100	\$	-	\$	-	\$	-
Normal	RP-2602-H1	346	Meters - New-Meters Other-Rem Rdr Units	334131	\$	-	\$	-	\$	-
Normal	RP-2602-H1	346.1	Meters - New-Meters Bronze Case	334110	\$	-	\$	-	\$	-
Normal	RP-2602-H1	347	Meters - New-Meter Installations	334200	\$	-	\$	-	\$	-
Normal	RP-2602-H1	391.2	Meters - New-Comp & Periph Equip	340200	\$	-	\$	-	\$	-
Normal	RP-2602-H1	391.21	Meters - New-Comp & Periph Personal	340220	\$	-	\$	-	\$	-
Normal	RP-2602-H1	394	Meters - New-Tools Shop/Garage Equip	343000	\$	-	\$	-	\$	-
Normal	RP-2602-J1	346	Meters - Replaced-Meters	334100	\$	-	\$	-	\$	-
Normal	RP-2602-J1	346.1	Meters - Replaced-Meters Bronze Case	334110	\$	-	\$	-	\$	-
Normal	RP-2602-J1	347	Meters - Replaced-Meter Installations	334200	\$	-	\$	-	\$	-
Normal	RP-2602-J1	348	Meters - Replaced-Hydrants	335000	\$	-	\$	-	\$	-
Normal	RP-2602-J1	391.21	Meters - Replaced-Comp & Periph Other	340230	\$	-	\$	-	\$	-
Normal	RP-2602-G1	391.21	Meters - Replaced-Comp & Periph Personal	340220	\$	-	\$	-	\$	-
Normal	RP-2602-H1	345	Services and Laterals - New-Services	333000	\$	-	\$	-	\$	-
Normal	RP-2602-H1	345	Services and Laterals - Replaced-Services	333000	\$	-	\$	-	\$	-
Normal	RP-2602-H1	348	Services and Laterals - Replaced-Hydrants	335000	\$	-	\$	-	\$	-
Normal	RP-2602-F1	343.1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	331100	\$	-	\$	-	\$	-
Normal	RP-2602-F1	343.2	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-

Tennessee American Water Response to TRA 31an Data Request, 3/18/2012																
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month				Jul-05		Aug-05		Sep-05						
		NARUC Acct No.	JDE No.	In Service	Retire	In Service	Retire	In Service	Retire							
	Budget Item Description															
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-Hydrants	348	335000	\$	4,336	\$	-	\$	3,300	\$	(5,792)	\$	11,960	\$	(157)
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-Hydrants	348	335000	\$	1,162	\$	-	\$	8,918	\$	-	\$	34,684	\$	-
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	Mains - Unscheduled-Services	345	333000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	Mains - Unscheduled-Hydrants	348	335000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	ITS Equipment and Systems-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	22,142	\$	-	\$	-	\$	-
Normal	RP-2602-K1	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	ITS Equipment and Systems-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-	\$	-	\$	-	5,424	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Data Handling Equipment	391.2	340400	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$	13,728	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Mainframe	391.25	340310	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Personal	391.28	340320	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Other Office Equipment	391.3	340500	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comm Equip Telephone	397.2	346200	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Supply Mains	316	309000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp P	321	304200	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Land TD	340.11	303501	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp AG	341	304500	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 8in	343	331200	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 4in & Less	343.1	331100	\$	22,696	\$	-	\$	(4,232)	\$	-	\$	187	\$	-
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	343.2	331210	\$	53,434	\$	-	\$	72,086	\$	-	\$	97,192	\$	-
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	343.3	331350	\$	10,658	\$	-	\$	787	\$	-	\$	12,799	\$	-
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 18in & Grtr	343.4	331400	\$	102	\$	-	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	Mains - Replaced / Restored-Services	345	333000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Meters	346	334100	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Water Installations	347	334200	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Hydrants	348	335000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp Offices	390.1	304600	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp Software Personal	391.28	340320	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	392.12	341200	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Tools,Shop,Garage Equip	394	343000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Misc Equipment	398	347000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Special	RP-2602-D1	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Supply Mains	316	309000	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp P	321	304200	\$	-	\$	-	\$	44,908	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Generation Equip Other	323.2	310100	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Electric	325	311200	\$	59	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pumping Equipment WT	328.3	311530	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Other	328.3	311500	\$	-	\$	-	\$	-	\$	-	\$	-	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp WT	331	304300	\$	-	\$	-	\$	5,085	\$	-	\$	-	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE Acct No.	Jul-05		Aug-05		Sep-05	
					In Service	Retire	In Service	Retire	In Service	Retire
Normal/Special		Budget Item Description								
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-WT Equip Non-Media	332	320100	\$ (7,637)	\$ -	\$ 20,549	\$ (16,212)	\$ 6,825	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp & Periph Equip	391.2	340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Computer Software	391.25	340300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp Software Other	391.28	340330	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Laboratory Equipment	395	344000	\$ 7,309	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Operated Equipment	396	345000	\$ -	\$ -	\$ 21,580	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Remote Control & Instrumentati	397	346190	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	397	346100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Misc Equipment	398	347000	\$ -	\$ -	\$ 21,781	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Supply Mains	316	309000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp AG-Lease	341	304510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp TD	341	304400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Meters	346	334100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Office Furniture & Equip	391.1	340100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Comp & Periph Equip	391.2	340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Trans Equip Other	392.3	341400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Tools,Shop,Garage Equip	394	343000	\$ 4,282	\$ -	\$ -	\$ -	\$ 12,863	\$ -
Normal	RP-2602-P1	Tools and Equipment-Laboratory Equipment	395	344000	\$ 4,136	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Misc Equipment	398	347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Vehicles-Trans Equip Lt Duty Trks	392.11	341100	\$ 24,740	\$ -	\$ 23,701	\$ -	\$ 6,479	\$ -
Normal	RP-2602-Q1	Vehicles-Trans Equip Hvy Duty Trks	392.12	341200	\$ 59,092	\$ -	\$ 15	\$ -	\$ 14,322	\$ -
Normal	RP-2602-Q1	Vehicles-Trans Equip Autos	392.2	341300	\$ 18,759	\$ -	\$ -	\$ -	\$ 46,820	\$ -
Normal	RP-2602-Q1	Vehicles-Trans Equip Other	392.3	341400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Vehicles-Power Operated Equipment	396	345000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	342	330000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	342.99	330003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp SS	311	304100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp TD	341	304400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Offices	390.1	304600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Misc	390.3	304800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Office Furniture & Equip	391.1	340100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Other Office Equipment	391.3	340500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Non-Telephone	397	346100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397.2	346200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Misc Equipment	398	347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-M1	Security Equipment and Systems-Misc Equipment	341	304500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	303.99	339600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Total		\$ 356,585	\$ (22,240)	\$ 624,920	\$ (82,268)	\$ 2,295,961	\$ (9,306)	\$ -

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Oct-05		Nov-05		Dec-05	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003 CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	6,750	\$	-	-	\$	947
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	-	-	-
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	-	-
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	1,224	\$	-	-	253,292	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400	\$	127,399	\$	-	-	433	-
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	3,309	\$	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	8	\$	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Organization	301	301000	\$	-	\$	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	85,722	\$	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Computer Software	391.25	340300	\$	(10,111)	\$	31,312	-	13,517	-
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	\$	-	-	1,579,051	-
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	\$	-	-	59,087	-
Special	26020403 - Security: Physical hardening-Misc Equipment	398	347000	\$	7,146	\$	-	-	-	-
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	-	\$	-	-	-	-
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	-	-
Special	26020501 TN DOT Relocations-Services	345	333000	\$	-	\$	-	-	-	-
Special	26020501 TN DOT Relocations-Hydrants	348	335000	\$	-	\$	-	-	-	-
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	-	-	-
Normal	26020602 Hill City Discharge-Supply Mains	316	309000	\$	-	\$	-	-	-	-
Normal	26020602 Hill City Discharge-Struct & Imp P	321	304200	\$	-	\$	-	-	-	-
Normal	26020602 Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340230	\$	-	\$	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340210	\$	-	\$	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumental	397	346190	\$	-	\$	-	-	-	-
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Organization	301	301000	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Services	345	333000	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	\$	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	-	-	-
Normal	26029612 CHAT-Customer Service System-Comp Software Mainframe	391.25	340310	\$	-	\$	-	-	-	-
Special	26030204 CHAT-Replace Lkt Mtn Supp Mal-TD Mains 12in & Grtr (TN)	343.3	331350	\$	128	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	325	311200	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	331	304300	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	442,560	-
Normal	26030204 CHAT-Suck Creek Utility-Services	345	333000	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Meters	346	334100	\$	238,196	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Other Tangible Property	399	348000	\$	-	\$	-	-	-	-
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	245,243	-
Normal	26040206 CHAT-Lone Oak Acquisition-Services	345	333000	\$	22,520	\$	-	-	-	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B												
Additions/Adjustments and Retirements by Account Number by Month			Oct-05			Nov-05			Dec-05			
Budget Item	Budget Item Description	NARUC Acct No.	JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire	In Service	Retire	
Normal/Special	26040206 CHAT-Lone Oak Acquisition-Meters	346	334100	\$ 33,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	26040206 CHAT-Lone Oak Acquisition-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	26060302 Walden's Ridge Utility-Dist Reservoirs & Standpipes	342	330000	\$ -	\$ -	\$ -	\$ -	1,365,994	\$ -	\$ -	\$ -	
	26060302 Walden's Ridge Utility-TD Mains 10in to 16in	343	331300	\$ -	\$ -	\$ -	\$ -	3,035,441	\$ -	\$ -	\$ -	
	26060302 Walden's Ridge Utility-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	297	\$ -	\$ -	\$ -	
	26060302 Walden's Ridge Utility-Computer Software	391.25	340300	\$ -	\$ -	\$ -	\$ -	16,817	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Power Generation Equip Other	323.2	310100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Struct & Imp AG-Lease	341	304510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-TD Mains Not Classified by Siz	343	331001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Services	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Meters	346	334100	\$ 4,572	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Meters Other	346	334130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Meters Plastic Case	346.2	334120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Adjustment 2006 Overhead Adjustment-Computer Software	391.25	340300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-Supply Mains	316	309000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-Struct & Imp P	321	304200	\$ -	\$ -	\$ -	\$ -	\$ -	208,037	\$ -	\$ -	
	DV-2602-1 Developer Contribution-Struct & Imp WT	331	304300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-WT Equip Non-Media	332	320100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-TD Mains 10in to 16in	343	331300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$ 112,331	\$ -	\$ -	103,145	\$ -	\$ -	\$ -	\$ -	
	DV-2602-1 Developer Contribution-TD Mains 12in & Grtr (TN)	343.3	331350	\$ -	\$ -	\$ -	2,273	\$ -	167,774	\$ -	\$ -	
	DV-2602-1 Developer Contribution-Services	345	333000	\$ 420	\$ -	\$ -	23,482	\$ -	111,343	\$ -	\$ -	
	DV-2602-1 Developer Contribution-Hydrants	348	335000	\$ 3,341	\$ -	\$ -	14,689	\$ -	66,536	\$ -	\$ -	
	DV-2604-1 Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Land Sale	Land Sale-Land TD	340.11	303501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	RP-2602-A1 Mains - New-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	21,030	\$ -	\$ -	
	RP-2602-A1 Mains - New-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	18,849	\$ -	\$ -	
	RP-2602-A1 Mains - New-Services	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	RP-2602-A1 Mains - New-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	RP-2602-A1 Mains - New-Comp Software Mainframe	391.25	340310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	RP-2602-H1 Meters - New-TD Mains 12in & Grtr (TN)	343.3	331350	\$ 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	RP-2602-H1 Meters - New-Services	345	333000	\$ 6,699	\$ -	\$ -	2,422	\$ -	500	\$ -	\$ -	
RP-2602-H1 Meters - New-Meters	346	334100	\$ 20,502	\$ -	\$ -	(97,129)	\$ -	25,499	\$ -	\$ -		
RP-2602-H1 Meters - New-Meters Other-Rom Rdr Units	346.1	334131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Meters - New-Meters Bronze Case	346.1	334110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Meters - New-Meter Installations	347	334200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Meters - New-Comp & Periph Equip	391.2	340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Meters - New-Comp & Periph Personal	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Meters - New-Tools-Shop, Garage Equip	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-J1 Meters - Replaced-Meters	394	343000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-J1 Meters - Replaced-Meters Bronze Case	346	334100	\$ 37,748	(18,357)	119,657	(23,538)	\$ -	662,353	(49,605)	\$ -		
RP-2602-J1 Meters - Replaced-Meter Installations	346.1	334110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-J1 Meters - Replaced-Hydrants	347	334200	\$ 4,258	\$ -	\$ -	9,020	\$ -	28,767	(15,834)	\$ -		
RP-2602-J1 Meters - Replaced-Comp & Periph Other	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-J1 Meters - Replaced-Comp & Periph Personal	391.21	340230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-G1 Services and Lateralis - New-Services	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-G1 Services and Lateralis - Replaced-Services	345	333000	\$ 68,987	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-H1 Services and Lateralis - Replaced-Hydrants	345	333000	\$ 2,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-F1 Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
RP-2602-F1 Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Jan-06		Feb-06		Mar-06	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003 CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25	340300		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300		\$ -	\$ -	110,436	\$ -	(90,429)	\$ -
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400		\$ -	\$ -	11,165	\$ -	837	\$ -
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	348	335000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020401 Business Process Efficiency Project-Organization	301	301000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.2	340200		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020401 Business Process Efficiency Project-Computer Software	391.25	340300		11,538	\$ -	3,695	\$ -	7,629	\$ -
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200		\$ -	\$ -	138,447	\$ -	(291,430)	\$ -
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020403 - Security: Physical hardening-Misc Equipment	398	347000		8,001	\$ -	600	\$ -	\$ -	\$ -
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343	331300		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020501 TN DOT Relocations-Services	345	333000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020501 TN DOT Relocations-Hydrants	348	335000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020602 Hill City Discharge-Supply Mains	316	309000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020602 Hill City Discharge-Struct & Imp P	321	304200		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	343.3	331350		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340230		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	391.21	340210		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	397	346190		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-Organization	398	347000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	301	301000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-Services	345	333000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029606 CHAT-Filter #2 Improvements-Meters	346	334100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029612 CHAT-Customer Service System-Comp Software Mainframe	392.11	341100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	26029804 CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	391.25	340310		\$ -	\$ -	680	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	343.3	331350		\$ -	\$ -	\$ -	\$ -	51	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	313	306000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	325	311200		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	331	304300		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	332	320100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	343	331001		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.1	331100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.2	331210		\$ -	\$ -	1,057	\$ -	(1,057)	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Services	343.3	331350		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Meters	345	333000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	346	334100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	399	348000		\$ -	\$ -	4,918	\$ -	\$ -	\$ -
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210		\$ -	\$ -	2,313	\$ -	(633)	\$ -
Normal	26040206 CHAT-Lone Oak Acquisition-Services	345	333000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Jan-06		Feb-06		Mar-06		Retire
				In Service	Retire	In Service	Retire	In Service	Retire	
Normal	26040206 CHAT-Lone Oak Acquisition-Meters	346		\$ 334100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	26040206 CHAT-Lone Oak Acquisition-Hydrants	348		\$ 335000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	26060302 Walden's Ridge Utility-Dist Reservoirs & Standpipes	342		\$ 330000	\$ -	\$ 114,586	\$ -	\$ (114,586)	\$ -	-
Normal	26060302 Walden's Ridge Utility-TD Mains 10in to 16in	343		\$ 331300	\$ -	\$ 482,015	\$ -	\$ (482,015)	\$ -	-
Normal	26060302 Walden's Ridge Utility-Hydrants	348		\$ 335000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	26060302 Walden's Ridge Utility-Computer Software	391.25		\$ 340300	\$ -	\$ 13,579	\$ -	\$ (6,998)	\$ -	-
Normal	Adjustment	323.2	2006 Overhead Adjustment-Power Generation Equip Other	\$ 310100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	331.99	2006 Overhead Adjustment-Struct & Imp WT Dpr Pntg (IN	\$ 304301	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	341	2006 Overhead Adjustment-Struct & Imp AG-Lease	\$ 304510	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	343	2006 Overhead Adjustment-TD Mains Not Classified by Siz	\$ 331001	\$ -	\$ -	\$ -	\$ (3)	\$ -	-
Normal	Adjustment	343.1	2006 Overhead Adjustment-TD Mains 4in & Less	\$ 331100	\$ -	\$ -	\$ -	\$ (4)	\$ -	-
Normal	Adjustment	345	2006 Overhead Adjustment-Services	\$ 333000	\$ (72)	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters	\$ 334100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters Other	\$ 334130	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	346.2	2006 Overhead Adjustment-Meters Plastic Case	\$ 334120	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Adjustment	391.25	2006 Overhead Adjustment-Computer Software	\$ 340300	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	316	Developer Contribution-Supply Mains	\$ 309000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	321	Developer Contribution-Struct & Imp P	\$ 304200	\$ -	\$ 640	\$ -	\$ -	\$ 92	-
Normal	DV-2602-1	331	Developer Contribution-Struct & Imp WT	\$ 304300	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	332	Developer Contribution-WT Equip Non-Media	\$ 320100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	343	Developer Contribution-TD Mains 10in to 16in	\$ 331300	\$ -	\$ -	\$ -	\$ -	\$ 68	-
Normal	DV-2602-1	343.1	Developer Contribution-TD Mains 4in & Less	\$ 331100	\$ 46,312	\$ 3,473	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	343.2	Developer Contribution-TD Mains 6in to 10in (TN)	\$ 331210	\$ 174,862	\$ 13,115	\$ -	\$ 78,396	\$ -	-
Normal	DV-2602-1	343.3	Developer Contribution-TD Mains 12in & Grtr (TN)	\$ 331350	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	DV-2602-1	345	Developer Contribution-Services	\$ 333000	\$ 4,400	\$ 330	\$ -	\$ 26,412	\$ -	-
Normal	DV-2602-1	348	Developer Contribution-Hydrants	\$ 335000	\$ 21,550	\$ 1,796	\$ -	\$ 5,332	\$ -	-
Normal	DV-2604-1	343.2	Developer Contribution-TD Mains 6in to 10in (TN)	\$ 331210	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	Land Sale-Land TD	340.11		\$ 303501	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-A1	343.1	Mains - New-TD Mains 4in & Less	\$ 331100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-A1	343.2	Mains - New-TD Mains 6in to 10in (TN)	\$ 331210	\$ (72)	\$ 8,710	\$ -	\$ 28,658	\$ -	-
Normal	RP-2602-A1	345	Mains - New-Services	\$ 333000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-A1	348	Mains - New-Hydrants	\$ 335000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-A1	391.25	Mains - New-Comp Software Mainframe	\$ 340310	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	343.3	Meters - New-TD Mains 12in & Grtr (TN)	\$ 331350	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	345	Meters - New-Services	\$ 333000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	346	Meters - New-Meters	\$ 334100	\$ -	\$ 634	\$ -	\$ 203	\$ -	-
Normal	RP-2602-H1	346	Meters - New-Meters Other-Rem Rdr Units	\$ 334131	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	346.1	Meters - New-Meters Bronze Case	\$ 334110	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	347	Meters - New-Meter Installations	\$ 334200	\$ -	\$ 16,939	\$ -	\$ 1,281	\$ -	-
Normal	RP-2602-H1	391.2	Meters - New-Comp & Periph Equip	\$ 340200	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	391.21	Meters - New-Comp & Periph Personal	\$ 340220	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-H1	394	Meters - New-Tools Shop, Garage Equip	\$ 343000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-J1	346	Meters - Replaced-Meters	\$ 334100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-J1	346.1	Meters - Replaced-Meters Bronze Case	\$ 334110	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-J1	347	Meters - Replaced-Meters Installations	\$ 334200	\$ 4,752	\$ 9,620	\$ -	\$ 18,826	\$ -	-
Normal	RP-2602-J1	348	Meters - Replaced-Hydrants	\$ 335000	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-J1	391.21	Meters - Replaced-Comp & Periph Other	\$ 340230	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-J1	391.21	Meters - Replaced-Comp & Periph Personal	\$ 340220	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-G1	345	Services and Laterals - New-Services	\$ 333000	\$ 2,226	\$ 20,470	\$ -	\$ 3,802	\$ -	-
Normal	RP-2602-H1	345	Services and Laterals - Replaced-Services	\$ 333000	\$ -	\$ 3,248	\$ -	\$ 14,523	\$ -	-
Normal	RP-2602-F1	343.1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	\$ 331100	\$ -	\$ -	\$ -	\$ -	\$ -	-
Normal	RP-2602-F1	343.2	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	\$ 331210	\$ -	\$ -	\$ -	\$ -	\$ -	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B											
Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Additions/Adjustments and Retirements by Account Number by Month		Jan-06		Feb-06		Mar-06	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-F1	348	Hydrants, Valves, and Manholes-Rep-Hydrants	335000		7,197		1,931		5,312	
Normal	RP-2602-E1	343.2	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	331210		7,910		593			
Normal	RP-2602-E1	348	Hydrants, Valves, and Manholes-New-Hydrants	335000		140		1,805		1,718	
Special	RP-2602-C1	343.1	Mains - Unscheduled-TD Mains 4in & Less	331100							
Special	RP-2602-C1	343.2	Mains - Unscheduled-TD Mains 6in to 10in (TN)	331210							
Special	RP-2602-C1	343.3	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	331350							
Special	RP-2602-C1	345	Mains - Unscheduled-Services	333000							
Special	RP-2602-C1	348	Mains - Unscheduled-Hydrants	335000							
Normal	RP-2602-K1	332	ITS Equipment and Systems-WT Equip Non-Media	320100							
Normal	RP-2602-K1	343.2	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	331210							
Normal	RP-2602-K1	391.1	ITS Equipment and Systems-Office Furniture & Equip	340100							
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Comp & Periph Equip	340200							
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Data Handling Equipment	340400							
Normal	RP-2602-K1	391.21	ITS Equipment and Systems-Comp & Periph Other	340230							
Normal	RP-2602-K1	391.25	ITS Equipment and Systems-Comp & Periph Personal	340310							
Normal	RP-2602-K1	391.28	ITS Equipment and Systems-Comp Software Mainframe	340320							
Normal	RP-2602-K1	391.3	ITS Equipment and Systems-Other Office Equipment	340500							
Normal	RP-2602-K1	397.2	ITS Equipment and Systems-Comm Equip Telephone	346200							
Normal	RP-2602-B1	316	Mains - Replaced / Restored-Supply Mains	309000							
Normal	RP-2602-B1	321	Mains - Replaced / Restored-Struct & Imp P	304200							
Normal	RP-2602-B1	331.99	Mains - Replaced / Restored-Struct & Imp WT Depr Pnting (IN	304301							
Normal	RP-2602-B1	332	Mains - Replaced / Restored-WT Equip Non-Media	320100							
Normal	RP-2602-B1	340.11	Mains - Replaced / Restored-Land TD	303501							
Normal	RP-2602-B1	341	Mains - Replaced / Restored-Struct & Imp AG	304500							
Normal	RP-2602-B1	342	Mains - Replaced / Restored-Elevated Tanks & Standpipes	330100							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains Not Classified by Siz	331001							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 10in to 16in	331300							
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 6in to 8in	331200				632			
Normal	RP-2602-B1	343.1	Mains - Replaced / Restored-TD Mains 4in & Less	331100				3,690			
Normal	RP-2602-B1	343.2	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	331210		557		7,430		(2,798)	
Special	RP-2602-B1	343.3	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	331350						45,722	
Special	RP-2602-B1	343.4	Mains - Replaced / Restored-TD Mains 18in & Grtr	331400							
Normal	RP-2602-B1	345	Mains - Replaced / Restored-Services	333000							
Normal	RP-2602-B1	346	Mains - Replaced / Restored-Meters	334100							
Normal	RP-2602-B1	347	Mains - Replaced / Restored-Meter Installations	334200							
Normal	RP-2602-B1	348	Mains - Replaced / Restored-Hydrants	335000							
Normal	RP-2602-B1	390.1	Mains - Replaced / Restored-Struct & Imp Offices	304600							
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Other	340230							
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Personal	340220							
Normal	RP-2602-B1	391.28	Mains - Replaced / Restored-Comp Software Personal	340320							
Normal	RP-2602-B1	392.11	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	341100							
Normal	RP-2602-B1	392.12	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	341200							
Normal	RP-2602-B1	394	Mains - Replaced / Restored-Tools,Shop,Garage Equip	343000							
Normal	RP-2602-B1	398	Mains - Replaced / Restored-Misc Equipment	347000							
Special	RP-2602-D1	343.3	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	331350							
Normal	RP-2602-Q1	316	Process Plant - Facilities and Equip-Supply Mains	309000							
Normal	RP-2602-Q1	321	Process Plant - Facilities and Equip-Struct & Imp P	304200							
Normal	RP-2602-Q1	323.2	Process Plant - Facilities and Equip-Power Generation Equip Other	310100				4,140		74	
Normal	RP-2602-Q1	325	Process Plant - Facilities and Equip-Pump Equip Electric	311200							
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pumping Equipment WT	311530							
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pump Equip Other	311500							
Normal	RP-2602-Q1	331	Process Plant - Facilities and Equip-Struct & Imp WT	304300							

Total

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Apr-06		May-06		Jun-06	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003 CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502		(993)	-	-	-	-	-
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100		-	-	-	-	-	-
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350		-	-	-	-	-	-
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25	340300		-	-	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300		5,645	-	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in (TN)	343.2	331210		-	-	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.4	331400		-	-	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	348	335000		-	-	-	-	-	-
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	343.2	331210		-	-	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Organization	301	301000		-	-	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.2	340200		-	-	-	-	-	-
Normal	26020401 Business Process Efficiency Project-Computer Software	391.25	340300		7,356	(1,688)	-	-	-	-
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200		(226,590)	-	-	-	354,349	216
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300		-	-	-	-	-	-
Special	26020403 - Security: Physical hardening-Misc Equipment	398	347000		-	-	-	-	287,688	-
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343	331300		-	-	-	-	330,384	-
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210		-	-	-	-	-	-
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350		-	-	-	-	-	-
Special	26020501 TN DOT Relocations-Services	345	333000		-	-	-	-	-	-
Special	26020501 TN DOT Relocations-Hydrants	348	335000		-	-	-	-	188,507	-
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400		-	-	-	-	14,642	-
Normal	26020602 Hill City Discharge-Supply Mains	316	309000		-	-	-	-	-	-
Normal	26020602 Hill City Discharge-Struct & Imp P	321	304200		-	-	-	-	-	-
Normal	26020602 Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350		-	-	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340230		-	-	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.25	340210		-	-	-	-	-	-
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397	346190		-	-	-	-	-	-
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Organization	301	301000		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Services	345	333000		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Meters	346	334100		-	-	-	-	-	-
Special	26029606 CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100		-	-	-	-	-	-
Normal	26029612 CHAT-Customer Service System-Comp Software Mainframe	391.25	340310		-	-	-	-	-	-
Special	26029804 CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	343.3	331350		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	325	311200		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	331	304300		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210		(164,735)	-	9,368	-	3,560	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Services	345	333000		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Meters	346	334100		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	348	335000		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100		-	-	-	-	-	-
Normal	26030204 CHAT-Suck Creek Utility-Other Tangible Property	399	348000		-	-	-	-	-	-
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210		4,827	-	3,884	-	681	-
Normal	26040206 CHAT-Lone Oak Acquisition-Services	345	333000		-	-	-	-	-	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE Acct No.	Apr-06		May-06		Jun-06	
					In Service	Retire	In Service	Retire	In Service	Retire
Normal	26040206	CHAT-Lone Oak Acquisition-Meters	346	334100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26040206	CHAT-Lone Oak Acquisition-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26060302	Walden's Ridge Utility-Dist Reservoirs & Standpipes	342	330000	\$ (104,447)	\$ -	\$ 42,461	\$ -	\$ 32,290	\$ -
Normal	26060302	Walden's Ridge Utility-TD Mains 10in to 16in	343	331300	\$ (191,878)	\$ -	\$ 20,266	\$ -	\$ 205,502	\$ -
Normal	26060302	Walden's Ridge Utility-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	26060302	Walden's Ridge Utility-Computer Software	391.25	340300	\$ 4,014	\$ -	\$ 2,483	\$ -	\$ -	\$ -
Normal	26060302	Walden's Ridge Utility-Computer Software	323.2	310100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Power Generation Equip Other	331.99	304301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	341	304510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp AG-Lease	343	331001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-TD Mains Not Classified by Siz	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-TD Mains 4in & Less	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Services	346	334100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Meters	346	334100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Meters Other	346	334130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Meters Plastic Case	346.2	334120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	Adjustment	2006 Overhead Adjustment-Computer Software	391.25	340300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-Supply Mains	316	309000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-Struct & Imp P	321	304200	\$ 13	\$ -	\$ 1,174	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-Struct & Imp WT	331	304300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-WT Equip Non-Media	332	320100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-TD Mains 10in to 16in	343	331300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-TD Mains 4in & Less	343.1	331100	\$ 6,583	\$ -	\$ (43)	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$ 126,301	\$ -	\$ 164,300	\$ -	\$ (13,445)	\$ -
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	343.3	331350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	345	333000	\$ 31,555	\$ -	\$ 35,520	\$ -	\$ 30,342	\$ -
Normal	DV-2602-1	Developer Contribution-Hydrants	348	335000	\$ 16,242	\$ -	\$ 23,474	\$ -	\$ 3,584	\$ -
Normal	DV-2604-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (57,100)
Normal	Land Sale	Land Sale-Land TD	340.11	303501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-A1	Mains - New-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-A1	Mains - New-TD Mains 6in to 10in (TN)	343.2	331210	\$ 11,822	\$ -	\$ 7,452	\$ -	\$ 5,047	\$ -
Normal	RP-2602-A1	Mains - New-Services	345	333000	\$ -	\$ -	\$ 1,926	\$ -	\$ -	\$ -
Normal	RP-2602-A1	Mains - New-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-A1	Mains - New-Comp Software Mainframe	391.25	340310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-TD Mains 12in & Grtr (TN)	343.3	331350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Services	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Meters	346	334100	\$ 1,091	\$ -	\$ -	\$ -	\$ 27,149	\$ -
Normal	RP-2602-H1	Meters - New-Meters Other-Rem Rdr Units	346	334131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Meters Bronze Case	346.1	334110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Meter Installations	347	334200	\$ 42,796	\$ -	\$ 105,441	\$ -	\$ 52,991	\$ -
Normal	RP-2602-H1	Meters - New-Comp & Periph Equip	391.2	340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Comp & Periph Personal	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-H1	Meters - New-Tools Shop, Garage Equip	394	343000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-J1	Meters - Replaced-Meters	346	334100	\$ 4,660	\$ (275,154)	\$ 63,234	\$ (44,908)	\$ 62,381	\$ (2,660)
Normal	RP-2602-J1	Meters - Replaced-Meters Bronze Case	346.1	334110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-J1	Meters - Replaced-Meter Installations	347	334200	\$ 21,069	\$ -	\$ 35,522	\$ (4,979)	\$ 41,187	\$ -
Normal	RP-2602-J1	Meters - Replaced-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Other	391.21	340230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Personal	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-G1	Services and Laterals - New-Services	345	333000	\$ 67,327	\$ -	\$ 113,010	\$ -	\$ 37,482	\$ -
Normal	RP-2602-H1	Services and Laterals - Replaced-Services	345	333000	\$ 26,440	\$ -	\$ 40,073	\$ (8,483)	\$ 15,808	\$ -
Normal	RP-2602-H1	Services and Laterals - Replaced-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Apr-06		May-06		Jun-06	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-F1	348	335000		7,605	\$	-	\$	4,461	\$ (7,029)
Normal	RP-2602-E1	343.2	331210		-	-	-	-	-	-
Normal	RP-2602-E1	348	335000		24,496	-	7,991	-	14,165	-
Special	RP-2602-C1	343.1	331100		-	-	-	-	-	-
Special	RP-2602-C1	343.2	331210		-	-	-	-	-	-
Special	RP-2602-C1	343.3	331350		-	-	-	-	-	-
Special	RP-2602-C1	345	333000		-	-	-	-	-	-
Special	RP-2602-C1	348	335000		-	-	-	-	-	-
Normal	RP-2602-K1	332	320100		-	-	-	-	-	-
Normal	RP-2602-K1	343.2	331210		-	-	-	-	-	-
Normal	RP-2602-K1	391.1	340100		-	-	-	-	-	-
Normal	RP-2602-K1	391.2	340200		-	-	-	-	-	-
Normal	RP-2602-K1	391.2	340400		-	-	-	-	-	-
Normal	RP-2602-K1	391.21	340230		-	-	-	-	-	-
Normal	RP-2602-K1	391.21	340220		-	-	3,783	-	-	-
Normal	RP-2602-K1	391.25	340310		(6,820)	-	-	-	-	-
Normal	RP-2602-K1	391.28	340320		-	-	-	-	-	-
Normal	RP-2602-K1	391.3	340500		-	-	2,286	-	-	-
Normal	RP-2602-K1	397.2	346200		-	-	-	-	-	-
Normal	RP-2602-B1	316	309000		-	-	-	-	-	-
Normal	RP-2602-B1	321	304200		-	-	-	-	-	-
Normal	RP-2602-B1	331.99	304301		-	-	-	-	-	-
Normal	RP-2602-B1	332	320100		-	-	-	-	-	-
Normal	RP-2602-B1	340.11	303501		-	-	-	-	-	-
Normal	RP-2602-B1	341	304500		-	-	-	-	-	-
Normal	RP-2602-B1	342	330100		-	-	-	-	-	-
Normal	RP-2602-B1	343	331001		-	-	-	(6,815)	-	(22,414)
Normal	RP-2602-B1	343	331300		-	-	-	(2,283)	-	-
Normal	RP-2602-B1	343	331200		-	-	-	-	-	-
Normal	RP-2602-B1	343.1	331100		3,495	-	841	(1,693)	-	(39,927)
Normal	RP-2602-B1	343.2	331210		85,398	-	219,122	(9,703)	2,382	(1)
Special	RP-2602-B1	343.3	331350		(391)	-	10,699	(34)	318,480	(224)
Special	RP-2602-B1	343.4	331400		-	-	-	-	-	-
Normal	RP-2602-B1	345	333000		-	-	-	-	-	-
Normal	RP-2602-B1	346	334100		-	-	-	-	-	-
Normal	RP-2602-B1	347	334200		-	-	-	-	-	-
Normal	RP-2602-B1	348	335000		-	-	-	-	-	-
Normal	RP-2602-B1	390.1	304600		-	-	-	-	-	-
Normal	RP-2602-B1	391.21	340230		-	-	-	-	-	-
Normal	RP-2602-B1	391.21	340220		-	-	-	-	-	-
Normal	RP-2602-B1	391.28	340320		-	-	-	-	-	-
Normal	RP-2602-B1	392.11	341100		-	-	-	-	-	-
Normal	RP-2602-B1	392.12	341200		-	-	-	-	-	-
Normal	RP-2602-B1	394	343000		-	-	-	-	-	-
Normal	RP-2602-B1	398	347000		-	-	-	-	-	-
Special	RP-2602-D1	343.3	331350		-	-	-	-	-	-
Normal	RP-2602-Q1	316	309000		-	-	-	-	-	-
Normal	RP-2602-Q1	321	304200		-	-	-	-	-	-
Normal	RP-2602-Q1	323.2	310100		926	-	-	-	-	-
Normal	RP-2602-Q1	325	311200		4,799	-	1	-	11,637	(1,002)
Normal	RP-2602-Q1	328.3	311530		-	-	-	-	-	-
Normal	RP-2602-Q1	328.3	311500		20,366	-	6	-	-	-
Normal	RP-2602-Q1	331	304300		-	-	-	-	-	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		Apr-06		May-06		Jun-06		Retire
		NARUC Acct No.	JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire	
Normal	RP-2602-Q1	332	320100	\$	(239)	\$	-	\$	71,460	\$ (54,045)
Normal	RP-2602-Q1	391.2	340200	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	391.25	340300	\$	(2,356)	\$	(289)	\$	-	-
Normal	RP-2602-Q1	391.28	340330	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	395	344000	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	396	345000	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	397	346180	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	397	347000	\$	-	\$	-	\$	-	-
Normal	RP-2602-Q1	398	347000	\$	(6,107)	\$	-	\$	353,571	\$
Normal	RP-2602-Q1	316	309000	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	341	304510	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	341	304400	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	346	334100	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	391.1	340100	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	391.2	340200	\$	-	\$	2,725	\$	1,149	-
Normal	RP-2602-P1	392.3	341400	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	394	343000	\$	-	\$	22,993	\$	26,615	-
Normal	RP-2602-P1	395	344000	\$	-	\$	-	\$	-	-
Normal	RP-2602-P1	398	347000	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	392.11	341100	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	392.12	341200	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	392.2	341300	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	392.3	341400	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	396	345000	\$	-	\$	-	\$	-	-
Normal	RP-2602-O1	331.99	304301	\$	-	\$	-	\$	-	-
Special	RP-2602-R1	342	330000	\$	-	\$	-	\$	-	-
Special	RP-2602-R1	342.99	330003	\$	(66,208)	\$	-	\$	-	-
Normal	RP-2602-N1	311	304100	\$	(10,336)	\$	-	\$	-	-
Normal	RP-2602-N1	341	304400	\$	8,316	\$	2,616	\$	-	-
Normal	RP-2602-N1	390.1	304600	\$	-	\$	-	\$	-	-
Normal	RP-2602-N1	390.3	304800	\$	-	\$	-	\$	-	-
Normal	RP-2602-N1	391.1	340100	\$	-	\$	1,817	\$	-	-
Normal	RP-2602-N1	391.3	340500	\$	-	\$	-	\$	-	-
Normal	RP-2602-N1	397	346100	\$	-	\$	-	\$	-	-
Normal	RP-2602-N1	397.2	346200	\$	-	\$	-	\$	-	-
Normal	RP-2602-M1	398	347000	\$	-	\$	-	\$	-	-
Special	RP-2602-M1	341	304500	\$	-	\$	-	\$	-	-
Special	RP-2602-S1	303.99	339600	\$	-	\$	-	\$	-	-
Total				\$ (248,056)	\$ (275,236)	\$ 964,296	\$ (96,823)	\$ 2,487,468	\$ (184,403)	

Tennessee American Water Response to TRA Staff Data Request 51 A & B									
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		Jul-06		Aug-06		Sep-06	
		NARUC Acct No.	Budget Item Description	JDE No.	Acct No.	In Service	Retire	In Service	Retire
Special	26020003	340.12	CHAT-Design Eastridge Tank-Rights of Way TD	303502	\$	-	\$	-	\$
Special	26020003	342	CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	330100	\$	-	\$	-	\$
Special	26020003	343.3	CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$
Special	26020003	391.25	CHAT-Design Eastridge Tank-Computer Software	340300	\$	-	\$	-	\$
Special	26020303	343	CHAT-Design Eastridge Tank-TD Mains 10in to 16in	331300	\$	506	\$	-	\$
Special	26020303	343.2	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Special	26020303	343.4	CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	331400	\$	-	\$	-	\$
Special	26020303	348	CHAT-Design Eastridge Tank-Hydrants	335000	\$	-	\$	-	\$
Special	26020303	343.2	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Normal	26020401	301	Business Process Efficiency Project-Organization	301000	\$	-	\$	-	\$
Normal	26020401	391.2	Business Process Efficiency Project-Comp & Periph Equip	340200	\$	-	\$	-	\$
Normal	26020401	391.25	Business Process Efficiency Project-Computer Software	340300	\$	6,805	\$	-	\$
Special	26020402	321	Construct 1.0 MG Tank - Hill-Struct & Imp P	304200	\$	(58,355)	\$	2,074	\$
Special	26020402	343	Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	331300	\$	-	\$	-	\$
Special	26020403	398	- Security: Physical hardening-Misc Equipment	347000	\$	-	\$	-	\$
Special	26020501	343	TN DOT Relocations-TD Mains 10in to 16in	331300	\$	-	\$	150,136	\$
Special	26020501	343.2	TN DOT Relocations-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Special	26020501	343.3	TN DOT Relocations-TD Mains 12in & Grtr (TN)	331350	\$	59,023	\$	1,432	\$
Special	26020501	345	TN DOT Relocations-Services	333000	\$	-	\$	-	\$
Special	26020501	348	TN DOT Relocations-Hydrants	335000	\$	-	\$	-	\$
Special	26020601	343.4	Hill City Booster Suction-TD Mains 18in & Grtr	331400	\$	-	\$	358,407	\$
Normal	26020602	316	Hill City Discharge-Struct & Imp P	309000	\$	-	\$	43,581	\$
Normal	26020602	321	Hill City Discharge-Struct & Imp P	304200	\$	-	\$	49,276	\$
Normal	26020602	343.3	Hill City Discharge-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	118,888	\$
Normal	26020703	391.21	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	340230	\$	-	\$	-	\$
Normal	26020703	391.21	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	340210	\$	-	\$	-	\$
Normal	26020703	397	SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	346190	\$	-	\$	-	\$
Special	26020704	398	SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	347000	\$	-	\$	-	\$
Special	26029606	301	CHAT-Filter #2 Improvements-Organization	301000	\$	-	\$	-	\$
Special	26029606	343	CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	331001	\$	-	\$	-	\$
Special	26029606	343.1	CHAT-Filter #2 Improvements-TD Mains 4in & Less	331100	\$	-	\$	-	\$
Special	26029606	343.2	CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Special	26029606	345	CHAT-Filter #2 Improvements-Services	333000	\$	-	\$	-	\$
Special	26029606	346	CHAT-Filter #2 Improvements-Meters	334100	\$	-	\$	-	\$
Special	26029606	392.11	CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	341100	\$	-	\$	-	\$
Normal	26029612	391.25	CHAT-Customer Service System-Comp Software Mainframe	340310	\$	-	\$	-	\$
Special	26030204	343.3	CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$
Normal	26030204	313	CHAT-Suck Creek Utility-Lake, River & Other Intakes	306000	\$	-	\$	-	\$
Normal	26030204	325	CHAT-Suck Creek Utility-Pump Equip Electric	311200	\$	-	\$	-	\$
Normal	26030204	331	CHAT-Suck Creek Utility-Struct & Imp WT	304300	\$	-	\$	-	\$
Normal	26030204	332	CHAT-Suck Creek Utility-WT Equip Non-Media	320100	\$	-	\$	-	\$
Normal	26030204	343	CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	331001	\$	-	\$	-	\$
Normal	26030204	343.1	CHAT-Suck Creek Utility-TD Mains 4in & Less	331100	\$	-	\$	-	\$
Normal	26030204	343.2	CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Normal	26030204	343.3	CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	66,874	\$
Normal	26030204	345	CHAT-Suck Creek Utility-Services	333000	\$	-	\$	-	\$
Normal	26030204	346	CHAT-Suck Creek Utility-Meters	334100	\$	-	\$	-	\$
Normal	26030204	348	CHAT-Suck Creek Utility-Hydrants	335000	\$	-	\$	-	\$
Normal	26030204	391.21	CHAT-Suck Creek Utility-Comp & Periph Other	340230	\$	-	\$	-	\$
Normal	26030204	397	CHAT-Suck Creek Utility-Comm Equip Non-Telephone	346100	\$	-	\$	-	\$
Normal	26030204	399	CHAT-Suck Creek Utility-Other Tangible Property	348000	\$	-	\$	-	\$
Normal	26040206	343.2	CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$
Normal	26040206	345	CHAT-Lone Oak Acquisition-Services	333000	\$	-	\$	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Jul-06		Aug-06		Sep-06	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire
Normal	26040206	346	CHAT-Lone Oak Acquisition-Meters	334100	\$	-	\$	-	\$
Normal	26040206	348	CHAT-Lone Oak Acquisition-Hydrants	335000	\$	-	\$	-	\$
Normal	26060302	342	Walden's Ridge Utility-Dist Reservoirs & Standpipes	330000	\$	47,486	-	1,738	\$
Normal	26060302	343	Walden's Ridge Utility-TD Mains 10in to 16in	331300	\$	848	-	-	\$
Normal	26060302	348	Walden's Ridge Utility-Hydrants	335000	\$	-	-	-	\$
Normal	26060302	391.25	Walden's Ridge Utility-Computer Software	340300	\$	-	-	-	\$
Normal	26060302	323.2	Walden's Ridge Utility-Power Generation Equip Other	310100	\$	-	-	-	\$
Normal	Adjustment	331.99	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	304301	\$	-	-	-	\$
Normal	Adjustment	341	2006 Overhead Adjustment-Struct & Imp AG-Lease	304510	\$	-	-	-	\$
Normal	Adjustment	343	2006 Overhead Adjustment-TD Mains Not Classified by Siz	331001	\$	-	-	-	\$
Normal	Adjustment	343.1	2006 Overhead Adjustment-TD Mains 4in & Less	331100	\$	-	-	-	\$
Normal	Adjustment	345	2006 Overhead Adjustment-Services	333000	\$	-	-	-	\$
Normal	Adjustment	346	2006 Overhead Adjustment-Meters	334100	\$	-	-	-	\$
Normal	Adjustment	346	2006 Overhead Adjustment-Meters Other	334130	\$	-	-	-	\$
Normal	Adjustment	346.2	2006 Overhead Adjustment-Meters Plastic Case	334120	\$	-	-	-	\$
Normal	Adjustment	391.25	2006 Overhead Adjustment-Computer Software	340300	\$	-	-	-	\$
Normal	DV-2602-1	316	Developer Contribution-Supply Mains	309000	\$	-	-	-	\$
Normal	DV-2602-1	321	Developer Contribution-Struct & Imp P	304200	\$	-	-	-	\$
Normal	DV-2602-1	331	Developer Contribution-Struct & Imp WT	304300	\$	-	-	-	\$
Normal	DV-2602-1	332	Developer Contribution-WT Equip Non-Media	320100	\$	-	-	-	\$
Normal	DV-2602-1	343	Developer Contribution-TD Mains 10in to 16in	331300	\$	-	-	-	\$
Normal	DV-2602-1	343.1	Developer Contribution-TD Mains 4in & Less	331100	\$	-	-	-	\$
Normal	DV-2602-1	343.2	Developer Contribution-TD Mains 6in to 10in (TN)	331210	\$	(348)	-	11,387	\$
Normal	DV-2602-1	343.3	Developer Contribution-TD Mains 12in & Grtr (TN)	331350	\$	-	-	125,670	\$
Normal	DV-2602-1	345	Developer Contribution-Services	333000	\$	-	-	27,140	\$
Normal	DV-2602-1	348	Developer Contribution-Hydrants	335000	\$	6,100	-	313	\$
Normal	DV-2604-1	343.2	Developer Contribution-TD Mains 6in to 10in (TN)	331210	\$	-	-	-	\$
Normal	Land Sale	340.11	Land Sale-Land TD	303501	\$	-	-	-	\$
Normal	RP-2602-A1	343.1	Mains - New-TD Mains 4in & Less	331100	\$	-	-	-	\$
Normal	RP-2602-A1	343.2	Mains - New-TD Mains 6in to 10in (TN)	331210	\$	-	-	-	\$
Normal	RP-2602-A1	345	Mains - New-Services	333000	\$	-	-	-	\$
Normal	RP-2602-A1	348	Mains - New-Hydrants	335000	\$	-	-	-	\$
Normal	RP-2602-A1	391.25	Mains - New-Comp Software Mainframe	331350	\$	-	-	-	\$
Normal	RP-2602-A1	343.3	Meters - New-TD Mains 12in & Grtr (TN)	333000	\$	-	-	-	\$
Normal	RP-2602-A1	345	Meters - New-Services	333000	\$	-	-	-	\$
Normal	RP-2602-A1	346	Meters - New-Meters	334100	\$	2,677	-	14,038	\$
Normal	RP-2602-A1	346	Meters - New-Meters Other-Rem Rdr Units	334131	\$	-	-	-	\$
Normal	RP-2602-A1	346.1	Meters - New-Meters Bronze Case	334110	\$	-	-	-	\$
Normal	RP-2602-A1	347	Meters - New-Meter Installations	334200	\$	62,666	-	59,793	\$
Normal	RP-2602-A1	391.2	Meters - New-Comp & Periph Equip	340200	\$	-	-	-	\$
Normal	RP-2602-A1	391.21	Meters - New-Comp & Periph Personal	340220	\$	-	-	-	\$
Normal	RP-2602-A1	394	Meters - New-Tools,Shop, Garage Equip	343000	\$	-	-	-	\$
Normal	RP-2602-A1	346	Meters - Replaced-Meters	334100	\$	7,817	-	4,081	\$
Normal	RP-2602-A1	346.1	Meters - Replaced-Meters Bronze Case	334110	\$	-	-	-	\$
Normal	RP-2602-A1	347	Meters - Replaced-Meter Installations	334200	\$	24,691	-	28,707	\$
Normal	RP-2602-A1	348	Meters - Replaced-Hydrants	335000	\$	-	-	-	\$
Normal	RP-2602-A1	391.21	Meters - Replaced-Comp & Periph Other	340230	\$	-	-	-	\$
Normal	RP-2602-A1	391.21	Meters - Replaced-Comp & Periph Personal	340220	\$	-	-	-	\$
Normal	RP-2602-G1	345	Services and Laterals - New-Services	333000	\$	62,481	-	71,015	\$
Normal	RP-2602-H1	345	Services and Laterals - Replaced-Services	333000	\$	15,148	-	40,641	\$
Normal	RP-2602-H1	348	Services and Laterals - Replaced-Hydrants	335000	\$	-	-	-	\$
Normal	RP-2602-F1	343.1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	331100	\$	-	-	-	\$
Normal	RP-2602-F1	343.2	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	331210	\$	-	-	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B												
Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Jul-06		Aug-06		Sep-06			
			Budget Item Description	JDE No.	In Service	Retire	In Service	Retire	In Service	Retire		
Normal	RP-2602-F1	348	Hydrants, Valves, and Manholes-Rep-Hydrants	335000	\$	1,843	\$	-	\$	4,083	\$	-
Normal	RP-2602-E1	343.2	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-E1	348	Hydrants, Valves, and Manholes-New-Hydrants	335000	\$	1,712	\$	-	\$	1,760	\$	-
Special	RP-2602-C1	343.1	Mains - Unscheduled-TD Mains 4in & Less	331100	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	343.2	Mains - Unscheduled-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	343.3	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	345	Mains - Unscheduled-Services	333000	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-C1	348	Mains - Unscheduled-Hydrants	335000	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	332	ITS Equipment and Systems-WT Equip Non-Media	320100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	343.2	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	331210	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.1	ITS Equipment and Systems-Office Furniture & Equip	340100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Comp & Periph Equip	340200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.2	ITS Equipment and Systems-Data Handling Equipment	340400	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.21	ITS Equipment and Systems-Comp & Periph Other	340230	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.21	ITS Equipment and Systems-Comp & Periph Personal	340220	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.25	ITS Equipment and Systems-Comp Software Mainframe	340310	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.28	ITS Equipment and Systems-Comp Software Personal	340320	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	391.3	ITS Equipment and Systems-Other Office Equipment	340500	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-K1	397.2	ITS Equipment and Systems-Comm Equip Telephone	346200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	316	Mains - Replaced / Restored-Supply Mains	309000	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	321	Mains - Replaced / Restored-Struct & Imp P	304200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	331.99	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	304301	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	332	Mains - Replaced / Restored-WT Equip Non-Media	320100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	340.11	Mains - Replaced / Restored-Land TD	303501	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	341	Mains - Replaced / Restored-Struct & Imp AG	304500	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	342	Mains - Replaced / Restored-Elevated Tanks & Standpipes	330100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains Not Classified by Siz	331001	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 10in to 16in	331300	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	343	Mains - Replaced / Restored-TD Mains 6in to 8in	331200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	343.1	Mains - Replaced / Restored-TD Mains 4in & Less	331100	\$	10,545	\$	(238)	\$	7,276	\$	(20,831)
Normal	RP-2602-B1	343.2	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	331210	\$	125,437	\$	(638)	\$	222,861	\$	(2,891)
Special	RP-2602-B1	343.3	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	331350	\$	80,811	\$	-	\$	67,466	\$	(33)
Special	RP-2602-B1	343.4	Mains - Replaced / Restored-TD Mains 18in & Grtr	331400	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	345	Mains - Replaced / Restored-Services	333000	\$	-	\$	-	\$	4,742	\$	-
Normal	RP-2602-B1	346	Mains - Replaced / Restored-Meters	334100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	347	Mains - Replaced / Restored-Meter Installations	334200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	348	Mains - Replaced / Restored-Hydrants	335000	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	390.1	Mains - Replaced / Restored-Struct & Imp Offices	304600	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Other	340230	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	391.21	Mains - Replaced / Restored-Comp & Periph Personal	340220	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	391.28	Mains - Replaced / Restored-Comp Software Personal	340320	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	392.11	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	341100	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	392.12	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	341200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	394	Mains - Replaced / Restored-Tools Shop,Garage Equip	343000	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-B1	398	Mains - Replaced / Restored-Misc Equipment	347000	\$	-	\$	-	\$	-	\$	-
Special	RP-2602-D1	343.3	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	331350	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	316	Process Plant - Facilities and Equip-Supply Mains	309000	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	321	Process Plant - Facilities and Equip-Struct & Imp P	304200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	323.2	Process Plant - Facilities and Equip-Power Generation Equip Other	310100	\$	8,087	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	325	Process Plant - Facilities and Equip-Pump Equip Electric	311200	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pumping Equipment WT	311530	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	328.3	Process Plant - Facilities and Equip-Pump Equip Other	311500	\$	-	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	331	Process Plant - Facilities and Equip-Struct & Imp WT	304300	\$	-	\$	-	\$	-	\$	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE Acct No.	Jul-06		Aug-06		Sep-06	
					In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Computer Software	391.25	340300	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp Software Other	391.28	340330	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Laboratory Equipment	395	344000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Operated Equipment	396	345000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Remote Control & Instrumentat	397	346190	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Supply Mains	316	309000	\$	28,000	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp AG-Lease	341	304510	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp TD	341	304400	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Meters	346	334100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Trans Equip Other	392.3	341400	\$	-	\$	-	\$	-
Normal	RP-2602-P1	Tools and Equipment-Tools,Shop,Garage Equip	394	343000	\$	34,365	\$	-	\$	15,514
Normal	RP-2602-P1	Tools and Equipment-Laboratory Equipment	395	344000	\$	-	\$	2,923	\$	-
Normal	RP-2602-P1	Tools and Equipment-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Hwy Duty Trks	392.12	341200	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Autos	392.2	341300	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Trans Equip Other	392.3	341400	\$	-	\$	-	\$	-
Normal	RP-2602-O1	Vehicles-Power Operated Equipment	396	345000	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	342	330000	\$	-	\$	-	\$	-
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	342.99	330003	\$	213	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp SS	311	304100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp TD	341	304400	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Offices	390.1	304600	\$	(128)	\$	-	\$	10,468
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Misc	390.3	304800	\$	-	\$	-	\$	1,626
Normal	RP-2602-N1	Offices and Operations Centers-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Other Office Equipment	391.3	340500	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397.2	346200	\$	-	\$	(1,375)	\$	-
Normal	RP-2602-M1	Security Equipment and Systems-Misc Equipment	398	347000	\$	-	\$	-	\$	-
Special	RP-2602-M1	Security Equipment and Systems-Struct & Imp AG	341	304500	\$	-	\$	-	\$	-
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	303.99	339600	\$	-	\$	-	\$	-
Total					\$ 539,951	\$ (1,982)	\$ 594,099	\$ (32,011)	\$ 1,939,770	\$ (26,511)

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	Oct-06		Nov-06		Dec-06	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire
Special	26020003	CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	-	\$	\$	430
Special	26020003	CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	\$	1,603,986
Special	26020003	CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Special	26020003	CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	36,141	-
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.4	331400	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Organization	301	301000	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	-	\$	(0)	\$
Normal	26020401	Business Process Efficiency Project-Computer Software	391.25	340300	\$	(99)	\$	-	\$
Special	26020402	Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	\$	1,878	\$
Special	26020402	Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Special	26020403	- Security: Physical hardening-Misc Equipment	398	347000	\$	1,131	\$	3,515	\$
Special	26020501	TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	100,232	\$	2,802	\$
Special	26020501	TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Services	345	333000	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Hydrants	348	335000	\$	-	\$	-	\$
Special	26020501	Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	40,978	\$
Normal	26020602	Hill City Discharge-Supply Mains	316	309000	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-Struct & Imp P	321	304200	\$	24,890	\$	-	\$
Normal	26020602	Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340210	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397	346190	\$	-	\$	-	\$
Special	26020704	SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Organization	301	301000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Services	345	333000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$
Normal	26029812	CHAT-Customer Service System-Comp Software Mainframe	391.25	340310	\$	-	\$	66	\$
Special	26029804	CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000	\$	-	\$	207,671	\$
Normal	26030204	CHAT-Suck Creek Utility-Pump Equip Electric	325	311200	\$	-	\$	8,744	\$
Normal	26030204	CHAT-Suck Creek Utility-Struct & Imp WT	331	304300	\$	-	\$	286,688	\$
Normal	26030204	CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100	\$	-	\$	54,270	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001	\$	-	\$	164,907	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100	\$	-	\$	47,572	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210	\$	4,190	\$	388,574	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	5,605	\$
Normal	26030204	CHAT-Suck Creek Utility-Services	345	333000	\$	-	\$	41,388	\$
Normal	26030204	CHAT-Suck Creek Utility-Meters	346	334100	\$	-	\$	23,466	\$
Normal	26030204	CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	\$	19,694	\$
Normal	26030204	CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	\$	8,683	\$
Normal	26030204	CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100	\$	-	\$	3,190	\$
Normal	26030204	CHAT-Suck Creek Utility-Other Tangible Property	399	348000	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-Services	345	333000	\$	-	\$	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Budget Item Description	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Oct-06		Nov-06		Dec-06	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
Normal	26040206	CHAT-Lone Oak Acquisition-Meters	346	334100	\$	-	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-Dist Reservoirs & Standpipes	342	330000	\$	-	\$	-	\$	1,475	\$
Normal	26060302	Walden's Ridge Utility-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	14,892	\$
Normal	26060302	Walden's Ridge Utility-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	26060302	Walden's Ridge Utility-Computer Software	391.25	340300	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Power Generation Equip Other	323.2	310100	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp AG-Lease	341	304510	\$	(500)	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Services	345	333000	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters	346	334100	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters Other	346	334130	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Meters Plastic Case	346.2	334120	\$	-	\$	-	\$	-	\$
Normal	Adjustment	2006 Overhead Adjustment-Computer Software	391.25	340300	\$	-	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Supply Mains	316	309000	\$	-	\$	-	\$	42,441	\$
Normal	DV-2602-1	Developer Contribution-Struct & Imp P	321	304200	\$	-	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Struct & Imp WT	331	304300	\$	-	\$	-	\$	330	\$
Normal	DV-2602-1	Developer Contribution-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 4in & Less	343.1	331100	\$	15,874	\$	144	\$	13,067	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	84,219	\$	27,656	\$	368,822	\$
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	8,576	\$	-	\$
Normal	DV-2602-1	Developer Contribution-Services	345	333000	\$	18,097	\$	9,857	\$	80,290	\$
Normal	DV-2602-1	Developer Contribution-Hydrants	348	335000	\$	30,704	\$	18,851	\$	64,547	\$
Normal	DV-2604-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Normal	Land Sale	Land Sale-Land TD	340.11	303501	\$	-	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-TD Mains 6in to 10in (TN)	343.2	331210	\$	1,737	\$	19,051	\$	26,036	\$
Normal	RP-2602-A1	Mains - New-Services	345	333000	\$	-	\$	-	\$	519	\$
Normal	RP-2602-A1	Mains - New-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-A1	Mains - New-Comp Software Mainframe	391.25	331350	\$	-	\$	-	\$	-	\$
Normal	RP-2602-A1	Meters - New-TD Mains 12in & Grtr (TN)	343.3	333000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Services	345	333000	\$	-	\$	-	\$	180	\$
Normal	RP-2602-H1	Meters - New-Meters	346	334100	\$	-	\$	-	\$	477	\$
Normal	RP-2602-H1	Meters - New-Meters Other-Rem Rdr Units	346	334131	\$	-	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meters Bronze Case	346.1	334110	\$	-	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Meter Installations	347	334200	\$	56,780	\$	39,987	\$	82,478	\$
Normal	RP-2602-H1	Meters - New-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	70,128	\$
Normal	RP-2602-H1	Meters - New-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$	-	\$
Normal	RP-2602-H1	Meters - New-Tools,Shop,Garage Equip	394	343000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Meters	346	334100	\$	408,518	\$	41,438	\$	710,592	\$
Normal	RP-2602-J1	Meters - Replaced-Meters Bronze Case	346.1	334110	\$	-	\$	-	\$	(38,704)	\$
Normal	RP-2602-J1	Meters - Replaced-Meter Installations	347	334200	\$	16,605	\$	9,914	\$	27,308	\$
Normal	RP-2602-J1	Meters - Replaced-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$	-	\$
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$	-	\$
Normal	RP-2602-G1	Services and Laterals - New-Services	345	333000	\$	40,342	\$	44,938	\$	84,710	\$
Normal	RP-2602-H1	Services and Laterals - Replaced-Services	345	333000	\$	3,366	\$	3,162	\$	18,109	\$
Normal	RP-2602-H1	Services and Laterals - Replaced-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$

(11,717)

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE Acct No.	Oct-06		Nov-06		Dec-06	
					In Service	Retire	In Service	Retire	In Service	Retire
		Budget Item Description								
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-Hydrants	348	335000	\$ 1,953	\$ (4,208)	\$ 10,283	\$ -	\$ 20,664	\$ (6,291)
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-Hydrants	348	335000	\$ 13,164	\$ -	\$ 2,024	\$ -	\$ 189,087	\$ -
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	343.3	331350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-C1	Mains - Unscheduled-Services	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-C1	Mains - Unscheduled-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-WT Equip Non-Media	332	320100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	343.2	331210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Office Furniture & Equip	391.1	340100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Equip	391.2	340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Data Handling Equipment	391.2	340400	\$ -	\$ -	\$ -	\$ -	\$ 8,224	\$ (71,496)
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Other	391.21	340230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Personal	391.21	340220	\$ 19,036	\$ -	\$ -	\$ -	\$ 3,403	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Mainframe	391.25	340310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Personal	391.28	340320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Other Office Equipment	391.3	340500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-K1	ITS Equipment and Systems-Comm Equip Telephone	397.2	346200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (7,920)
Normal	RP-2602-B1	Mains - Replaced / Restored-Supply Mains	316	309000	\$ -	\$ -	\$ 7,436	\$ -	\$ 7,472	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp P	321	304200	\$ -	\$ -	\$ 52,680	\$ -	\$ 29,061	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-WT Equip Non-Media	332	320100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Land TD	340.11	303501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp AG	342	330100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Elevated Tanks & Standpipes	343	331001	\$ -	\$ (1,525)	\$ -	\$ (1,776)	\$ -	\$ (4,005)
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains Not Classified by Siz	343	331300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 10in to 16in	343	331200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 8in	343	331200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 4in & Less	343.1	331100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	343.2	331210	\$ 7,678	\$ (869)	\$ 9,432	\$ (1,590)	\$ 113,280	\$ (4,102)
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	343.3	331350	\$ 277,143	\$ (3,657)	\$ 98,177	\$ (2,177)	\$ 1,261,765	\$ (7,446)
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 18in & Grtr	343.4	331400	\$ 244	\$ -	\$ 14,058	\$ -	\$ 410,439	\$ (50,386)
Normal	RP-2602-B1	Mains - Replaced / Restored-Services	345	333000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Meters	346	334100	\$ 2,559	\$ -	\$ -	\$ -	\$ 5,952	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Meter Installations	347	334200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Hydrants	348	335000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp Offices	390.1	304600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Other	391.21	340230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Personal	391.21	340220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp Software Personal	391.28	340320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	392.11	341100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	392.12	341200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Tools,Shop,Garage Equip	394	343000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-B1	Mains - Replaced / Restored-Misc Equipment	398	347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-D1	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	343.3	331350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Supply Mains	316	309000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp P	321	304200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Generation Equip Other	323.2	310100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Electric	325	311200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (32,981)
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pumping Equipment WT	328.3	311530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Other	328.3	311500	\$ -	\$ -	\$ -	\$ -	\$ 148,360	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp WT	331	304300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Tennessee American Water Response to TRA Staff Data Request 51 A & B											
Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE Acct No.	Oct-06		Nov-06		Dec-06		
					In Service	Retire	In Service	Retire	In Service	Retire	
Normal	RP-2602-Q1		332	320100	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		391.2	340200	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		391.25	340300	\$	-	\$	-	\$	159	\$
Normal	RP-2602-Q1		391.28	340330	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		395	344000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		396	345000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		397	346190	\$	-	\$	-	\$	-	\$
Normal	RP-2602-Q1		397	346100	\$	-	\$	13,648	-	15,799	\$
Normal	RP-2602-Q1		398	347000	\$	-	\$	-	\$	-	\$
Normal	RP-2602-P1		316	309000	\$	(32,649)	-	-	-	-	\$
Normal	RP-2602-P1		341	304510	\$	500	-	-	-	-	\$
Normal	RP-2602-P1		341	304400	\$	-	\$	-	-	-	\$
Normal	RP-2602-P1		346	334100	\$	-	\$	-	-	-	\$
Normal	RP-2602-P1		391.1	340100	\$	-	\$	-	-	-	\$
Normal	RP-2602-P1		391.2	340200	\$	-	\$	-	-	98	\$
Normal	RP-2602-P1		392.3	341400	\$	-	\$	-	-	-	\$
Normal	RP-2602-P1		394	343000	\$	15,420	-	1,197	-	51,864	\$
Normal	RP-2602-P1		395	344000	\$	-	\$	-	-	-	\$
Normal	RP-2602-P1		398	347000	\$	-	\$	-	-	-	\$
Normal	RP-2602-O1		392.11	341100	\$	-	\$	-	(100,006)	7,103	\$
Normal	RP-2602-O1		392.12	341200	\$	-	\$	-	-	388,263	\$
Normal	RP-2602-O1		392.2	341300	\$	-	\$	-	-	3,690	\$
Normal	RP-2602-O1		392.3	341400	\$	-	\$	-	(24,424)	121,068	\$
Normal	RP-2602-O1		396	345000	\$	-	\$	-	-	205,387	\$
Normal	RP-2602-O1		331.99	304301	\$	-	\$	-	-	85,411	\$
Special	RP-2602-R1		342	330000	\$	-	\$	-	-	-	\$
Special	RP-2602-R1		342.99	330003	\$	-	\$	-	-	5,235	\$
Normal	RP-2602-N1		311	304100	\$	-	\$	-	-	-	\$
Normal	RP-2602-N1		341	304400	\$	-	\$	-	-	-	\$
Normal	RP-2602-N1		390.1	304600	\$	-	\$	-	-	-	\$
Normal	RP-2602-N1		390.3	304800	\$	-	\$	-	-	5,608	\$
Normal	RP-2602-N1		391.1	340100	\$	-	\$	411	-	-	\$
Normal	RP-2602-N1		391.3	340500	\$	-	\$	-	-	5,303	\$
Normal	RP-2602-N1		397	346100	\$	-	\$	-	-	-	\$
Normal	RP-2602-N1		397.2	346200	\$	-	\$	-	-	-	\$
Normal	RP-2602-N1		398	347000	\$	-	\$	-	-	-	\$
Special	RP-2602-M1		341	304500	\$	-	\$	-	-	-	\$
Special	RP-2602-S1		303.99	339600	\$	-	\$	-	-	-	\$
	Total			\$	1,111,130	\$	(11,974)	\$	477,700	\$	7,823,144
											\$ (313,437)

Tennessee American Water Response to TRA Staff Data Request 51 A & B													
	Budget Item	NARUC Acct No.	Budget Item Description	Additions/Adjustments and Retirements by Account Number by Month				Jan-07		Feb-07		Mar-07	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire		
Normal/Special													
Special	26020003 CHAT-Design Eastridge Tank-Rights of Way TD	340.12				303502	\$	-	\$	-	\$	-	\$
Special	26020003 CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342				330100	\$	(46,202)	\$	-	\$	-	\$
Special	26020003 CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3				331350	\$	-	15,864	\$	-	6,396	\$
Special	26020003 CHAT-Design Eastridge Tank-Computer Software	391.25				340300	\$	(26,403)	-	\$	-	2,944	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343				331300	\$	-	\$	-	\$	-	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2				331210	\$	-	\$	-	\$	-	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4				331400	\$	-	\$	-	\$	-	\$
Special	26020303 CHAT-Design Eastridge Tank-Hydrants	348				335000	\$	-	\$	-	\$	-	\$
Special	26020303 CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2				331210	\$	-	\$	-	\$	-	\$
Normal	26020401 Business Process Efficiency Project-Organization	301				301000	\$	-	\$	-	\$	-	\$
Normal	26020401 Business Process Efficiency Project-Comp & Periph Equip	391.2				340200	\$	-	\$	-	\$	-	\$
Normal	26020401 Business Process Efficiency Project-Computer Software	391.25				340300	\$	-	\$	-	\$	-	\$
Special	26020402 Construct 1.0 MG Tank - Hill-Struct & Imp P	321				304200	\$	-	\$	-	\$	-	\$
Special	26020402 Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343				331300	\$	-	\$	-	\$	-	\$
Special	26020403 - Security: Physical hardening-Misc Equipment	398				347000	\$	-	\$	-	\$	-	\$
Special	26020501 TN DOT Relocations-TD Mains 10in to 16in	343				331300	\$	3,709	74,599	\$	-	37,774	\$
Special	26020501 TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2				331210	\$	-	\$	-	\$	-	\$
Special	26020501 TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3				331350	\$	-	\$	-	\$	-	\$
Special	26020501 TN DOT Relocations-Services	345				333000	\$	-	\$	-	\$	-	\$
Special	26020501 TN DOT Relocations-Hydrants	348				335000	\$	-	\$	-	\$	-	\$
Special	26020601 Hill City Booster Suction-TD Mains 18in & Grtr	343.4				331400	\$	-	\$	-	\$	-	\$
Normal	26020602 Hill City Discharge-Supply Mains	316				309000	\$	-	\$	-	\$	-	\$
Normal	26020602 Hill City Discharge-Struct & Imp P	321				304200	\$	-	\$	-	\$	-	\$
Normal	26020602 Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3				331350	\$	-	\$	-	\$	-	\$
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21				340230	\$	-	\$	-	\$	-	\$
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21				340210	\$	-	\$	-	\$	-	\$
Normal	26020703 SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397				346190	\$	-	\$	-	\$	-	\$
Special	26020704 SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398				347000	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-Organization	301				301000	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343				331001	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1				331100	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2				331210	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-Services	345				333000	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-Meters	346				334100	\$	-	\$	-	\$	-	\$
Special	26029606 CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11				341100	\$	-	\$	-	\$	-	\$
Normal	26029612 CHAT-Customer Service System-Comp Software Mainframe	391.25				340310	\$	-	\$	-	\$	-	\$
Special	26029804 CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	343.3				331350	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Lake, River & Other Intakes	313				306000	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Pump Equip Electric	325				311200	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Struct & Imp WT	331				304300	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-WT Equip Non-Media	332				320100	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343				331001	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1				331100	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2				331210	\$	8,698	-	\$	-	\$	-
Normal	26030204 CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3				331350	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Services	345				333000	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Meters	346				334100	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Hydrants	348				335000	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Comp & Periph Other	391.21				340230	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397				346100	\$	-	\$	-	\$	-	\$
Normal	26030204 CHAT-Suck Creek Utility-Other Tangible Property	399				348000	\$	-	\$	-	\$	-	\$
Normal	26040206 CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2				331210	\$	-	(934)	\$	-	\$	-
Normal	26040206 CHAT-Lone Oak Acquisition-Services	345				333000	\$	-	\$	-	\$	-	\$

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Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Jan-07		Feb-07		Mar-07	
				In Service	Retire	In Service	Retire	In Service	Retire
Normal	26040206	346	CHAT-Lone Oak Acquisition-Meters	\$ 334100	-	\$ -	-	\$ -	-
Normal	26040206	348	CHAT-Lone Oak Acquisition-Hydrants	\$ 335000	-	\$ -	-	\$ -	-
Normal	26060302	342	Walden's Ridge Utility-Dist Reservoirs & Standpipes	\$ 330000	829	\$ 1,179	-	\$ -	-
Normal	26060302	343	Walden's Ridge Utility-TD Mains 10in to 16in	\$ 331300	-	\$ -	-	\$ -	-
Normal	26060302	348	Walden's Ridge Utility-Hydrants	\$ 335000	-	\$ -	-	\$ -	-
Normal	26060302	391.25	Walden's Ridge Utility-Computer Software	\$ 340300	-	\$ -	-	\$ -	-
Normal	26060302	331.99	2006 Overhead Adjustment-Power Generation Equip Other	\$ 310100	-	\$ -	-	\$ -	-
Normal	Adjustment	341	2006 Overhead Adjustment-Struct & Imp WT Depr Pntg (IN	\$ 304301	141,805	\$ -	-	\$ -	-
Normal	Adjustment	343	2006 Overhead Adjustment-Struct & Imp AG-Lease	\$ 331001	-	\$ -	-	\$ -	-
Normal	Adjustment	343.1	2006 Overhead Adjustment-TD Mains Not Classified by Siz	\$ 331100	-	\$ -	-	\$ -	-
Normal	Adjustment	345	2006 Overhead Adjustment-TD Mains 4in & Less	\$ 333000	-	\$ -	-	\$ -	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters	\$ 334100	221,861	\$ -	-	\$ -	-
Normal	Adjustment	346	2006 Overhead Adjustment-Meters Other	\$ 334130	(130,241)	\$ -	-	\$ -	-
Normal	Adjustment	391.25	2006 Overhead Adjustment-Meters Plastic Case	\$ 340300	(91,620)	\$ -	-	\$ -	-
Normal	DV-2602-1	316	Developer Contribution-Computer Software	\$ 309000	-	\$ -	-	\$ -	-
Normal	DV-2602-1	321	Developer Contribution-Supply Mains	\$ 304200	-	\$ -	-	\$ -	-
Normal	DV-2602-1	331	Developer Contribution-Struct & Imp P	\$ 304300	-	\$ -	-	\$ -	-
Normal	DV-2602-1	332	Developer Contribution-Struct & Imp WT	\$ 320100	-	\$ -	-	\$ -	-
Normal	DV-2602-1	343	Developer Contribution-WT Equip Non-Media	\$ 331300	-	\$ -	-	\$ -	-
Normal	DV-2602-1	343.1	Developer Contribution-TD Mains 10in to 16in	\$ 331100	-	\$ -	-	\$ -	-
Normal	DV-2602-1	343.2	Developer Contribution-TD Mains 4in & Less	\$ 331210	-	\$ -	-	\$ -	-
Normal	DV-2602-1	343.3	Developer Contribution-TD Mains 6in to 10in (TN)	\$ 331350	(35,571)	\$ -	-	\$ 248,798	-
Normal	DV-2602-1	345	Developer Contribution-TD Mains 12in & Grtr (TN)	\$ 333000	-	\$ -	-	\$ -	-
Normal	DV-2602-1	348	Developer Contribution-Services	\$ 335000	(17,999)	\$ -	-	\$ 17,510	-
Normal	DV-2602-1	343.2	Developer Contribution-Hydrants	\$ 331210	-	\$ -	-	\$ -	-
Normal	DV-2604-1	340.11	Developer Contribution-TD Mains 6in to 10in (TN)	\$ 303501	-	\$ -	-	\$ -	-
Normal	Land Sale	343.1	Land Sale-Land TD	\$ 331100	-	\$ -	-	\$ -	-
Normal	RP-2602-A1	343.2	Mains - New-TD Mains 4in & Less	\$ 331210	-	\$ -	-	\$ -	-
Normal	RP-2602-A1	345	Mains - New-TD Mains 6in to 10in (TN)	\$ 333000	-	\$ -	-	\$ -	-
Normal	RP-2602-A1	391.25	Mains - New-Hydrants	\$ 340310	-	\$ -	-	\$ -	-
Normal	RP-2602-A1	343.3	Mains - New-Comp Software Mainframe	\$ 331350	(47)	\$ -	-	\$ -	-
Normal	RP-2602-H1	345	Meters - New-Comp Software Mainframe	\$ 333000	-	\$ -	-	\$ -	-
Normal	RP-2602-H1	346	Meters - New-TD Mains 12in & Grtr (TN)	\$ 334100	-	\$ -	-	\$ -	-
Normal	RP-2602-H1	346.1	Meters - New-Comp Software Mainframe	\$ 334110	-	\$ -	-	\$ -	-
Normal	RP-2602-H1	347	Meters - New-Meters	\$ 334200	18,504	\$ 75,773	-	\$ 59,795	-
Normal	RP-2602-H1	391.2	Meters - New-Meters Other-Rem Rdr Units	\$ 340200	(2,846)	\$ -	-	\$ -	-
Normal	RP-2602-H1	391.21	Meters - New-Meter Installations	\$ 340220	-	\$ -	-	\$ -	-
Normal	RP-2602-H1	394	Meters - New-Comp & Periph Equip	\$ 343000	-	\$ -	-	\$ -	-
Normal	RP-2602-H1	346	Meters - New-Tools, Shop, Garage Equip	\$ 334100	(373,085)	\$ 1,494	-	\$ 25,264	(474)
Normal	RP-2602-J1	346.1	Meters - Replaced-Meters	\$ 334110	-	\$ -	-	\$ -	-
Normal	RP-2602-J1	347	Meters - Replaced-Meters Bronze Case	\$ 334200	48,229	\$ 136,644	-	\$ 34,711	-
Normal	RP-2602-J1	348	Meters - Replaced-Meter Installations	\$ 335000	-	\$ -	-	\$ -	-
Normal	RP-2602-J1	391.21	Meters - Replaced-Hydrants	\$ 340230	-	\$ -	-	\$ -	-
Normal	RP-2602-J1	391.21	Meters - Replaced-Comp & Periph Other	\$ 340220	-	\$ -	-	\$ -	-
Normal	RP-2602-G1	345	Services and Lateral - New-Services	\$ 333000	45,140	\$ 73,578	-	\$ 59,442	-
Normal	RP-2602-H1	345	Services and Lateral - Replaced-Services	\$ 333000	(3,855)	\$ 6,566	-	\$ 11,965	-
Normal	RP-2602-H1	348	Services and Lateral - Replaced-Hydrants	\$ 331100	-	\$ -	-	\$ -	-
Normal	RP-2602-F1	343.1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	\$ 331210	-	\$ -	-	\$ -	-
Normal	RP-2602-F1	343.2	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	\$ 331210	-	\$ -	-	\$ -	-

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Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	Jan-07		Feb-07		Mar-07	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire
		Budget Item Description							
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-Hydrants	348	335000	\$	4,547	\$	-	\$
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-Hydrants	348	335000	\$	(9,764)	\$	-	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 4in & Less	343.1	331100	\$	-	\$	1,878	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Special	RP-2602-C1	Mains - Unscheduled-Services	345	333000	\$	-	\$	-	\$
Special	RP-2602-C1	Mains - Unscheduled-Hydrants	348	335000	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-WT Equip Non-Media	332	320100	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Office Furniture & Equip	391.1	340100	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Equip	391.2	340200	\$	-	\$	364	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Data Handling Equipment	391.2	340400	\$	7,060	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Personal	391.21	340220	\$	3,017	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Mainframe	391.25	340310	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Personal	391.28	340320	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Other Office Equipment	391.3	340500	\$	-	\$	-	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comm Equip Telephone	397.2	346200	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Supply Mains	316	309000	\$	(7,891)	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp P	321	304200	\$	637	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-WT Equip Non-Media	332	320100	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Land TD	340.11	303501	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp AG	341	304500	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 8in	343	331200	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 4in & Less	343.1	331100	\$	11,865	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	343.2	331210	\$	(75,310)	\$	-	\$
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	343.3	331350	\$	(24,475)	\$	-	\$
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Services	345	333000	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Meters	346	334100	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Meter Installations	347	334200	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Hydrants	348	335000	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp Offices	390.1	304600	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Personal	391.21	340220	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp Software Personal	391.28	340320	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	392.12	341200	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Tools,Shop,Garage Equip	394	343000	\$	-	\$	-	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Misc Equipment	398	347000	\$	-	\$	-	\$
Special	RP-2602-D1	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Supply Mains	316	309000	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp P	321	304200	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Generation Equip Other	323.2	310100	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Electric	325	311200	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pumping Equipment WT	328.3	311530	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Other	328.3	311500	\$	-	\$	-	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp WT	331	304300	\$	-	\$	-	\$

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Normal/Special	Budget Item	NARUC Acct No.	Budget Item Description	Jan-07		Feb-07		Mar-07	
				JDE Acct No.		In Service		Retire	
Normal	RP-2602-Q1	332	Process Plant - Facilities and Equip-WT Equip Non-Media	320100	\$	-	\$	-	\$
Normal	RP-2602-Q1	391.2	Process Plant - Facilities and Equip-Comp & Periph Equip	340200	\$	-	\$	-	\$
Normal	RP-2602-Q1	391.25	Process Plant - Facilities and Equip-Computer Software	340300	\$	(115)	\$	-	\$
Normal	RP-2602-Q1	391.28	Process Plant - Facilities and Equip-Comp Software Other	340330	\$	-	\$	-	\$
Normal	RP-2602-Q1	395	Process Plant - Facilities and Equip-Laboratory Equipment	344000	\$	-	\$	-	\$
Normal	RP-2602-Q1	396	Process Plant - Facilities and Equip-Power Operated Equipment	345000	\$	-	\$	-	\$
Normal	RP-2602-Q1	397	Process Plant - Facilities and Equip-Remote Control & Instrumentati	346190	\$	-	\$	-	\$
Normal	RP-2602-Q1	397	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	347000	\$	896	\$	-	\$
Normal	RP-2602-Q1	398	Process Plant - Facilities and Equip-Misc Equipment	347000	\$	-	\$	-	\$
Normal	RP-2602-P1	316	Tools and Equipment-Supply Mains	309000	\$	-	\$	-	\$
Normal	RP-2602-P1	341	Tools and Equipment-Struct & Imp AG-Lease	304510	\$	-	\$	-	\$
Normal	RP-2602-P1	341	Tools and Equipment-Struct & Imp TD	304400	\$	-	\$	-	\$
Normal	RP-2602-P1	346	Tools and Equipment-Meters	334100	\$	-	\$	-	\$
Normal	RP-2602-P1	391.1	Tools and Equipment-Office Furniture & Equip	340100	\$	-	\$	-	\$
Normal	RP-2602-P1	391.2	Tools and Equipment-Comp & Periph Equip	340200	\$	-	\$	-	\$
Normal	RP-2602-P1	392.3	Tools and Equipment-Trans Equip Other	341400	\$	(2,917)	\$	-	\$
Normal	RP-2602-P1	394	Tools and Equipment-Tools,Shop,Garage Equip	343000	\$	(565)	\$	-	\$
Normal	RP-2602-P1	395	Tools and Equipment-Laboratory Equipment	344000	\$	-	\$	-	\$
Normal	RP-2602-P1	398	Tools and Equipment-Misc Equipment	347000	\$	-	\$	-	\$
Normal	RP-2602-O1	392.11	Vehicles-Trans Equip Lt Duty Trks	341100	\$	(48,339)	\$	(48,434)	\$
Normal	RP-2602-O1	392.12	Vehicles-Trans Equip Hwy Trks	341200	\$	(3,690)	\$	-	\$
Normal	RP-2602-O1	392.2	Vehicles-Trans Equip Autos	341300	\$	(18,864)	\$	-	\$
Normal	RP-2602-O1	392.3	Vehicles-Trans Equip Other	341400	\$	(26,356)	\$	-	\$
Normal	RP-2602-O1	396	Vehicles-Power Operated Equipment	345000	\$	(81,874)	\$	-	\$
Special	RP-2602-R1	331.99	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	304301	\$	-	\$	-	\$
Special	RP-2602-R1	342	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	330000	\$	-	\$	238,980	\$
Special	RP-2602-R1	342.99	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	330003	\$	-	\$	634,445	\$
Normal	RP-2602-N1	311	Offices and Operations Centers-Struct & Imp SS	304100	\$	-	\$	-	\$
Normal	RP-2602-N1	341	Offices and Operations Centers-Struct & Imp TD	304600	\$	-	\$	-	\$
Normal	RP-2602-N1	390.1	Offices and Operations Centers-Struct & Imp Offices	304800	\$	-	\$	-	\$
Normal	RP-2602-N1	390.3	Offices and Operations Centers-Office Furniture & Equip	340100	\$	-	\$	3,850	\$
Normal	RP-2602-N1	391.1	Offices and Operations Centers-Other Office Equipment	340500	\$	-	\$	-	\$
Normal	RP-2602-N1	397	Offices and Operations Centers-Comm Equip Non-Telephone	346100	\$	-	\$	-	\$
Normal	RP-2602-N1	397.2	Offices and Operations Centers-Comm Equip Telephone	346200	\$	-	\$	-	\$
Normal	RP-2602-M1	398	Offices and Operations Centers-Misc Equipment	347000	\$	-	\$	-	\$
Special	RP-2602-M1	341	Security Equipment and Systems-Struct & Imp AG	304500	\$	-	\$	-	\$
Special	RP-2602-S1	303.99	Engineering Studies-Other P/E CPS	339600	\$	-	\$	-	\$
Total				\$	(651,014)	\$	141,805	\$	(48,434)
							\$	2,248,558	\$
									(134,761)

Tennessee American Water Response to TRA Staff Data Request 51 A & B										
Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Apr-07		May-07		Jun-07	
			JDE No.	Acct No.	In Service	Retire	In Service	Retire	In Service	Retire
			Budget Item Description							
Special	26020003	340.12	303502		-	-	-	-	-	-
Special	26020003	342	330100		17,537	-	12,233	-	-	-
Special	26020003	343.3	331350		-	-	-	-	846,452	-
Special	26020003	391.25	340300		-	-	-	-	-	-
Special	26020303	343	331300		-	-	-	-	-	-
Special	26020303	343.2	331210		-	-	-	-	-	-
Special	26020303	343.4	331400		-	-	-	-	-	-
Special	26020303	348	335000		-	-	-	-	-	-
Special	26020303	343.2	331210		-	-	-	-	-	-
Normal	26020401	301	301000		-	-	-	-	-	-
Normal	26020401	391.2	340200		-	-	-	-	-	-
Normal	26020401	391.25	340300		-	-	-	-	-	-
Special	26020402	321	304200		-	-	-	-	-	-
Special	26020402	343	331300		-	-	-	-	-	-
Special	26020403	398	347000		-	-	-	-	-	-
Special	26020501	343	331300		-	-	-	-	-	-
Special	26020501	343.2	331210		-	-	-	-	-	-
Special	26020501	343.3	331350		-	-	-	-	-	-
Special	26020501	345	333000		-	-	-	-	-	-
Special	26020501	348	335000		-	-	-	-	-	-
Special	26020601	343.4	331400		-	-	-	-	-	-
Normal	26020602	316	309000		-	-	-	-	-	-
Normal	26020602	321	304200		-	-	-	-	-	-
Normal	26020602	343.3	331350		-	-	-	-	-	-
Normal	26020703	391.21	340230		-	-	-	-	-	-
Normal	26020703	391.21	340210		-	-	-	-	-	-
Normal	26020703	397	346190		-	-	-	-	-	-
Special	26020704	398	347000		-	-	-	-	-	-
Special	26029606	301	301000		-	-	-	-	-	-
Special	26029606	343	331001		-	-	-	-	-	-
Special	26029606	343.1	331100		-	-	-	-	-	-
Special	26029606	343.2	331210		-	-	-	-	-	-
Special	26029606	345	333000		-	-	-	-	-	-
Special	26029606	346	334100		-	-	-	-	-	-
Special	26029612	392.11	341100		-	-	-	-	-	-
Normal	26029804	391.25	340310		-	-	-	-	-	-
Normal	26030204	343.3	331350		-	-	-	-	-	-
Normal	26030204	313	306000		-	-	-	-	-	-
Normal	26030204	325	311200		-	-	-	-	-	-
Normal	26030204	331	304300		-	-	-	-	-	-
Normal	26030204	332	320100		-	-	-	-	-	-
Normal	26030204	343	331001		-	-	-	-	-	-
Normal	26030204	343.1	331100		-	-	-	-	-	-
Normal	26030204	343.2	331210		-	-	-	-	-	-
Normal	26030204	343.3	331350		-	-	-	-	-	-
Normal	26030204	345	333000		-	-	-	-	-	-
Normal	26030204	346	334100		-	-	-	-	-	-
Normal	26030204	391.21	340230		-	-	-	-	-	-
Normal	26030204	397	346100		-	-	-	-	-	-
Normal	26040206	343.2	331210		-	-	-	-	-	-
Normal	26040206	345	333000		-	-	-	-	-	-

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month		Apr-07		May-07		Jun-07	
			Budget Item Description							
			JDE	Acct	In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-Q1	332								
Normal	RP-2602-Q1	332	Process Plant - Facilities and Equip-WT Equip Non-Media	320100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	391.2	Process Plant - Facilities and Equip-Comp & Periph Equip	340200	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	391.25	Process Plant - Facilities and Equip-Computer Software	340300	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	391.28	Process Plant - Facilities and Equip-Comp Software Other	340330	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	395	Process Plant - Facilities and Equip-Laboratory Equipment	344000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	396	Process Plant - Facilities and Equip-Power Operated Equipment	345000	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	397	Process Plant - Facilities and Equip-Remote Control & Instrumentati	346190	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	397	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	346100	\$	-	\$	-	\$	-
Normal	RP-2602-Q1	398	Process Plant - Facilities and Equip-Misc Equipment	347000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	316	Tools and Equipment-Supply Mains	309000	\$	-	\$	-	\$	-
Normal	RP-2602-P1	341	Tools and Equipment-Struct & Imp AG-Lease	304510	\$	-	\$	-	\$	-
Normal	RP-2602-P1	341	Tools and Equipment-Struct & Imp TD	304400	\$	-	\$	-	17,399	\$
Normal	RP-2602-P1	346	Tools and Equipment-Meters	334100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	391.1	Tools and Equipment-Office Furniture & Equip	340100	\$	-	\$	-	\$	-
Normal	RP-2602-P1	391.2	Tools and Equipment-Comp & Periph Equip	340200	\$	-	\$	-	\$	-
Normal	RP-2602-P1	392.3	Tools and Equipment-Trans Equip Other	341400	\$	-	\$	-	28,415	\$
Normal	RP-2602-P1	394	Tools and Equipment-Tools,Shop,Garage Equip	343000	\$	-	\$	-	15,353	\$
Normal	RP-2602-P1	395	Tools and Equipment-Laboratory Equipment	344000	\$	-	\$	-	2,538	\$
Normal	RP-2602-O1	398	Tools and Equipment-Misc Equipment	347000	\$	-	\$	-	\$	-
Normal	RP-2602-O1	392.11	Vehicles-Trans Equip Lt Duty Trks	341100	\$	-	\$	-	\$	-
Normal	RP-2602-O1	392.12	Vehicles-Trans Equip Hwy Duty Trks	341200	\$	-	\$	-	\$	-
Normal	RP-2602-O1	392.2	Vehicles-Trans Equip Autos	341300	\$	-	\$	-	\$	-
Normal	RP-2602-O1	392.3	Vehicles-Trans Equip Other	341400	\$	-	\$	-	\$	-
Normal	RP-2602-O1	396	Vehicles-Power Operated Equipment	345000	\$	-	\$	-	\$	-
Special	RP-2602-R1	331.99	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	304301	\$	-	\$	-	\$	141,805
Special	RP-2602-R1	342	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	330000	\$	-	\$	-	\$	-
Special	RP-2602-R1	342.99	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	330003	\$	72,817	\$	-	\$	-
Normal	RP-2602-N1	311	Offices and Operations Centers-Struct & Imp SS	304100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	341	Offices and Operations Centers-Struct & Imp TD	304400	\$	-	\$	-	\$	-
Normal	RP-2602-N1	390.1	Offices and Operations Centers-Struct & Imp Offices	304600	\$	-	\$	-	\$	-
Normal	RP-2602-N1	390.3	Offices and Operations Centers-Struct & Imp Misc	304800	\$	-	\$	-	\$	-
Normal	RP-2602-N1	391.1	Offices and Operations Centers-Office Furniture & Equip	340100	\$	-	\$	-	18,010	\$
Normal	RP-2602-N1	391.3	Offices and Operations Centers-Other Office Equipment	340500	\$	-	\$	-	\$	-
Normal	RP-2602-N1	397	Offices and Operations Centers-Comm Equip Non-Telephone	346100	\$	-	\$	-	\$	-
Normal	RP-2602-N1	397.2	Offices and Operations Centers-Comm Equip Telephone	346200	\$	-	\$	-	\$	-
Normal	RP-2602-M1	398	Offices and Operations Centers-Misc Equipment	347000	\$	-	\$	-	\$	-
Special	RP-2602-M1	341	Security Equipment and Systems-Struct & Imp AG	304500	\$	-	\$	-	\$	-
Special	RP-2602-S1	303.99	Engineering Studies-Other P/E CPS	339600	\$	-	\$	-	\$	-
Total					\$ 1,262,292	\$ -	\$ 259,962	\$ -	\$ 336,152	\$ (6,622)

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	Jul-07		Aug-07		Sep-07	
				JDE No.	Acct No.	In Service	Retire	In Service	Retire
Special	26020003	CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	-	\$	-	\$
Special	26020003	CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$
Special	26020003	CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	3,889	178	110,123	\$
Special	26020003	CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Organization	301	301000	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Computer Software	391.25	340300	\$	-	\$	-	\$
Special	26020402	Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	\$	-	\$
Special	26020402	Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$
Special	26020403	- Security: Physical hardening-Misc Equipment	398	347000	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	-	\$	76,402	\$
Special	26020501	TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	13,178	\$
Special	26020501	TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Services	345	333000	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Hydrants	348	335000	\$	-	\$	-	\$
Special	26020601	Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-Supply Mains	316	309000	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-Struct & Imp P	321	304200	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340230	\$	45,374	-	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340210	\$	2,370	-	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397	346190	\$	-	\$	-	\$
Special	26020704	SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Organization	301	301000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Services	345	333000	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$
Normal	26029612	CHAT-Customer Service System-Comp Software Mainframe	391.25	340310	\$	-	\$	-	\$
Special	26029804	CHAT-Replace Lkt Mtn Supp Mai-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Pump Equip Electric	325	311200	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Struct & Imp WT	331	304300	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Services	345	333000	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Meters	346	334100	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Other Tangible Property	399	348000	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-Services	345	333000	\$	-	\$	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	NARUC Acct No.	JDE Acct No.	Jul-07		Aug-07		Sep-07	
				Additions/Adjustments and Retirements by Account Number by Month					
				In Service	Retire	In Service	Retire	In Service	Retire
Normal	RP-2602-F1	348	335000	16,923	\$	4,327	\$	70	\$
Normal	RP-2602-E1	343.2	331210	-	\$	-	\$	-	\$
Normal	RP-2602-E1	348	335000	-	\$	11,763	\$	-	\$
Special	RP-2602-C1	343.1	331100	1,167	\$	1,478	\$	3,967	\$
Special	RP-2602-C1	343.2	331210	5,310	\$	17,185	\$	14,486	\$
Special	RP-2602-C1	343.3	331350	3,042	\$	2,964	\$	4,592	\$
Special	RP-2602-C1	345	333000	-	\$	-	\$	-	\$
Special	RP-2602-C1	348	335000	-	\$	-	\$	-	\$
Normal	RP-2602-K1	332	320100	-	\$	-	\$	-	\$
Normal	RP-2602-K1	343.2	331210	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.1	340100	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.2	340200	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.2	340400	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.21	340230	-	\$	1,338	\$	-	\$
Normal	RP-2602-K1	391.21	340220	-	\$	31,400	\$	-	\$
Normal	RP-2602-K1	391.25	340310	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.28	340320	-	\$	-	\$	-	\$
Normal	RP-2602-K1	391.3	340500	-	\$	-	\$	-	\$
Normal	RP-2602-K1	397.2	346200	3,282	\$	-	\$	-	\$
Normal	RP-2602-B1	316	309000	-	\$	-	\$	-	\$
Normal	RP-2602-B1	321	304200	-	\$	-	\$	-	\$
Normal	RP-2602-B1	331.99	304301	-	\$	-	\$	-	\$
Normal	RP-2602-B1	332	320100	-	\$	-	\$	-	\$
Normal	RP-2602-B1	340.11	303501	-	\$	-	\$	-	\$
Normal	RP-2602-B1	341	304500	-	\$	-	\$	-	\$
Normal	RP-2602-B1	342	330100	-	\$	-	\$	-	\$
Normal	RP-2602-B1	343	331001	-	\$	417	\$	-	\$
Normal	RP-2602-B1	343	331300	-	\$	-	\$	-	\$
Normal	RP-2602-B1	343	331200	-	\$	-	\$	-	\$
Normal	RP-2602-B1	343.1	331100	126	\$	-	\$	-	\$
Normal	RP-2602-B1	343.2	331210	262,151	\$	169	\$	6,693	\$
Special	RP-2602-B1	343.3	331350	1,599	\$	22,984	\$	175,007	\$
Special	RP-2602-B1	343.4	331400	-	\$	-	\$	(13,828)	\$
Normal	RP-2602-B1	345	333000	252	\$	-	\$	-	\$
Normal	RP-2602-B1	346	334100	-	\$	198,673	\$	2,520	\$
Normal	RP-2602-B1	347	334200	-	\$	-	\$	-	\$
Normal	RP-2602-B1	348	335000	-	\$	-	\$	-	\$
Normal	RP-2602-B1	390.1	304600	-	\$	-	\$	-	\$
Normal	RP-2602-B1	391.21	340230	-	\$	-	\$	-	\$
Normal	RP-2602-B1	391.21	340220	-	\$	-	\$	-	\$
Normal	RP-2602-B1	391.28	340320	-	\$	-	\$	-	\$
Normal	RP-2602-B1	392.11	341100	-	\$	-	\$	-	\$
Normal	RP-2602-B1	392.12	341200	-	\$	-	\$	-	\$
Normal	RP-2602-B1	394	343000	-	\$	-	\$	-	\$
Normal	RP-2602-B1	398	347000	-	\$	-	\$	-	\$
Special	RP-2602-D1	343.3	331350	-	\$	1,055	\$	-	\$
Normal	RP-2602-Q1	316	309000	-	\$	-	\$	-	\$
Normal	RP-2602-Q1	321	304200	-	\$	-	\$	-	\$
Normal	RP-2602-Q1	323.2	310100	-	\$	-	\$	-	\$
Normal	RP-2602-Q1	325	311200	-	\$	31,143	\$	-	\$
Normal	RP-2602-Q1	328.3	311530	-	\$	-	\$	-	\$
Normal	RP-2602-Q1	328.3	311500	-	\$	13,557	\$	-	\$
Normal	RP-2602-Q1	331	304300	-	\$	-	\$	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B													
Normal/Special	Budget Item	Budget Item Description	NARUC Acct No.	Additions/Adjustments and Retirements by Account Number by Month				Jul-07		Aug-07		Sep-07	
				JDE Acct No.	In Service	Retire	In Service	Retire	In Service	Retire			
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-WT Equip Non-Media	332	\$ 320100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp & Periph Equip	391.2	\$ 340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Computer Software	391.25	\$ 340300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comp Software Other	391.28	\$ 340330	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Laboratory Equipment	395	\$ 344000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Operated Equipment	396	\$ 345000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Remote Control & Instrumentati	397	\$ 346190	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Comm Equip Non-Telephone	397	\$ 346100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Misc Equipment	398	\$ 347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Supply Mains	316	\$ 309000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp AG-Lease	341	\$ 304510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Struct & Imp TD	341	\$ 304400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Meters	346	\$ 334100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Office Furniture & Equip	391.1	\$ 340100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Comp & Periph Equip	391.2	\$ 340200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Trans Equip Other	392.3	\$ 341400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Tools,Shop,Garage Equip	394	\$ 343000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Laboratory Equipment	395	\$ 344000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-P1	Tools and Equipment-Misc Equipment	398	\$ 347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-O1	Vehicles-Trans Equip Lt Duty Trks	392.11	\$ 341100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-O1	Vehicles-Trans Equip Hwy Duty Trks	392.12	\$ 341200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-O1	Vehicles-Trans Equip Autos	392.2	\$ 341300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-O1	Vehicles-Trans Equip Other	392.3	\$ 341400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-O1	Vehicles-Power Operated Equipment	396	\$ 345000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Struct & Imp WT Depr Pntng (IN	331.99	\$ 304301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Reservoirs & Standpipes	342	\$ 330000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-R1	Capitalized Tank Rehabilitation / P-Dist Res & Stand Orig Repaint	342.99	\$ 330003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp SS	311	\$ 304100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp TD	341	\$ 304400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Offices	390.1	\$ 304600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Struct & Imp Misc	390.3	\$ 304800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Office Furniture & Equip	391.1	\$ 340100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Other Office Equipment	391.3	\$ 340500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Non-Telephone	397	\$ 346100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-N1	Offices and Operations Centers-Comm Equip Telephone	397.2	\$ 346200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal	RP-2602-M1	Security Equipment and Systems-Misc Equipment	398	\$ 347000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-M1	Security Equipment and Systems-Struct & Imp AG	341	\$ 304500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Special	RP-2602-S1	Engineering Studies-Other P/E CPS	303.99	\$ 339600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Total		\$ 403,245	\$ (9,451)	\$ (303,096)	\$ 1,893,188	\$ 1,224,220	\$ (233)				

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month	NARUC Acct No.	JDE		Oct-07		Nov-07		Dec-07	
				No.	Acct	In Service	Retire	In Service	Retire	In Service	Retire
Special	26020003	CHAT-Design Eastridge Tank-Rights of Way TD	340.12	303502	\$	-	\$	-	\$	-	\$
Special	26020003	CHAT-Design Eastridge Tank-Elevated Tanks & Standpipes	342	330100	\$	-	\$	-	\$	-	\$
Special	26020003	CHAT-Design Eastridge Tank-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	(29,770)	\$
Special	26020003	CHAT-Design Eastridge Tank-Computer Software	391.25	340300	\$	-	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Special	26020303	CHAT-Design Eastridge Tank-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Organization	301	301000	\$	-	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Comp & Periph Equip	391.2	340200	\$	-	\$	-	\$	-	\$
Normal	26020401	Business Process Efficiency Project-Computer Software	391.25	340300	\$	-	\$	-	\$	-	\$
Special	26020402	Construct 1.0 MG Tank - Hill-Struct & Imp P	321	304200	\$	-	\$	-	\$	-	\$
Special	26020402	Construct 1.0 MG Tank - Hill-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-	\$
Special	26020403	26020403 - Security: Physical hardening-Misc Equipment	398	347000	\$	-	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-TD Mains 10in to 16in	343	331300	\$	-	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Services	345	333000	\$	-	\$	-	\$	-	\$
Special	26020501	TN DOT Relocations-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Special	26020601	Hill City Booster Suction-TD Mains 18in & Grtr	343.4	331400	\$	-	\$	-	\$	754	\$
Normal	26020602	Hill City Discharge-Supply Mains	316	309000	\$	-	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-Struct & Imp P	321	304200	\$	-	\$	-	\$	-	\$
Normal	26020602	Hill City Discharge-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Other	391.21	340210	\$	-	\$	-	\$	(45,374)	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Comp & Periph Mainframe	391.21	340210	\$	-	\$	-	\$	-	\$
Normal	26020703	SCADA EQUIPMENT & SYSTEMS-Remote Control & Instrumentati	397	346190	\$	-	\$	-	\$	17,665	\$
Special	26020704	SECURITY EQUIPMENT & SYSTEMS-Misc Equipment	398	347000	\$	(2,950)	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Organization	301	301000	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Services	345	333000	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Meters	346	334100	\$	-	\$	-	\$	-	\$
Special	26029606	CHAT-Filter #2 Improvements-Trans Equip Lt Duty Trks	392.11	341100	\$	-	\$	-	\$	-	\$
Normal	26029612	CHAT-Customer Service System-Comp Software Mainframe	391.25	340310	\$	-	\$	-	\$	-	\$
Special	26029804	CHAT-Replace Lrt Mtn Supp Mal-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Lake, River & Other Intakes	313	306000	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Pump Equip Electric	325	311200	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Struct & Imp WT	331	304300	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-WT Equip Non-Media	332	320100	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Services	345	333000	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Meters	346	334100	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Hydrants	348	335000	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Comp & Periph Other	391.21	340230	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Comm Equip Non-Telephone	397	346100	\$	-	\$	-	\$	-	\$
Normal	26030204	CHAT-Suck Creek Utility-Other Tangible Property	399	348000	\$	-	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	\$	-	\$
Normal	26040206	CHAT-Lone Oak Acquisition-Services	345	333000	\$	-	\$	-	\$	-	\$

Tennessee American Water Response to TRA Staff Data Request 51 A & B

Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		NARUC Acct No.		JDE Acct No.		Oct-07		Nov-07		Dec-07	
								In Service	Retire	In Service	Retire	In Service	Retire
Normal	26040206	CHAT-Lone Oak Acquisition-Meters	346	334100	\$	-	\$	-	-	-	-	-	-
Normal	26040206	CHAT-Lone Oak Acquisition-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	26060302	Walden's Ridge Utility-Dist Reservoirs & Standpipes	342	330000	\$	-	\$	-	-	-	-	-	-
Normal	26060302	Walden's Ridge Utility-TD Mains 10in to 16in	343	331300	\$	-	\$	-	-	-	-	-	-
Normal	26060302	Walden's Ridge Utility-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	26060302	Walden's Ridge Utility-Computer Software	391.25	340300	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Power Generation Equip Other	323.2	310100	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp WT Depr Pntrg (IN	331.99	304301	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Struct & Imp AG-Lease	341	304510	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-TD Mains Not Classified by Siz	343	331001	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Meters	346	334100	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Meters Other	346	334130	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Meters Plastic Case	346.2	334120	\$	-	\$	-	-	-	-	-	-
Normal	Adjustment	2006 Overhead Adjustment-Computer Software	391.25	340300	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-Supply Mains	316	309000	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-Struct & Imp P	321	304200	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-Struct & Imp WT	331	304300	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-WT Equip Non-Media	332	320100	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-TD Mains 10in to 16in	343	331300	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	DV-2602-1	Developer Contribution-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	DV-2604-1	Developer Contribution-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-	-	-
Normal	Land Sale	Land Sale-Land TD	340.11	303501	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Mains - New-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Mains - New-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Mains - New-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Mains - New-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Mains - New-Comp Software Mainframe	391.25	331350	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-A1	Meters - New-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Meters	346	334100	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Meters Other-Rem Rdr Units	346	334131	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Meters Bronze Case	346.1	334110	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Meter Installations	347	334200	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Comp & Periph Equip	391.2	340200	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Comp & Periph Personal	391.21	340220	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Meters - New-Tools,Shop, Garage Equip	394	345000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-J1	Meters - Replaced-Meters	346	334100	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-J1	Meters - Replaced-Meters Bronze Case	346.1	334110	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-J1	Meters - Replaced-Meter Installations	347	334200	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-J1	Meters - Replaced-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-J1	Meters - Replaced-Comp & Periph Other	391.21	340230	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-G1	Meters - Replaced-Comp & Periph Personal	391.21	340220	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Services and Laterals - New-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Services and Laterals - Replaced-Services	345	333000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-H1	Services and Laterals - Replaced-Hydrants	348	335000	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 4in & Less	343.1	331100	\$	-	\$	-	-	-	-	-	-
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	\$	-	-	-	-	-	-

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Normal/Special	Budget Item	Additions/Adjustments and Retirements by Account Number by Month		NARUC Acct No.	JDE Acct No.	Oct-07		Nov-07		Dec-07	
						In Service	Retire	In Service	Retire	In Service	Retire
		Budget Item Description									
Normal	RP-2602-F1	Hydrants, Valves, and Manholes-Rep-Hydrants	348	335000	\$	12,542	\$	6,602	\$	8,902	\$
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	-	-	-	-
Normal	RP-2602-E1	Hydrants, Valves, and Manholes-New-Hydrants	348	335000	\$	2,608	\$	4,242	\$	178,000	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 4in & Less	343.1	331100	\$	516	\$	3,372	\$	3,869	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 6in to 10in (TN)	343.2	331210	\$	80,188	\$	21,400	\$	35,326	\$
Special	RP-2602-C1	Mains - Unscheduled-TD Mains 12in & Grtr (TN)	343.3	331350	\$	739	\$	5,908	\$	13,121	\$
Special	RP-2602-C1	Mains - Unscheduled-Services	345	333000	\$	3	\$	15	\$	69	\$
Special	RP-2602-C1	Mains - Unscheduled-Hydrants	348	335000	\$	-	-	-	-	347	\$
Normal	RP-2602-K1	ITS Equipment and Systems-WT Equip Non-Media	332	320100	\$	-	-	-	-	-	-
Normal	RP-2602-K1	ITS Equipment and Systems-TD Mains 6in to 10in (TN)	343.2	331210	\$	-	-	-	-	(15,500)	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Office Furniture & Equip	391.1	340100	\$	-	-	-	-	-	-
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Equip	391.2	340200	\$	-	-	-	-	-	(12,097)
Normal	RP-2602-K1	ITS Equipment and Systems-Data Handling Equipment	391.2	340400	\$	-	-	-	-	-	-
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Other	391.21	340230	\$	5,641	\$	-	-	39,733	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp & Periph Personal	391.21	340220	\$	25,213	\$	-	-	(14,009)	\$
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Mainframe	391.25	340310	\$	-	-	-	-	-	-
Normal	RP-2602-K1	ITS Equipment and Systems-Comp Software Personal	391.28	340320	\$	-	-	-	-	-	(9,372)
Normal	RP-2602-K1	ITS Equipment and Systems-Other Office Equipment	391.3	340500	\$	-	-	-	-	-	(44,519)
Normal	RP-2602-K1	ITS Equipment and Systems-Comm Equip Telephone	397.2	346200	\$	-	-	-	-	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-Supply Mains	316	309000	\$	-	-	-	-	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp P	321	304200	\$	-	-	-	-	34,523	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp WT Depr Pntng (IN	331.99	304301	\$	-	-	-	-	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-WT Equip Non-Media	332	320100	\$	-	-	-	-	17,195	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Land TD	340.11	303501	\$	-	-	-	-	13,000	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp AG	341	304500	\$	-	-	-	-	45,344	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Elevated Tanks & Standpipes	342	330100	\$	-	-	-	-	139,180	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains Not Classified by Siz	343	331001	\$	137	\$	-	-	257,484	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 10in to 16in	343	331300	\$	-	-	-	-	177	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 8in	343	331200	\$	-	-	-	-	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 4in & Less	343.1	331100	\$	22,760	\$	1,351	\$	44,615	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-TD Mains 6in to 10in (TN)	343.2	331210	\$	20,076	\$	45,889	\$	35,809	\$
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 12in & Grtr (TN)	343.3	331350	\$	20,367	\$	1,513	\$	420,139	\$
Special	RP-2602-B1	Mains - Replaced / Restored-TD Mains 18in & Grtr	343.4	331400	\$	-	-	-	-	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-Services	345	333000	\$	-	-	-	-	128	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Meters	346	334100	\$	-	-	-	-	58,478	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Meter Installations	347	334200	\$	-	-	4,141	\$	-	-
Normal	RP-2602-B1	Mains - Replaced / Restored-Hydrants	348	335000	\$	-	-	-	-	709	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Struct & Imp Offices	390.1	304600	\$	-	-	-	-	(13,000)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Other	391.21	340230	\$	-	-	-	-	(53,090)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp & Periph Personal	391.21	340220	\$	-	-	-	-	(541)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Comp Software Personal	391.28	340320	\$	-	-	-	-	(5,388)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Lt Duty Trks	392.11	341100	\$	-	-	-	-	17,000	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Trans Equip Hvy Duty Trks	392.12	341200	\$	-	-	-	-	(17,000)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Tools,Shop,Garage Equip	394	343000	\$	-	-	-	-	(4,262)	\$
Normal	RP-2602-B1	Mains - Replaced / Restored-Misc Equipment	398	347000	\$	-	-	-	-	4,803	\$
Special	RP-2602-D1	Mains-Relocated (Water-TD Mains 12in & Grtr (TN)	343.3	331350	\$	-	-	-	-	170,760	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Supply Mains	316	309000	\$	-	-	-	-	1,171	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp P	321	304200	\$	-	-	-	-	18,646	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Power Generation Equip Other	323.2	310100	\$	-	-	-	-	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Electric	325	311200	\$	-	-	-	-	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pumping Equipment WT	328.3	311530	\$	-	-	-	-	49,049	\$
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Pump Equip Other	328.3	311500	\$	-	-	-	-	-	-
Normal	RP-2602-Q1	Process Plant - Facilities and Equip-Struct & Imp WT	331	304300	\$	-	-	-	-	-	(467)

Total

TENNESSEE AMERICAN WATER COMPANY
Docket No. 08-00039
Tennessee Regulatory Authority Staff Data Request No. 1
SUPPLEMENTAL RESPONSE

Responsible Witness: John Watson

RATE BASE (EXCLUDING WORKING CAPITAL)

Question:

52. Break down budgeted plant additions between normal and special projects, using the criteria defined above, for the months between the end of the last fiscal year and the end of the attrition period. Provide sufficient detail of each individual project as to the date of inception and completion, and the proposed methods of financing. Identify those budgeted plant additions that are in process or have already been completed. Basic assumptions underlying budgets should also be submitted including the assumptions for sales volumes.

Response:

Due the extensive amount of information required to complete this response the Company is requesting an additional two weeks to complete the response. If the information is completed prior the two week extension, the Company will provide the response earlier. Please see the response to question 51 –a.

Supplemental Response:

Please see the attached schedule which details the additions through the end of the attrition year which is what Tennessee American Water Company has requested in this rate filing. You may also refer to the file included on the enclosed CD titled TN-TRA-01-Q052-SUPPLEMENTAL-ATTACHMENT. The additional detail regarding the individual projects is included with TRA DR 1 Question 53.

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Dec-07		Jan-08	
			Actual In Service	Actual Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000			7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000			-	
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110	1,299,947			
26020086 Services and Laterals-Replacement	345	333000	6,303		78,668	
26020086 Services and Laterals-Replacement	347	334200	42,756			
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200	131,782			
26020085 Services and Laterals -Replacement	348	335000		(84)		
26020085 Services and Laterals -Replacement	345	333000	54,143		3,000	1,800
26020088 - I						
26020088 Meters New Install	346	334130			7,400	
	391.21	340220	13,263			
26020088 Meters/MeterSettings New Install	347	334200	370		8,600	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130			2,200	1,800
26020087-Meters/Meter Setting Replacmt	347	334200				
26020087-Meters/Meter Setting Replacmt	391.21	340220	1,296			
	391.2	340230	5,641			
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000	(2,165)			
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230	45,374	(12,899)		
26020089 IT Equipment and Systems	391.3	340500		(44,519)		
26020089 IT Equipment and Systems	391.3	340320		(9,372)		
26020089 IT Equipment and Systems	347	340200		(12,097)		
26020089 IT Equipment and Systems	391.21	340220		(299,635)		
SCADA - L						
SCADA Equipment and Systems	331	304300				
Security- M						
Security Equipment and Systems	331	304300				
26020090 - N						
		347000		(365)		
		346200		(70,027)		
		346100		(2,344)		
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100		(101,696)		
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100		(60,739)	-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE	Acct No.	Dec-07		Jan-08	
				Actual In Service	Actual Retire	Budgeted In Service	Retire
26020091 Vehicles-Hvy Trucks	392.12		341200				
26020091 Vehicles-Auto	392.2		341300				
26020091 Vehicles-Self Power Equip/Backhoes	397.2		346200				
26020092 - P							
26020092 Tools and Equipment	394		343000				
26020092 Tools and Equipment	391.21		340220			3,000	1,000
26020093, 26020094, 26020095 - Q							
26020093 Treatment Plant-Lab Equip Replacement			331210	(14,795)			
26020093 Treatment Plant-Lab Equip Replacement	395		344000		(1,884)	6,000	
26020094 Treatment Plant Equipment Additions	391.25		340300		(467)		
26020093 Treatment Plant-Equip Replacement	321		304200		(136)		
26020093 Treatment Plant-Equip Replacement-Structures	331		304300				
26020093 Treatment Plant-Equip Replacement-WT Equip	332		320100				
26020093 Treatment Plant-Equip Replacement Pumping	325		311200				
26020093 Treatment Plant-Equip Replacement	342		330000				
26020093 Treatment Plant-Equip Replacement	398		347000				
26020096 - R							
26020096 Capitalized Tank Rehabilitation/Painting	342		330000		(13,254)		
26020097 - S							
26020097 Engineering Studies	343		331001				
			339600		(405,132)		
26040206							
Lone Oak Water Main	343		331350	127			
Special Projects							
26020003, Construct 1 Million Gallon Tank Jenkins Road	343		331210	150			
26020601 Hill City Booster Discharge Improvements	343		331400	754			
	345		333000	66			
26060302 Walden's Ridge	345		333000	5,931			
26020501 TDOT Relocations	343		331350				
26020503, Citico WTP Pretreatment Phase 1	331		304300				
Citico WTP Filtration Phase 2	331		304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Dec-07		Jan-08	
			Actual In Service	Actual Retire	Budgeted In Service	Retire
Budget						
26020701 Pressure Reduction	343	331210				
26020702 Missionary Ridge Storage Tank						
	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line						
	340.12	303502				
	343	331350				
Ringold Road at I-75						
	340.12	303502				
	343	331350				
Undistributed items			832,294			
Total			2,630,053	(1,053,283)	313,961	20,163

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Feb-08		Mar-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020084 Hydrants valves and Manholes-New	348	335000	3,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000			6,000	1,500
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	43,995		72,490	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	7,500	2,100	7,525	2,075
26020088 - I						
26020088 Meters New Install	346	334130	7,000		7,000	
	391.21	340220				
26020088 Meters/MeterSettings New Install	347	334200	9,000		9,000	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	104,000	4,500		
26020087-Meters/Meter Setting Replacmt	347	334200	150,000	2,500		
26020087-Meters/Meter Setting Replacmt	391.21	340220			7,600	
	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220				
SCADA - L						
SCADA Equipment and Systems	331	304300	25,000		2,500	
Security- M						
Security Equipment and Systems	331	304300			22,000	3,000
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100			10,000	
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	-		-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Feb-08		Mar-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020091 Vehicles-Hvy Trucks	392.12	341200				
26020091 Vehicles-Auto	392.2	341300				
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200				
26020092 - P						
26020092 Tools and Equipment	394	343000	8,000		10,800	1,200
26020092 Tools and Equipment	391.21	340220				
26020093, 26020094, 26020095 - Q						
26020093 Treatment Plant-Lab Equip Replacement		331210				
26020093 Treatment Plant-Lab Equip Replacement	395	344000				
26020094 Treatment Plant Equipment Additions	391.25	340300				
26020093 Treatment Plant-Equip Replacement	321	304200				
26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
26020093 Treatment Plant-Equip Replacement-VT Equip	332	320100	20,000	2,000	54,000	25,000
26020093 Treatment Plant-Equip Replacement Pumping	325	311200				
26020093 Treatment Plant-Equip Replacement	342	330000				
26020093 Treatment Plant-Equip Replacement	398	347000	3,000			
26020096 - R						
26020096 Capitalized Tank Rehabilitation/Painting	342	330000				
26020097 - S						
26020097 Engineering Studies	343	331001				
		339600				
26040206						
Lone Oak Water Main	343	331350				
Special Projects						
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
26020601 Hill City Booster Discharge Improvements	343	331400				
	345	333000				
26060302 Walden's Ridge	345	333000				
26020501 TDOT Relocations	343	331350				
26020503, Citico WTP Pretreatment Phase 1	331	304300				
Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Feb-08		Mar-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020701 Pressure Reduction	343	331210				
26020702 Missionary Ridge Storage Tank						
	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line						
	340.12	303502				
	343	331350				
Ringold Road at I-75						
	340.12	303502				
	343	331350				
Undistributed Items						
Total			555,024	17,223	446,641	45,092

Tennessee American Water Company Response to Data Request 52

Budget		NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	May-08
Normal Construction							
26020080- DV							
26020080 Mains Installed -Developer Contrib-Mains 4" & Less	343	331100					
26020080 Mains Installed -Developer Contrib-Mains 6-10" TN	343	331210			32,456		54,840
26020080 Mains Installed -Developer Contrib-Serv Laterals	345	333000			16,461		3,404
26020080 Mains Installed -Developer Contrib-Fire Hydts	348	335000			8,235		2,800
26020082 - A							
26020082 Network Mains New 6-10" TN	343	331210					25,000
26020081- B							
26020081 Network Replace/Renew Co Expense-Supply Mains	316	309000					
26020081 Network Replace/Renew Co Expense- T & D Storage Struct	341	304500					
26020081 Network Replace/Renew Co Expense-Electric Pump Eq	321	304200					
26020081 Network Replace/Renew Co Expense-Water Treat. Eq	332	320100					
26020081 Network Replace/Renew Co Expense-T & D Storage Equip	342	330100					
26020081 Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394	343000					
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341200					
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341100					
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340320					
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340230					
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340220					
26020081 Network Replace/Renew Co Expense-Reclass	346	334100					
26020081 Network Replace/Renew Co Expense-Reclass	391.3	340600					
26020081 Network Replace/Renew Co Expense-Reclass	340.1	303501					
26020081 Network Replace/Renew Co Expense-Misc. Equip	398	347000					
26020081 Mains Installed -Developer Contrib-Unclassified	343	331001					
26020081 Network Replace/Renew Co Expense-Mains 4" & less	343	331100					4,000
26020081 Network Replace/Renew Co Expense-Mains 6-10" TN	343	331210			138,000	6,500	10,000
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331300					
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331350				107,000	
26020081 Network Replace/Renew Co Expense-Fire Hydrants	348	335000			12,000	1,000	1,000
C							
		3331350					
26020081 Network Mains-Unscheduled-6-10"TN	343	331210			-		
D							
26020081 Network -Mains Relocated 4" & less	343	331100				2,610	4,455
26020081 Network -Mains Relocated 6-10" TN	343	331210					
26020081 Network Mains Relocated -12" & Grtr TN	343	331350			17,390		15,545
26020084 - E							

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Apr-08		May-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000	7,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000	5,000	2,500	6,000	1,500
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	35,306		71,850	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	8,000	1,600	9,600	
26020088 - I						
26020088 Meters New Install	346	334130	12,000		46,000	
	391.21	340220				
	347	334200	20,000		50,000	
26020088 Meters/MeterSettings New Install						
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	6,500	1,100	151,100	8,900
26020087-Meters/Meter Setting Replacmt	347	334200			100,000	1,000
26020087-Meters/Meter Setting Replacmt	391.21	340220				
	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220				
SCADA - L						
SCADA Equipment and Systems	331	304300				
Security- M						
Security Equipment and Systems	331	304300				
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100	30,000	6,000		
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	179,000	17,900	48,000	4,800

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

					Apr-08		May-08	
					Budgeted In Service	Retire	Budgeted In Service	Retire
Budget	26020091 Vehicles-Hvy Trucks	392.12	JDE 341200		53,000	5,300	32,000	3,200
	26020091 Vehicles-Auto	392.2	341300		21,000	2,100		
	26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200					
26020092 - P								
	26020092 Tools and Equipment	394	343000		12,000		10,400	
	26020092 Tools and Equipment	391.21	340220				5,600	
26020093, 26020094, 26020095 - Q								
	26020093 Treatment Plant-Lab Equip Replacement		331210					
	26020093 Treatment Plant-Lab Equip Replacement	395	344000					
	26020094 Treatment Plant Equipment Additions	391.25	340300					
	26020093 Treatment Plant-Equip Replacement	321	304200					
	26020093 Treatment Plant-Equip Replacement-Structures	331	304300					
	26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100					
	26020093 Treatment Plant-Equip Replacement Pumping	325	311200		35,000	5,000		
	26020093 Treatment Plant-Equip Replacement	342	330000					
	26020093 Treatment Plant-Equip Replacement	398	347000				4,000	
26020096 - R								
	26020096 Capitalized Tank Rehabilitation/Painting	342	330000			5,000	50,000	
26020097 - S								
	26020097 Engineering Studies	343	331001					
			339600					
26040206								
	Lone Oak Water Main	343	331350					
Special Projects								
	26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210					
	26020601 Hill City Booster Discharge Improvements	343	331400					
		345	333000					
	26060302 Walden's Ridge	345	333000					
26020501 TDOT Relocations								
		343	331350					
	26020503, Citico WTP Pretreatment Phase 1	331	304300					
	Citico WTP Filtration Phase 2	331	304300					

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Apr-08		May-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020701 Pressure Reduction	343	331210				
26020702 Missionary Ridge Storage Tank	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line	340.12	303502			10,000	
	343	331350				
Ringold Road at I-75	340.12	303502				
	343	331350				
Undistributed items						
Total			648,348	56,610	818,139	38,855

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget		NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service	Jul-08
Normal Construction								
26020080- DV								
26020080	Mains Installed -Developer Contrib-Mains 4" & Less	343		331100				
26020080	Mains Installed -Developer Contrib-Mains 6-10" TN	343		331210	162,278		197,800	
26020080	Mains Installed -Developer Contrib-Serv Laterals	345		333000	80,472		72,000	
26020080	Mains Installed -Developer Contrib-Fire Hydts	348		335000	57,250		30,200	
26020082 - A								
26020082	Network Mains New 6-10" TN	343		331210				
26020081- B								
26020081	Network Replace/Renew Co Expense-Supply Mains	316		309000				
26020081	Network Replace/Renew Co Expense-T & D Storage Struct	341		304500				
26020081	Network Replace/Renew Co Expense-Electric Pump Eq	321		304200				
26020081	Network Replace/Renew Co Expense-Water Treat. Eq	332		320100				
26020081	Network Replace/Renew Co Expense-T & D Storage Equip	342		330100				
26020081	Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394		343000				
26020081	Network Replace/Renew Co Expense-Reclass	392.1		341200				
26020081	Network Replace/Renew Co Expense-Reclass	392.1		341100				
26020081	Network Replace/Renew Co Expense-Reclass	391.2		340320				
26020081	Network Replace/Renew Co Expense-Reclass	391.2		340230				
26020081	Network Replace/Renew Co Expense-Reclass	391.2		340220				
26020081	Network Replace/Renew Co Expense-Reclass	346		334100				
26020081	Network Replace/Renew Co Expense-Reclass	391.3		340600				
26020081	Network Replace/Renew Co Expense-Reclass	340.1		303501				
26020081	Network Replace/Renew Co Expense-Misc. Equip	398		347000				
26020081	Mains Installed -Developer Contrib-Unclassified	343		331001		1,850		1,850
26020081	Network Replace/Renew Co Expense-Mains 4" & less	343		331100			145,000	
26020081	Network Replace/Renew Co Expense-Mains 6-10" TN	343		331210	145,000			
26020081	Network Replace/Renew Co Expense-12" & Grtr TN	343		331300				
26020081	Network Replace/Renew Co Expense-12" & Grtr TN	343		331350				
26020081	Network Replace/Renew Co Expense-12" & Grtr TN	348		335000	3,000	150	3,000	150
C								
26020081	Network Mains-Unscheduled-6-10"TN			3331350				
26020081	Network Mains-Unscheduled-6-10"TN	343		331210	15,000			
D								
26020081	Network -Mains Relocated 4" & less	343		331100		2,610		2,265
26020081	Network -Mains Relocated 6-10" TN	343		331210			17,735	
26020081	Network Mains Relocated -12" & Grtr TN	343		331350	17,390			
26020084 - E								

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE	Acct No.	Jun-08		Jul-08	
				Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348		335000	7,000		7,000	
26020083 - F							
26020083 Hydrants valves and Manholes-Replaced	348		335000	5,000	2,500	7,100	400
26020086 - G							
26020086 Services and Laterals-Replacement	346.1		334110				
26020086 Services and Laterals-Replacement	345		333000	58,224		43,977	
26020086 Services and Laterals-Replacement	347		334200				
26020085 - H							
26020085 Services and Laterals -Replacement	347		334200				
26020085 Services and Laterals -Replacement	348		335000				
26020085 Services and Laterals -Replacement	345		333000	10,756	1,244	10,756	1,244
26020088 - I							
26020088 Meters New Install	346		334130	65,000		44,000	
	391.21		340220				
26020088 Meters/MeterSettings New Install	347		334200	71,000		100,000	
26020087 - J							
26020087-Meters/Meter Setting Replacmt	346		334130	6,500	1,100		
26020087-Meters/Meter Setting Replacmt	347		334200			6,500	1,100
26020087-Meters/Meter Setting Replacmt	391.21		340220				
	391.2		340230				
26020087-Meters/Meter Setting Replacmt	391.25		340300				
26020087-Meters/Meter Setting Replacmt	348		335000				
26020089 - K							
26020089 IT Equipment and Systems	391.2		340230				
26020089 IT Equipment and Systems	391.3		340500				
26020089 IT Equipment and Systems	391.3		340320				
26020089 IT Equipment and Systems	347		340200				
26020089 IT Equipment and Systems	391.21		340220	14,800	1,200		
SCADA - L							
SCADA Equipment and Systems	331		304300	22,000			
Security- M							
Security Equipment and Systems	331		304300	25,000			
26020090 - N							
			347000				
			346200				
			346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2		340100			24,000	2,500
26020091 - O							
26020091 Vehicles-Lt Trucks	392.11		341100			15,000	15,000

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Jun-08		Jul-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020091 Vehicles-Hvy Trucks	392.12	341200			25,000	2,500
26020091 Vehicles-Auto	392.2	341300	6,000	600	11,000	1,100
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200	6,000	600		
26020092 - P						
26020092 Tools and Equipment	394	343000	17,500	2,500	18,500	1,500
26020092 Tools and Equipment	391.21	340220				
26020093, 26020094, 26020095 - Q						
26020093 Treatment Plant-Lab Equip Replacement		331210				
26020093 Treatment Plant-Lab Equip Replacement	395	344000				
26020094 Treatment Plant Equipment Additions	391.25	340300	4,000			1,500
26020093 Treatment Plant-Equip Replacement	321	304200				
26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100			53,500	
26020093 Treatment Plant-Equip Replacement Pumping	325	311200				
26020093 Treatment Plant-Equip Replacement	342	330000			25,000	
26020093 Treatment Plant-Equip Replacement	398	347000				
26020096 - R						
26020096 Capitalized Tank Rehabilitation/Painting	342	330000	100,000		155,000	20,000
26020097 - S						
26020097 Engineering Studies	343	331001	10,000			
		339600				
26040206						
Lone Oak Water Main	343	331350				
Special Projects						
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
26020601 Hill City Booster Discharge Improvements	343	331400				
	345	333000				
26060302 Walden's Ridge	345	333000				
26020501 TDOT Relocations	343	331350				
26020503, Citico WTP Pretreatment Phase 1	331	304300				
Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget			Jun-08		Jul-08	
	NARUC Acct No.	JDE Acct No.	Budgeted In Service	Retire	Budgeted In Service	Retire
26020701 Pressure Reduction	343	331210				
26020702 Missionary Ridge Storage Tank	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line	340.12	303502				
	343	331350				
Ringold Road at I-75	340.12	303502	50,000			
	343	331350				
Undistributed items						
Total			959,170	14,354	1,012,068	51,109

Projection of Additions and Retirement								
Budget				Aug-08		Sep-08		
	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service	Retire	
Normal Construction								
26020080- DV								
26020080 Mains Installed -Developer Contrib-Mains 4" & Less	343		331100					
26020080 Mains Installed -Developer Contrib-Mains 6-10" TN	343		331210		222,045		205,000	
26020080 Mains Installed -Developer Contrib-Serv Laterals	345		333000		65,316		20,000	
26020080 Mains Installed -Developer Contrib-Fire Hydts	348		335000		12,639		25,000	
26020082 - A								
26020082 Network Mains New 6-10" TN	343		331210					
26020081- B								
26020081 Network Replace/Renew Co Expense-Supply Mains	316		309000					
26020081 Network Replace/Renew Co Expense-T & D Storage Struct	341		304500					
26020081 Network Replace/Renew Co Expense-Electric Pump Eq	321		304200					
26020081 Network Replace/Renew Co Expense-Water Treat. Eq	332		320100					
26020081 Network Replace/Renew Co Expense-T & D Storage Equip	342		330100					
26020081 Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394		343000					
26020081 Network Replace/Renew Co Expense-Reclass	392.1		341200					
26020081 Network Replace/Renew Co Expense-Reclass	392.1		341100					
26020081 Network Replace/Renew Co Expense-Reclass	391.2		340320					
26020081 Network Replace/Renew Co Expense-Reclass	391.2		340230					
26020081 Network Replace/Renew Co Expense-Reclass	391.2		340220					
26020081 Network Replace/Renew Co Expense-Reclass	346		334100					
26020081 Network Replace/Renew Co Expense-Reclass	391.3		340600					
26020081 Network Replace/Renew Co Expense-Reclass	340.1		303501					
26020081 Network Replace/Renew Co Expense-Misc. Equip	398		347000					
26020081 Mains Installed -Developer Contrib-Unclassified	343		331001					
26020081 Network Replace/Renew Co Expense-Mains 4" & less	343		331100		1,000			1,850
26020081 Network Replace/Renew Co Expense-Mains 6-10" TN	343		331210		145,500		145,000	
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343		331300					
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343		331350					
26020081 Network Replace/Renew Co Expense-Fire Hydrants	348		335000		2,500	1,000	3,150	
C								
			3331350					
26020081 Network Mains-Unscheduled-6-10"TN	343		331210		9,000		15,000	
D								
26020081 Network -Mains Relocated 4" & less	343		331100					
26020081 Network -Mains Relocated 6-10" TN	343		331210		17,735	2,265	17,600	2,400
26020081 Network Mains Relocated -12" & Grtr TN	343		331350					
26020084 - E								

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

		Projection of Additions and Retirement				
		Aug-08		Sep-08		
Budget	NARUC Acct No.	JDE Acct No.	Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000	7,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000	6,700	800	7,000	500
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	57,605		56,365	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	11,000	1,000	11,555	445
26020088 - I						
26020088 Meters New Install	346	334130	25,000		30,000	
	391.21	340220				
	347	334200	55,000		30,000	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	91,000	12,000	6,500	1,100
26020087-Meters/Meter Setting Replacmt	347	334200	120,000	15,000		
26020087-Meters/Meter Setting Replacmt	391.21	340220	10,000			
	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300	13,000			
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220	26,350	1,650	31,000	5,000
SCADA - L						
SCADA Equipment and Systems	331	304300				
Security- M						
Security Equipment and Systems	331	304300				
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100				
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	64,000	6,400	-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Projection of Additions and Retiremer									
				Aug-08		Sep-08			
Budget	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service	Retire		
26020091 Vehicles-Hvy Trucks	392.12		341200	32,000	3,200				
26020091 Vehicles-Auto	392.2		341300						
26020091 Vehicles-Self Power Equip/Backhoes	397.2		346200						
26020092 - P									
26020092 Tools and Equipment	394		343000	12,000	2,000	6,000			
26020092 Tools and Equipment	391.21		340220			2,000			
26020093, 26020094, 26020095 - Q									
26020093 Treatment Plant-Lab Equip Replacement			331210						
26020093 Treatment Plant-Lab Equip Replacement	395		344000						
26020094 Treatment Plant Equipment Additions	391.25		340300						1,500
26020093 Treatment Plant-Equip Replacement	321		304200						
26020093 Treatment Plant-Equip Replacement-Structures	331		304300						
26020093 Treatment Plant-Equip Replacement-WT Equip	332		320100	16,000		26,500			
26020093 Treatment Plant-Equip Replacement Pumping	325		311200						
26020093 Treatment Plant-Equip Replacement	342		330000			12,000			
26020093 Treatment Plant-Equip Replacement	398		347000						
26020096 - R									
26020096 Capitalized Tank Rehabilitation/Painting	342		330000	20,000	20,000				20,000
26020097 - S									
26020097 Engineering Studies	343		331001			10,000			
			339600						
26040206									
Lone Oak Water Main	343		331350						
Special Projects									
26020003, Construct 1 Million Gallon Tank Jenkins Road	343		331210						
26020601 Hill City Booster Discharge Improvements									
	343		331400						
	345		333000						
26060302 Walden's Ridge									
	345		333000						
26020501 TDOT Relocations									
	343		331350						
26020503, Citico WTP Pretreatment Phase 1									
	331		304300	750,000	50,000				
Citico WTP Filtration Phase 2									
	331		304300						

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Projection of Additions and Retirement						
				Aug-08	Sep-08	
Budget	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Budgeted In Service	Retire
26020701 Pressure Reduction	343		331210		25,000	
26020702 Missionary Ridge Storage Tank	340.1		303500			
	342		330100		180,000	
26029804 Replace Lkt. Mtn Supply Line	340.12		303502			
	343		331350			
Ringold Road at I-75	340.12		303502			
	343		331350			
Undistributed Items						
Total				1,791,390	871,670	32,795

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

nts

Budget	NARUC Acct No.	JDE Acct No.	Oct-08		Nov-08	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Normal Construction						
26020080- DV						
26020080 Mains Installed -Developer Contrib-Mains 4" & Less	343	331100				
26020080 Mains Installed -Developer Contrib-Mains 6-10" TN	343	331210	185,000		176,300	
26020080 Mains Installed -Developer Contrib-Serv Laterals	345	333000	60,000		38,700	
26020080 Mains Installed -Developer Contrib-Fire Hydts	348	335000	5,000			
26020082 - A						
26020082 Network Mains New 6-10" TN	343	331210	100,000		-	
26020081- B						
26020081 Network Replace/Renew Co Expense-Supply Mains	316	309000				
26020081 Network Replace/Renew Co Expense-T & D Storage Struct	341	304500				
26020081 Network Replace/Renew Co Expense-Electric Pump Eq	321	304200				
26020081 Network Replace/Renew Co Expense-Water Treat. Eq	332	320100				
26020081 Network Replace/Renew Co Expense-T & D Storage Equip	342	330100				
26020081 Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394	343000				
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341200				
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341100				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340320				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340230				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340220				
26020081 Network Replace/Renew Co Expense-Reclass	346	334100				
26020081 Network Replace/Renew Co Expense-Reclass	391.3	340600				
26020081 Network Replace/Renew Co Expense-Reclass	340.1	303501				
26020081 Network Replace/Renew Co Expense-Misc. Equip	398	347000				
26020081 Mains Installed -Developer Contrib-Unclassified	343	331001				
26020081 Network Replace/Renew Co Expense-Mains 4" & less	343	331100		18,250		23,090
26020081 Network Replace/Renew Co Expense-Mains 6-10" TN	343	331210			76,910	
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331300				
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331350	111,750			
26020081 Network Replace/Renew Co Expense-Fire Hydrants	348	335000				
C						
		3331350				
26020081 Network Mains-Unscheduled-6-10"TN	343	331210	15,000			
D						
26020081 Network -Mains Relocated 4" & less	343	331100				
26020081 Network -Mains Relocated 6-10" TN	343	331210	30,000		12,500	7,500
26020081 Network Mains Relocated -12" & Grtr TN	343	331350	18,000	2,000		
26020084 - E						

Tennessee American Water Company Response to Data Request 52
Additions and Retirement Budgeted thru the Attrition Period

nts		Oct-08		Nov-08	
Budget	NARUC Acct No.	JDE Acct No.	Budgeted In Service	Retire	Retire
26020084 Hydrants valves and Manholes-New	348	335000	17,000	17,000	
26020083 - F					
26020083 Hydrants valves and Manholes-Replaced	348	335000	6,000	1,500	646
26020086 - G					
26020086 Services and Laterals-Replacement	346.1	334110			
26020086 Services and Laterals-Replacement	345	333000	61,900		40,881
26020086 Services and Laterals-Replacement	347	334200			
26020085 - H					
26020085 Services and Laterals -Replacement	347	334200			
26020085 Services and Laterals -Replacement	348	335000			
26020085 Services and Laterals -Replacement	345	333000	22,000	2,038	2,032
26020088 - I					
26020088 Meters New Install	346	334130	10,000		6,000
	391.21	340220			
26020088 Meters/MeterSettings New Install	347	334200	10,000		10,000
26020087 - J					
26020087-Meters/Meter Setting Replacmt	346	334130			86,000
26020087-Meters/Meter Setting Replacmt	347	334200	6,600	1,000	13,000
26020087-Meters/Meter Setting Replacmt	391.21	340220			
	391.2	340230			
26020087-Meters/Meter Setting Replacmt	391.25	340300			
26020087-Meters/Meter Setting Replacmt	348	335000			
26020089 - K					
26020089 IT Equipment and Systems	391.2	340230			
26020089 IT Equipment and Systems	391.3	340500			
26020089 IT Equipment and Systems	391.3	340320			
26020089 IT Equipment and Systems	347	340200			
26020089 IT Equipment and Systems	391.21	340220			
SCADA - L					
SCADA Equipment and Systems	331	304300	25,000		
Security- M					
Security Equipment and Systems	331	304300	25,000		
26020090 - N					
		347000			
		346200			
		346100			
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100			16,000
26020091 - O					
26020091 Vehicles-Lt Trucks	392.11	341100	-		

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

nts		Oct-08		Nov-08	
Budget	NARUC Acct No.	JDE Acct No.	Budgeted In Service	Retire	Retire
26020091 Vehicles-Hvy Trucks	392.12	341200			
26020091 Vehicles-Auto	392.2	341300			
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200			
26020092 - P					
26020092 Tools and Equipment	394	343000	4,000		
26020092 Tools and Equipment	391.21	340220	4,000		
26020093, 26020094, 26020095 - Q					
26020093 Treatment Plant-Lab Equip Replacement		331210			
26020093 Treatment Plant-Lab Equip Replacement	395	344000			
26020094 Treatment Plant Equipement Additions	391.25	340300			
26020093 Treatment Plant-Equip Replacement	321	304200			
26020093 Treatment Plant-Equip Replacement-Structures	331	304300	15,000	500	
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100	49,000		
26020093 Treatment Plant-Equip Replacement Pumping	325	311200			
26020093 Treatment Plant-Equip Replacement	342	330000			
26020093 Treatment Plant-Equip Replacement	398	347000		1,000	
26020096 - R					
26020096 Capitalized Tank Rehabilitation/Painting	342	330000	65,000		
26020097 - S					
26020097 Engineering Studies	343	331001			
		339600			
26040206					
Lone Oak Water Main	343	331350			
Special Projects					
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210			
26020601 Hill City Booster Discharge Improvements	343	331400			
	345	333000			
26060302 Walden's Ridge	345	333000			
26020501 TDOT Relocations	343	331350			
26020503, Citico WTP Pretreatment Phase 1	331	304300			
Citico WTP Filtration Phase 2	331	304300			

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

		nts		Oct-08		Nov-08	
Budget	NARUC Acct No.	JDE Acct No.		Budgeted In Service	Retire	Budgeted In Service	Retire
26020701 Pressure Reduction	343	331210		50,000	10,000	25,000	
26020702 Missionary Ridge Storage Tank	340.1	303500					
	342	330100					
26029804 Replace Lkt. Mtn Supply Line	340.12	303502					
	343	331350					
Ringold Road at I-75	340.12	303502					
	343	331350					
Undistributed items							
Total				895,250	35,288	670,713	58,268

Normal Construction

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Dec-08		Jan-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000	7,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000			-	
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	42,739		78,668	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	9,600		8,000	3,000
26020088 - I						
26020088 Meters New Install	346	334130	4,000		7,400	
	391.21	340220				
26020088 Meters/MeterSettings New Install	347	334200	4,000		8,600	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	15,000	2,100	2,200	1,800
26020087-Meters/Meter Setting Replacmt	347	334200	4,900	1,000		
26020087-Meters/Meter Setting Replacmt	391.21	340220				
	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220				
SCADA - L						
SCADA Equipment and Systems	331	304300				
Security- M						
Security Equipment and Systems	331	304300				
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100				
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	-		-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Dec-08		Jan-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020091 Vehicles-Hvy Trucks	392.12	341200				
26020091 Vehicles-Auto	392.2	341300				
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200				
26020092 - P						
26020092 Tools and Equipment	394	343000				
26020092 Tools and Equipment	391.21	340220	6,200		3,000	1,000
26020093, 26020094, 26020095 - Q						
26020093 Treatment Plant-Lab Equip Replacement		331210				
26020093 Treatment Plant-Lab Equip Replacement	395	344000			12,000	
26020094 Treatment Plant Equipment Additions	391.25	340300				
26020093 Treatment Plant-Equip Replacement	321	304200				
26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100	6,000		10,000	
26020093 Treatment Plant-Equip Replacement Pumping	325	311200				
26020093 Treatment Plant-Equip Replacement	342	330000				
26020093 Treatment Plant-Equip Replacement	398	347000				
26020096 - R						
26020096 Capitalized Tank Rehabilitation/Painting	342	330000				
26020097 - S						
26020097 Engineering Studies	343	331001	10,000			
		339600				
26040206						
Lone Oak Water Main	343	331350				
Special Projects						
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
26020601 Hill City Booster Discharge Improvements	343	331400				
	345	333000				
26060302 Walden's Ridge	345	333000				
26020501 TDOT Relocations	343	331350	200,000	30,000		
26020503, Citico WTP Pretreatment Phase 1	331	304300				
Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

				Dec-08		Jan-09		
	Budget	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service	Retire
	26020701 Pressure Reduction	343		331210	100,000			
	26020702 Missionary Ridge Storage Tank							
		340.1		303500				
		342		330100				
	26029804 Replace Lkt. Mtn Supply Line							
		340.12		303502				
		343		331350				
	Ringold Road at I-75							
		340.12		303502				
		343		331350	1,250,000	20,000		
	Undistributed items							
	Total				1,989,842	77,000	326,398	10,363

Normal Construction

Tennessee American Water Company Response to Data Request 52
Additions and Retirement Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Feb-09		Mar-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020084 Hydrants valves and Manholes-New	348	335000	3,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000			6,000	1,500
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	43,995		72,490	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	7,500	8,000	12,000	2,075
26020088 - I						
26020088 Meters New Install	346	334130			7,000	
	391.21	340220				
26020088 Meters/MeterSettings New Install	347	334200	9,000		9,000	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130				
26020087-Meters/Meter Setting Replacmt	347	334200	104,000	4,500		
26020087-Meters/Meter Setting Replacmt	391.21	340220	150,000	2,500		
	391.2	340230			7,600	
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220				
SCADA - L						
SCADA Equipment and Systems	331	304300			2,500	
Security- M						
Security Equipment and Systems	331	304300			22,000	3,000
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100				
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	-		-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

		NARUC Acct No.	JDE Acct No.	Feb-09		Mar-09	
				Budgeted In Service	Retire	Budgeted In Service	Retire
Budget	26020091 Vehicles-Hvy Trucks	392.12	341200				
	26020091 Vehicles-Auto	392.2	341300				
	26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200				
	26020092 - P						
	26020092 Tools and Equipment	394	343000			22,000	1,200
	26020092 Tools and Equipment	391.21	340220				
	26020093, 26020094, 26020095 - Q						
	26020093 Treatment Plant-Lab Equip Replacement		331210				
	26020093 Treatment Plant-Lab Equip Replacement	395	344000				
	26020094 Treatment Plant Equipment Additions	391.25	340300				
	26020093 Treatment Plant-Equip Replacement	321	304200				
	26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
	26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100	40,000	2,000	108,000	25,000
	26020093 Treatment Plant-Equip Replacement Pumping	325	311200				
	26020093 Treatment Plant-Equip Replacement	342	330000				
	26020093 Treatment Plant-Equip Replacement	398	347000	3,000			
	26020096 - R						
	26020096 Capitalized Tank Rehabilitation/Painting	342	330000				
	26020097 - S						
	26020097 Engineering Studies	343	331001				
			339600				
	26040206						
	Lone Oak Water Main	343	331350				
	Special Projects						
	26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
	26020601 Hill City Booster Discharge Improvements	343	331400				
		345	333000				
	26060302 Walden's Ridge	345	333000				
	26020501 TDOT Relocations	343	331350				
	26020503, Citico WTP Pretreatment Phase 1	331	304300				
	Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Feb-09		Mar-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020701 Pressure Reduction	343	331210				
26020702 Missionary Ridge Storage Tank	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line	340.12	303502				
	343	331350				
Ringold Road at I-75	340.12	303502				
	343	331350				
Undistributed items						
Total			558,024	23,123	539,294	46,772

Normal Construction

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Apr-09		May-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000	7,000		37,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000	15,000	2,500	16,000	1,500
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	35,306		71,850	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	12,000	1,600	12,000	
26020088 - I						
26020088 Meters New Install	346	334130	12,000		46,000	
	391.21	340220				
26020088 Meters/MeterSettings New Install	347	334200	15,000		50,000	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	6,500	1,100	151,100	8,900
26020087-Meters/Meter Setting Replacmt	347	334200			100,000	1,000
26020087-Meters/Meter Setting Replacmt	391.21	340220				
26020087-Meters/Meter Setting Replacmt	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220				
SCADA - L						
SCADA Equipment and Systems	331	304300				
Security- M						
Security Equipment and Systems	331	304300				
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100	30,000	6,000		
26020091 - O						
26020091 Vehicles-Lt Trucks	392.11	341100	179,000	17,900	48,000	4,800

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Apr-09		May-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020091 Vehicles-Hvy Trucks	392.12	341200	53,000	5,300	32,000	3,200
26020091 Vehicles-Auto	392.2	341300	21,000	2,100		
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200				
26020092 - P						
26020092 Tools and Equipment	394	343000	2,500		22,000	
26020092 Tools and Equipment	391.21	340220			5,600	
26020093, 26020094, 26020095 - Q						
26020093 Treatment Plant-Lab Equip Replacement		331210				
26020093 Treatment Plant-Lab Equip Replacement	395	344000				
26020094 Treatment Plant Equipment Additions	391.25	340300				
26020093 Treatment Plant-Equip Replacement	321	304200				
26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100				
26020093 Treatment Plant-Equip Replacement Pumping	325	311200	70,000	5,000		
26020093 Treatment Plant-Equip Replacement	342	330000				
26020093 Treatment Plant-Equip Replacement	398	347000			8,000	
26020096 - R						
26020096 Capitalized Tank Rehabilitation/Painting	342	330000		5,000	50,000	
26020097 - S						
26020097 Engineering Studies	343	331001				
		339600				
26040206						
Lone Oak Water Main	343	331350				
Special Projects						
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
26020601 Hill City Booster Discharge Improvements	343	331400				
	345	333000				
26060302 Walden's Ridge	345	333000				
26020501 TDOT Relocations	343	331350				
26020503, Citico WTP Pretreatment Phase 1	331	304300				
Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Apr-09		May-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020701 Pressure Reduction	343	331210	25,000			
26020702 Missionary Ridge Storage Tank						
	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line						
	340.12	303502				
	343	331350				
Ringold Road at I-75						
	340.12	303502				
	343	331350				
Undistributed items						
Total			697,796	56,610	841,139	38,855

Normal Construction

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Jun-09		Jul-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020084 Hydrants valves and Manholes-New	348	335000	17,000		7,000	
26020083 - F						
26020083 Hydrants valves and Manholes-Replaced	348	335000	15,000	2,500	7,100	400
26020086 - G						
26020086 Services and Laterals-Replacement	346.1	334110				
26020086 Services and Laterals-Replacement	345	333000	58,224		43,977	
26020086 Services and Laterals-Replacement	347	334200				
26020085 - H						
26020085 Services and Laterals -Replacement	347	334200				
26020085 Services and Laterals -Replacement	348	335000				
26020085 Services and Laterals -Replacement	345	333000	12,000	1,244	12,000	1,244
26020088 - I						
26020088 Meters New Install	346	334130	45,000		44,000	
	391.21	340220				
26020088 Meters/MeterSettings New Install	347	334200	50,000		50,000	
26020087 - J						
26020087-Meters/Meter Setting Replacmt	346	334130	6,500	1,100		
26020087-Meters/Meter Setting Replacmt	347	334200			6,500	1,100
26020087-Meters/Meter Setting Replacmt	391.21	340220				
	391.2	340230				
26020087-Meters/Meter Setting Replacmt	391.25	340300				
26020087-Meters/Meter Setting Replacmt	348	335000				
26020089 - K						
26020089 IT Equipment and Systems	391.2	340230				
26020089 IT Equipment and Systems	391.3	340500				
26020089 IT Equipment and Systems	391.3	340320				
26020089 IT Equipment and Systems	347	340200				
26020089 IT Equipment and Systems	391.21	340220	14,800	1,200		
SCADA - L						
SCADA Equipment and Systems	331	304300	25,000			
Security- M						
Security Equipment and Systems	331	304300	25,000			
26020090 - N						
		347000				
		346200				
		346100				
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100			25,500	2,500
26020091 - O						
26020091 Vehicles-Lit Trucks	392.11	341100			68,000	6,800

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Jun-09		Jul-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
Budget						
26020091 Vehicles-Hvy Trucks	392.12	341200			25,000	2,500
26020091 Vehicles-Auto	392.2	341300	6,000	600	11,000	1,100
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200	6,000	600		
26020092 - P						
26020092 Tools and Equipment	394	343000	35,000	2,500	37,000	1,500
26020092 Tools and Equipment	391.21	340220				
26020093, 26020094, 26020095 - Q						
26020093 Treatment Plant-Lab Equip Replacement		331210				
26020093 Treatment Plant-Lab Equip Replacement	395	344000				1,500
26020094 Treatment Plant Equipment Additions	391.25	340300	8,000			
26020093 Treatment Plant-Equip Replacement	321	304200				
26020093 Treatment Plant-Equip Replacement-Structures	331	304300				
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100			107,000	
26020093 Treatment Plant-Equip Replacement Pumping	325	311200				
26020093 Treatment Plant-Equip Replacement	342	330000			50,000	
26020093 Treatment Plant-Equip Replacement	398	347000				
26020096 - R						
26020096 Capitalized Tank Rehabilitation/Painting	342	330000	100,000		155,000	20,000
26020097 - S						
26020097 Engineering Studies	343	331001				
		339600				
26040206						
Lone Oak Water Main	343	331350				
Special Projects						
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210				
26020601 Hill City Booster Discharge Improvements	343	331400				
	345	333000				
26060302 Walden's Ridge	345	333000				
26020501 TDOT Relocations	343	331350				
26020503, Citico WTP Pretreatment Phase 1	331	304300				
Citico WTP Filtration Phase 2	331	304300				

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Jun-09		Jul-09	
			Budgeted In Service	Retire	Budgeted In Service	Retire
26020701 Pressure Reduction	343	331210	25,000			
26020702 Missionary Ridge Storage Tank	340.1	303500				
	342	330100				
26029804 Replace Lkt. Mtn Supply Line	340.12	303502				
	343	331350				
Ringold Road at I-75	340.12	303502				
	343	331350				
Undistributed items						
Total			978,914	14,354	1,114,812	42,909

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.		JDE Acct No.		Aug-09	
					Budgeted In Service	Retire
Normal Construction						
26020080- DV						
26020080 Mains Installed -Developer Contrib-Mains 4" & Less	343	331100				-
26020080 Mains Installed -Developer Contrib-Mains 6-10" TN	343	331210		222,045		2,196,517
26020080 Mains Installed -Developer Contrib-Serv Laterals	345	333000		65,316		651,655
26020080 Mains Installed -Developer Contrib-Fire Hydts	348	335000		12,639		308,620
26020082 - A						
26020082 Network Mains New 6-10" TN	343	331210		50,000		310,000
26020081- B						
26020081 Network Replace/Renew Co Expense-Supply Mains	316	309000				-
26020081 Network Replace/Renew Co Expense-T & D Storage Struct	341	304500				
26020081 Network Replace/Renew Co Expense-Electric Pump Eq	321	304200				
26020081 Network Replace/Renew Co Expense-Water Treat. Eq	332	320100				
26020081 Network Replace/Renew Co Expense-T & D Storage Equip	342	330100				
26020081 Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394	343000				
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341200				
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341100				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340320				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340230				
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340220				
26020081 Network Replace/Renew Co Expense-Reclass	346	334100				
26020081 Network Replace/Renew Co Expense-Reclass	391.3	340600				
26020081 Network Replace/Renew Co Expense-Reclass	340.1	303501				
26020081 Network Replace/Renew Co Expense-Misc. Equip	398	347000				
26020081 Mains Installed -Developer Contrib-Unclassified	343	331001				
26020081 Network Replace/Renew Co Expense-Mains 4" & less	343	331100		145,500	1,000	44,591
26020081 Network Replace/Renew Co Expense-Mains 6-10" TN	343	331210				1,803,885
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331300				
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331350				707,060
26020081 Network Replace/Renew Co Expense-Fire Hydrants	348	335000		2,500	1,000	112,638
C						
						-
		3331350				
26020081 Network Mains-Unscheduled-6-10"TN	343	331210		50,000		160,000
D						
26020081 Network -Mains Relocated 4" & less	343	331100				-
26020081 Network -Mains Relocated 6-10" TN	343	331210		17,735	2,265	216,967
26020081 Network Mains Relocated -12" & Grtr TN	343	331350		300,000	30,000	418,650
26020084 - E						
						-

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Aug-09		Retire	Budgeted In Service	Budgeted In Service
26020084 Hydrants valves and Manholes-New	348	335000				7,000	192,000
26020083 - F							-
26020083 Hydrants valves and Manholes-Replaced	348	335000			800	6,700	121,454
26020086 - G							-
26020086 Services and Laterals-Replacement	346.1	334110					
26020086 Services and Laterals-Replacement	345	333000				57,605	1,132,418
26020086 Services and Laterals-Replacement	347	334200					
26020085 - H							-
26020085 Services and Laterals -Replacement	347	334200					
26020085 Services and Laterals -Replacement	348	335000					
26020085 Services and Laterals -Replacement	345	333000			1,000	12,000	260,503
26020088 - I							-
26020088 Meters New Install	346	334130				25,000	456,800
	391.21	340220					
26020088 Meters/MeterSettings New Install	347	334200				20,000	588,570
26020087 - J							-
26020087-Meters/Meter Setting Replacmt	346	334130				91,000	830,100
26020087-Meters/Meter Setting Replacmt	347	334200				120,000	914,500
26020087-Meters/Meter Setting Replacmt	391.21	340220				10,000	36,496
	391.2	340230					
26020087-Meters/Meter Setting Replacmt	391.25	340300				13,000	26,000
26020087-Meters/Meter Setting Replacmt	348	335000					
26020089 - K							-
26020089 IT Equipment and Systems	391.2	340230					
26020089 IT Equipment and Systems	391.3	340500					
26020089 IT Equipment and Systems	391.3	340320					
26020089 IT Equipment and Systems	347	340200					
26020089 IT Equipment and Systems	391.21	340220			1,650	26,350	113,300
SCADA - L							-
SCADA Equipment and Systems	331	304300				25,000	127,000
Security- M							-
Security Equipment and Systems	331	304300					119,000
26020090 - N							-
		347000					
		346200					
		346100					
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100				20,000	155,500
26020091 - O							-
26020091 Vehicles-Lt Trucks	392.11	341100			6,400	64,000	665,000

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

						Aug-09		
	Budget	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service	
	26020091 Vehicles-Hvy Trucks	392.12		341200	32,000	3,200		284,000
	26020091 Vehicles-Auto	392.2		341300				76,000
	26020091 Vehicles-Self Power Equip/Backhoes	397.2		346200				12,000
	26020092 - P							-
	26020092 Tools and Equipment	394		343000	24,000	2,000		263,900
	26020092 Tools and Equipment	391.21		340220				23,200
	26020093, 26020094, 26020095 - Q							-
	26020093 Treatment Plant-Lab Equip Replacement			331210				
	26020093 Treatment Plant-Lab Equip Replacement	395		344000				18,000
	26020094 Treatment Plant Equipment Additions	391.25		340300				12,000
	26020093 Treatment Plant-Equip Replacement	321		304200				-
	26020093 Treatment Plant-Equip Replacement-Structures	331		304300				15,000
	26020093 Treatment Plant-Equip Replacement-WT Equip	332		320100	32,000			512,000
	26020093 Treatment Plant-Equip Replacement Pumping	325		311200				105,000
	26020093 Treatment Plant-Equip Replacement	342		330000				87,000
	26020093 Treatment Plant-Equip Replacement	398		347000				19,000
	26020096 - R							-
	26020096 Capitalized Tank Rehabilitation/Painting	342		330000	295,000	20,000		990,000
	26020097 - S							-
	26020097 Engineering Studies	343		331001				30,000
				339600				
	26040206							
	Lone Oak Water Main	343		331350				
	Special Projects							
	26020003, Construct 1 Million Gallon Tank Jenkins Road	343		331210				
	26020601 Hill City Booster Discharge Improvements	343		331400				
		345		333000				
	26050302 Walden's Ridge	345		333000				
	26020501 TDOT Relocations	343		331350	100,000	30,000		300,000
								-
	26020503, Citico WTP Pretreatment Phase 1	331		304300	1,100,000	50,000		1,850,000
								-
	Citico WTP Filtration Phase 2	331		304300				-
								-

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

					Aug-09		
	Budget	NARUC Acct No.	JDE	Acct No.	Budgeted In Service	Retire	Budgeted In Service
26020701 Pressure Reduction		343		331210	25,000		275,000
							-
26020702 Missionary Ridge Storage Tank		340.1		303500			180,000
		342		330100			-
							-
26029804 Replace Lkt. Mtn Supply Line		340.12		303502			10,000
		343		331350	900,000	40,000	900,000
							-
Ringold Road at I-75		340.12		303502			50,000
		343		331350			1,250,000
							832,294
Undistributed items							-
Total					3,871,390	216,315	20,763,617

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	Totals				
	NARUC Acct No.	JDE	Acct No.	Retire	8/2009 CWIP
Normal Construction					
26020080- DV					
26020080 Mains Installed -Developer Contrib-Mains 4" & Less	343	331100		5,320	5,000
26020080 Mains Installed -Developer Contrib-Mains 6-10" TN	343	331210		(16)	250,000
26020080 Mains Installed -Developer Contrib-Serv Laterals	345	333000		-	50,000
26020080 Mains Installed -Developer Contrib-Fire Hydts	348	335000		4,000	15,000
26020082 - A					
26020082 Network Mains New 6-10" TN	343	331210		-	5,000
26020081- B					
26020081 Network Replace/Renew Co Expense-Supply Mains	316	309000		-	
26020081 Network Replace/Renew Co Expense-T & D Storage Struct	341	304500			
26020081 Network Replace/Renew Co Expense-Electric Pump Eq	321	304200			
26020081 Network Replace/Renew Co Expense-Water Treat. Eq	332	320100			
26020081 Network Replace/Renew Co Expense-T & D Storage Equip	342	330100			
26020081 Network Replace/Renew Co Expense-Tools, Shop/Stores Equip	394	343000			
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341200			
26020081 Network Replace/Renew Co Expense-Reclass	392.1	341100			
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340320			
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340230			
26020081 Network Replace/Renew Co Expense-Reclass	391.2	340220			
26020081 Network Replace/Renew Co Expense-Reclass	346	334100			
26020081 Network Replace/Renew Co Expense-Reclass	391.3	340600			
26020081 Network Replace/Renew Co Expense-Reclass	340.1	303501			
26020081 Network Replace/Renew Co Expense-Misc. Equip	398	347000			
26020081 Mains Installed -Developer Contrib-Unclassified	343	331001			
26020081 Network Replace/Renew Co Expense-Mains 4" & less	343	331100		89,617	
26020081 Network Replace/Renew Co Expense-Mains 6-10" TN	343	331210		59,724	250,000
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331300			
26020081 Network Replace/Renew Co Expense-12" & Grtr TN	343	331350		-	
26020081 Network Replace/Renew Co Expense-Fire Hydrants	348	335000		8,434	
C					
				-	
		3331350			
26020081 Network Mains-Unscheduled-6-10"TN	343	331210		(297)	20,000
D					
26020081 Network -Mains Relocated 4" & less	343	331100		-	
26020081 Network -Mains Relocated 6-10" TN	343	331210		26,318	20,000
26020081 Network Mains Relocated -12" & Grtr TN	343	331350		31,955	80,000
26020084 - E					
				-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

Budget	NARUC Acct No.	JDE Acct No.	Totals	
			Retire	8/2009 CWIP
26020084 Hydrants valves and Manholes-New	348	335000	-	25,000
26020083 - F				
26020083 Hydrants valves and Manholes-Replaced	348	335000	21,046	2,000
26020086 - G				
26020086 Services and Laterals-Replacement	346.1	334110	-	
26020086 Services and Laterals-Replacement	345	333000	-	5,000
26020086 Services and Laterals-Replacement	347	334200		
26020085 - H				
26020085 Services and Laterals -Replacement	347	334200		
26020085 Services and Laterals -Replacement	348	335000		
26020085 Services and Laterals -Replacement	345	333000	33,741	3,000
26020088 - I				
26020088 Meters New Install	346	334130	-	1,000
	391.21	340220		
26020088 Meters/MeterSettings New Install	347	334200	-	1,000
26020087 - J				
26020087-Meters/Meter Setting Replacmt	346	334130	74,000	15,000
26020087-Meters/Meter Setting Replacmt	347	334200	54,200	15,000
26020087-Meters/Meter Setting Replacmt	391.21	340220	-	
	391.2	340230		
26020087-Meters/Meter Setting Replacmt	391.25	340300	-	
26020087-Meters/Meter Setting Replacmt	348	335000		
26020089 - K				
26020089 IT Equipment and Systems	391.2	340230		
26020089 IT Equipment and Systems	391.3	340500		
26020089 IT Equipment and Systems	391.3	340320		
26020089 IT Equipment and Systems	347	340200		
26020089 IT Equipment and Systems	391.21	340220	(288,935)	
SCADA - L				
SCADA Equipment and Systems	331	304300	-	5,000
Security- M				
Security Equipment and Systems	331	304300	6,000	
26020090 - N				
		347000		
		346200		
		346100		
26020090 Offices and Operations Centers- Off. Furn & Equip	391.2	340100	(84,696)	1,500
26020091 - O				
26020091 Vehicles-Lt Trucks	392.11	341100	19,261	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Totals	
			Retire	8/2009 CWIP
Budget				
26020091 Vehicles-Hvy Trucks	392.12	341200	28,400	
26020091 Vehicles-Auto	392.2	341300	7,600	
26020091 Vehicles-Self Power Equip/Backhoes	397.2	346200	1,200	
26020092 - P				
26020092 Tools and Equipment	394	343000	14,400	
26020092 Tools and Equipment	391.21	340220	2,000	
26020093, 26020094, 26020095 - Q				
26020093 Treatment Plant-Lab Equip Replacement		331210		
26020093 Treatment Plant-Lab Equip Replacement	395	344000	(1,884)	
26020094 Treatment Plant Equipment Additions	391.25	340300	4,033	
26020093 Treatment Plant-Equip Replacement	321	304200	(136)	
26020093 Treatment Plant-Equip Replacement-Structures	331	304300	500	
26020093 Treatment Plant-Equip Replacement-WT Equip	332	320100	64,000	5,000
26020093 Treatment Plant-Equip Replacement Pumping	325	311200	10,000	2,000
26020093 Treatment Plant-Equip Replacement	342	330000	-	
26020093 Treatment Plant-Equip Replacement	398	347000	-	
26020096 - R				
26020096 Capitalized Tank Rehabilitation/Painting	342	330000	96,746	
26020097 - S				
26020097 Engineering Studies	343	331001	-	10,000
		339600		
26040206				
Lone Oak Water Main	343	331350		
Special Projects				
26020003, Construct 1 Million Gallon Tank Jenkins Road	343	331210		
26020601 Hill City Booster Discharge Improvements	343	331400		
	345	333000		
26060302 Walden's Ridge	345	333000		
26020501 TDOT Relocations	343	331350	60,000	50,000
			-	
26020503, Citico WTP Pretreatment Phase 1	331	304300	100,000	7,837.500
			-	
Citico WTP Filtration Phase 2	331	304300	-	300,000
			-	

Tennessee American Water Company Response to Data Request 52
Additions and Retirements Budgeted thru the Attrition Period

	NARUC Acct No.	JDE Acct No.	Totals	
			Retire	8/2009 CWIP
26020701 Pressure Reduction	343	331210	10,000	10,000
26020702 Missionary Ridge Storage Tank			-	
	340.1	303500	-	
	342	330100	-	100,000
26029804 Replace Lkt. Mtn Supply Line			-	
	340.12	303502	-	
	343	331350	40,000	
Ringold Road at I-75			-	
	340.12	303502	-	
	343	331350	20,000	
Undistributed items			-	
			-	
Total			532,596	9,083,000

TENNESSEE AMERICAN WATER COMPANY
Docket No. 08-00039
Tennessee Regulatory Authority Staff Data Request No. 1
SUPPLEMENTAL RESPONSE

Responsible Witness: John Watson

RATE BASE (EXCLUDING WORKING CAPITAL)

Question:

53. Identify all special projects from the end of the test period through the attrition period, using the criteria defined in the first rate base question above, by work order number and include the estimated cost. Provide a signed authorization for each special project and identify the planned starting and completion dates.

Response:

Due the extensive amount of information required to complete this response the Company is requesting an additional two weeks to complete the response. If the information is completed prior the two week extension, the Company will provide the response earlier. Please see the response to question 51 –a.

Supplemental Response:

Please see the attached documents. While the Company does not necessarily consider these “special projects” as defined by the AG, in TAWC’s accounting system, they are projects that due to their nature, size, scope and cost are identified as individual Funding Projects (FP’s) that require specific project approval by the Capital Investment Management Committee (CIMC) and/or the Board of Directors. You may also refer to the files on the enclosed CD titled TN-TRA-01-Q053-SUPPLEMENTAL-ATTACHMENTS 1 through 8.

Tennessee American Water
Question # 53 Rate Base (Excluding Working Capital)
Period: December 1, 2007 through August 31, 2009

Investment Project Number	Task Number	Description	Estimated Cost	Starting Date	Completion Date	Comments
26020501	<u>TDOT Relocations - Chattanooga</u>					
26020501	5011364	Eng Cost Lookout Creek TDOT Relocation	\$ 66,022	8/11/2006	2/28/2008	Tennessee Department of Transportation
26020501	50116904	Eng Cost Shallowford Road TDOT Bridge Relocation	\$ 60,000	10/26/2006	12/31/2007	Tennessee Department of Transportation
		Total	\$ 126,022			
26020601		Hill City Booster Discharge Improvements				
26020701		Install Six (6) Pressure Reducing Valves (PRVs)				
26020701	unassigned	Install Six (6) Pressure Reducing Valves -Var Loc	\$250,000	9/1/2007	8/31/2009	Tenn Dept of Environment and Conservation
		Total	\$250,000			
26029804		Replace Lookout Mountain Supply Lines				
	26005057	Replace Lookout Mountain Supply Lines Design	\$ 146,796	12/31/1998	6/30/2007	Tenn Dept of Environment and Conservation
IP-2602-4		East Ridge Pressure Zone Improvements				
	423535	6933' of 20-inch DICL Main in Ringgold Rd at I-75	\$2,284,346	1/1/2008	12/31/2008	Major Expansion
26029804		423521 Replace Lookout Mountain Supply Mains(BP98-12)	\$950,000	1/1/2008	8/31/2009	Tenn Dept of Environment and Conservation
	50049973					
26020702	Unassigned	Missionary Ridge Storage Tank and Mains	\$280,000	5/1/2008	12/31/2010	Tenn Dept of Environment and Conservation
26020503		Citico Water Treatment Plant Improvements Project-Phase I				
IP-2602-03	50121016	Citico WTP Pre-Treatment Improvements Study-Engineering Costs	\$147,597	11/30/2006	12/31/2010	Regulatory (SDWA)
IP-2602-03	50121134	Citico Water Treatment Plant Design Costs	\$655,778	11/30/2006	12/31/2010	Regulatory (SDWA)
IP-2602-03	Unassigned	Citico Water Treatment Plant Construction Costs	\$7,996,625	8/1/2008	12/31/2010	Regulatory (SDWA)
		Totals	\$8,800,000			



CAPITAL INVESTMENT MANAGEMENT PROJECT APPROVAL

Approved Stage:
In Progress PNI
Stage:
In Progress Saved as draft
Status:

Date:
Date: 03/07/2006

REGION: Southeast
COMPANY: Tennessee American Water
JDE BUSINESS UNIT: Chattanooga

PROJECT TITLE: Pretreatment Facility Improvements
BUSINESS UNIT NO: Pending

1. Accountability

PNI Document Prepared By Richard C Svindland
Project Manager Richard C Svindland
Asset Owner or Project Sponsor Mark Zinnanti

2. Prior Documentation

PNI 2000 CPS for TAW and attached WTP Evaluation dated Dec. 2002 prepared by AWWSC.



TAW WTP Improvements.pdf

3. Need for the Project

PNI The 2000 CPS and 2002 report titled "Evaluation of Alternatives" lays out the plan for needed improvements to the pretreatment facilities. The needed improvements has been put off for several years. State regulators have not written up the plan for inoperable equipment due to good relations with plant staff. However, the time has come to repair the pretreatment facilities and the regulators are expecting the improvements to be made at the time that any plant work is commenced. The main reasons for the needed improvements are: structural integrity of the existing basin beams and troughs, inoperable flocculation equipment and pretreatment process improvements to reduce DBP precursors.

4. Recommended Solution

PNI The final solution will be based on recommendations that will come out of the planned WTP Study, Evaluation which is scheduled to occur in 2005 and 2006. It is envisioned at this time, at a minimum, that all structural items and equipment items will be corrected. Final configuration and utilization of the sedimentation basin and flocculation basin will be based on the previous referenced WTP Study, Evaluation.

Does this project require the acquisition of land and/or buildings via either purchase or lease? No

Does this project require the acquisition of easements or right-of-ways? No

Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

5. Outputs and Benefits

PNI There are multiple benefits for this project. Repair of the flocculation equipment and the effluent launders will improve the sedimentation process. The repair of deteriorated concrete will prevent possible basin failure. The

project also statisfies the State Regulators who have consistently reported in the Sanitary Surveys that the flocculation equipment is not working.

6. Options

PNI The existing Evaluation report looked at Actiflo, submersible membranes and other possible improvements. Prior to the implementation of this project all options will be review and studied as part of the planned 2005 WTP Study.

7. Schedule

<i>PNI</i>	ACTIVITY	DATE
	Project Start	March 1, 2006
	Project Implementation Proposal Submission	September 1, 2007
	Substantial Project Completion (in-service)	September 1, 2009
	Final Project Completion	November 1, 2009
	Post Project Review	December 31, 2009



8. Project Cost and Cash Flow

		U.S. Dollars							
<i>PNI</i>	COMPONENT	TOTAL	PRIOR YRS	2006	2007	2008	2009	2010	2011
	Preliminary Cost (PNI)	\$750,000		\$200,000	\$550,000				
	Implementation Cost (PIP)	\$5,550,000			\$0	\$4,500,000	\$1,050,000		
	Total Project Cost	\$6,300,000	\$0	\$200,000	\$550,000	\$4,500,000	\$1,050,000	\$0	\$0
	Current SCEP Approved Cost	\$6,300,000		\$200,000	\$550,000	\$4,500,000	\$1,050,000		
	Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Advances or Contributions	\$0							
	Total Company Funded	\$6,300,000	\$0	\$200,000	\$550,000	\$4,500,000	\$1,050,000	\$0	\$0
	Cost of Removals	\$0							



Investment Project Analysis -TAW - Pretreatment - Rev 11-18-05.XLS

9. Budget Discussion

PNI The projects costs are based on an engineer's estimate and will be further refined during the WTP Evaluation Study. At this point they are estimated to be +/- 20%..

10. Rate Impact

PNI 2.5%

11. Risks

PNI The risks if this project is not done are: 1) Regulatory violation for inoperable flocculation equipment, 2) possible failure of structural items within the basins and 3) possible violation of DBP rules if treatment changes cannot be made.

12. Project Delivery Method

PNI Conventional Design-Bid-Build

13. Resource Needs

PNI Consultant will be used to design improvements.

14. Deliverables

PNI Permitted plans and specifications as well as bids in hand.

15. Drivers

<i>PNI</i>	ASSET TYPE	PURPOSE	CODE	%
------------	------------	---------	------	---

Drinking Water - Treatment

Water - Other Regulations (Not Cited or
Future Requirement)

WTRCOR02 100

TOTAL 100

16. **Priority Ranking**

PNI Project No: 3 Date of Ranking: March 10, 2005
Out of: 33

17. **Project Manager Routing**

Stage of Project: PNI
Status of Project: Saved as draft
Approval Requested at Meetings of:

FOR ADMINISTRATIVE USE ONLY

A. **Pre-CIMC Review**

PNI Reviewed By:

Comments:
Action:

B. **CIMC Review and Approval**

PNI Reviewed By:
Approved By: Title Primary Approver or Delegated Authority

Comments:
Action:

C. **CIRC Review and Approval**

PNI Reviewed By:
Approved By: Title Primary Approver or Delegated Authority

Comments:
Action:

D. **Modification History**

03/18/2005 Richard C Svindland PNI (Saved as draft)
03/21/2005 Michael Weinstein PNI (Saved as draft)
05/03/2005 Richard C Svindland PNI (Saved as draft)
05/04/2005 Lisa M Bohenick PNI (Saved as draft)
06/21/2005 Richard C Svindland PNI (Saved as draft)
07/08/2005 David M Reves PNI (Saved as draft)
11/20/2005 Richard C Svindland PNI (Saved as draft)
11/28/2005 Donna L DeMarco PNI (Saved as Future Year Draft)
12/12/2005 Richard C Svindland PNI (Saved as Future Year Draft)
12/14/2005 Lisa M Bohenick PNI (Saved as Future Year Draft)
02/23/2006 Donna L DeMarco PNI (Submitted for technical review: Awaiting technical review)
03/07/2006 Bruce E Juergens PNI (Saved as draft)

E. Deletion Request



**TENNESSEE-AMERICAN WATER COMPANY
WATER TREATMENT PLANT IMPROVEMENTS
INVESTMENT PROJECT 01-04**

**EVALUATION OF ALTERNATIVES
December 2002**

**Prepared by:
American Water Works Service Company, Inc.
System Engineering
1025 Laurel Oak Road
Voorhees, NJ 08043**

**TENNESSEE-AMERICAN WATER COMPANY
WATER TREATMENT PLANT IMPROVEMENTS
INVESTMENT PROJECT 01-04**

EVALUATION OF ALTERNATIVES

I. Introduction

Tennessee-American Water Company owns and operates a surface water treatment plant (WTP) in Chattanooga that is comprised of two parallel water treatment processes. The older Plant #1 consists of three sedimentation basins and twenty filters with a combined nominal capacity of 40 mgd. Plant #2 consists of eight Aldrich clarifier/filter units with a combined nominal capacity of 25 mgd, although the flow to/from Plant #2 is currently limited to about 22 mgd. The two plants rely on common raw water and distributive pump stations and chemical storage/feed facilities, but deliver filtered water to two separate clearwells. Company operations achieve a high level of customer satisfaction with the drinking water quality and compliance with the current USEPA drinking water regulations and TDEC standards.

II. Issues of Concern

The 2000 Comprehensive Planning Study (CPS) identified an assortment of reliability, capacity and performance issues with the WTP. The primary issues of concern to the Company are:

- A. Hydraulic restrictions in Plant #2 result in a combined WTP capacity of 62 mgd, which is not adequate for near-term projected maximum day demands.
- B. Maximum day demands are projected to exceed the reliable filtration capacity of 62 mgd in the near-term and the combined filtration capacity of 65 mgd in the long-term. Furthermore, the potential to serve additional large customers is hindered by the lack of reserve capacity.
- C. A single 60-inch diameter pipeline supplies raw water to both plants, and a break of that pipeline would interrupt the entire WTP operation.
- D. The Plant #1 sedimentation basins include worn out, obsolete and irreparable flocculation equipment, deteriorated and imbalanced effluent launders, and deteriorated concrete walls and slabs.
- E. The existing backwash and sludge handling facilities are flood prone, lack redundancy, and return poorly treated wastewater to the head of the WTP during sedimentation basin clean-outs.
- F. The drinking water regulations are expected to impose more stringent compliance criteria under Stage 2 of the Disinfectants and Disinfection Byproducts (D/DBP) Rule and depending on raw water concentrations of *Cryptosporidium parvum*, may require additional disinfection credit under the Long Term 2 (LT2) Enhanced

Surface Water Treatment Rule (note that LT2 requirements were less defined at the time of the CPS).

- G. An electrical service interruption would curtail water service for the Company's higher elevation customers after just a few hours.
- H. The volume of raw water piping and the upper portion of the Plant #1 sedimentation basins could flood the pumping pit upon failure of the inside piping or a pump check valve.

III. CPS Recommendations and Alternatives

The 2000 CPS recommended a sequence of projects (A-2, B-5, B-8, B-12, B-15 and B-19) to address the WTP reliability, capacity and performance issues. This Evaluation of Alternatives is intended to explore the feasibility of alternatives to those recommended projects to achieve the same intent at a potentially lower cost. The following summary of the CPS recommendations and the potential for lower cost alternatives corresponds alphabetically with the Issues of Concern.

- A. A detailed analysis (and perhaps field testing) is necessary to identify the cause of the Plant #2 hydraulic restriction. If the existing filter effluent piping is causing excessive headloss, strategic replacements or some additional piping to Clearwell #2 should alleviate the restriction. However, the static head from the Aldrich clarifier/filter units to the clearwell is only 10.5 feet. A need to reduce the water surface elevation in Clearwell #2, to increase the head available, could affect the disinfection capacity of Plant #2.
- B. The CPS recommended reactivating filter house #3 (FH#3) to gain 9 mgd of filtration capacity. Reactivating one row of three filters in FH3 and gutting the other row of filters will provide adequate space in the pipe gallery for replacement piping and valves, motorized valve actuators, rate of flow controllers and on-line instrumentation. High rating the three filters will provide a combined capacity of 9 mgd at a filtration rate of 3.0 gallons per minute per square foot (gpm/sf). Higher filtration rates do not appear practical given the limited depth of the filter boxes. Alternatives to this approach are addressed in the following discussion. It is also possible that the Company will need as much as 20 mgd of additional filtration capacity to serve potential large customers.
- C. Paralleling the 60-inch diameter raw water pipeline is relatively straightforward, and an evaluation of alternatives is not significant for this issue.
- D. The CPS recommended that Basins #1 and #2 receive concrete repairs, replacement flocculation and sludge collection equipment, masonry baffle walls, and modular plate settlers with integral launders. The repairs and equipment installations will provide 20 mgd of capacity in each basin at a surface-loading rate (SLR) over the plate settlers of 2.0 gpm/sf. When necessary in the future, the basins could produce 30 mgd each at an SLR of 3.0 gpm/sf although TDEC may require a demonstration study for the increased SLR and capacity. Alternatives to this approach are addressed in the following discussion. It is also possible that the Company will need as much as 20 mgd of additional pretreatment capacity to serve potential large customers.

- E. The CPS recommended utilization of space within Basin #3 for spent backwash treatment facilities. The recommended facilities consist of flocculators, modular plate settlers with integral launders, and sludge thickening equipment. Two parallel flocculator-settler-thickeners are recommended for reliability and ease of maintenance. Treated wastewater will discharge to a flow measuring flume (or meter) and sampling station to an outfall, or return to the head of the WTP. Pump stations near the abandoned wastewater holding basin at Plant #1 and the existing wastewater holding basin at Plant #2 will deliver spent backwash and purification unit sludge to the flocculator-settler-thickeners. Sludge blowdowns from the sedimentation basins and flocculator-settler-thickeners will discharge to an equalization chamber(s) and then to a flow measuring flume (or meter) and sampling station to the City sewer. Alternatives to this approach are addressed in the following discussion.
- F. The CPS recommended ammoniation of the finished water. It is not certain that ammoniation is necessary to comply with the latest expectations for Stage 2 of the D/DBP Rule, which entails DBP monitoring using a locational running annual average (LRAA) approach instead of the current RAA approach. Potassium permanganate addition to the raw water, instead of pre chlorination, may suffice in complying with the Stage 2 D/DBP Rule. Nevertheless, ammoniation can provide other advantages such as better taste and odor control. Additional data analysis and exploration of this issue is required to identify the most appropriate alternative. The CPS did not recommend a project to address LT2 requirements, which were less defined at the time of the CPS.
- G. The CPS recommended the provision of a standby generator(s) and/or auxiliary drives to minimize service interruptions. An evaluation of alternatives is not significant for this issue.
- H. The CPS recommended installation of motorized butterfly valves on each raw water discharge connection from the pumping pit. With instrumentation and controls, the valves will close upon detection of flooding conditions in the pit. The valve closure speed will minimize flooding of the pit while preventing surges. Sleeves and manually operated gate valves upstream and downstream of each butterfly valve are recommended to facilitate removal of raw water debris from the butterfly disc, seat and pins. Insertion-style duckbill check valves are a potential lower cost alternative to the motorized butterfly valves.

IV. Primary Alternatives

The primary alternatives relate to pretreatment (i.e., flocculation and sedimentation) and filtration capacity, waste (i.e., spent backwash and sludge) handling issues, regulatory compliance and WTP reliability. The approaches that were recommended in the CPS assumed the use of proven technologies while considering site constraints without up-to-date information on the property metes, bounds and topography. A property and topographic survey was undertaken as part of this project, and confirmed that very limited space is available outside of existing structures and the flood plain as outlined in Exhibit 1. Consequently, the evaluation of alternatives herein focuses on technology alternatives, such as high rate clarification and membrane filtration, which utilize spaces within existing structures.

The combined estimated cost of the WTP improvements that were identified in the CPS is about \$27,000,000. Ideally, the alternatives would provide a greater benefit and/or a lower cost. A major consideration is plant capacity because different WTP improvement alternatives will apply depending on whether the Company needs 65, 74 or 85 mgd of WTP capacity. The following discussion describes the primary alternatives, and Exhibits 1 and 2 and other attached documents serve as reference.

A. Pretreatment

Two alternatives to the pretreatment improvements are to: 1) install tube settlers instead of plate settlers and 2) construct multiple chambers, and install ballasted clarification equipment within the space of one sedimentation basin at Plant #1. The first alternative is a straightforward substitution of tube settlers for the originally proposed plate settlers. The theory of operation and performance is very similar while the cost of tube settlers is less than plate settlers. Other equipment such as flocculators would remain the same with either tube or plate settlers. A cost estimate for the tube settler alternative is provided in attached Exhibit 2.

Ballasted clarification is a proprietary technology that is marketed as the Actiflo process. It utilizes fine sand as a weighting agent to accelerate the settling of floc. This accommodates a very high surface-loading rate (SLR) in the settling vessel. The sand is continuously collected, cleaned and recycled through the process, although some replenishment is required to replace sand lost by attrition. The process requires flocculation and maturation vessels upstream of the settling vessels, sand recirculation pumps, cyclone separators and polymer feed systems. Assuming an SLR of 30 gpm/sf and construction within the space of one basin at Plant #1, cost estimates for various capacities of Actiflo are provided in attached Exhibit 2.

The tube settler cost is attractive in comparison with the \$8,000,000 plate settler approach in CPS project A-5 while the Actiflo alternative would cost more, especially at higher capacities. Furthermore, Actiflo would entail greater O&M costs due to the intensity of mechanical equipment such as the sand recirculation system. Consequently, tube settlers are recommended as a substitute for plate settlers while Actiflo is not recommended due to its greater cost.

Even if the Company does not need to increase the WTP capacity, sedimentation basin improvements are recommended as identified in the CPS and Exhibit 2. A structural inspection was undertaken as part of this project, and concerns with the existing basins are addressed in the attached 1/18/02 memorandum. Structural renovation costs are included in the cost estimates for two approaches: 1) complete basin improvements including structural repairs, inlet flow splitting devices, and replacement flocculators, effluent launders and sludge collection equipment for all three basins and 2) minimum basin improvements including structural repairs for all three basins and replacement flocculators and effluent launders for Basins 1 and 2 only.

B. Filtration

The approach that was recommended in CPS project B-8 is cost effective if the Company needs only 9 mgd of additional filtration capacity. A lower estimated cost is provided in Exhibit 2 based on the actual condition of structural elements within FH#3 (i.e., filter boxes, roof, etc.) as described in the attached 1/18/02 memorandum. However, obtaining additional filtration capacity from FH#3 by reactivating both rows of filters is not practical due to the extremely congested pipe gallery that would result.

An alternative approach involving membrane filtration could provide additional capacity within the space of Basin #3. One of the commercially viable membrane filtration technologies utilizes ultrafiltration (UF) membranes in a submerged configuration. Submerging UF membranes within an existing open basin is cost effective compared to pressurized closed vessel systems in a building.

It is not cost effective to install 9 mgd of UF in Basin #3, as that would cost much more than reactivating FH#3. However, installing 20 mgd of UF has advantages if the Company needs a combined WTP capacity of 85 mgd. Basins #1 and #2 would continue to supply settled water to FH#2 for 40 mgd, and Plant #2 would continue to provide 25 mgd. Obtaining 20 mgd of additional capacity by installing UF in Basin #3 is much more cost effective than constructing a separate 20 mgd WTP off-site although it does not eliminate the need for pretreatment and waste handling improvements. For comparison, constructing a separate 20 mgd WTP off-site would cost approximately \$45,000,000 excluding the cost of additional land.

A 60 mgd UF installation would replace Plant #1 and eliminate the need for pretreatment improvements. However, it would cost much more than installing 20 mgd of UF and implementing the pretreatment improvements. It also would entail abandoning FH#2 which underwent recent improvements at significant cost. Consequently, a 60 mgd UF installation is recommended against.

C. Waste Handling

Site constraints will not permit the construction of additional waste handling facilities outside of existing structures and the floodplain (see attached Exhibit 1). It is worthwhile approaching the TVA about the regulatory feasibility of construction in the floodplain. However, even in that case, limited space is available in the vicinity of the intake and Citico Station.

An alternative to CPS project B-5 is to identify and accept a less reliable approach such as continuing to utilize the existing wastewater holding tank #2 and sludge thickening tank. There is very limited flexibility in cleaning and otherwise maintaining those facilities. Furthermore, the existing facilities will continue to return poorly treated wastewater to the head of the WTP during Plant #1 basin clean-outs. The recommended pretreatment improvements will alleviate that concern with more frequent sludge removal from the basins and consequently, a lower flux rate for the sludge thickening tank.

Retaining a contractor on a recurring basis is an alternative for sludge removal from the sedimentation basins, wastewater holding tank #2, and the sludge thickening tank. Instead of transferring sludge from the basins and holding tank #2 to the sludge thickening tank and then pumping it to the sewer, the contractor would remove sludge directly from the basins and tanks to portable presses or centrifuges, and then to dump trucks or roll-off containers for off-site disposal. This alternative is particularly applicable if the regional sewerage authority requires the Company to eliminate the sludge discharge to the sewer or significantly increases the cost of disposal to the sewer. It entails a significant O&M expense but minimal capital investment.

The USEPA Filter Backwash Recycle Rule (FBRR) is less stringent than expectations during the 2000 CPS and provides discretion to primacy agencies such as TDEC. Technically, the Company complies with the FBRR as long as the waste streams are returned to the head of the WTP. Nevertheless, the TDEC may require some degree of improvements particularly when the Company applies to expand the WTP.

D. Other

Ammoniation of the finished water is warranted if a conversion to chloramines as the final disinfectant is necessary to comply with Stage 2 of the D/DBP Rule. A potential side benefit of chloramination is better control of taste and odor at customer taps. A revised (lower than CPS) cost of this alternative is presented in Exhibit 2 based on using aqua ammonia (19%) instead of anhydrous ammonia. The proposed 19% strength minimizes the need for vapor containment.

The Company may have interest in implementing ultraviolet (UV) disinfection technology at the WTP for compliance with the LT2 Rule depending on the raw water concentrations of *Cryptosporidium parvum*. The cost of UV disinfection, presented in attached Exhibit 2, is influenced by the need for separate installations for Plants #1 and #2. It is possible that relocating the point of chlorination downstream of the UV reactors and utilizing potassium permanganate as an alternative oxidant for the raw water will suffice to ensure compliance with Stage 2 of the D/DBP Rule. However, bench-scale testing is necessary to confirm the adequacy of this alternative to chloramination.

The standby power recommendation in the CPS is still valid while the cost of generators has actually declined since 2000. Protecting the pumping pit from flooding conditions is still a valid recommendation although insertion-style duckbill check valves are a potential lower cost alternative to motorized butterfly valves.

Any consideration of expanding the WTP to 85 mgd should address the reliable capacity of the pump station, with the largest raw and distributive pumps out of service, along with the chemical storage and feed facilities and other WTP elements. These details were not addressed herein.

V. Summary and Conclusions

The major considerations are WTP reliability, capacity and regulatory compliance.

A. Reliability

The Plant #1 sedimentation basins have deteriorated both structurally and mechanically. Consequently, sedimentation basin improvements are recommended as identified in the CPS and Exhibit 2 even if the Company does not increase the WTP capacity. The cost ranges from \$2,150,000 to \$4,500,000 depending on the extent of mechanical renovations. Addressing basin reliability in this manner does not preclude future high rating of the sedimentation basins via the installation of tube settlers.

The standby power recommendation in the 2000 CPS is still valid, but a revised cost estimate is under \$1,000,000. The raw water piping and Citico Station flood-proofing recommendations in the CPS also are still valid.

B. Capacity

The Company needs to address the hydraulic restriction in Plant #2 to achieve a combined WTP capacity of 65 mgd. A detailed analysis (and perhaps field testing) is necessary to identify the cause and remedy of the Plant #2 hydraulic restriction.

If a combined WTP capacity increase to 74 mgd is necessary, the recommended WTP improvements are high rating of Basins #1 and #2 via the installation of tube settlers at a cost of \$5,800,000 and the renovation of FH#3 at a cost of \$4,500,000. The installation of Actiflo equipment is not recommended due to its greater cost.

If a combined WTP capacity increase to 85 mgd is necessary, installing 20 mgd of UF in Basin #3 at a cost of \$16,100,000 has advantages. Basins #1 and #2 would continue to supply settled water to FH#2 for 40 mgd, and Plant #2 would continue to provide 25 mgd. Obtaining 20 mgd of additional capacity by installing UF in Basin #3 and implementing the Plant #1 pretreatment improvements would cost from \$18,250,000 to \$20,600,000, which is much less costly than constructing a separate 20 mgd WTP off-site. A separate 20 mgd WTP would cost approximately \$45,000,000 excluding the cost of additional land. Another advantage of the UF approach is a potential for cost reduction as the technology develops and competitive suppliers enter the market.

Any consideration of expanding the WTP to 85 mgd should address the reliable capacity of the pump station, with the largest raw and distributive pumps out of service, along with the chemical storage and feed facilities and other WTP elements. These details were not addressed herein.

C. Regulatory Compliance

Ammoniation of the finished water is warranted if a conversion to chloramines as the final disinfectant is necessary to comply with Stage 2 of the D/DBP Rule. A potential side benefit of chloramination is better control of taste and odor at customer taps. A revised (lower than CPS) cost of this alternative is \$650,000 at 65 mgd. Chloramination would cost somewhat more with a plant expansion to 74 or 85 mgd.

The Company should consider implementing UV disinfection at the WTP for compliance with the LT2 Rule depending on the raw water concentrations of *Cryptosporidium parvum*. The cost of \$6,200,000 for UV disinfection at 65 mgd is influenced by the need for separate installations for Plants #1 and #2. UV disinfection would cost somewhat more with a plant expansion to 74 or 85 mgd.

Relocating the point of chlorination downstream of the UV reactors and utilizing potassium permanganate as an alternative oxidant for the raw water might ensure compliance with Stage 2 of the D/DBP Rule, but bench-scale testing is necessary to confirm the adequacy of this alternative.

The USEPA Filter Backwash Recycle Rule (FBRR) is less stringent than expectations during the CPS and provides discretion to primacy agencies such as TDEC. Technically, the Company complies with the FBRR as long as the waste streams are returned to the head of the WTP. Nevertheless, the TDEC may require some degree of improvements particularly when the Company applies to improve or expand the WTP.

An alternative for sludge removal from the sedimentation basins, wastewater holding tank #2, and the sludge thickening tank is to retain a sludge dewatering contractor on a recurring basis. This alternative is particularly applicable if the regional sewerage authority requires the Company to eliminate the sludge discharge to the sewer or significantly increases the cost of disposal to the sewer.

VI. Cost Summary

The following table summarizes the total project cost estimates from the 2000 CPS report along with the alternatives that were evaluated in this report.

<u>2000 CPS Recommendation</u>	<u>2000 CPS Cost Estimate</u>	<u>Alternatives at the following additional capacities:</u>		
		<u>0 mgd</u>	<u>9 mgd</u>	<u>20 mgd</u>
A-2: Pretreatment Improvements	\$8,300,000	\$2,150,000 to \$4,500,000*	\$5,800,000**	\$2,150,000 to \$4,500,000*
B-5: Wastewater Treatment Improvements	\$7,200,000	\$0 but significant O&M expense	\$0 but significant O&M expense	\$0 but significant O&M expense
B-8: Filter House #3 Improvements	\$6,250,000	\$0	\$4,500,000	\$0
UF Membranes in Basin #3	---	---	---	\$16,100,000***
B-12: Ammoniation Facilities****	\$2,300,000	\$650,000	\$700,000	\$770,000
B-15: Standby Power	\$1,500,000	< \$1,000,000	< \$1,000,000	< \$1,000,000
B-19: Citico Station Reliability Improvements	<u>\$1,600,000</u>	<u>< \$1,000,000</u>	<u>< \$1,000,000</u>	<u>< \$1,000,000</u>
Subtotal (and round-off)	\$27,150,000	< \$4,800,000 to \$7,200,000	<u>< \$13,000,000</u>	< \$21,000,000 to \$23,400,000
UV Disinfection	---	\$6,200,000	\$6,700,000	\$7,300,000

* Depending on extent of Plant #1 basin improvements (see Exhibit 2).

** Tube settlers in Basins #1 and #2 are required in this case.

*** Potential for cost reduction as technology develops, and competitive suppliers enter the market.

**** CPS estimate was based on using anhydrous ammonia and providing a large scrubber for secondary containment. Alternative estimate is based on using aqua ammonia at 19% strength, which minimizes the need for vapor containment.

ATTACHMENTS

Exhibit 1 – reduced site plan with approximate flood plain

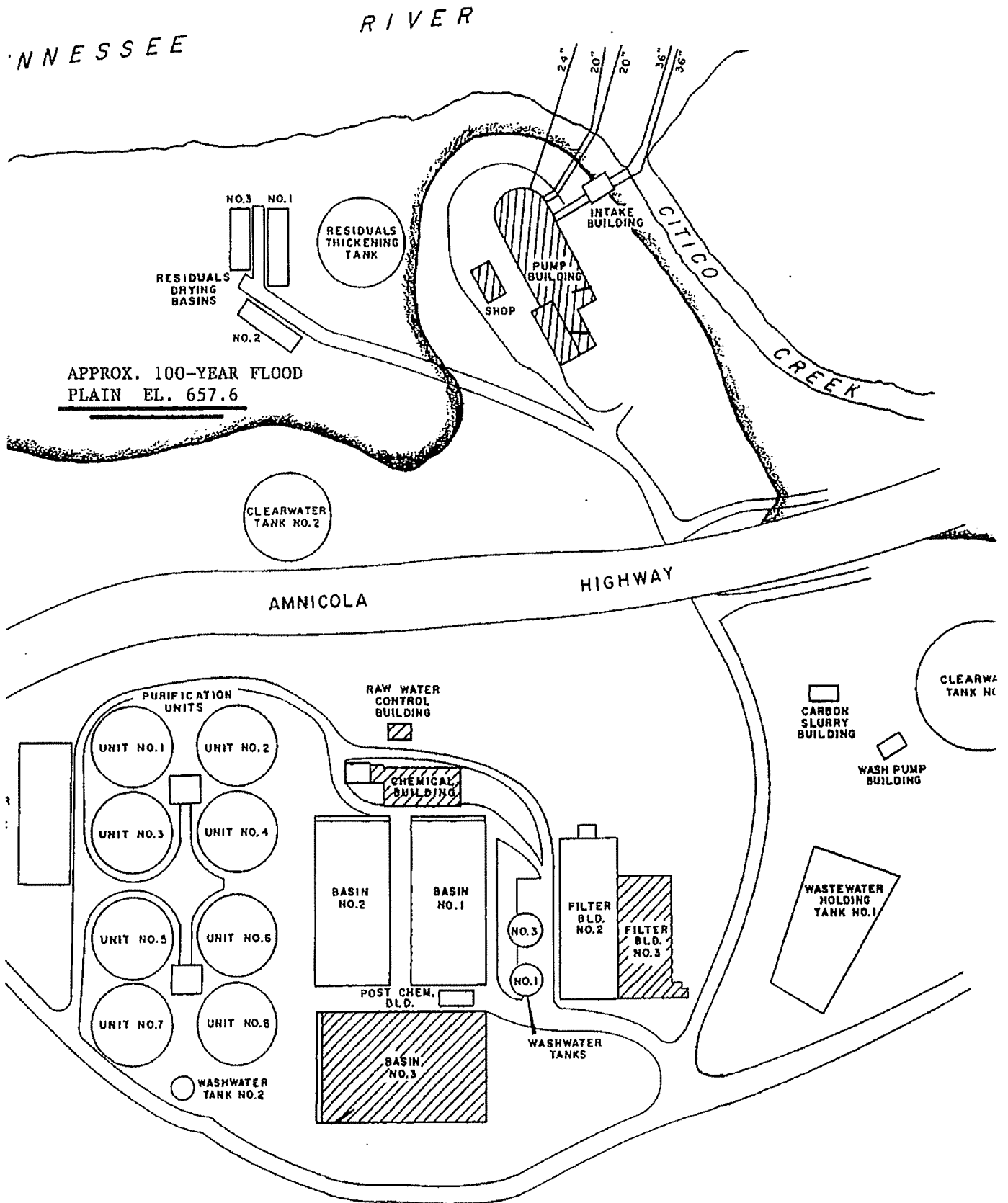
Exhibit 2 – total project cost estimates

1/18/02 memorandum addressing structural issues

Example plan for high rating of sedimentation basins

Data sheets for Actiflo

Data sheets for submerged UF membranes



**Tennessee-American Water Company
Chatanooga WTP Improvements
Total Project Cost Estimates**

p. 1 of 2

	Basin Improvements: Complete	Basin Improvements: Minimum	Basin Improvements: Tube Settlers @ 40 mgd (up to 60 mgd)	Basin Improvements: Actiflo @ 40 mgd	Basin Improvements: Actiflo @ 50 mgd	Basin Improvements: Actiflo @ 60 mgd
Yard piping & sitework	500,000	0	350,000	400,000	500,000	600,000
Concrete	600,000	600,000	450,000	960,000	1,200,000	1,440,000
Superstructures	0	0	0	300,000	360,000	450,000
Fabrications	385,000	260,000	300,000	125,000	150,000	175,000
Finishes	30,000	20,000	20,000	40,000	50,000	60,000
Process equipment	885,000	200,000	2,360,000	3,000,000	3,410,000	3,820,000
Mechanical equipment	170,000	170,000	125,000	200,000	250,000	300,000
Electrical & instrumentation	400,000	125,000	300,000	400,000	500,000	600,000
	\$2,970,000	\$1,375,000	\$3,905,000	\$5,425,000	\$6,420,000	\$7,445,000
General conditions, omissions and contingencies	742,500	343,750	976,250	1,356,250	1,605,000	1,861,250
	\$3,712,500	\$1,718,750	\$4,881,250	\$6,781,250	\$8,025,000	\$9,306,250
Engineering & project management	445,673	270,730	532,883	661,014	738,362	813,960
AFUDC	\$4,158,173	\$1,989,480	\$5,414,133	\$7,442,264	\$8,763,362	\$10,120,210
	332,654	159,158	433,131	595,381	701,069	809,617
	\$4,490,827	\$2,148,638	\$5,847,264	\$8,037,645	\$9,464,431	\$10,929,827
Round-Off	\$4,500,000	\$2,150,000	\$5,800,000	\$8,000,000	\$9,500,000	\$10,900,000

Notes:

Includes inlet flow splitting devices, flocculators, and effluent launders, and sludge collection equipment for basins 1, 2 and 3.

Retains existing sludge collection equipment in basins 1 and 2, excludes flocculators, effluent launders and sludge collection equipment for basin 3, and excludes inlet flow splitting devices.

Includes inlet flow splitting devices, flocculators, tube settlers, effluent launders, and sludge collection equipment for basins 1 and 2 only.

Includes inlet flow splitting devices and strainers, Actiflo equipment, and concrete tankage within basin 3.

Includes inlet flow splitting devices and strainers, Actiflo equipment, and concrete tankage within basin 3.

Includes inlet flow splitting devices and strainers, Actiflo equipment, and concrete tankage within basin 3.

Excludes pilot testing that regulatory agencies may require for permit.

Excludes pilot testing that regulatory agencies may require for permit.

Excludes pilot testing that regulatory agencies may require for permit.

Excludes pilot testing that regulatory agencies may require for permit.

Tennessee-American Water Company
Chattanooga WTP Improvements
Total Project Cost Estimates

p. 2 of 2

	Filter House #3 Renovation to 9 mgd	Ultrafiltration @ 9 mgd	Ultrafiltration @ 20 mgd	Ultrafiltration @ 60 mgd	Ultraviolet Disinfection @ 65 mgd	Chloramination @ 65 mgd
Yard piping & sitework	300,000	200,000	300,000	600,000	395,000	25,000
Concrete	100,000	375,000	720,000	1,700,000	175,000	40,000
Superstructures	150,000	400,000	1,125,000	1,530,000	92,500	125,000
Fabrications	75,000	100,000	150,000	300,000	110,000	20,000
Finishes	150,000	25,000	50,000	150,000	50,000	5,000
Process equipment	1,050,000	4,550,000	8,650,000	23,100,000	1,720,000	75,000
Mechanical equipment	750,000	100,000	200,000	600,000	295,000	30,000
Electrical & instrumentation	400,000	250,000	350,000	500,000	1,150,000	50,000
	\$2,975,000	\$8,000,000	\$11,545,000	\$28,480,000	\$3,987,500	\$370,000
General conditions, omissions and contingencies	743,750	1,200,000	2,309,000	5,695,000	1,196,250	111,000
	\$3,718,750	\$7,200,000	\$13,854,000	\$34,176,000	\$5,183,750	\$481,000
Engineering & project management	446,162	687,546	1,056,178	1,923,670	554,268	121,552
	\$4,164,912	\$7,887,546	\$14,912,178	\$36,099,670	\$5,738,018	\$602,552
AFUDC	333,193	631,004	1,192,974	2,887,974	459,041	48,204
	\$4,498,105	\$8,518,550	\$16,105,152	\$38,987,644	\$6,197,059	\$650,756
Round-Off	\$4,500,000	\$8,500,000	\$16,100,000	\$39,000,000	\$6,200,000	\$650,000

Notes:

Renovates and high rates (to 3 gpm/sf) one row of three filters and guts other row to create adequate space in pipe gallery.

Includes inlet strainers, ZeeWeed equipment, and concrete tankage within basin 3 and smaller equipment building on top.

Includes inlet strainers, ZeeWeed equipment, and concrete tankage within basin 3 and smaller equipment building on top.

Includes separate sets of UV reactors in dedicated buildings for conventional and Aldrich plants.

Includes aqua ammonia (19%) storage and feed system in a dedicated building for conventional and Aldrich plants.

Excludes pilot testing that regulatory agencies may require for permit.

Excludes pilot testing that regulatory agencies may require for permit.

Excludes pilot testing that regulatory agencies may require for permit.



American Water Works Service Company, Inc.

1025 Laurel Oak Road • P.O. Box 1770 • Voorhees, New Jersey 08043 • (856) 346-8201 • Fax (856) 346-8360

To: R. E. Hubel

From: A. J. Basile 

cc: W. F. L'Ecuier, TAWC
M. Zannanti, TAWC

Date: January 18, 2002

Re: Tennessee-American Water Company
Water Treatment Plant Improvements
Structural Inspection, Trip Report

On January 10 and 11, the writer visited the Tennessee-American Water Company (TAWC) water treatment plant located in Chattanooga, TN. The purpose of the visit was to inspect sedimentation basin #2, which was empty during the visit due to cleaning, the retaining wall between sedimentation basins 2&3 and the purification units, and filter building #3. Although full of water, basins #1 & #3 appeared to be in similar condition to basin #2.

Sedimentation Basin #2

The perimeter gravity walls of the basin were severely scaled. Some aggregate was missing and had left imprints so that the wall had a scalloped appearance. Wide horizontal cracks were noted on the west wall. A large (3' diameter) spall was noted in the southwest corner. Surface spalling and map cracking were observed in the overlay concrete at the north wall and portions of the northwest and southwest walls. This problem appears to be a symptom of a defective concrete mix. Further investigation in the form of a petrography analysis of a core sample would be necessary to confirm this.

The concrete effluent channels were also heavily scaled. The tops of the weir wall were spalled and those portions of the wall tops that had been previously overlaid with new concrete were severely cracked and spalled, subject to the same conditions described above for the walls. Joint material for some of the transverse channels had fallen out and there was an opening between the tank wall and the channel. These openings allow short circuiting of the basin effluent.

The embedded angle supporting the grating over the two south end discharge channels was severely rusted with delamination and loss of section. The southeast channel had an opening in the wall where a wood form piece had been embedded. This opening allowed soil to pass through from the embankment to the tank. The south

collector channel support struts exhibited loss of section, exposed rebar, and severe spalling.

The concrete slab bridge supporting the mixer motors exhibited spalled and cracked concrete. The concrete appears to be disintegrating under and to the side of the base support. The concrete directly under the base appears to be sound. The mixer paddles are severely rusted, and inoperable. The Water Company stated that they use the paddles as baffles but don't operate the mixer.

The timber baffle walls were in generally satisfactory condition. The top 1/16"-1/8" of the wood was soft, but underneath the wood was firm. A few planks had failed and should be replaced. The steel angle supports for the wood planks were severely rusted with much tuberculation.

The sludge collector system was in generally satisfactory condition. The collector flights and chains were free of rust or defects. The gear axle and support framing was moderately rusted. After cleaning, the collector system was put back into operation.

Retaining Wall

The concrete retaining wall is a cantilever wall at the north end and anchored (propped cantilever) at the south end. The anchors were added later (more than 15 years ago) after a crack developed in the south end and the wall began to move. The southern weep holes were flowing, probably from leakage from the sedimentation basins. Water had formed puddles along the southern portion of the wall, and the soil there was saturated and soft. Otherwise the walls appeared stable.

Filter Building #3

The roof consists of precast concrete channel sections supported on steel beams. Some of the roof panels have spalled near the edges. A few have exposed rebars.

The northwest corner of the building appears to have translated outward. The brick in that corner was as much as 1/4" out of plane. The cracking in the masonry follows a diagonal path from above the northwest window down to the corner. The crack then continues upward in the southeast direction towards the center roof.

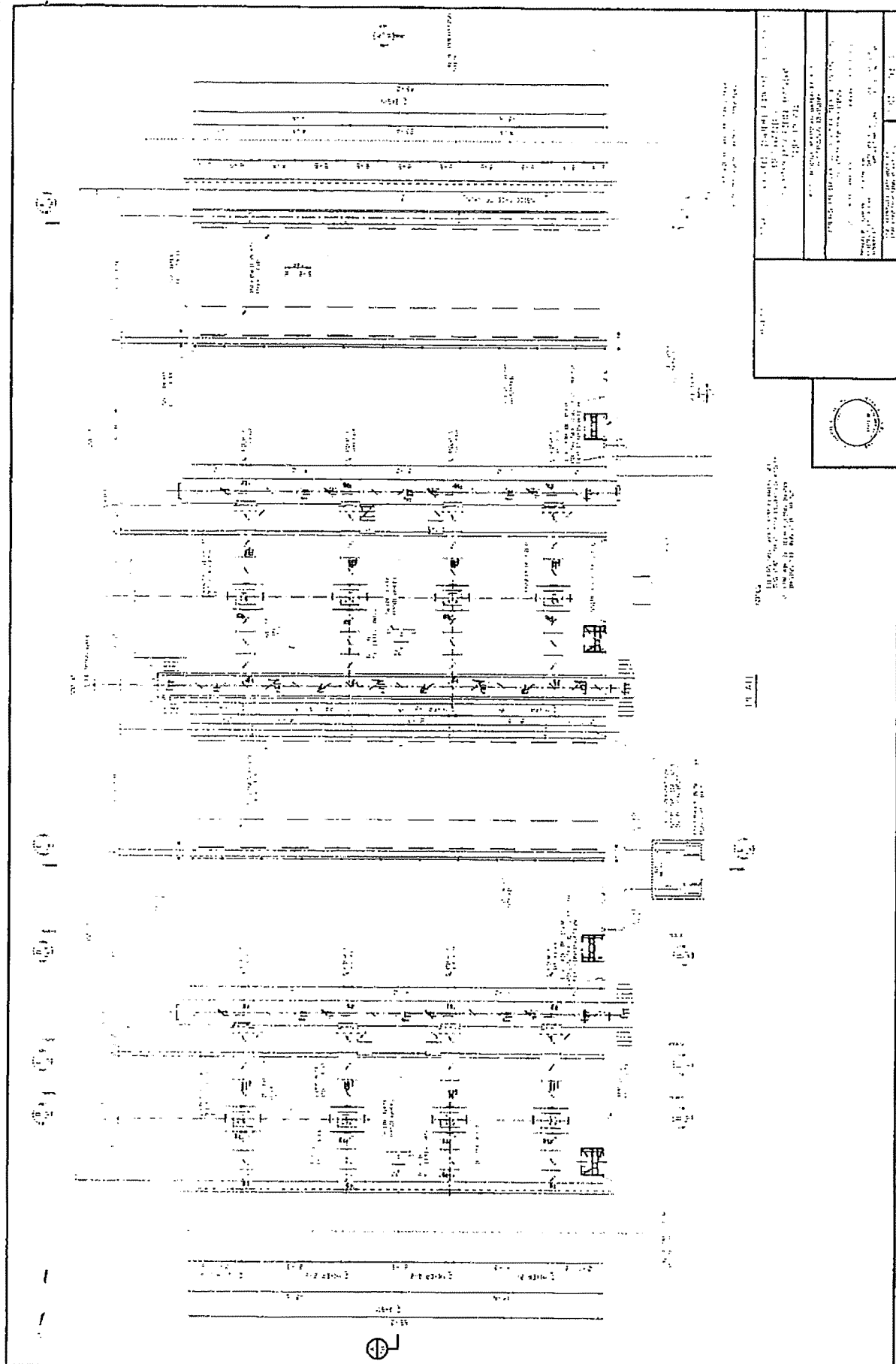
A medium wide, transverse crack was noted in the concrete slab walkway between the filters. The crack is located between the north filters and the center filters. The crack appeared to be full depth.

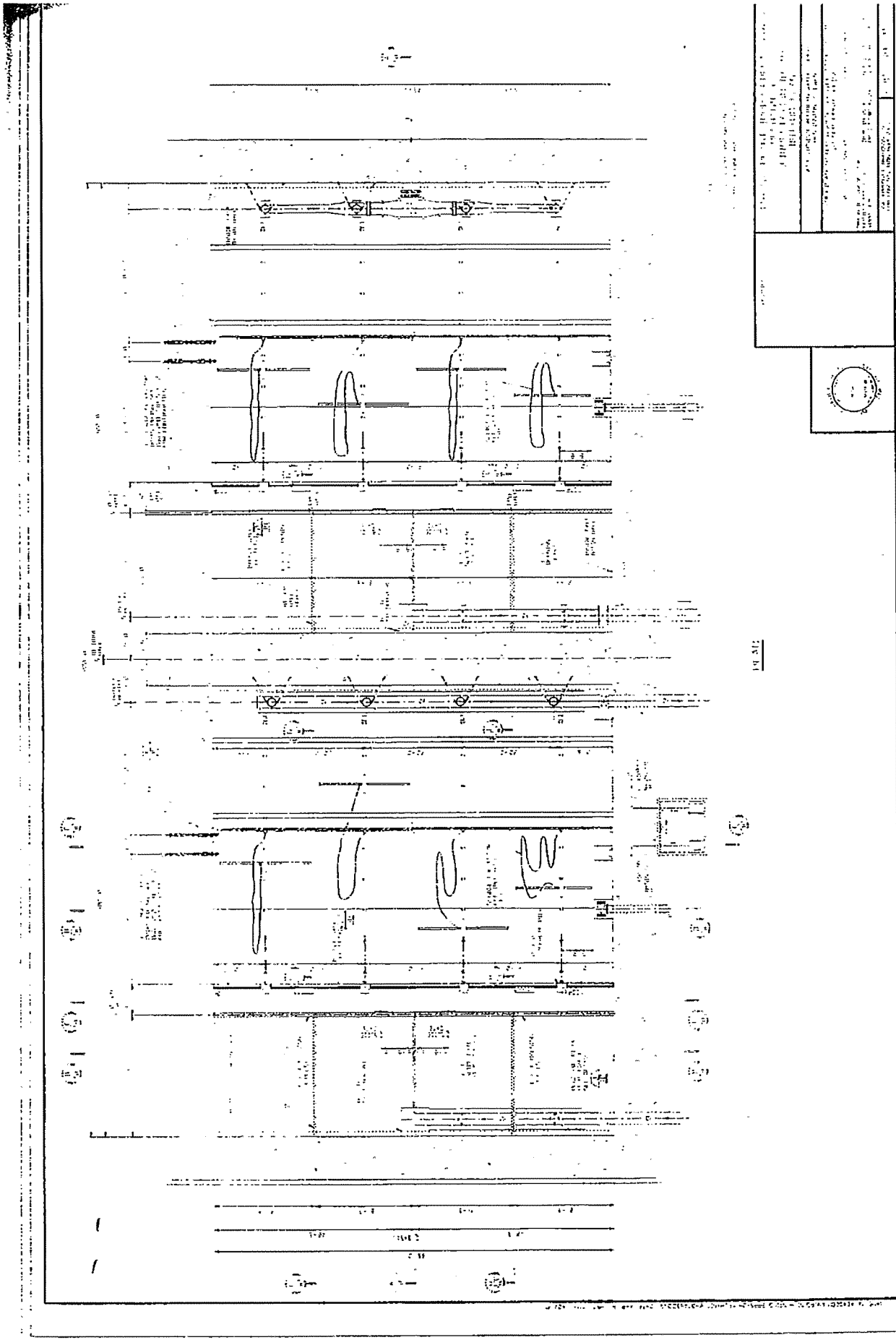
As observed from the pipe gallery, the underside of the concrete walkway slab has several spalls with exposed reinforcing bars. The bars were placed without sufficient concrete cover. The bars are slightly to moderately rusted.

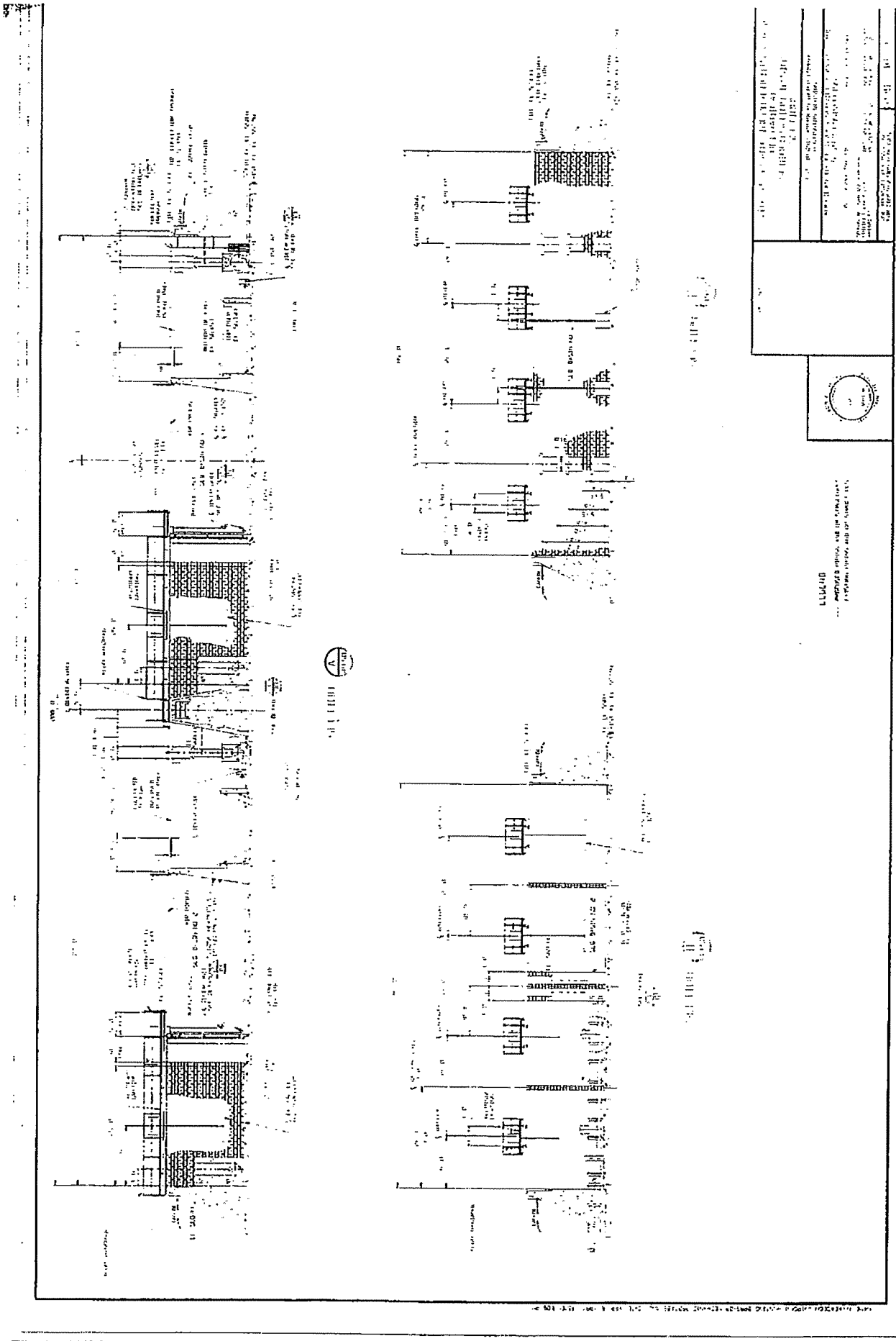
The outside loading dock located at the southeast corner exhibits 3" of settlement of the slab. The concrete stairs adjacent to the dock have also settled.

Recommendations

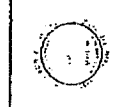
1. Remove the defective concrete on the north portion of the sedimentation basin #2 and replace with sound concrete ^a.
 2. Provide a 2" shotcrete overlay for the entire sedimentation basin #2 ^a.
 3. Remove the existing weir channels and replace with FRP channels ^a.
 4. Replace failed timber planks in baffle wall ^a.
 5. Pressure inject wide cracks along west wall with polyurethane grout, such as SIKA HH ^a.
 6. Attach static crack monitors to medium wide crack located at south end of retaining wall.
 7. Construct toe drain using perforated pipe along toe of retaining wall to remove standing water.
 8. Replace precast roof panels in filter building #3 with metal deck screwed or welded to underlying steel. Replace roofing material ^b.
 9. Repoint cracks in masonry ^b.
 10. Pressure inject transverse crack in filter slab with polyurethane grout ^b.
 11. Blast clean under slab of filter walkway slab, apply mortar repair as required, and apply sealer to entire surface ^b.
 12. Replace loading dock slab and stairs ^b.
-
- a. Perform similar repairs in other basins as needed and in coordination with overall plant improvements and expansion plans.
 - b. Perform work on filter building #3 unless plans are to abandon/demolish this building.



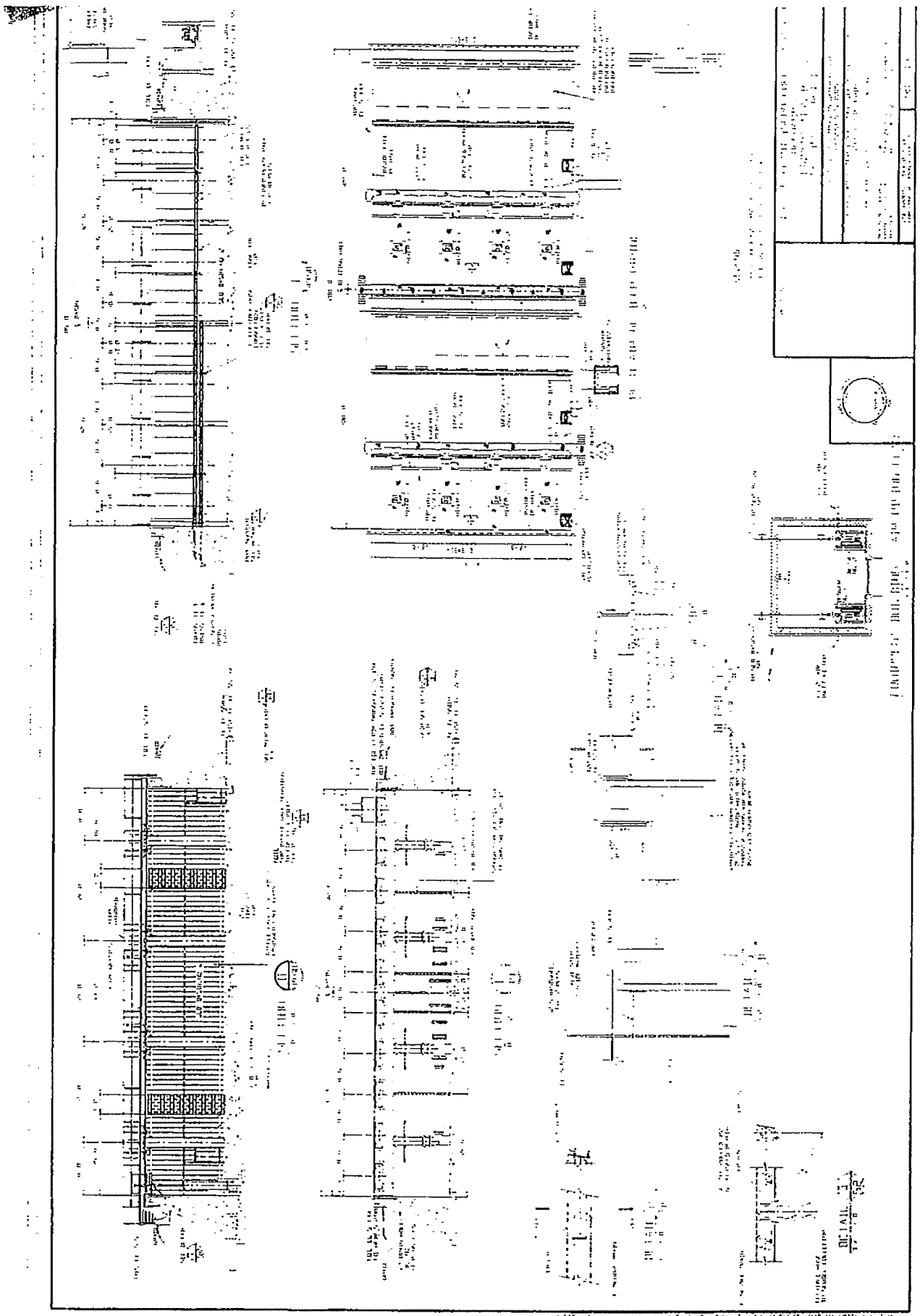




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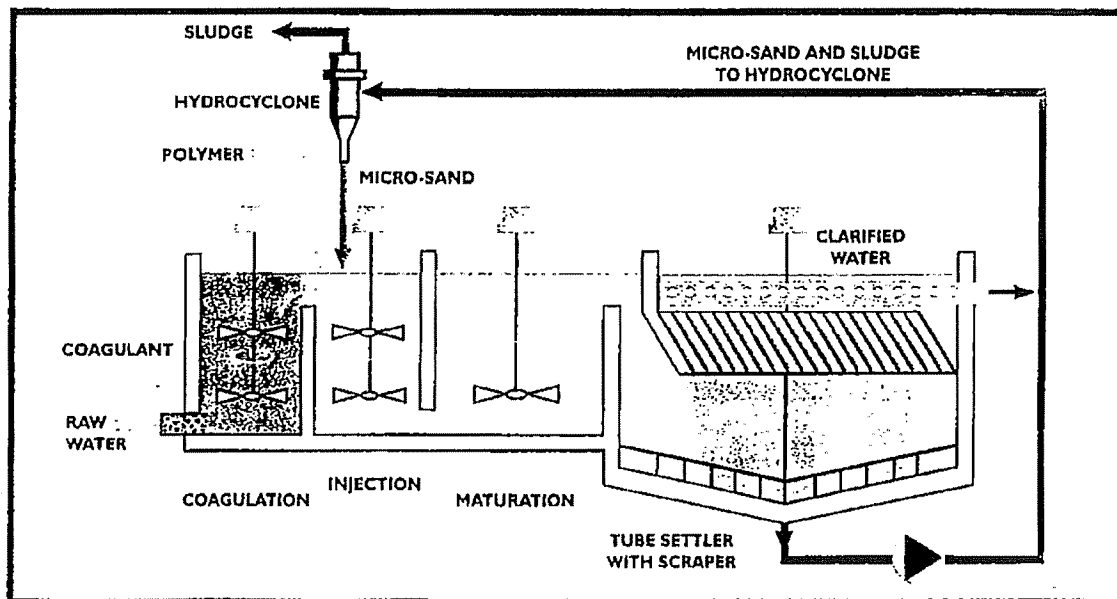


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BY THE DESIGNER AND THE OWNER



Krüger

ACTIFLO®



Micro-Sand Enhanced Flocculation and Settling

Proven Performance • Less Chemical Consumption • Compact Size

Test Site	Influent Turbidity (NTU)	Coagulant	Existing Conventional Full-Scale Plant		ACTIFLO Pilot*	
			Dosage (mg/l)	Clarifier Turbidity (NTU)	Dosage (mg/l)	Clarifier Turbidity (NTU)
PA	10 - 15	Alum	40 - 50	1.5 - 2	20 - 40	0.3 - 0.6
GA	3 - 10	Alum	6 - 7	1 - 2	5 - 6	0.4 - 0.5
VA	10 - 15	Alum	55 - 60	0.5 - 1.2	20 - 30	0.3 - 0.4
CO	7 - 10	Alum	40 - 60	2 - 3	20 - 30	0.5 - 0.7
KY	50 - 90	Ferric Sulphate	14 - 15	3 - 5	10 - 15	0.6 - 0.7
MD	0.8 - 1.2	Alum	10 - 12	0.5 - 0.7	6 - 8	0.2 - 0.3

* Retention time 6 - 9 minutes with rise rates 16 - 24 gpm/sf

FOR MORE INFORMATION

If you would like to know more about any of our processes, please contact us at the following location:

Krüger, Inc. • 401 Harrison Oaks Boulevard • Suite 100 • Cary, North Carolina 27513
Phone (919) 677-8310 • Fax (919) 677-0082

Krüger, Inc. • California
Phone (510) 737-0723 • Fax (510) 737-0724

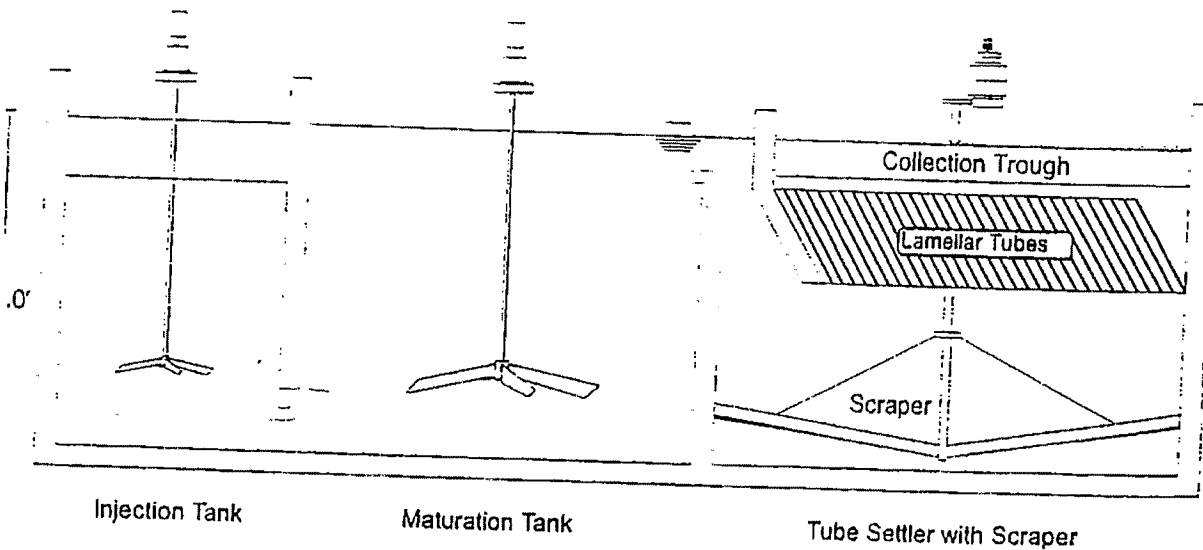
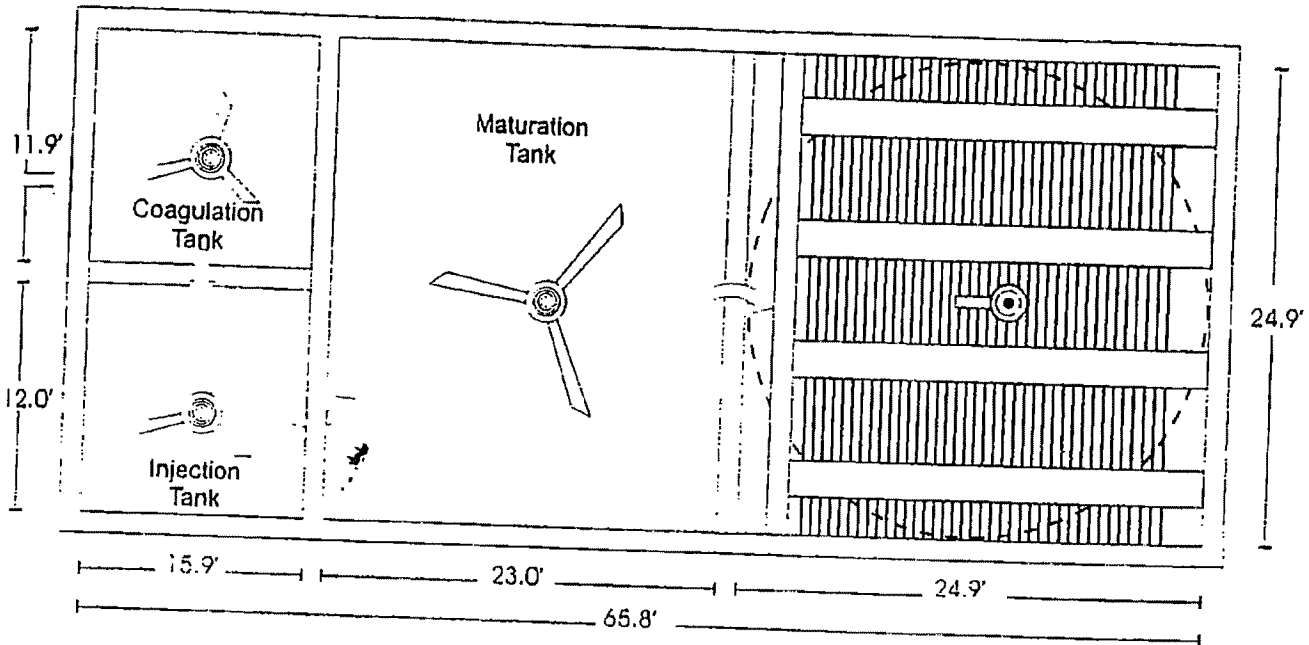
US Filter / Kruger Project # 470107

US Filter/Kruger Products
January 10, 2002

3 x 20 MGD ACTIFLO® SYSTEM
Preliminary Design Summary
(Option 1)

Design Capacity	
Total Nominal Flow, MGD	60
No. of Trains	3
Nominal Capacity Per Train, MGD	20
Coagulation Tank Design	
HRT at nominal flow, min	2.0
No. of Tanks per Train	1
Length, ft	15.9
Width, ft	11.9
Side Water Depth, ft	20.0
Top of Wall, ft	21.0
Injection Tank Design	
HRT at nominal flow, min	2.0
No. of Tanks per Train	1
Length, ft	15.9
Width, ft	12.0
Side Water Depth, ft	20.0
Top of Wall, ft	21.0
Maturation Tank Design	
HRT at nominal flow, min	6.0
No. of Tanks per Train	1
Length, ft	23.0
Width, ft	24.9
Side Water Depth, ft	20.0
Top of Wall, ft	21.0
Settling Tank Design	
No. of Tanks per Train	1
Length, ft	24.9
Width, ft	24.9
Side Water Depth, ft	20.0
Top of Wall, ft	21.0
Rise Rate at Nominal Capacity, gpm/ft ²	30

Preliminary ACTIFLO Single Train Layout
Chattanooga, TN
Total Design Capacity: 60 MGD
No. of Trains: 3 x 20 MGD



Preliminary Scope of Supply (Option 1)

The following mechanical and electrical equipment is provided as standard equipment with the proposed concrete ACTIVFLO® design.

I. Mechanical Equipment

Coagulation Tank

- Coagulation tank top entering mixer, TEFC, 460/3/60 motor, complete with 304 SS shaft and impeller.

Injection Tank

- Injection tank top entering mixer, TEFC, 460/3/60 motor, complete with 304 SS shaft and impeller.

Maturation Tank

- Maturation tank top entering mixer, TEFC, 460/3/60 motor, complete with 304 SS shaft and impeller.
- Anti-vortex baffles.

Settling Tank

- Lamellar modules, black polystyrene
- Lamellar supports, 304 SS
- Effluent collection troughs with supports, 304 SS.
- Sludge Scraper assembly(s), 304 SS, center drive, TEFC, 460/3/60 motor, speed reducer, complete with drive shafts, shaft protectors, rake arms and blades.

Microsand Recirculation Circuit with Redundancy

- Microsand pumps, centrifugal, with rubber-lined volute and impellers, stuffing box with packing, spiral track bushing, TEFC, 460/3/60 motor with V-belt and pulley drive.
- Pressure switches for microsand pumps with two set points complete with pressure gauges, isolation valves and diaphragm seals.
- All valves associated with microsand recirculation piping, microsand pump seal water station, and microsand pump flush water systems exclusive of all piping.
- Hydrocyclones for microsand/sludge separation, complete with support stands.
- Pressure gauges for hydrocyclones complete with diaphragm seals and isolation ball valves.
- Hydrocyclone underflow (microsand) collection boxes, 304 SS.

II. Electrical Equipment

PLC Based Control Panel

The ACTIFLO Control Panel(s) will be completely assembled, tested and programmed for the specified functionality. The Control Panel will be supplied with Allen Bradley's Programmable Logic Controller. The ACTIFLO Control Panel will include the input/output, I/O, capabilities as required for the ACTIFLO system. All I/O will be wired to field terminations and include surge arrestion. Spare wired signals have also been included. The U.L. labeled panel will be comprised of the following:

1. NEMA 12 Rated Freestanding Control Panel(s)
2. Programmable Control Processor and I/O (AB SLC 504)
3. Operator Interface Keypad/Display (AB Panelview 600)
4. Power Supplies
5. Alarm Horn
6. Signal Isolators
7. Surge Protectors
8. Circuit Breakers
9. Terminal Strips
10. Misc. Wire and Panduit

Not included:

1. Motor starters
2. VFDs
3. Fiber optic transceivers or cable

III. Instrumentation

Process Instrumentation

- One (1) raw water high range surface scatter turbidimeter
- Three (3) settled water low range turbidimeter (one per train)
- One (1) raw water pH meter, before coagulant addition
- One (1) coagulated water pH meter, after coagulant addition

IV. Chemical Feed Equipment

Automatic Dry Polymer Processing Systems

- Dry Polymer processing system(s), skid mounted packaged assembly, 115/1/60 motor, complete with feeder hopper, volumetric feeder, wetting chamber, transfer pump, mixing/aging tank, and level controls.
- Control Panel, NEMA 4X

Polymer Metering Pumps and Secondary Dilution Water

- Four (4) volumetric metering pump(s), progressive cavity or diaphragm type, complete with pump bases, variable speed drives, back pressure valves, check valves, pressure switches, calibration columns, isolation ball valves, flush connections, in-line static mixers, electric motors, piping and fittings (3-duty + 1 standby).
- Secondary dilution water system(s) for polymer dilution, PVC, including check valves, rotameters, flow regulators, solenoid valves, isolation ball valves and fittings.
- Control Panel, NEMA 4X, wall mounted complete with Drives, Digital Speed Display, Selector Switches, Status Lights, 120 VAC Surge Protector, Circuit Breakers, Terminal Strips, Misc. Wire and Panduit

Coagulant Metering Pumps

- Two (2) volumetric metering pump(s), diaphragm type, complete with pump bases, variable speed drives, pressure relief valves, back pressure valves, check valves, calibration columns, isolation ball valves, flush connections, strainers, electric motors, piping and fittings (1-duty + 1-standby).
- Control Panel, NEMA 4X, wall mounted complete with Drives, Digital Speed Display, Selector Switches, Status Lights, 120 VAC Surge Protector, Circuit Breakers, Terminal Strips, Misc. Wire and Panduit

V. Optional Equipment

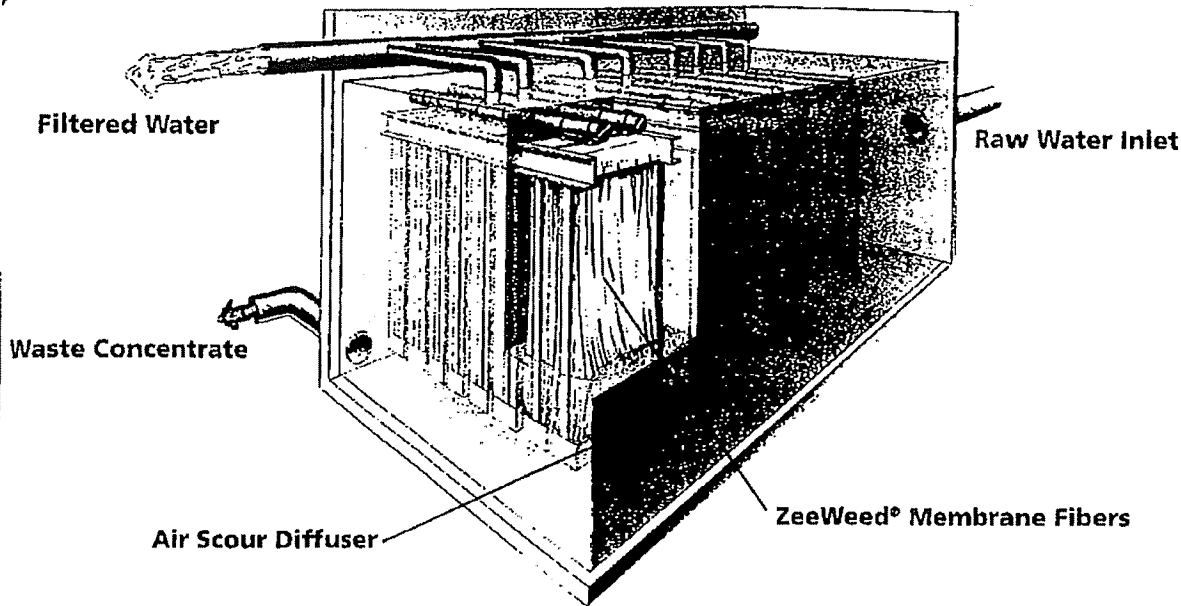
Kruger can optionally supply the following equipment for the proposed design.

SCADA System

- Kruger is capable of providing full-service integration including Supervisory Control And Data Acquisition (SCADA) system. Remote Telemetry Units (RDUs), and custom integration of existing control systems. SCADA systems are custom designed and built based on engineer and owner/operator input to include control and monitoring of any and all new and existing operations for a given plant.

pH Metering Pumps

- Chemical metering pumps for pH adjustment.



The membrane surface is kept clean through aeration and membrane back-pulsing. Diffused air is introduced from the bottom of the membrane module and travels along the surface of the membrane, removing any solids that may have settled. At pre-set time intervals, the membranes are back-pulsed. This is accomplished by briefly reversing the flow of permeate through the membrane to remove any particles that may have obstructed the pores during membrane operation.

A ZeeWeed® membrane water treatment plant can be supplied in various forms, depending on the community's needs. At the Beausoleil First

Nation Water Treatment Plant, the membrane system was designed as a skid mounted packaged plant to minimize field assembly. The system consists of one dual compartment stainless steel process tank for the membranes and skid mounted process pumps and support equipment. Many communities have also chosen to construct permanent on-site infrastructure. At the Poplar Hill First Nation Water Treatment Plant, the ZeeWeed® membranes are immersed into concrete process tanks and the support equipment is mounted on concrete pads.

The entire membrane system is designed for simplicity of operation and to minimize operational requirements. All plant operations are automatically controlled via a Programmable Logic Control, which continuously makes adjustments to pump speeds, valves, etc. to ensure the plant is operating at peak performance. When required, the entire ZeeWeed® treatment process can be remotely monitored via computer modem.

	Raw Water	Filtered Water
Turbidity (NTU)	>500	<0.05
True Color (TCU)*	50	<5
DOC (mg/L)*	>20	<5
Cryptosporidium	N/A	>6 log removal
Giardia	N/A	>6 log removal
Viruses	N/A	>2 log removal

*ZeeWeed® enhanced coagulation

ZENON is a global leader in the development and manufacturing of membrane technologies and systems for water treatment, wastewater treatment and water reuse. With installations worldwide, ZENON is providing cost-effective and reliable solutions to challenges faced by municipalities, industry and government agencies.

ZENON Municipal Systems Inc.

3239 Dundas Street West, Oakville, Ontario L6M 4B2 Canada
Phone: (905) 465-3030 Fax: (905) 465-3050
www.zenonenv.com



Water for the World

This product is protected by the following US patents as well as equivalent patents in other countries:
5,639,373 5,248,424 5,403,479 5,472,607

ZeeWeed® Water Treatment System
American Water Company TN
Nov. 26, 2001

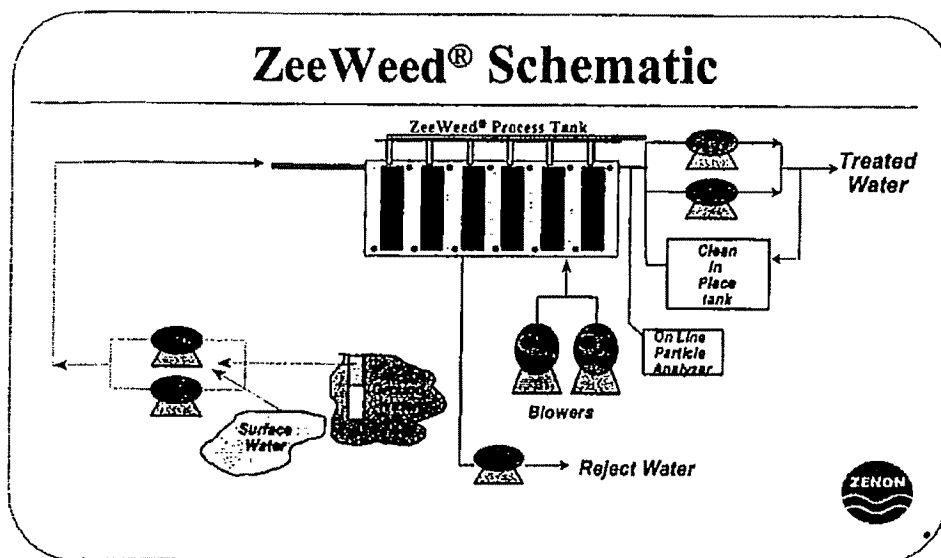


Summary of the ZeeWeed® Water Treatment Process

ZeeWeed® water treatment is a ZENON process technology that produces high quality treated water by drawing raw water through immersed ZeeWeed® membrane modules. ZeeWeed® "Outside-In", hollow-fibre membranes have nominal and absolute pore sizes of 0.04 and 0.1 microns respectively. This ensures that particulate matter greater than 1 micron in size, including *Giardia* cysts and *Cryptosporidium* oocysts, cannot enter the treated (drinking) water stream. The ZeeWeed® ultrafiltration membrane ensures removal of a large percentage of impurities due to its small pore size. This includes some viruses, which are removed by a combination of adsorption onto the solids in the process tank and by direct membrane filtration. The ZeeWeed® UF membranes can achieve ≥ 4 log removal of *Giardia* cysts and *Cryptosporidium* oocysts and ≥ 2.0 log removal of viruses.

The membranes operate under a slight vacuum created within the hollow membrane fibres by a permeate pump. Treated water is drawn through the membranes, enters the hollow fibres and is pumped out to the treated water storage tank (or distribution system). Air flow is introduced at the bottom of the membrane modules to create turbulence which scrubs and cleans the outside of the membrane fibres allowing them to operate at a high flux. The aeration also oxidizes iron and organic compounds, resulting in a treated water quality that is better than that provided by ultrafiltration or microfiltration alone.

With a ZeeWeed® membrane direct filtration water treatment system, removal of turbidity, *Giardia* & *Cryptosporidium* requires no process chemicals. Since treatment is a single stage process, there is no need for coagulants and the ZeeWeed® membranes effectively replace both the clarifier and granular media type filters found in conventional water treatment plants. There is no need to create large flocculated particles for settling in clarifiers or for capture by granular media filters. This results in significantly easier control for plant operators. Also, as the membranes are immersed directly in the process tank and are under only a low vacuum, high suspended solids concentrations do not foul the membranes or cause excessive backpulsing frequency and therefore, avoid the loss of productivity that



ZeeWeed® Water Treatment System
American Water Company TN
Nov. 26, 2001



can be experienced with positive pressure membranes in vessels.

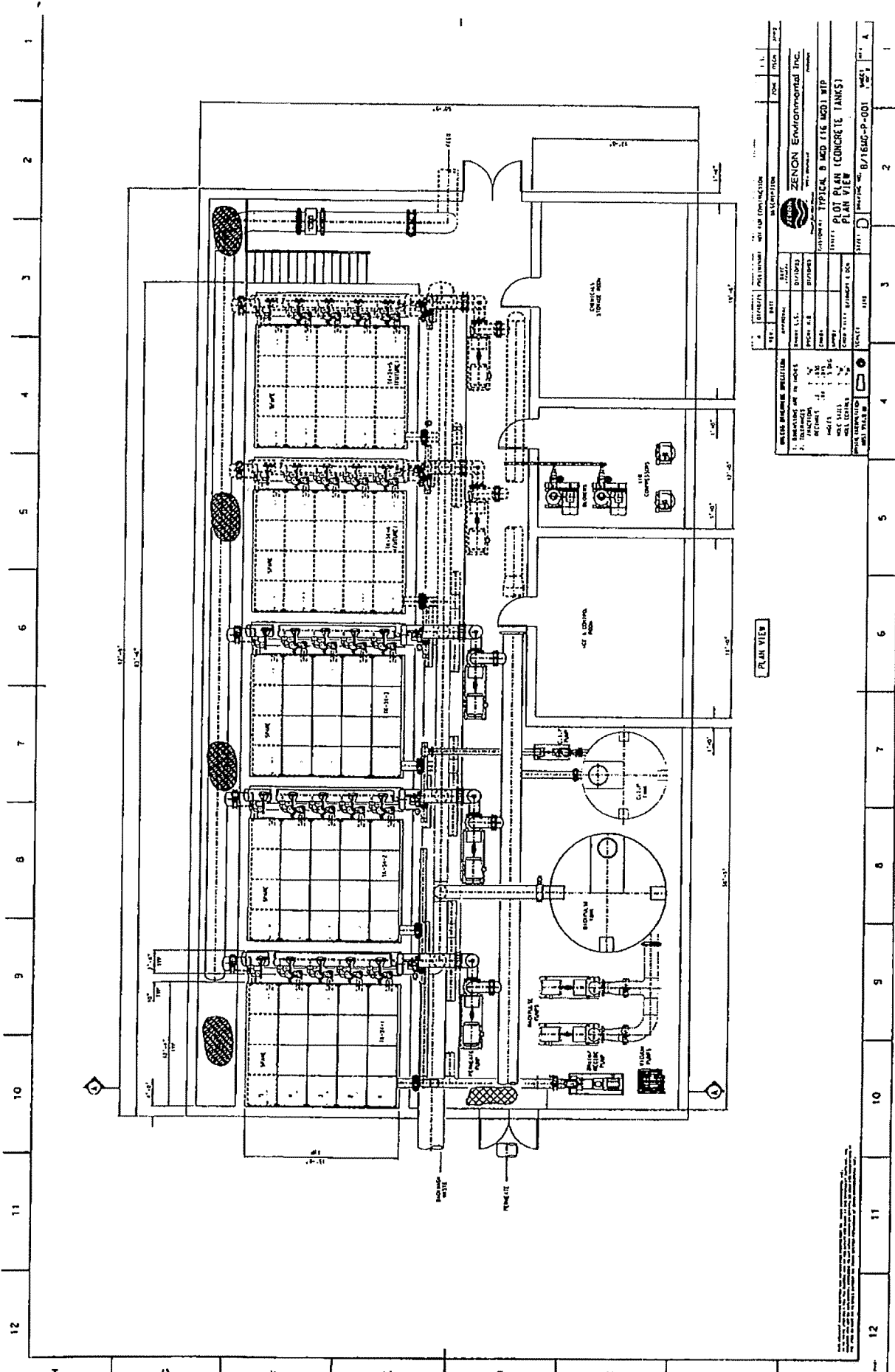
ZeeWeed® membranes have the additional benefit of being chlorine resistant up to concentrations of 1,000 mg/L. Therefore, influent water can be pre-chlorinated for zebra mussel control.

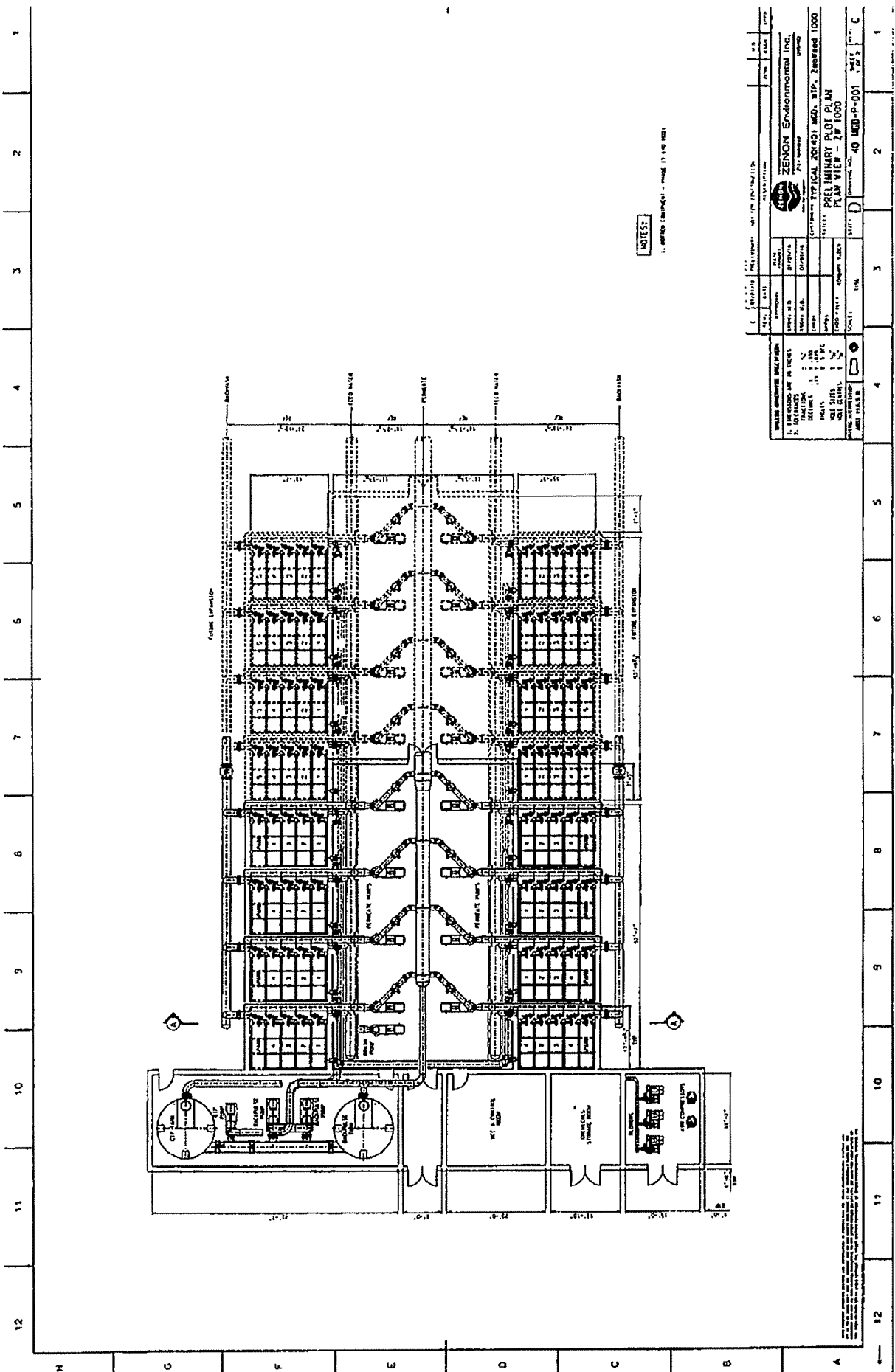
The ZeeWeed® membrane technology process consistently produces high quality water, as the membranes are not subjected to stress, pressurization or rapid pressure fluctuations. Membrane cleaning by backpulsing is achieved by reversing the permeate flow and backwashing the fibre's lumen with permeate at low pressure (due to the high permeability of the ZeeWeed® membrane, the backpressure during backpulsing is low). The small variations in operating pressure occur smoothly over relatively long periods so that at no time is the membrane stressed. This, in turn, results in a membrane filtered permeate with the lowest sustainable particle count on the market.

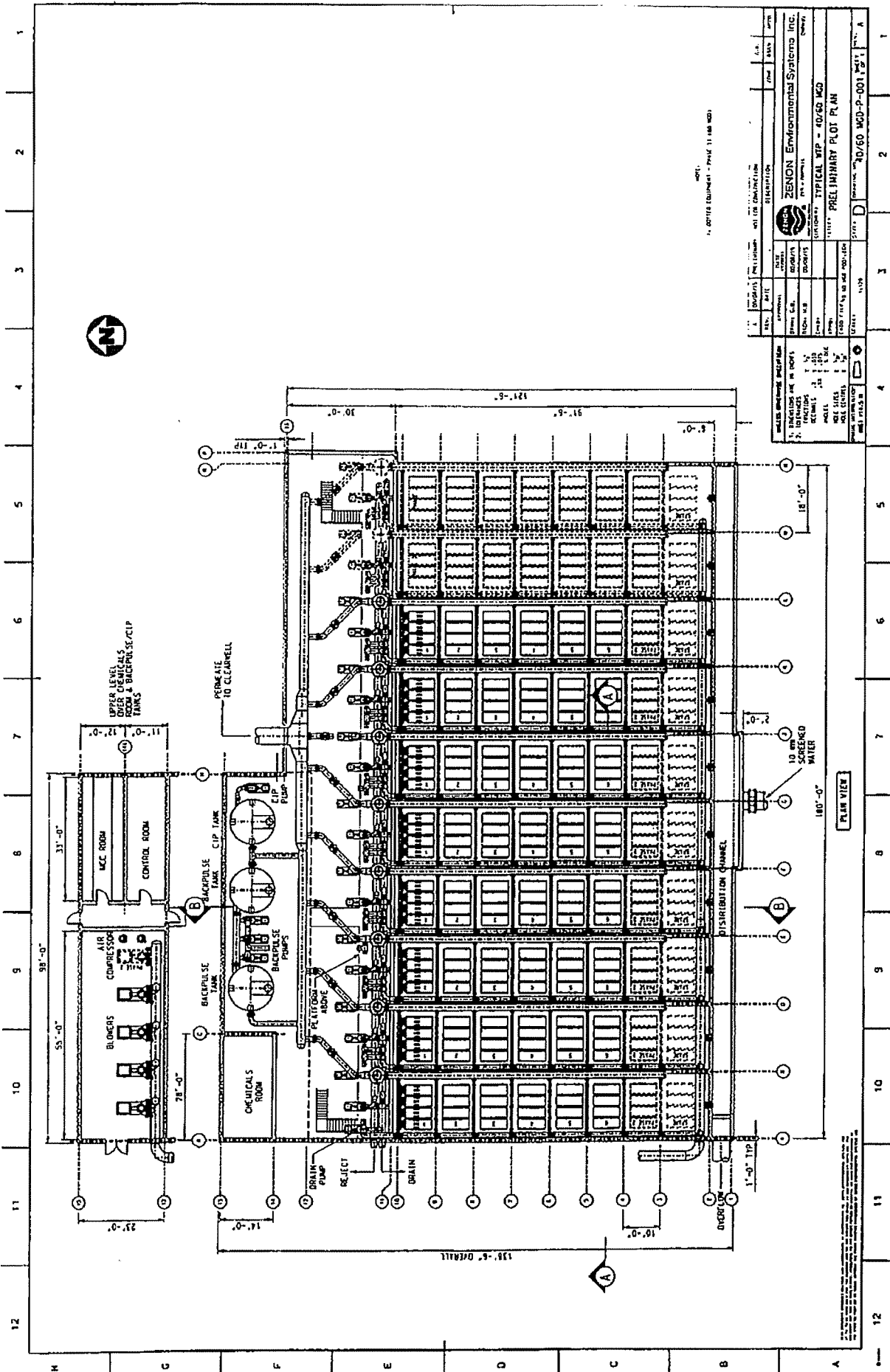
Scope of Supply – ZENON

ZW -500C

- Process Membrane Support Frames
- ZeeWeed® Membrane Modules
- Permeate/Backpulse Pumps for option #1 (separate Backpulse pumps for options # 2 & 3)
- Permeate Header Pipes
- Air Scour Header Pipes
- Air Separation Columns
- Air Removal Vacuum Pumps
- Membrane Air Scour Blowers
- Backpulse Tanks
- Clean in Place (CIP) Membrane Cleaning System
- Reject Water Control Pumps
- Control System
- Turbidimeter
- Particle Counters
- Instrumentation Integral to the ZeeWeed® System
- Major Process Equipment is supplied loose
- Equipment General Arrangement and Layout Drawings
- Operating & Maintenance Manuals
- Field Service and Process Start-Up Assistance
- Equipment delivery FOB Chattanooga, TN







Tennessee-AMERICAN WATER COMPANY
Chattanooga
Pretreatment Facility Improvements
IP

Detailed Cost Estimate

JDE Code	Description of Activity		Estimate
TRE	Transferred Expenditures		
PRE	Preliminary Engineering		\$95,000
DES	Detailed Design, Bidding & Contract Award		\$552,767
PER	Permits & Approvals		\$67,422
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		
LND	Land, Land Rights & Asset Acquisition		
ACQ	Utility Asset Acquisition		
Acct #	<u>UTILITY PLANT CONSTRUCTION</u>		
320	Water Treatment Equipment		\$4,935,561
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
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	#N/A		
	#N/A		
	#N/A		
	#N/A		
5%	Contingency (on construction costs only)		\$246,778
2%	Capitalized Clearing (based on rate stated to left)		\$117,951
	Total Activity Cost		\$6,015,479
3.50%	AFUDC (based on annualized rate stated to left)		\$284,521
	Total Project Cost to be Authorized		\$6,300,000
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			
2006			196,622
2007			532,871
2008			
2009			
2010			
2011			
SUB-TOTAL			\$729,493
	<i>Prorated AFUDC</i>		\$35,000
TOTAL			\$764,493
	<u>Implementation Costs</u>		
Priors			
2006			
2007			
2008			\$4,403,334
2009			\$882,652
2010			
2011			
SUB-TOTAL			\$5,285,986
	<i>Prorated AFUDC</i>		\$249,521
TOTAL			\$5,535,507
<u>Total Project Cost</u>			\$6,300,000

2006

Investment Project Analysis -TAW - Pretreatment - Rev 11-18-05.XLS

2 of 6

3 of 6

[illegible]

[illegible]

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TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
Pretreatment Facility Improvements
IP 0

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$6,300,000	
Financing (based on above cost of capital)	\$701,589	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	143,640	2.28%
Property Tax (applies to land & structures accounts only)	0	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	0	
Total Additional New Revenue Required to Support Project	\$845,229	
Projected 2005 Revenues	\$33,359,412	
Required Price Increase	2.534%	

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666



CAPITAL INVESTMENT MANAGEMENT PROJECT APPROVAL

Approved Stage: PNI *Date:* 02/16/2006
In Progress PIP *Date:* 07/12/2006
Stage:
In Progress Saved as draft
Status:

REGION: Southeast
COMPANY: Tennessee American Water
JDE BUSINESS UNIT: Chattanooga

PROJECT TITLE: Hill City Discharge / Signal Mountain Supply Improvements
BUSINESS UNIT NO: 26020602

1. Accountability

PNI Document Prepared By Randy Taylor
Project Manager Randy Taylor
Asset Owner or Project Sponsor Monty Bishop

PIP No changes from the previous stage

2. Prior Documentation

PNI This project was identified in part as project B-6 in the latest CPS study completed in 2000 . A copy of the CPS is attached .



Hill City Discharge CPS.pdf

PIP No changes from the previous stage

3. Need for the Project

PNI As stated in the 2000 CPS, the Town of Signal Mountain purchases water from TAWC at a connection point in TAWC's Hill City gradient. The hydraulic grade in the Hill City gradient is significantly higher (app. 290 ft higher) than Signal Mountain's hydraulic grade. The Signal Mountain system draws water from TAWC in a sporadic on/off manner, causing significant problems with water hammer in the TAWC system. Furthermore, demands in the Hill City gradient have increased significantly due to recent residential development and the new interconnection with the Walden's Ridge Utility District, resulting in increased demands on the Hill City Booster.

PIP



CTI report.doc

4. Recommended Solution

PNI Install piping and PRV to connect the Town of Signal Mountain to the Citico Gradient. However a preliminary engineering evaluation is recommended as the first step in this project to determine if the solution recommended in the CPS is still the best solution to the problem.

Does this project require the acquisition of land and/or buildings via either purchase or lease? No

Does this project require the acquisition of easements or right-of-ways? No

Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

PIP As recommended in the 2000 CPS, install piping and a PRV to connect the Signal Mountain system to TAWC's Citico/Main gradient, thus reducing demands on the Hill City zone. The scope of work recommended in the CPS has been modified by an outside consultant, CTI Inc., and is listed in the file below. Additional improvements are recommended as part of this project to improve operations in the Hill City zone, such as: altitude valve at White Oak Tank, air release valve on Morrison Springs Road, and a new meter vault on Russell Avenue.



Hill City - Signal Mtn cost.xls Hill City - Signal Mtn sketch.pdf

Does this project require the acquisition of land and/or buildings via either purchase or lease? No

Does this project require the acquisition of easements or right-of-ways? No

Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

5. Outputs and Benefits

PNI This project has two main benefits as a result of transferring Signal Mountain demands to the Citico pressure zone: the water hammer problem in the Hill City zone should be alleviated, and reduced demands on the Hill City booster will both reduce operating costs and will delay the need for capital improvements to this booster (estimated at \$500,000).

PIP No changes from the previous stage

6. Options

PNI The do nothing option of leaving the system as it is now (i.e. supplying Signal Mountain off the Hill City system) would result in the need for major capital investment in upgrading the Hill City pump station and the discharge piping .

PIP No changes from the previous stage

7. Schedule

ACTIVITY	DATE
Project Start	March 15, 2006
Project Implementation Proposal Submission	August 1, 2006
Substantial Project Completion (in-service)	December 30, 2006
Final Project Completion	January 30, 2007
Post Project Review	February 15, 2007



ACTIVITY	DATE
Project Start	March 16, 2006
Project Implementation Proposal Submission	June 2, 2006
Substantial Project Completion (in-service)	December 30, 2006
Final Project Completion	January 30, 2007
Post Project Review	February 15, 2007



8. Project Cost and Cash Flow

		U.S. Dollars							
<i>PNI</i>	COMPONENT	TOTAL	PRIOR YRS	2006	2007	2008	2009	2010	2011
	Preliminary Cost (PNI)	\$95,000		\$95,000					
	Implementation Cost (PIP)	\$905,000		\$905,000					
	Total Project Cost	\$1,000,000	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0
	Current SCEP Approved Cost	\$1,000,000		\$1,000,000					
	Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Advances or Contributions	\$0		\$0					
	Total Company Funded	\$1,000,000	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0
	Cost of Removals	\$0		\$0					



Hill City Signal MTn. Investment Project Analysis -TN revised 4.05.05.XLS

PIP No changes from the previous stage

9. Budget Discussion

PNI The cost estimate is based on the projects recommended in the CPS including the additional reinforcement in the Citico Gradient to supply flow greater than 500 gpm. The cost for preliminary engineering is included in the cost estimate. The cost from the CPS were increased based on the costs from recently completed work. The recommendations from the preliminary engineering could impact the estimated cost of construction.

PIP No changes from the previous stage

10. Rate Impact

PNI An increase of 0.175 % will be required

PIP No changes from the previous stage

11. Risks

PNI The preliminary engineering study could recommend additional improvements that would impact the cost of construction. There is some moderate risk that the engineering analysis and design may not be done in time to complete all the construction this year.

PIP No changes from the previous stage

12. Project Delivery Method

PNI Engineer-Procure-Construct

PIP No changes from the previous stage

13. Resource Needs

PNI Engineering consultant will be required to provide a preliminary engineering analysis and design of facilities to be constructed. Contractor will be needed to construct recommended improvements .

PIP This will be a Design - Bid- Build type project .

14. Deliverables

PNI The deliverable is a thorough engineering study with analysis and recommendations of needed improvements to the Citico / Hill City network .

PIP The interconnection with the Town of Signal Mountain, a 1 MGD bulk customer, will be moved from the Hill City zone to the Citico zone - thus saving \$0.064 per thousand gallons or \$ 23,360 per year in pumping costs at the Hill City pump station. In addition, the expansion of the Hill City pump station at a cost of \$500,000 can be deferred.

15. Drivers

<i>PNI</i>	ASSET TYPE	PURPOSE	CODE	%
	Drinking Water - Networks (includes services & hydrants)	Water - Customer Satisfaction, Pressure	WNRQCS02	

TOTAL 0

PIP No changes from the previous stage

16. Priority Ranking

PNI Project No: 24 Date of Ranking: March 15, 2006
Out of: 33

PIP No changes from the previous stage

17. Project Manager Routing

Stage of Project: PIP
Status of Project: Saved as draft
Approval Requested at Meetings of: June, 2006

FOR ADMINISTRATIVE USE ONLY

A. Pre-CIMC Review

PNI Reviewed By:

Comments:
Action:

PIP Reviewed By:
Comments:
Action: Forward to CIMC with Pre-CIMC review

B. CIMC Review and Approval

PNI	Reviewed By:			
	Approved By:	Title	Primary Approver	or Delegated Authority
		Managing Director	Daniel W Warnock	
		Director, Service Delivery	Nick Rowe	
		Director, Engineering	David R Kaufman	
		Director, Finance	Christopher C Buls	Paul T Diskin
	Comments:			
	Action:	Approve and forward to Pre-CIRC (>\$100,000)		

PIP	Reviewed By:			
	Approved By:	Title	Primary Approver	or Delegated Authority

Comments:
Action:

C. CIRC Review and Approval

PNI	Reviewed By:			
	Approved By:	Title	Primary Approver	or Delegated Authority
		Director, Capital Program	Gary A Naumick	
		Director, Engineering	Stephen P Schmitt	
	Comments:			
	Action:	Approve with no need to go to CX/FD		

PIP Reviewed By:
Approved By: Title Primary Approver or Delegated Authority

Comments:

Action:

D. Modification History

02/08/2006 Randy Taylor (Saved as draft)
02/08/2006 Randy Taylor PNI (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
02/09/2006 Lisa M Bohenic PNI (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
02/12/2006 Randy Taylor PNI (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
02/13/2006 Randy Taylor PNI (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
02/13/2006 Bruce E Juergens PNI (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
02/15/2006 Lisa M Bohenic PNI (Forwarded to CIRC without Pre-CIRC review: Awaiting CIRC approval)
02/16/2006 Donna L DeMarco PNI (Approved with no need to go to CX/FD: Approved by CIRC)
02/27/2006 Lisa M Bohenic PNI (Approved with no need to go to CX/FD: Approved by CIRC)
06/01/2006 Randy Taylor PIP (Saved as draft)
06/01/2006 Randy Taylor PIP (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
06/08/2006 Lisa M Bohenic PIP (Forwarded to CIMC with Pre-CIMC review: Awaiting CIMC approval)
06/09/2006 Douglas E Potts PIP (Forwarded to CIMC with Pre-CIMC review: Awaiting CIMC approval)
06/12/2006 Randy Taylor PIP (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
07/12/2006 Lisa M Bohenic PIP (Saved as draft)

E. Deletion Request



TENNESSEE-AMERICAN WATER COMPANY

Project B-6

SIGNAL MT. INTERCONNECTION IMPROVEMENTS
INSTALL 1,000 FEET OF 12-INCH MAIN, A PRV & TELEMETRY

Installation	12 months	Project Cost	\$250,000
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Description

The Town of Signal Mountain currently purchases water from TAWC at a connection adjacent to Signal Mountain Road. Average use by the Town of Signal Mountain is approximately 0.9 mgd. This connection draws water from the Hill City pressure zone, and fills two holding tanks operated by the Town. The volume of these tanks are 0.25 MG and 0.50 MG, and the estimated overflow of each is 750 feet. A booster station operated by Signal Mountain pumps water from the holding tanks to a 2.0 MG tank located in their distribution system.

Based on operational data, the Town controls the on/off status of the valve at the interconnection by a float valve in one of the holding tanks. This results in a sporadic on/off operation at the interconnection, which at times causes significant water level movement in the White Oak Reservoir and water hammer problems on the TAWC system. The estimated flow rate via the connection during holding tank refill is 1,700 to 2,000 gpm. The maximum flow rate in the resale contract is 2,500 gpm.

Recommendation

Therefore, it is recommended that a portion of the Signal Mountain demand be delivered from the lower pressure Citico pressure zone since transmission piping is located near the interconnection. This transfer of demand would assist with relieving operational concerns (i.e., tank water level movement and water hammer) on the Hill City pressure zone and would result in power savings at the Hill City Booster Station.

Model simulations were conducted to determine the improvements needed to transfer a portion of the Signal Mountain supply through existing mains in the Citico pressure zone while maintaining a hydraulic grade line of at least 850 feet. This grade line will provide desirable pressures (i.e., 40 psi) to customers at higher elevations (i.e., 770 feet) and will be more than adequate for filling the Signal Mountain holding tanks. The simulations indicate that approximately 0.72 mgd could be supplied through the Citico zone if the following improvements are completed:

1. Install 800 feet of 12-inch in Riverside Avenue to complete 10-inch loop
2. Install pressure reducing pit and 200 feet of 12-inch in Grandview Avenue.
3. Install valving improvements in the existing interconnection between TAWC and Signal Mountain

The model simulations show that the existing 12-inch in Riverside Avenue would experience significant head loss while supplying a 500 gpm flow rate to Signal Mountain as well as the future maximum day demand for customers along the main, which includes a sewer treatment plant. The installation of 800 feet of 12-inch main would assist with maintaining adequate pressure to customers along most of the main. However, customers at higher elevations in the Signal Hills area would experience pressures less than 20 psi. Therefore, a PRV and vault are recommended in Grandview Avenue to supply high elevation customers in this area from the Hill City zone. The 200-foot segment will tie the existing 12-inch main in Russell Avenue with the 8-inch main in Grandview Avenue.

The PRV should be set to maintain an HGL of approximately 860 feet to ensure sufficient pressure to customers during peak demand conditions. Valving and telemetry improvements will also be required at the existing interconnection to limit the Citico supply to approximately 500 gpm, and allow the Hill City zone to make up the difference. Based on estimated peak rates of 2,000 gpm to Signal Mountain, the Citico zone will supply 500 gpm while the Hill City gradient would supply the remaining 1,500 gpm.

The above improvements have a total estimated cost of \$250,000. However, with an estimated power savings of \$16,000 per year at the Hill City Booster Station, this project will result in operating cost savings that will partially offset the annual cost to finance the capital expenditure. Also, as mentioned above, it will provide operational benefits to the Hill City gradient.

It should be noted that supplying flow rates greater than 500 gpm via the Citico zone would require additional reinforcement of the Citico pipelines serving this area. This would result in increased capital expenditures and a lower payback. If feasible, the following additional projects would be needed:

1. Install 500 feet of 12-inch in Old Pineville Road from valve #1535 to Eastview Drive
2. Install 900 feet of 12-inch in Signal Mountain Boulevard from valve #9876 to Baylor School Road
3. Install 1,400 feet of 12-inch in Baylor School Road from Hudson Road to Signal Mountain Boulevard.

The additional cost for these improvements is estimated at \$210,000.

**Tennessee American Water
Hill City Discharge/Signal Mountain Supply Improvements
Preliminary Engineering Study
Prepared By Consolidated Technologies, Inc.
CTI Project No. C06031**

Study Background

Tennessee American Water (TAW) supplies an approximate average of 1 MGD of water to the Town of Signal Mountain. The supply point to the Signal Mountain system is the Signal Mountain Pumping Station located on TN. Highway 127 at the base of Signal Mountain near Signal Mountain Road. The supply of water from TAW's Citico Water Treatment Plant travels thru a portion of the Citico distribution pressure zone to the Hill City Booster Station, where it is pumped thru the Hill City Booster distribution system, and pressure reducing valve near Signal Mountain Road to the Signal Mountain Pumping Station. It is the opinion of TAW and CTI that this pumping station is located at an elevation that could be adequately served directly thru the Citico distribution system without re-pumping thru the Hill City Booster Station if certain improvements were made within the Citico distribution system. **It is the primary objective of this engineering study to determine what improvements will be necessary in order to achieve the objective of eliminating the need to re-pump Signal Mountain's supply thru the Hill City Booster.** The approximate annual cost of re-pumping the supply to Signal Mountain thru Hill City Booster Station is \$23,360. All or a portion of this annual cost could possibly be recovered if sufficient improvements could be made within the budgeted amount of \$1,000,000 for construction, engineering and other costs.

Hydraulic Analysis

In order to determine the optimal improvements to the distribution system which would achieve the objective of reducing the amount re-pumped to Signal Mountain it was first necessary to perform a hydraulic analysis. The existing TAW computer model which was last updated in the year 2000, and which is based in WaterCad software, was utilized for this purpose. However, prior to using the existing hydraulic model, it needed to be updated to add several distribution system lines which had been constructed since the last model update. The portion of the Citico Pressure Zone north of the Tennessee River, and the Hill City Pressure Zone were the portions of the TAW hydraulic model which were updated for this project's purposes. Distribution system improvements added since the year 2000 included 12" lines on Signal Mountain Road, 12" and 16" lines on Mountain Creek Road to the new Mountain Creek Storage Tank and Walden Pumping Station. Since the existing hydraulic model is only a "skeleton" model, including primarily lines 12" in diameter and larger, it was determined to be necessary for the accuracy of the results of this study to also add a portion of the lines which are 8". The customer demand information was reviewed for changes since the last update of the model. The most significant change in customer demand was the addition of wholesale customer, Walden Ridge Utility District, with an average demand of 1.0 MGD at a 1400 gpm pumping rate.

After the updates to the model were completed, the model was checked for calibration against the field measurement of distribution system pressures which were collected at certain key locations using electronic data loggers. The correlation of the field recorded pressures with the hydraulic model results were found to be less accurate than the normally expected standards of calibration, which are generally less than 10 psi (+/- 5 psi) deviation from field measurements. These deviations can be the result of several sources including inaccuracies of: elevation information, demand information, and pipeline information. Since CTI did not prepare the original hydraulic model, we are uncertain of the source of the inaccuracies; however, it is likely that all three potential sources are contributing factors for this hydraulic model. We know for certain that only a portion of the distribution lines are included in the model. We are uncertain of the method used for allocation of demand and source of ground elevations. However, in our opinion, the

accuracy is adequate for relative comparison of the improvements which are studied.

Results of Hydraulic Analysis

Following the calibration checking of the model discussed above, the model was run for 48 hour Extended Period Simulation(EPS) in order to determine the areas of the Citico Pressure Zone distribution lines where the worst loss of head (energy) are occurring due to friction loss. The supply to Signal Mountain was modified such that service was thru the Citico Pressure Zone; and not thru the Hill City Pressure Zone. Individual lines where the greatest losses are occurring were identified and tabulated. New, larger lines were inserted into the hydraulic model in order to determine the improvement of pressures in the Citico Zone provided adequate service to the Signal Mountain Pumping Station. Preliminary, "order of magnitude" cost estimates of the lines were prepared in order to determine if the necessary improvements to provide adequate service would meet or exceed the available construction budget of \$900,000. The model results indicate that in order to provide 100 % of the service to Signal Mountain thru the Citico Pressure Zone without re-pumping thru Hill City Booster, the construction cost of the necessary improvements would exceed the budget.

Next, modifications to the rate of supply of water were made in the model in order to determine if operational changes would alter the improvements necessary to the distribution system. It was determined that by reducing the rate of flow to the Signal Mountain Pumping Station to more closely match the actual average daily usage of 1 MGD(700 gpm), the improvements necessary to the Citico system could be reduced. However, even after these modifications, it appears that the total cost of the improvements necessary to provide 100 % of the supply to Signal Mountain without re-pumping thru Hill City Booster Station will exceed the allowed budget. The above results and the order of priority for the improvements to be made were discussed with TAW; and the following is a list and discussion, where applicable about the recommended improvements to the distribution system.

Signal Mountain Pumping Station Improvements

The Town of Signal Mountain owns and operates the pumping station that delivers water from the TAW system to its system. Adjacent to the pumping station Signal Mountain constructed a ground storage tank and a supply control valve which regulates the flow of water from the TAW distribution system. TAW's supply flows thru the control valve into the tank. Signal Mountain pumps from the tank to their distribution system and storage tanks located on top of the mountain. The supply valves are controlled hydraulically by the tank level. The level is maintained within the top three feet. When the control valve is opened, the rate of flow from the TAW system is approximately 1600 gpm based on information from Signal Mountain on the filling rate of the tank. This rate of flow from the TAW system combined with the sudden opening and closing of the control valve causes sudden and significant pressure fluctuations of over 20 psi in TAW's system. Changes in operation of the valve are needed in order to reduce the impact on the TAW system while supplying Signal Mountain. It is recommended that the rate of flow to supply Signal Mountain be reduced closer to the average daily flow of 700 gpm versus the current rate of supply flow of 1600 gpm in order to reduce the impact on the TAW system from pressure fluctuations and also reduce the amount of energy loss due to the higher rate of water flow. This change may require Signal Mountain to modify the operation of its pumping supply tank by allowing the water level in the tank to fluctuate over a much greater range in order to minimize the impact of their supply on TAW. **This modification in control will probably require the replacement of the hydraulic control valve with an electrically operated, remotely controllable valve and the addition of a flow meter, in order to control the supply rate with more precision.** A new reinforced concrete box with aluminum access doors will also be required. This change may also require Signal Mountain to construct additional storage in its system in order to meet its system peak demands. Currently TAW may be assisting Signal Mountain in meeting its peak demand needs.

Pressure Reducing Valve from Hill City to Citico Pressure Zone

The existing pressure reducing valve at Russell Avenue and Signal Mountain Road assists in controlling the

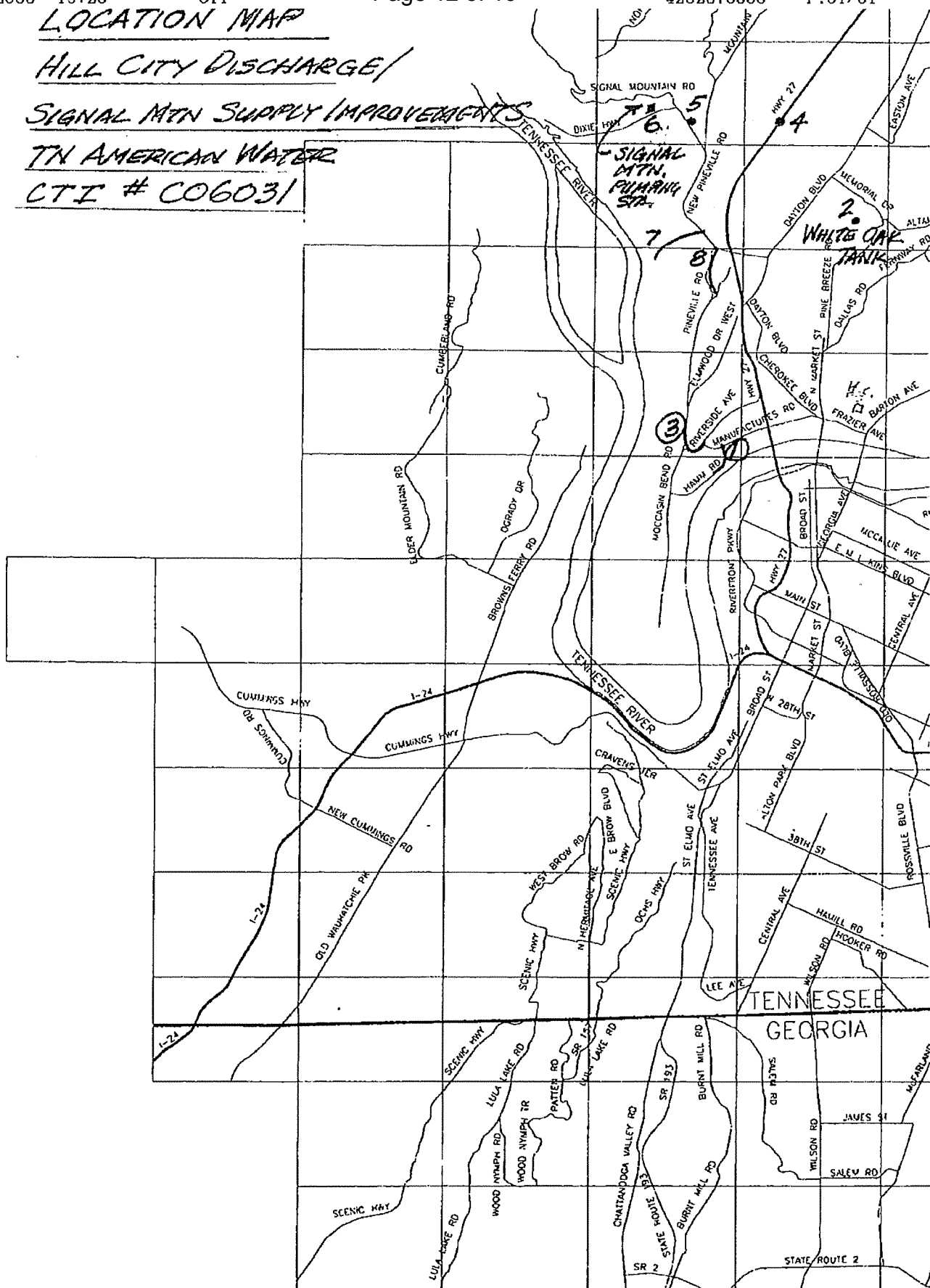
flow of water from the Hill City Zone to the Citico Zone. It is hydraulically controlled and does not have remote control and precision control capability. The replacement of this valve with an electrical actuated, remote controlled valve with the addition of a flow meter and telemetry equipment is recommended for this important control valve. A new reinforced concrete box with aluminum access doors will also be required.

Citico Distribution Line Additions

The following distribution lines additions will contribute to the reduction of system head loss and decrease TAW system pumping costs thereby assisting in achieving the stated objective of this project:

1. Hamm Road – 1140 LF of 12" DIP
2. Riverside Drive – 770 LF of 12" DIP
3. Old Pineville Road – 2,050 LF of 12" DIP
4. Baylor School Drive to Signal Mtn. Road – 2,700 LF of 12" DIP

Hill City Discharge/Signal Mountain Supply Improvements					
16-May-06					
CONSTRUCTION COSTS					
Item No.	Item	Unit	No. Units	Unit Cost	Item Cost
1	Hamm Road Water Line Extension	LF	1,140	\$ 88	\$ 100,000
2	White Oak Tank Allitude Valve	LS	1	\$ 132,600	\$ 132,600
3	Riverside Drive Water Line Extension	LF	770	\$ 80	\$ 61,600
4	Morrison Springs Road Air Release Valve	LS	1	\$ 30,000	\$ 30,000
5	Meter Vault at Russell Ave. & Signal Mtn. Rd. (w/ SCADA)	LS	1	\$ 30,000	\$ 30,000
6	Signal Mtn. Meter Valves & Pit Replacement	LS	1	\$ 57,800	\$ 57,800
7	Baylor School to Signal Mtn. Rd. Water Line Extension	LF	2,740	\$ 100	\$ 274,000
8	Old Pineville Road to Delawanna Terrace Water Line Extension	LF	2,050	\$ 80	\$ 164,000
SUBTOTAL IMPROVEMENTS					\$ 850,000
Construction Contingencies (% +/-)					\$ 0
TOTAL CONSTRUCTION COSTS					\$ 850,000
ENGINEERING COSTS					\$ 100,000
TAW LABOR AND OVERHEAD					\$ 50,000
TOTAL PROJECT COSTS					\$ 1,000,000

LOCATION MAPHILL CITY DISCHARGE/SIGNAL MTN SUPPLY IMPROVEMENTSTN AMERICAN WATERCTI # C06031

2175

2182

2189

2196

2203

2210

2

TOTAL P.01

Tennessee-AMERICAN WATER COMPANY
Chattanooga
Hill City Discarge / Signal Mountain supply
IP

Detailed Cost Estimate

JDE Code	Description of Activity		Estimate
TRE	Transferred Expenditures		
PRE	Preliminary Engineering		\$25,000
DES	Detailed Design, Bidding & Contract Award		\$65,000
PER	Permits & Approvals		\$3,000
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		\$35,000
LND	Land, Land Rights & Asset Acquisition		
ACQ	Utility Asset Acquisition		
Acct #	<u>UTILITY PLANT CONSTRUCTION</u>		
331	Transmission & Distribution Mains		\$770,000
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
10%	Contingency (on construction costs only)		\$77,000
2%	Capitalized Clearing (based on rate stated to left)		\$20,000
	Total Activity Cost		\$995,000
3.50%	AFUDC (based on annualized rate stated to left)		\$5,000
	Total Project Cost to be Authorized		\$1,000,000
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			
2006			95,000
2007			
2008			
2009			
2010			
2011			
SUB-TOTAL			\$95,000
	<i>Prorated AFUDC</i>		
TOTAL			\$95,000
	<u>Implementation Costs</u>		
Priors			
2006			900,000
2007			
2008			
2009			
2010			
2011			
SUB-TOTAL			\$900,000
	<i>Prorated AFUDC</i>		\$5,000
TOTAL			\$905,000
<u>Total Project Cost</u>			\$1,000,000

2006

Hill City Signal MTn. Investment Project Analysis -TN revised 4.05.05.XLS

TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
Hill City Discarge / Signal Mountain supply
IP 0

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$1,000,000	
Financing (based on above cost of capital)	\$111,363	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	22,089	2.21%
Property Tax (applies to land & structures accounts only)	0	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	(75,000)	
Total Additional New Revenue Required to Support Project	\$58,452	
Projected 2005 Revenues	\$33,359,412	
Required Price Increase	0.175%	

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666

Company: 26-Tennessee American Water Co	District: 2602-TII-Chattanooga
FP Description: 5933 lf of 20" Ringgold Rd. at I-76	FP Number: IP-2602-4

A1. Document Prepared By

Budget - 1	Taylor, Randal D.
------------	-------------------

A1b. Asset Owner

OR

A1c. IT Sponsor

Budget - 1	Bishop, Monty L.	
------------	------------------	--

A2a. Project Recommended via CPS?

Budget - 1	yes
------------	-----

A2b. CPS Project Number

A2c. Year CPS Completed

Budget - 1	B-1	2000
------------	-----	------

A3. Problem or Opportunity

Budget - 1	Recurring droughts in northern Georgia prompted CCUD to request renegotiation of the existing bulk water sales agreement. Sales will increase from 1.674mgd to 2.6 mgd. A related problem is low pressure and tank fill problems at the Jenkins Rd tank
------------	---

A4. Recommended Solution

Budget - 1	CTI Engineering was secured to conduct a study of supplying water to CCUD (attached). The study recommended the installation of approx. 5,933 lf of minimum 20" south of Ringgold Rd under I-75 to Scruggs Road to meet CCUD's immediate need of 2.6mgd
------------	---

A5. Measurable Benefits

Budget - 1	Current engineering study by Consolidated Technology Inc. (CTI) on Catoosa Service Improvements indicated the recommended solution will increase CUD current ave. usage from 1.674mgd to 2.6mgd at Scruggs as well as increase pressures from 40psi to 76psi.
------------	---

A6a. Schedule

	Est Start	Est Impl	Est In Service	Est Complete	Critical Date
Budget - 1	1/1/2008	12/31/2008 00:00	12/31/2008	12/31/2008	12/31/2008 00:00

A6b. Critical Date Explanation

Budget - 1	CCUD is currently restricting water usage due to the drought in Georgia.
------------	--

A7. Project Cost and VOW Forecast**Expenditure Type****Task**

Budget - 1	Estimate Revision: 1							
	<u>Proj Total</u>	<u>Prev Total</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
Additions								
2-Preliminary (FP)	211,200	0	0	0	211,200	0	0	0
3-Implementation (FP)	1,732,800	0	0	0	1,732,800	0	0	0
AFUDC	40,970	0	0	0	40,970	0	0	0
Overheads	299,376	0	0	0	299,376	0	0	0
Total:	2,284,346	0	0	0	2,284,346	0	0	0

A8. Schedule and Cost Discussion

Budget - 1	The cost was based on preliminary figures from CWT's study. Schedule and cost are based on preliminary assumptions about easement acquisitions and creek crossing permits.
------------	--

A9. Rate Impact (%)

Budget - 1	1.64
------------	------

A10. Asset and Purpose Codes

Stage	Asset Code	Purpose Code	Percentage
Budget - 1	WTR4. Distribution (main, hyd, vlv)	2. Capacity to Meet Growth	70
Budget - 1	WTR4. Distribution (main, hyd, vlv)	4. Reliability & Quality of Service	30
		Total for Stage	100

B1. Project Manager

Budget - 1	Taylor, Randal D.
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B2. Background

Budget - 1	TAW distribution system consists of 27 pressure zones and a number of interconnections to surrounding utility districts. The proposed transmission main project is located in the East-Ridge zone and will supply more water to Catoosa County Utility District at Scruggs Road on the Georgia state line. Currently TAW supplies approximately 1.674mgd average demand @ Scruggs. The Scruggs road interconnection is currently supplied by an 8" main in Ringgold Rd. and another 8" (8" is being replaced by a 12") in Frayley road. The existing 8" main will remain in service under I-75 and an alternate route will be investigated further to determine if easements can be obtained for the proposed 20" waterline to meet CUD demand of 2.6mgd total @ Scruggs Rd. TA desired distribution of CUD demand includes 2.6mgd @ Scruggs, 1mgd @ Lakeview Rd and 1mgd @ Chickamauga Ave. to meet their 6mgd total in 3yrs. As part of the study, CWT also recommended other improvements in the East Ridge pressure zone to be able to meet CUD total demand of 6mgd dubbed Phase 1 in the report. (See attachments for the study report). This recommended improvement will be capable of providing the needed demand and pressures for future population growth within the environs of Catoosa County as well as a potential for providing service to other parts of northern Georgia.
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B3. Recommended Project Details

Budget - 1 The recommended solution is one of the two recommended improvements by CTI in increasing the supply of water to Catoosa from 1.674mgd to 2.6mgd immediately and approximately 6mgd total within the next 3 years. Details of the recommended solution includes determining an alternate route for the proposed 20" waterline, crossing of I-76 by bore and jack in a 24" or 36 casing, crossing Chickamauga Creek by directional boring, related easements acquisition and permitting.

B4. Project Delivery Risks

Budget - 1 Permitting issues from TDOT for crossing interstate ramps, Army Corps/TVA permits for crossing creeks can impact the project. However, this can be mitigated by selecting a route that will pose less conflicts to TDOT structures. Easement acquisition can be a risk factor depending on negotiations with specific property owners.

B5. Investigated Options

Budget - 1 A 18 inch main was modelled but determined to be too small to meet the demands.

B6a. Entire Facility Retirements

Stage	Qty	Type of Facility
Budget - 1	0	Buildings
	0	Interconnections
	0	Land
	0	Mains (feet)
	0	Metering/Control Stations
	0	Pumping/Lift Stations
	0	Reservoirs/Dams
	0	Storage Tanks
	0	Surface Water Intakes
	0	Treatment Plants
	0	Trucks/Vehicles
	0	Wells/Springs

B6b. Partial Facility Retirements

Budget - 1 N/A

B7. Preliminary Deliverables

Budget - 1 Drawings, Specifications, Contractor bids, Permits

B8. Implementation Delivery Method

Budget - 1 Conventional Design-Bid-Build

B9a. Prelim Resources: Internal

Budget - 1 Project Manager

B9b. Prelim Resources: External

Budget - 1 Design engineering firms, surveyors , property appraiser

B9c. Impl Resources: Internal

Budget - 1 Project Manager

B9d. Impl Resources: External

Budget - 1 Design engineers, RPR services, pipe an fittings vendors, construction contractors, etc.

B10a. Year-1 OpEx Costs-Fuel/Power

Budget - 1 N/A

B10b. O&M Salary & Wages

N/A

B10c. Purchased Water

Budget - 1 N/A

B10d. Waste Disposal

N/A

B10e. Chemicals

Budget - 1 N/A

B10f. Other

N/A

B11. Priority Ranking

Budget - 1 Project No: 26 Out of: 31 (Prior to Drought of 2007)

Tennessee-AMERICAN WATER COMPANY
Chattanooga
5933lf 20 line from Ringgold Under I-75 Scrug
IP 2602-4
Detailed Cost Estimate

JDE Code	Description of Activity	Estimate
TRE	Transferred Expenditures	
PRE	Preliminary Engineering	
DES	Detailed Design, Bidding & Contract Award	\$110,000
PER	Permits & Approvals	\$11,000
CPR	Community/Public Relations Efforts	
UCA	Utility Commission Approvals	
CME	Construction Management	\$35,000
LND	Land, Land Rights & Asset Acquisition	\$71,000
ACQ	Utility Asset Acquisition	
Acct #	UTILITY PLANT CONSTRUCTION	
331	Transmission & Distribution Mains	\$1,588,115
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
	#N/A	
10%	Contingency (on construction costs only)	\$158,812
15%	Capitalized Clearing (based on rate stated to left)	\$296,089
	Total Activity Cost	\$2,270,015
4.50%	AFUDC (based on annualized rate stated to left)	\$13,940
	Total Project Cost to be Authorized	\$2,283,956
	Cost of Removals	

	<u>Preliminary Costs</u>		
Priors			
2008			220,800
2009			
2010			
2011			
2012			
2013			
SUB-TOTAL			\$220,800
	<i>Prorated AFUDC</i>		\$1,000
TOTAL			\$221,800
	<u>Implementation Costs</u>		
Priors			
2008			2,049,215
2009			
2010			
2011			
2012			
2013			
SUB-TOTAL			\$2,049,215
	<i>Prorated AFUDC</i>		\$12,940
TOTAL			\$2,062,156
<u>Total Project Cost</u>			\$2,283,956

**CATOOSA UTILITY DISTRICT
SERVICE IMPROVEMENT STUDY**

Tennessee American Water



Prepared by:

CONSOLIDATED TECHNOLOGIES, INC.
Engineers in Water and Earth Sciences
Chattanooga, Tennessee
CTI Project No. C05009-12

October 2007

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BACKGROUND

The following information was obtained from the Owner's RFP for the project:

The Catoosa County Water District approached Tennessee American Water (TAW) about entering into a bulk water sales agreement, which will increase their demand from their current purchase amount from TAW. Historically, Catoosa Co. has purchased an annual average of approximately 0.80 MGD. Recently per Catoosa Co.'s request for an increase in supply, TAW began to sell approximately 2.5 MGD to Catoosa Co, which they observe is their current maximum capacity. The requested additional demands are for up to 5 mgd within 3 years, up to 7 mgd within 7-10 years, and ultimately 10 MGD beyond 10 years. Prior to supplying additional service to Catoosa County, it is necessary to evaluate TAW's current capacity.

SCOPE OF STUDY

The following items were evaluated utilizing the hydraulic model developed by CTI for TAW to confirm that the Citico high service pumps and the distribution system have sufficient capacity to meet the increased demands:

- High Service Capacity at Citico WTP
- Distribution System Capacity
 - Identify affected pressure zones.
 - Identify Booster Stations that contribute to supply to Catoosa.
 - Identify Booster Stations that are affected on suction side by additional demand.
 - Evaluate system capacity to Catoosa County.
 - Evaluate benefits of additional storage as part of an economical solution for meeting supply needs.
 - Determine improvements required to meet the Catoosa UD demand and system demand (see section entitled "Demand Rates").

TAW requested that the following potential improvements be considered, along with other cost-effective solutions, to provide more capacity for Catoosa County:

- Increase pumping operations at existing Citico, New York booster, and East Ridge booster.
- Increase capacity and expand East Ridge booster station.
- Increase capacity and expand New York booster station.
- Connect 12-inch segments along Ringgold Road, Frawley Road, and Gunbarrel Road with 16-inch or larger.
- Provide new large main to route from East Ridge booster to Scruggs Road meter location.
- Provide new large main to route from East Ridge booster to Rossville booster to Chickamauga Avenue meter location.
- Provide storage tank near Catoosa County.

TAW provided the following guidelines governing the modeling for all demand scenarios:

- The model developed for the IDSE requirements shall be used as a basis for these simulations.
- Base demands within the model shall be increased by a global demand factor to account for the maximum day demand in August 2006, and this maximum day shall be used for all scenarios.
- EPS simulations shall be conducted for each demand scenario to assess tank fluctuation and system pressures.
- Compare tank behaviors, specifically in Missionary Ridge, East Ridge, Rossville, and Ryall Springs pressure zones including the new Jenkins Road tank.
- Compare booster station behaviors in Missionary Ridge, East Ridge, Rossville, and Ryall Springs pressure zones.
- Compare Max/Min pressures in Missionary Ridge, East Ridge, Rossville, and Ryall Springs pressure zones.
- Check Min pressures at pressure-sensitive areas such as: Beulah Dr near Camp Jordan, Roselawn Dr, Skyline Dr at Igou Gap Rd, and Ryall Springs Booster suction.

- Minimum pressures to be maintained at the Catoosa Co connection points are the following: ⁷⁶40 psi at Scruggs Rd, 70 psi at Ringgold Rd and 100 psi at Lakeview Dr.
- Check fire flow capacity in lowest pressure areas.

Demand rates (discussed below) were used in the hydraulic model in order to determine the improvements to the TAW system needed to achieve the desired level of service. The necessary improvements were identified and prioritized, and an opinion of project cost for these measures was then prepared. Phase 1 improvements are needed immediately to meet Catoosa's demand of 4.5 mgd. Phase 2 will be needed when Catoosa's demand approaches 6 mgd (approximately 2009) and Phase 3 improvements are expected when Catoosa's demand reaches 9.0 mgd (~2012).

CUSTOMER DEMAND RATES UTILIZED IN STUDY

The following demand rates served as the basis of the hydraulic analyses performed for this study. These rates were developed from the TAW "Request for Proposal" and from discussions (email, phone conversations, etc.) with TAW personnel.

Phase 1 (Immediate Catoosa demand = 4.5 MGD):

TAW total system demand = 54.826 MGD:

This demand number is based on a 2007 TAW peak demand of 52.0 mgd, which includes the 1.674 mgd actually used at Catoosa in 2007, plus the additional amount needed to achieve a desired total Catoosa demand of 4.5 mgd ($52.0 + (4.5 - 1.674) = 54.826$ mgd). The desired distribution of Catoosa's demand is: ^{current max-day demand}

1. 2.5 mgd at Scruggs Road at 76 psi
2. 1.0 mgd at Lakeview Road
3. 1.0 mgd at Chickamauga (Cloud Springs)

Phase 2 (2009 Catoosa demand = 6.0 mgd):

TAW total system demand = ^{polygraph}56.17 + ^{new day to Catoosa}(6.0 - 1.0) = 61.17 mgd. 1.0 MGD Catoosa UD demand was apparently used in previous TAW planning studies and is, therefore, used in this study. The desired distribution of Catoosa's demand is:

1. 4.0 mgd at Scruggs Road at 76 psi

2. 1.0 mgd at Lakeview Road
3. 1.0 mgd at Chickamauga (Cloud Springs)

Phase 3 (2012 Catoosa demand = 9.0 mgd):

2010 - 56.17

TAW base demand = 56.72 + (9-1.0) = 64.72 mgd

2015 - 57

The desired distribution of Catoosa demand is:

1. 7.0 mgd at Scruggs Road at 76 psi
2. 1.0 mgd at Lakeview Road
3. 1.0 mgd at Chickamauga (Cloud Springs)

Determination of Demand by Phase in the TAW System and East Ridge Pressure Zone

The baseline demand in the model which was developed by CTI for TAW for use in EPA IDSE compliance was 43.0 mgd, which was the average total TAW demand in August 2006. In order to utilize the hydraulic model and the projected demands, it was necessary to expand the desired demands from the baseline demand used in the hydraulic model by developing a "global factor for demand adjustment" for each demand phase (see Table 1). The average demand in each major pressure zone during August 2006, including the East Ridge zone, is shown in Table 2. The demand in the East Ridge zone was projected by using the global factor for demand adjustment calculated for the entire TAW system, and then multiplying that factor by the average East Ridge demand in the model. Lastly, the additional planning demand for Catoosa UD was added, as shown in Table 1.

These calculations were useful in checking the model to verify that the desired demand was input into the model while verifying the performance of the various improvements. It should be noted, however, that the global factors are approximate and provide only a starting place for adjustment to obtain more exact results.

TABLE 1

**TAW Catoosa Utility District Service Improvements Study
East Ridge Pressure Zone Demand Calculations**

Approximate Global Factor Calculation for Hydraulic Model for Total System Demand

	TAW Base Demand* (mgd)	Global Factor for Demand Adjustment	
Average Demand in August 2006	43.000	1.000	
Phase 1 Demand: Peak Day in 2007	52.000	1.209	
Phase 2 Demand: Peak Day in 2009	56.170	1.306	
Phase 3 Demand: Peak Day in 2012	56.720	1.319	(AWWA)

* Not including additional Catoosa UD demand

East Ridge Pressure Zone Demand Calculations

	Base ER Demand	Base Catoosa Demand (mgd)	* Global Factor for Demand Adjustment	East Ridge PZ Demand (mgd)	Additional Catoosa Demand (mgd)	Total ER Demand (mgd)
Average Demand in August 2006	12.000	1.000	1.000	12.000	0.000	12.000
Phase 1 Demand: Peak Day in 2007	12.000	1.674	1.209	14.512	<u>2.826</u>	17.338
Phase 2 Demand: Peak Day in 2009	12.000	1.000	1.306	15.675	5.000	20.675
Phase 3 Demand: Peak Day in 2012	12.000	1.000	1.319	<u>15.829</u>	8.000	23.829

Table 2
Tennessee American Water
Total Demand by Day and Pressure Zone

Date	East Ridge Demand	Elber Mtn Demand	Lookout Mtn Demand	Missionary Ridge Demand	Rossville Demand	Ryals Springs Demand	St. Elmo Demand	Total Demand or Calculated Zones	Chico
8/1/2006	12.41	0.12	1.61	2.75	0.17	0.34	0.86	18.27	
8/2/2006	12.43	0.11	1.04	2.82	0.14	0.35	1.14	18.02	
8/3/2006	12.57	0.09	1.23	2.85	0.20	0.39	1.62	18.94	
8/4/2006	12.15	0.12	1.18	2.73	0.16	0.33	1.16	17.83	
8/5/2006	11.37	0.06	1.32	2.68	0.18	0.29	0.36	16.25	
8/6/2006	11.71	0.07	0.90	2.74	0.19	0.31	1.03	16.96	
8/7/2006	12.77	0.11	1.25	2.71	0.23	0.35	1.25	18.57	
8/8/2006	12.20	0.11	1.37	2.74	0.24	0.32	1.04	18.01	
8/9/2006	11.96	0.12	1.11	2.77	0.18	0.31	1.40	17.86	
8/10/2006	11.78	0.08	1.14	2.83	0.16	0.28	1.13	17.41	
8/11/2006	11.16	0.07	0.96	2.65	0.14	0.25	1.05	16.28	
8/12/2006	11.28	0.06	1.07	3.13	0.14	0.23	0.72	16.63	
8/13/2006	11.13	0.07	1.11	2.81	0.11	0.25	0.79	16.27	
8/14/2006	11.79	0.10	1.25	2.73	0.17	0.28	1.05	17.37	
8/15/2006	11.37	0.08	1.15	2.72	0.16	0.27	1.05	16.80	
8/16/2006	11.98	0.11	1.32	2.70	0.18	0.31	0.88	17.48	
8/17/2006	12.49	0.12	1.27	2.54	0.18	0.30	1.30	18.19	
8/18/2006	12.77	0.13	1.14	2.84	0.21	0.29	1.61	19.00	26.48
8/19/2006	12.40	0.12	1.43	2.95	0.21	0.31	0.99	18.42	
8/20/2006	11.83	0.11	0.92	2.81	0.17	0.28	0.95	17.08	
8/21/2006	12.03	0.08	1.10	2.71	0.18	0.24	0.85	17.17	24.58
8/22/2006	11.98	0.06	1.02	2.69	0.17	0.24	1.20	17.37	
8/23/2006	11.91	0.07	1.13	2.78	0.17	0.26	0.69	17.01	
8/24/2006	11.96	0.07	1.14	2.90	0.15	0.28	0.91	17.41	
8/25/2006	12.88	0.09	1.13	2.76	0.15	0.30	0.99	18.32	
8/26/2006	12.23	0.09	1.11	2.99	0.20	0.32	1.15	18.04	
8/27/2006	12.65	0.09	1.26	2.96	0.14	0.33	1.06	18.49	26.65
8/28/2006	12.06	0.09	0.98	2.73	0.14	0.29	1.29	17.57	
8/29/2006	11.73	0.07	1.06	2.64	0.14	0.26	0.71	16.61	
8/30/2006	11.77	0.09	1.11	2.71	0.13	0.24	0.81	16.86	
8/31/2006	11.40	0.09	1.13	2.71	0.11	0.24	0.86	16.53	
Average	12.00	0.09	1.16	2.78	0.17	0.29	1.03	17.52	

STATIC AND RESIDUAL PRESSURE TESTING

Concurrent with the development of the desired demands and global factors to be used in the model, testing of static and residual pressures was performed in the TAW system near the key Catoosa UD meters on Scruggs Road where most of the future Catoosa demand is desired. Three locations were selected for testing:

1. Ringgold Road and Scruggs Road intersection.
2. Ringgold Road and Mack Smith Road intersection.
3. Brainerd Road near the East Brainerd Road intersection.

Fire flow testing was performed by TAW and CTI personnel. Additionally, electronic pressure recorders were placed at key locations in the general vicinity of the fire flow tests in order to verify that the static and residual pressures recorded in those areas were similar to results predicted by the hydraulic model. In general, the results found were reasonably close to those predicted by the model, when taking into account that system demands, tank levels, and operational conditions had to be adjusted for the actual conditions found in the TAW system on that day. Therefore, no additional calibration of the model was necessary for purposes of this report. The results of the testing are provided in Appendix C.

RECENT OR CURRENTLY PROPOSED PIPING IMPROVEMENTS

Based on instructions by TAW personnel, the following distribution piping improvements which were recently installed or will soon be installed were assumed to be in place for the purposes of this study:

1. Frawley Road - 12-inch DIP from Ringgold Road to Martha Avenue.
2. Tyner Road - 16-inch DIP from Lee Highway to existing 16-inch in Hickory Valley Road.
3. East Brainerd Road - 16-inch DIP from Brainerd Road to Vance Road.

STUDY FINDINGS

Following the development of the desired demands and global factors to be used in the model and verification of the suitability of the model for the study, the model was run under numerous scenarios in order to determine what improvements to the TAW system, particularly distribution lines, pumps, and tanks, are needed in order to achieve the previously stated goals.

The spreadsheet found in Appendix B entitled "Comparison of Performance of Improvements Projects for Various Demands" lists the findings of 19 different scenarios of various system

demands and system improvements that were studied in order to determine recommendations for each phase. In addition to the results listed in the spreadsheet, another 20+ scenarios were examined, in which details were varied such as piping configurations, pump controls, tank levels, which pumps were operating, and for how long, etc. The results of the scenario configurations which did not provide satisfactory (or at least marginal) service were not reported.

Results of the study include the following:

General Findings

1. The most significant finding is the importance of the difference in the operating HGL of the East Ridge Pump Station (ER PS) and Reservoir compared to that of the New York Avenue Pumping Station (NY PS). The NY PS appears to be operating at a 54-foot higher HGL with the ER PS on, versus a 72-foot higher HGL with the ER PS off.
2. In our opinion, this difference in HGL is causing an underutilization of the ER PS and the 16-inch line that ties the station into a 12-inch line in Brainerd Road.
3. The fact that the ER PS is operating based on the ER Reservoir levels affects utilization of the ER pumps as well. 12, 24, 36
fix it either
or not. Caloosa
comes in
4. The HGL difference between the ER PS and NY PS explains why NY PS is not only attempting to fill the Jenkins Road tank, but also supply water to Caloosa Utility District. In other words, the HGL of the East Ridge pressure zone slopes from north to south.
5. According to SCADA and hydraulic model information, the NY PS currently pumps approximately 57 percent of the flow to the East Ridge pressure zone, while East Ridge pumps approximately 43 percent of the flow. However, the NY PS has three pumps rated at 3.0, 4.0, and 6.0 mgd, for a total rated capacity (not considering redundancy) of 13.1 mgd, whereas ER PS has four pumps rated at 3.0, 4.3, 4.5, and 4.5 mgd for a total rated capacity of 16.4 mgd. Theoretically ER PS should be pumping 55.6 percent of the flow and NY PS should be pumping 44.4 percent of the flow. Therefore, the current utilization of these two stations is almost exactly reversed from what it should be. It is recommended that the ER PS be upgraded to provide more flow at a higher HGL, which will also better balance the distribution of water in this pressure zone.

6. Very early in the study, it became evident that in order to deliver higher flows to the Catoosa UD Scruggs Road meters, the distribution lines following Ringgold Road would need to be significantly upgraded. Phase 3 demand rates indicate that a 20-inch DIP line will be necessary, although for the purpose of meeting the Phase 1 demand, a 16-inch DIP across I-75 from Ringgold Road to Scruggs Road would be sufficient. It would be logical to size the line for the Phase 3 demands by installing a parallel 20-inch line from near the East Ridge pumping station to the Scruggs Road meter box.
7. The average demand for the East Ridge pressure zone in August 2006 was 12.0 mgd, while the future projected demand for this zone is 23.8 mgd with the additional Catoosa UD demand. The current average storage in the zone, including the East Ridge Reservoir, East Brainerd, and Jenkins Road, is only 2.8 mg; and the Jenkins Road storage is not currently being fully utilized.

Additional storage is needed for stabilizing pressures in certain parts of the zone:

- a. Current East Ridge Reservoir Site - 2 mg ground storage.
- b. Current East Brainerd Tank Site - 2 mg ground storage plus new pumping station.
- c. Beulah Road Area of East Ridge - 2 mg tank.

All three storage projects improved the consistency of service (pressure), but were not found to be essential to providing the minimum demand in each phase. The elevated tank had difficulty filling and being useful until all of the recommended distribution line improvements and the upgrade of the East Ridge pumping station were in place. Several overflow elevations for the elevated tank were examined; it finally performed satisfactorily at an overflow elevation equal to that of the Jenkins Road tank. The Jenkins Road tank began to perform adequately with the upgrade of the East Ridge pumping station.

8. New York Pumping Station - If the ER PS is upgraded as recommended, then no improvements to the NY PS will be required to achieve the goals of this study.
9. Citico High Service Pumping - The Citico WTP high service pumps were a very important consideration during this study. The pumps required to supply the total TAW system demand in each phase of the study were closely monitored and adjusted as needed. Following is a list of the existing high service pumps at Citico WTP.

Pump No.	Capacity (gpm)	Capacity (mgd)
11	14,236	20.48
16	9,028	13.00
17	9,028	13.00
18	5,972	8.59
19	5,972	8.59
20	3,888	5.59
21	10,000	14.39

The pumps currently used on an average day are Nos. 11, 16, 19. The same pumps plus No. 20 are used on peak days.

- Pumps Required for Phase 1 Demand: 11, 16, 19, and 20, all running continuously.
- Pumps Required for Phase 2 Demand: 11, 16, 17, 19, 21 running continuously, plus No. 20 running on Mission Ridge Tank controls.
- Pumps Required for Phase 3 Demand: 11, 16, 17, 19, 20, 21, all running continuously.

For reliability purposes, it is recommended that some of the smaller pumps be replaced with larger ones with VFD's at about the time that the Phase 2 demand is needed.

10. The scope for this study included the evaluation of the system's ability to provide fire flow for each phase of demand. The following results were obtained when the recommended improvements were included in the model:

Fire Flow Results - Phase 1: Using 500 gpm

@ Skyline ~ 41.6 psi static, 33.6 psi residual

@ Ryall Springs Suction ~ 55.1 psi static, 40.0 psi residual (with pump on @ Ryall Springs)

@ Roselawn/Marjion ~ 46.2 psi/38.3 psi static, 40.5 psi/30.3 psi residual

@ Beulah ~ 37.0 psi static, 23.3 psi residual

Fire Flow Results - Phase 2: Using 500 gpm

- @ Skyline -- 39.2 psi static, 33.4 psi residual
- @ Ryall Springs Suction -- 52.5 psi static, 39.2 psi residual (with pump on @ Ryall Springs)
- @ Roselawn/Marijon -- 40.1 psi/31.6 psi static, 38.3 psi/27.3 psi residual
- @ Beulah -- 37.6 psi static, 26.0 psi residual

Fire Flow Results - Phase 3: Using 500 gpm

- @ Skyline -- 43.5 psi static, 38.5 psi residual
- @ Ryall Springs Suction -- 59.1 psi static, 46.0 psi residual (with pump on)
- @ Roselawn/Marijon -- 41.1 psi/32.2 psi static, 39.5 psi/28.1 psi residual (with fire flow at Marijon)
- @ Beulah -- 57.9 psi static, 52.0 psi residual

The following is a summary list of improvement projects considered in this study

(Note: The priority of the improvements is not as listed below)

Project No.	Description	Construction Cost	Project Cost
1	New Line from Ringgold Road to Scruggs Road Meter 5,933 feet of 20-inch DIP	\$1,520,000	\$1,760,000
2	New Line from Brainerd Road to Frawley Road 12,345 feet of 20-inch DIP	\$2,250,000	\$2,540,000
3	New Line from Upper Ringgold Road to McBrien Road 14,250 feet of 20-inch DIP 2,027 feet of 16-inch DIP 560 feet of 12-inch DIP	\$2,630,000	\$2,940,000
4	New Ground Storage Tank and Pumping Station at East Brainerd Site 2-MG tank, new prefab pump station	\$1,980,000	\$2,270,000
5	New Ground Storage Reservoir at East Ridge Reservoir Site 2-MG tank, retaining wall, road on existing TAW site	\$1,470,000	\$1,650,000
6	New Line at Ringgold Road from McBrien Road to McDonald Road 8,650 feet of 20-inch DIP	\$1,580,000	\$1,810,000
7	East Ridge Reservoir Allitude Valve (If Project is Done Separately from New Tank)	\$170,000	\$220,000

8	New Elevated Storage Tank in East Ridge 2.0-MG elevated tank	\$3,260,000	\$3,620,000
9	East Ridge Pump Station Upgrade 2,900 feet of 20-inch DIP	\$720,000	\$820,000

RECOMMENDATIONS

Recommendations are listed below in order of priority:

Phase 1

1. The improvements that should be considered first are the installation of an altitude valve at the East Ridge Reservoir (\$220,000, see Opinion of Costs in Appendix A) and the revision of controls for the ER PS. Controls should be changed to pressure switches with Citico WTP operator override capability. The model shows that these improvements provide only a minor increase in pressure (6 psi) near the Scruggs Road meter under average demands; however, in our opinion, they are important for delivering additional flow from the ER PS when demand is higher. With this improvement, model shows that the new Jenkins Road tank begins to be utilized. This indicates that the ER PS is also starting to send some flow toward Hamilton Place.
2. The second most important improvement, in our opinion, is the 16- or 20-inch line from Ringgold Road across I-75 to the Scruggs Road meter (\$1,400,000 for 16 inches or \$1,690,000 for 20 inches, see Opinion of Costs). Although a 16-inch DIP for this project provides adequate service for Phase 1, a 20-inch DIP is needed to supply Phase 3. Therefore, the 20-inch is recommended. This line alone should increase the pressure at the Scruggs Road meter by over 40 psi at a 2.5-mgd flow rate to that metering station.

Phase 2

1. Upgrade East Ridge Pumping Station with three larger pumps and VFD's. Install a 20-inch line to connect an existing 20-inch line and the East Ridge Reservoir. This project greatly improves the overall operation of the East Ridge pressure zone. The opinion of cost is \$720,000 for construction and \$820,000 for the total project. Additional costs for the pump station upgrade will likely be required, including a building extension and electrical service upgrade.

More information about the existing pump station is required to provide a more complete opinion of cost for this project.

2. Install a new 20-inch DIP (14,250 feet) from the East Ridge Reservoir to McBrien Road. Install 16-inch and 12-inch DIP on side streets to improve overall distribution.

Phase 3

1. Install a new 20-inch DIP from McBrien Road to McDonald Drive to complete the 20-inch line from the East Ridge Reservoir to the Scruggs Road meters. This project reduces the pipe friction energy loss sufficiently to provide the additional demand required.

The following is a summary of the recommended improvements by phase.

Project No.	Description	Construction Cost	Project Cost
First Demand Phase: TAW Total Demand: 54.826 MGD, Catoosa UD Demand: 4.5 MGD			
1	New Line from Ringgold Road to Scruggs Road Meter 5,933 feet of 20-inch DIP	\$1,520,000	\$1,760,000
7	East Ridge Reservoir Altitude Valve (If Project is Done Separately from New Tank)	\$170,000	\$220,000
Second Demand Phase: TAW Total Demand: 61.17 MGD, Catoosa UD Demand: 6.0 MGD			
3	New Line from Upper Ringgold Road to McBrien Road 14,250 feet of 20-inch DIP 2,027 feet of 16-inch DIP 560 feet of 12-inch DIP	\$2,630,000	\$2,940,000
9	East Ridge Pump Station Upgrade (Pumps and VFD's only); plus 2900 feet of 20-inch DIP to E. Ridge Reservoir	\$720,000	\$820,000
Third Demand Phase: TAW Total Demand: 64.72 MGD, Catoosa UD Demand: 9.0 MGD			
6	New Line at Ringgold Road from McBrien Road to McDonald Road	\$1,580,000	\$1,810,000

APPENDIX A

Opinion of Cost

OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF SERVICE TO CATOOSA UTILITY DISTRICT NEW LINE FROM RINGGOLD ROAD TO SCRUGGS ROAD METER					
Item No.	Description	Unit	No. of Units	Unit Price	Item Total
	Mobilization and Bonding	LS	1	\$2,500.00	\$2,500.00
	Traffic Control	LS	1	\$5,000.00	\$5,000.00
02200a	Crushed Stone Backfill in Trench	LF	540	\$7.65	\$4,131.00
02200d	Final Grading and Cleanup	LF	4,373	\$1.55	\$6,778.15
2270	Temporary Silt Fence	LF	4,373	\$1.50	\$6,559.50
2280	Crossing of West Chickamauga Creek by Directional Bore (20')	LF	350	\$1,094.00	\$382,900.00
02280a	Crossing of West Chickamauga Creek by Directional Bore (16')	LF	350	\$75.00	\$26,250.00
	Installation of 16" DIP in Directional Bore				
02280a	Crossing of Interstate 75 By Bore and Jack (20" Carrier Pipe plus 24" Casing Pipe)	LF	450	\$500.00	\$225,000.00
02280c	Seeding and Mulch	LF	4,373	\$1.10	\$4,810.30
2500	8-Inch Class A Concrete for Roadways	LF	80	\$33.35	\$2,668.00
02500a	4-Inch Type B Modified Asphalt Binder in Driveways	LF	481	\$14.90	\$6,868.90
15082a-20	20-Inch DI Pipe, Pressure Class 350	LF	5,133	\$125.00	\$641,625.00
15082a-16	DI Fittings	LB	2,060	\$2.95	\$8,437.00
15082c	20-Inch DI Pipe Restrained Joints at MJ Fittings	EA	8	\$225.00	\$1,350.00
15082d-20	20-Inch DI Pipe Restrained Joints at Bell Joints	EA	12	\$375.00	\$4,500.00
15082	Connect New 20" to Existing 12"	EA	2	\$16,870.00	\$33,740.00
15101	20-Inch Butterfly Valve, Including Valve Box	EA	4	\$2,893.00	\$11,572.00
15109	Install New Fire Hydrant Assembly	EA	1	\$3,103.30	\$3,103.30
	SUBTOTAL CONSTRUCTION COSTS				\$1,377,793
	CONSTRUCTION CONTINGENCIES (10%)				\$142,207
	TOTAL CONSTRUCTION COSTS				\$1,520,000
OTHER PROJECT COSTS					
	ENGINEERING				
	Design			\$64,798	
	Bid Services			\$9,257	
	Construction Phase Services			\$13,885	
	Record Drawings			\$4,628	
	Engineering Subtotal				\$92,568
	RPR (16 weeks Construction)				\$32,000
	Surveys				\$7,000
	Easements - Drawings & Document Preparation				\$10,000
	Easement Acquisition				\$40,000
	Army Corps/TVA permit				\$3,500
	TDOT Permit				\$2,500
	Storm Water Permit				\$2,500
	Geotechnical Report				\$4,000
	Construction Testing				\$2,000
	SUBTOTAL ENGINEERING				\$196,068
	PLAN REVIEW & ADVERTISEMENTS				\$1,000
	SUBTOTAL PROJECT COSTS				\$1,717,068
	PROJECT CONTINGENCIES (2%)				\$42,932
	TOTAL PROJECT COSTS				\$1,760,000
Source: Consolidated Technologies, Inc.					

OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF SERVICE TO CATOOSA UTILITY DISTRICT NEW LINE FROM BRAINERD ROAD TO FRAWLEY ROAD					
Item No.	Description	Unit	No. of Units	Unit Price	Item Total
	Mobilization and Bonding	LS	1	\$2,500.00	\$2,500.00
	Traffic Control	LS	1	\$5,000.00	\$5,000.00
02200a	Crushed Stone Backfill	LF	788	\$7.05	\$6,028.20
02200d	Final Grading and Cleanup	LF	8,085	\$1.55	\$13,787.25
02270a	Temporary Silt Fence	LF	1,500	\$1.50	\$2,250.00
02270b	Straw Bales	EA	25	\$10.80	\$270.00
02280a	Crossing of S. Chickamauga Creek by Directional Bore(20")	LF	300	\$1,084.00	\$328,200.00
	20" DIP Installed in Directional Bore	LF	300	\$75.00	\$22,500.00
02280c	Crossing of Lee Highway By Bore and Jack(20" Carrier Pipe plus 24" Casing Pipe and Spacers)	LF	160	\$500.00	\$80,000.00
2485	Seeding and Mulch	LF	6,684	\$1.10	\$7,363.40
2485a	Replacement Sod for Brown Acres Golf Course	LF	2,201	\$2.08	\$6,854.68
02500a	8-Inch Class A Concrete for Roadways	LF	100	\$33.35	\$3,335.00
02500a	4-Inch Type B Modified Asphalt Binder in Driveways	LF	688	\$14.90	\$10,251.20
03300b	Class B Concrete	CY	10	\$132.85	\$1,328.50
15062a-16	20-Inch DI Pipe, Pressure Class 350	LF	11,885	\$125.00	\$1,485,625.00
15062b	DI Fittings	LB	3,000	\$2.95	\$8,850.00
15062c-20a	20-Inch DI Pipe Restrained Joints at MJ Fittings	EA	8	\$215.00	\$1,720.00
15062c-16b	20-Inch DI Pipe Restrained Joints at Bell Joints	EA	20	\$375.00	\$7,500.00
15062d-20.16	Connect New 20" to Existing 16"	EA	1	\$18,000.00	\$18,000.00
15062e-12.12	Connect New 20" to Existing 12"	EA	1	\$5,000.00	\$5,000.00
15101a	20-Inch Butterfly Valve	EA	4	\$5,000.00	\$20,000.00
15109a	Install New Fire Hydrant	EA	1	\$3,103.30	\$3,103.30
	SUBTOTAL CONSTRUCTION COSTS				\$2,030,187
	CONSTRUCTION CONTINGENCIES (10%)				\$211,533
	TOTAL CONSTRUCTION COSTS				\$2,250,000
OTHER PROJECT COSTS					
	ENGINEERING				
	Design			\$91,822	
	Bid Services			\$13,117	
	Construction Phase Services			\$19,676	
	Record Drawings			\$8,559	
	Engineering Subtotal				\$131,175
	RPR (16 weeks Construction)				\$32,000
	Surveys				\$10,000
	Easements - Drawings & Document Preparation				\$10,000
	Easements Acquisition				\$40,000
	Army Corp/TVA permit				\$3,500
	TDOT Permit				\$2,500
	Storm Water Permit				\$2,500
	Geotechnical Report				\$4,000
	Construction Testing				\$2,000
	SUBTOTAL ENGINEERING				\$237,675
	PLAN REVIEW & ADVERTISEMENTS				\$1,000
	SUBTOTAL PROJECT COSTS				\$2,488,675
	PROJECT CONTINGENCIES (2%)				\$51,325
	TOTAL PROJECT COSTS				\$2,540,000
Source: Consolidated Technologies Inc.					

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
NEW LINE FROM UPPER RINGGOLD ROAD TO McBRIEN ROAD**

Item No.	Description	Unit	No. of Units	Unit Price	Item Total
	Mobilization and Bonding	LS	1	\$2,500.00	\$2,500.00
	Traffic Control	LS	1	\$47,000.00	\$47,000.00
02200a	Crushed Stone Backfill	LF	8,572	\$7.65	\$65,575.80
02200d	Final Grading and Cleanup	LF	13,078	\$1.55	\$20,270.90
2185	Seeding and Mulch	LF	13,078	\$1.10	\$14,385.80
02500a	8-Inch Class A Concrete for Roadways	LF	1,000	\$33.35	\$33,350.00
02500a	4-Inch Type B Modified Asphalt Binder in Driveways, Parking Lots, and Streets	LF	5,000	\$14.90	\$74,500.00
03300b	Class B Concrete	CY	50	\$132.85	\$6,642.50
15062a-20	20-Inch DI Pipe, Pressure Class 350	LF	14,250	\$125.00	\$1,781,250.00
15062a-16	16-Inch DI Pipe, Pressure Class 350	LF	2,027	\$100.00	\$202,700.00
15062a-12	12-Inch DI Pipe, Pressure Class 350	LF	560	\$41.10	\$23,016.00
15062b	DI Fittings	LB	2,000	\$2.95	\$5,900.00
15062c-20a	20-Inch DI Pipe Restrained Joints	EA	17	\$213.00	\$3,621.00
15062c-12a	12-Inch DI Pipe Restrained Joints	EA	4	\$129.05	\$516.20
15062c-20b	20-Inch DI Pipe Restrained Joints	EA	15	\$375.00	\$5,625.00
15062c-12b	12-Inch DI Pipe Restrained Joints	EA	6	\$225.00	\$1,350.00
15062d-16.16	Connect New 20" to Existing 16", Wet Tap	EA	1	\$13,470.00	\$13,470.00
15062d-16.16	Connect New 20" to Existing 12", Wet Tap	EA	1	\$13,470.00	\$13,470.00
15062d-16.16	Connect New 16" to Existing 16", Wet Tap	EA	1	\$13,470.00	\$13,470.00
15062d-16.12	Connect New 16" to Existing 12", Wet Tap	EA	1	\$13,470.00	\$13,470.00
15062e-16.12	Connect New 16" to Existing 12", Wet Tap	EA	2	\$3,400.00	\$6,800.00
15101a	20-Inch Butterfly Valve	EA	3	\$5,000.00	\$15,000.00
15101a	16-Inch Gate Valve	EA	3	\$4,900.00	\$14,700.00
15101b	12-Inch Gate Valve	EA	2	\$1,845.35	\$3,690.70
15109a	Install New Fire Hydrant Assembly	EA	2	\$3,103.30	\$6,206.60
	SUBTOTAL CONSTRUCTION COSTS				\$2,388,480
	CONSTRUCTION CONTINGENCIES (10%)				\$241,519
	TOTAL CONSTRUCTION COSTS				\$2,630,000
OTHER PROJECT COSTS					
	ENGINEERING				
	Design		\$105,121		
	Bld Services		\$15,017		
	Construction Phase Services		\$22,526		
	Record Drawings		\$7,509		
	Engineering Subtotal			\$150,173	
	APR (16 weeks Construction)			\$32,000	
	Surveys			\$7,000	
	Easements - Drawings & Document Preparation			\$10,000	
	Easements Acquisition			\$40,000	
	TDOT Permit			\$2,500	
	Stormwater Permit			\$2,500	
	Construction Testing			\$1,000	
	SUBTOTAL ENGINEERING				\$245,173
	PLAN REVIEW & ADVERTISEMENTS				\$1,000
	SUBTOTAL PROJECT COSTS				\$2,876,173
	PROJECT CONTINGENCIES (2%)				\$57,523
	TOTAL PROJECT COSTS				\$2,933,696

Source: Consolidated Technologies Inc.

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
NEW GROUND STORAGE TANK AND PUMPING STATION AT EAST BRAINERD SITE**

STORAGE TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1c	2.0-MG Prestressed Concrete Tank and	LS	1	\$755,000.00	\$755,000.00
2	Ductile Iron Piping Installed in Trench	LS	1	\$59,000.00	\$59,000.00
3a	Altitude Valve Box Including Concrete Box, Access	LS	1	\$131,120.00	\$131,120.00
4	Miscellaneous Items	LS	1	\$54,000.00	\$54,000.00
5	Electrical Service	LS	1	\$10,000.00	\$10,000.00
Subtotal Tank Construction Cost					\$1,009,120.00

PUMPING STATION, WATER LINES, AND OTHER ITEMS NEEDED WITH TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
02200a	Crushed Stone Backfill	LF	25	\$15.00	\$375.00
02200b	Crushed Rock or Sand Bedding	CY	50	\$30.00	\$1,500.00
02200c	Final Grading and Cleanup	LF	500	\$1.00	\$500.00
02270a	Temporary Silt Fence	LF	200	\$3.00	\$600.00
02270b	Straw Bales	EA	10	\$6.00	\$60.00
2405	Seeding and Mulch	LF	500	\$0.75	\$375.00
02930a	Riprap	CY	10	\$36.00	\$360.00
3300	Cast-In-Place Concrete	CY	5	\$150.00	\$750.00
11000	Prefab. Booster Pump Station (incl concrete slab)	LS	1	\$600,000.00	\$600,000.00
	Generator for New Pump Station	LS	1	\$160,000.00	\$160,000.00
15062a	Ductile Iron (DI) Fittings	LB	1,000	\$2.00	\$2,000.00
15062b-20	20-Inch DI Pipe (Pressure Class 350)	LF	100	\$100.00	\$10,000.00
15062b-20	20-Inch DI Restrained Joints	EA	10	\$300.00	\$3,000.00
15101a	20-Inch Butterfly Valve	EA	2	\$3,500.00	\$7,000.00
15101b	Air Release Valve	EA	1	\$1,500.00	\$1,500.00
Subtotal Tank Construction Cost					\$708,020.00
SUBTOTAL CONSTRUCTION COSTS					\$1,797,140
CONSTRUCTION CONTINGENCIES (10%)					\$182,860
TOTAL CONSTRUCTION COSTS					\$1,980,000

OTHER PROJECT COSTS

ENGINEERING

Design	\$94,387	
Bld Services	\$11,702	
Construction Phase Services	\$20,226	
Record Drawings	\$6,742	
Engineering Subtotal		\$133,056
RPR (16 weeks Construction)		\$32,000
Surveys		\$10,000
Easements - Drawings & Document Preparation		\$10,000
Easement Acquisition		\$40,000
FAA Permit		\$3,500
Stormwater Permit		\$2,500
Geotechnical Report		\$4,000
Construction Testing		\$4,000

SUBTOTAL ENGINEERING

\$239,056

PLAN REVIEW & ADVERTISEMENTS

\$1,000

SUBTOTAL PROJECT COSTS

\$2,220,056

PROJECT CONTINGENCIES (2%)

\$49,944

TOTAL PROJECT COSTS

\$2,270,000

Source: Consolidated Technologies Inc.

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
NEW GROUND STORAGE RESERVOIR AT EAST RIDGE RESERVOIR SITE**

STORAGE TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1c	2.0-MG Prestressed Concrete Tank and Appurtenances	LS	1	\$755,000.00	\$755,000.00
2	Ductile Iron Piping Installed in Trench	LS	1	\$59,000.00	\$59,000.00
3a	Altitude Valve Box	LS	1	\$131,120.00	\$131,120.00
4	Miscellaneous Items	LS	1	\$144,000.00	\$144,000.00
5	Cast-In-Place Concrete Retaining Wall	LS	1	\$150,000.00	\$150,000.00
6	Electrical Service Allowance	LS	1	\$13,500.00	\$13,500.00
Subtotal Tank Construction Cost					\$1,252,620.00

WATER LINES AND OTHER ITEMS NEEDED WITH TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
02200a	Crushed Stone Backfill in Trench	LF	25	\$15.00	\$375.00
02200b	Crushed Rock or Sand Bedding Material	CY	50	\$30.00	\$1,500.00
02200c	Final Grading and Cleanup	LF	500	\$1.00	\$500.00
02270a	Temporary Silt Fence	LF	200	\$3.00	\$600.00
02270b	Straw Bales	EA	10	\$6.00	\$60.00
2485	Seeding and Mulch	LF	500	\$0.75	\$375.00
02030a	Riprap	CY	10	\$36.00	\$360.00
3300	Cast-In-Place Concrete	CY	5	\$150.00	\$750.00
15062a	Ductile Iron (DI) Fittings	LB	2,000	\$2.00	\$4,000.00
15062b-20	20-Inch DI Pipe (Pressure Class 350)	LF	530	\$100.00	\$53,000.00
15062b-20	20-Inch DI Restrained Joints	EA	10	\$300.00	\$3,000.00
15101a	20-Inch Butterfly Valve	EA	2	\$3,500.00	\$7,000.00
15101b	Air Release Valve	EA	1	\$1,500.00	\$1,500.00
15109	Fire Hydrant Assemblies	EA	1	\$4,000.00	\$4,000.00
Subtotal Tank Construction Cost					\$77,020.00
SUBTOTAL CONSTRUCTION COSTS					\$1,329,640
CONSTRUCTION CONTINGENCIES (10%)					\$140,360
TOTAL CONSTRUCTION COSTS					\$1,470,000

OTHER PROJECT COSTS

ENGINEERING					
Design				\$62,072	
Bid Services				\$0,982	
Construction Phase Services				\$13,473	
Record Drawings				\$4,491	
Engineering Subtotal					\$80,917
RPR (16 weeks Construction)					\$32,000
Surveys					\$5,000
National Park Service Permit					\$3,000
Stormwater Permit					\$2,500
Geotechnical Report					\$4,000
Construction Testing					\$4,000
SUBTOTAL ENGINEERING					\$140,317
PLAN REVIEW & ADVERTISEMENTS					\$1,000
SUBTOTAL PROJECT COSTS					\$1,611,317
PROJECT CONTINGENCIES (2%)					\$38,603
TOTAL PROJECT COSTS					\$1,650,000

Source: Consolidated Technologies Inc.

OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF SERVICE TO CATOOSA UTILITY DISTRICT NEW LINE FROM RINGGOLD ROAD McBRIEN ROAD TO MCDONALD ROAD					
Item No.	Description	Unit	No. Units	Unit Price	Item Total
	Mobilization and Bonding	LS	1	\$2,500.00	\$2,500.00
	Traffic Control	LS	1	47,000.00	\$47,000.00
2200	Earthwork				
02200a	Crushed Stone Backfill in Trench for Water Lines in Streets and Driveways from Top of Bedding to Finished Grade	LF	8,050	7.65	\$66,172.50
02200d	Final Grading and Cleanup (Not Including Grassing and Mulch)	LF	200	1.55	\$310.00
2280	Utility Line Crossings of Streams				
02200b	Crossing of Spring Creek by Open Cut(20")	LF	35	1094	\$38,290.00
2405	Seeding, Seeding and Mulch Including Topsoil, Seed, Fertilizer, Limestone Mulch, and Water	LF	200	1.1	\$220.00
2500	Replacement Paving, Pavement Replacement for Streets and Driveways				
02500a	8-Inch Class A Concrete for Roadways	LF	386	33.35	\$12,073.10
02500a	4-Inch Type B Modified Asphalt Binder in Driveways, Parking Lots, and Streets	LF	0,099	14.9	\$120,675.10
15062	Ductile Iron (DI) Pipe and Fittings				
15062a	DI Pipe, Push-On, O-ring, Gasket Joint, Installed in Trench				
15062a-20	20-Inch DI Pipe, Pressure Class 350	LF	8650	125	\$1,081,250.00
15062b	DI Fittings	LB	2000	2.95	\$5,900.00
15062c	Restrained Joints for DI Pipe				
15062c-20a	20-Inch DI Pipe Restrained Joints at MJ Fittings	EA	4	213	\$852.00
15062c-20b	20-Inch DI Pipe Restrained Joints at Bell Joints	EA	8	\$375.00	\$3,000.00
15062d-16.16	Connect New 20" to Existing 20"	EA	2	13470.00	\$28,940.00
15101	Valves				
15101a	20-Inch Butterfly Valve, Including Valve Box, Cover, Restrained Joint Couplings, Thrust Block, and Extensions as Required	EA	4	5000	\$20,000.00
15109	Hydrants				
15109a	Install New Fire Hydrant Assembly, Including Excavation and Backfill, Piping, Thrust Block, etc.	EA	2	3,103.30	\$6,206.60
	SUBTOTAL CONSTRUCTION COSTS				\$1,432,189.30
	SUBTOTAL CONSTRUCTION COSTS				\$1,432,189
	CONSTRUCTION CONTINGENCIES (10%)				\$147,811
	TOTAL CONSTRUCTION COSTS				\$1,580,000
OTHER PROJECT COSTS					
	ENGINEERING				
	Design			\$67,134	
	Bid Services			\$9,591	
	Construction Phase Services			\$14,386	
	Record Drawings			\$4,795	
	Engineering Subtotal				\$95,906
	RPR (16 weeks Construction)				\$32,000
	Surveys				\$7,000
	Easements - Drawings & Document Preparation				\$10,000
	Easements Acquisition				\$40,000
	TDOT Permit				\$2,500
	Storm Water Permit				\$2,500
	Construction Testing				\$1,000
	SUBTOTAL ENGINEERING				\$190,906
	PLAN REVIEW & ADVERTISEMENTS				\$1,000
	SUBTOTAL PROJECT COSTS				\$1,771,906
	PROJECT CONTINGENCIES (2%)				\$38,094
	TOTAL PROJECT COSTS				\$1,810,000
Source: Consolidated Technologies Inc.					

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
EAST RIDGE RESERVOIR ALTITUDE VALVE
(IF PROJECT IS DONE SEPARATELY FROM NEW TANK)**

ALTITUDE VALVE

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Crushed Stone for Road (Including Material and Labor)	Ton	100	\$70.40	\$7,040.00
2	Chain Link Fence	LF	200	\$38.50	\$7,700.00
3	Concrete Vault Including Hatches	LS	1	\$48,620.00	\$48,620.00
4	Valves, Piping, Fittings and Accessories	LS	1	\$73,040.00	\$73,040.00
5	Electrical Work	LS	1	\$9,460.00	\$9,460.00
Subtotal Altitude Valve and Vault Construction Cost					\$145,860.00
SUBTOTAL CONSTRUCTION COSTS					\$145,860
CONSTRUCTION CONTINGENCIES (10%)					\$14,586
TOTAL CONSTRUCTION COSTS					\$170,000

OTHER PROJECT COSTS

ENGINEERING					
Design				\$15,079	
Bid Services				\$10,555	
Construction Phase Services				\$1,508	
Record Drawings				\$2,262	
Engineering Subtotal					\$29,404
RPR (4 weeks Construction)					\$8,000
Surveys					\$3,000
Construction Testing					\$500
SUBTOTAL ENGINEERING					\$40,904
PLAN REVIEW & ADVERTISEMENTS					\$1,000
SUBTOTAL PROJECT COSTS					\$211,904
PROJECT CONTINGENCIES (2%)					\$8,096
TOTAL PROJECT COSTS					\$220,000

Source: Consolidated Technologies Inc.

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
NEW ELEVATED STORAGE TANK IN EAST RIDGE**

STORAGE TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	2.0-MG Elevated Steel Tank and Appurtenances	LS	1	\$2,600,000.00	\$2,600,000.00
2	Ductile Iron Piping Installed in Trench	LS	1	\$59,000.00	\$59,000.00
3	Control Valve Box	LS	1	\$94,800.00	\$94,800.00
4	Miscellaneous Items	LS	1	\$90,000.00	\$90,000.00
5	Electrical Service Allowance	LS	1	\$10,000.00	\$10,000.00
6	Property Acquisition	LS	1	\$35,000.00	\$35,000.00

Subtotal Tank Construction Cost **\$2,808,600**

WATER LINES AND OTHER ITEMS NEEDED WITH TANK

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
02200a	Crushed Stone Backfill in Trench	LF	25	\$15.00	\$375.00
02200b	Crushed Rock or Sand Bedding Material for Rock Trench Bedding	CY	50	\$30.00	\$1,500.00
02200c	Final Grading and Cleanup	LF	500	\$1.00	\$500.00
2270	Slope Protection and Erosion Control				
02270a	Temporary Silt Fence	LF	200	\$3.00	\$600.00
02270b	Straw Bales	EA	10	\$6.00	\$60.00
2405	Seedling and Mulch	LF	500	\$0.75	\$375.00
02937a	Riprap	CY	10	\$36.00	\$360.00
3300	Cast-In-Place Concrete, Class B Concrete	CY	5	\$150.00	\$750.00
15062a	Ductile Iron (DI) Fittings	LB	1,000	\$2.00	\$2,000.00
15062b-20	20-Inch DI Pipe (Pressure Class 350)	LF	500	\$100.00	\$50,000.00
15062b-20	20-Inch DI Restrained Joints	EA	10	\$300.00	\$3,000.00
15101a	20-Inch Butterfly Valve Required	EA	2	\$3,500.00	\$7,000.00
15101b	Air Release Valve	EA	1	\$1,500.00	\$1,500.00
15109	Fire Hydrant Assemblies	EA	1	\$4,000.00	\$4,000.00

Subtotal Tank Construction Costs **\$72,020**

SUBTOTAL CONSTRUCTION COSTS **\$2,960,620**

CONSTRUCTION CONTINGENCIES (10%) **\$299,380**

TOTAL CONSTRUCTION COSTS **\$3,260,000**

OTHER PROJECT COSTS

ENGINEERING

Design	\$147,189	
Bld Services	\$21,027	
Construction Phase Services	\$31,540	
Record Drawings	\$10,513	
Engineering Subtotal		\$210,270
RPR (16 weeks Construction)		\$32,000
Surveys		\$5,000
Easements - Drawings & Document Preparation		\$10,000
Easements Acquisition		\$10,000
FAA Permit		\$3,500
Stormwater Permit		\$2,500
Geotechnical Report		\$5,000
Construction Testing		\$2,000

SUBTOTAL ENGINEERING **\$280,270**

PLAN REVIEW & ADVERTISEMENTS **\$1,000**

SUBTOTAL PROJECT COSTS **\$3,541,270**

PROJECT CONTINGENCIES (2%) **\$78,730**

TOTAL PROJECT COSTS **\$3,620,000**

Source: Consolidated Technologies Inc.

**OPINION OF COSTS FOR TAW SYSTEM IMPROVEMENTS OF
SERVICE TO CATOOSA UTILITY DISTRICT
EAST RIDGE PUMP STATION UPGRADE**

Item No.	Description	Unit	No. Units	Unit Price	Item Total
Pump Station Upgrade Costs:					
	Mobilization and Bonding	LS	1	\$2,500.00	\$2,500.00
	350 HP High Service Pumps	EA	3	23,993.00	\$71,979.00
	350 HP Variable Frequency Drive Units	EA	3	41,333.00	\$123,999.00
	Labor, Material and Installation	LS	1	39,195.60	\$39,195.60
	10% Tax	LS			\$4,169.56
20-Inch Line to East Ridge Reservoir Costs:					
02500a	4-Inch Type B Modified Asphalt Binder in D	LF	1,000	\$14.90	\$14,900.00
15062n-20	20-Inch DI Pipe, Pressure Class 350	LF	2,900	\$125.00	\$362,500.00
15062c-20a	20-Inch DI Pipe Restrained Joints at MJ Fitting	EA	10	\$213.00	\$2,130.00
15062d-16.16	Connect New 20-Inch to Existing 16-Inch	EA	2	\$13,470.00	\$26,940.00
	SUBTOTAL CONSTRUCTION COSTS				\$640,313.16
	SUBTOTAL CONSTRUCTION COSTS				\$640,313
	CONSTRUCTION CONTINGENCIES (10%)				\$71,687
	TOTAL CONSTRUCTION COSTS				\$720,000
OTHER PROJECT COSTS					
ENGINEERING					
	Design			\$39,715	
	Bid Services			\$5,674	
	Construction Phase Services			\$8,510	
	Record Drawings			\$2,837	
	Engineering Subtotal				\$56,736
	RPR (4 weeks Construction)				\$8,000
	Surveys				\$7,000
	Easements - Drawings & Document Preparation				\$2,500
	Construction Testing				\$1,000
	SUBTOTAL ENGINEERING				\$75,236
	PLAN REVIEW & ADVERTISEMENTS				\$1,000
	SUBTOTAL PROJECT COSTS				\$796,236
	PROJECT CONTINGENCIES (2%)				\$23,764
	TOTAL PROJECT COSTS				\$820,000

Source: Consolidated Technologies Inc.

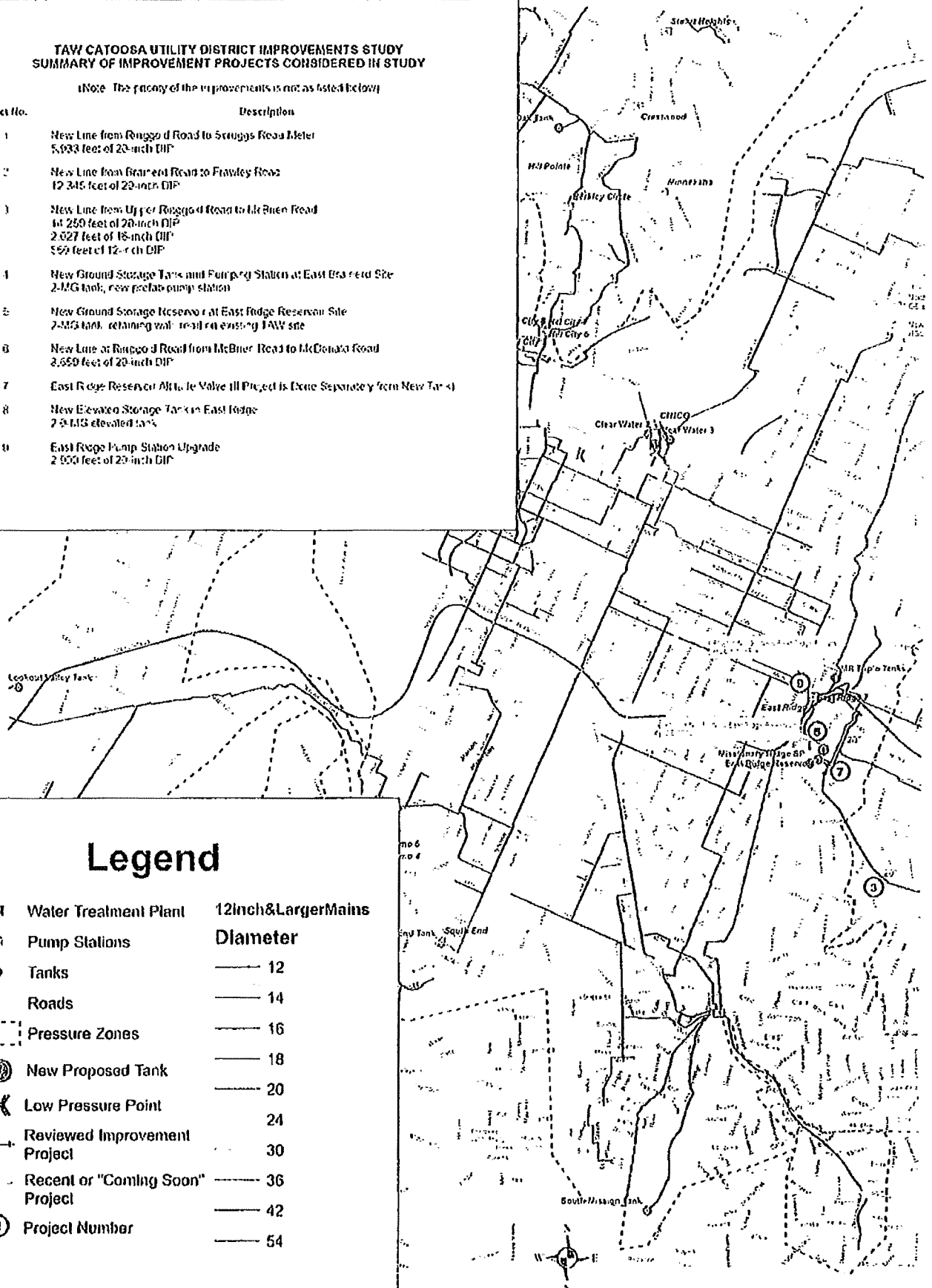
**TAW CATOOSA UTILITY DISTRICT IMPROVEMENTS STUDY
SUMMARY OF IMPROVEMENT PROJECTS CONSIDERED IN STUDY**

(Note: The priority of the improvements is not as listed below)

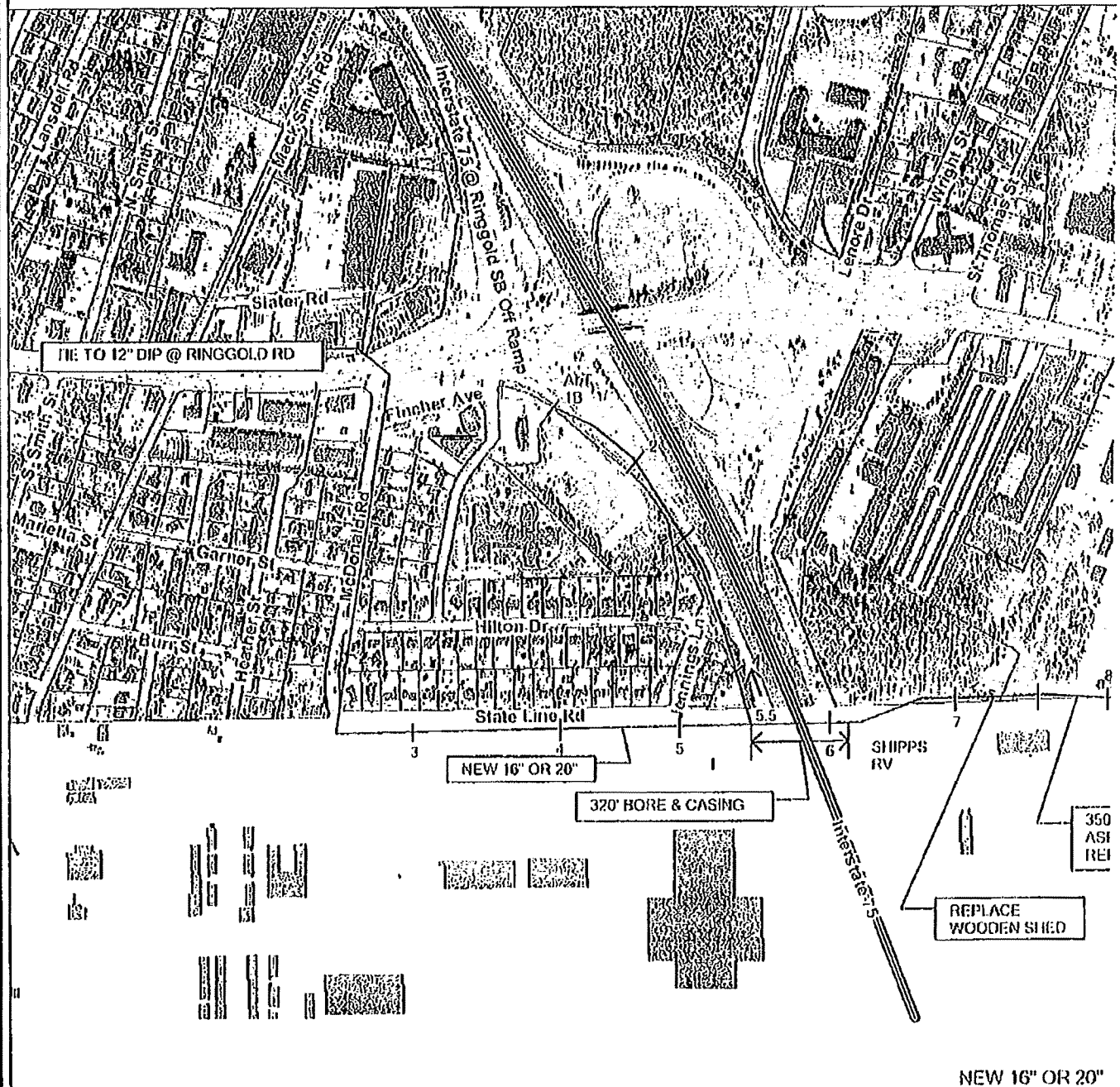
Project No.	Description
1	New Line from Ringgold Road to Struggs Road Meter 5,933 feet of 20-inch DIP
2	New Line from Grant Road to Fawley Road 12,345 feet of 20-inch DIP
3	New Line from Upper Ringgold Road to McBurn Road 14,250 feet of 20-inch DIP 2,027 feet of 18-inch DIP 550 feet of 12-inch DIP
4	New Ground Storage Tank and Pumping Station at East Ridge Road Site 2-MG tank, new prefab pump station
5	New Ground Storage Reservoir at East Ridge Reservoir Site 2-MG tank, retaining wall, road on existing TAW site
6	New Line at Ringgold Road from McBurn Road to McDonald Road 2,650 feet of 20-inch DIP
7	East Ridge Reservoir Aft. to Le Valve (This Project is Done Separately from New Tank)
8	New Elevated Storage Tanks at East Ridge 2 x 1.5 MG elevated tanks
9	East Ridge Pump Station Upgrade 2,000 feet of 20-inch DIP

Legend

	Water Treatment Plant		12 inch & larger Mains
	Pump Stations		Diameter
	Tanks		12
	Roads		14
	Pressure Zones		16
	New Proposed Tank		18
	Low Pressure Point		20
	Reviewed Improvement Project		24
	Recent or "Coming Soon" Project		30
	Project Number		36
			42
			54

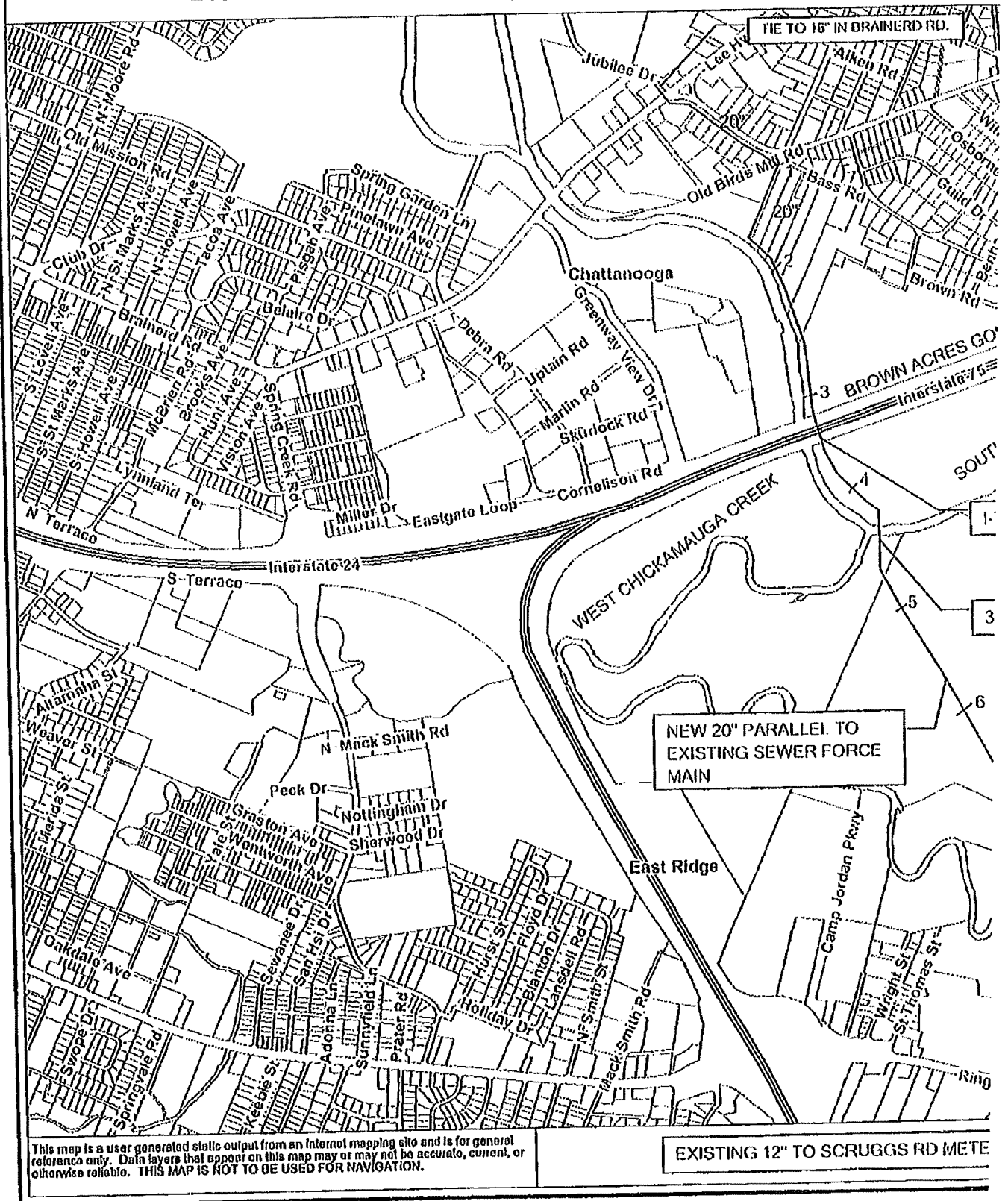


Ringgold Road to Scruggs Road Waterline



This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Brainerd Road to Frawley Road Waterline





CAPITAL INVESTMENT MANAGEMENT PROJECT APPROVAL

Approved Stage: PNR1 **Date:** 12/05/2006
In Progress Stage: **Date:**
In Progress Status: Approved: Awaiting incorporation of comments

REGION: Southeast
COMPANY: Tennessee American Water
JDE BUSINESS UNIT: Chattanooga

PROJECT TITLE: Replace Lookout Mountain Supply Mains
BUSINESS UNIT NO: 26029804

1. Accountability

PNI Document Prepared By Randy Taylor
Project Manager Randy Taylor
Asset Owner or Project Sponsor John Watson

PNR1 No changes from the previous stage

2. Prior Documentation

PNI See attached IP approvals



Lkt Mtn Supply Mains-BP98.pdf

PNR1 No changes from the previous stage

3. Need for the Project

PNI The project is needed to greatly increase reliability by reducing the leakage problems that have been encountered over the years. There are two steel pipes which originate from the Lookout Mountain Pumping Station to Lookout Mountain, Tennessee, and extend up the face of the mountain to provide service to the homes on top of the mountain. The lines are buried for most part of their run, but lay directly on top of the rock when they reach the bluff at the top of the mountain. Remains of supports intended to keep the pipe off the face of the rock have corroded or failed and the pipe rests directly on the rock.

Visual inspection of the piping above grade, revealed a considerable amount of corrosion which is critical to effectively supplying water up Lookout Mountain should there be a major leak or break. In total there have been three pinhole leaks on these mains (8-inch and 12-inch) in 5+ years and our contractors who have to rappel off the bluff to repair these breaks have commented that, if the last break had been 1 inch further into the rock face, there would have been no way to fix it .

PNR1 No changes from the previous stage

4. Recommended Solution

PNI Replacement of the existing mains with 600 feet of two 12-inch steel pipes (for a total of 1200 feet), and provide a protective coating resistant to corrosion is the recommended solution.

Does this project require the acquisition of land and/or buildings via either purchase or lease? No
Does this project require the acquisition of easements or right-of-ways? Yes
Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

PNR1 No changes from the previous stage

5. Outputs and Benefits

PNI This project will reduce or eliminate main breaks on this critical section of pipe and increase reliability of the water supply to Lookout Mountain.

PNR1 No changes from the previous stage

6. Options

PNI The "Do Nothing" option would result in further corrosion of the pipes and an eventual break in the pipe which could put approximately 1,753 customers out of water for an extended period of time.

Wrapping the corroded pipes with a corrosion resistant material to prevent further corrosion was considered but is not recommended because this would not provide a long term solution.
Pipe replacement with a corrosion resistant material such as PVC was considered, but is not recommended because the pressures would exceed the pressure rating of this type pipe.

PNR1 No changes from the previous stage

7. Schedule

ACTIVITY	DATE
Project Start	October 27, 1997
Project Implementation Proposal Submission	July 2, 2007
Substantial Project Completion (in-service)	October 30, 2007
Final Project Completion	November 30, 2007
Post Project Review	December 15, 2007



PNR1 No changes from the previous stage

8. Project Cost and Cash Flow

		U.S. Dollars							
PNI	COMPONENT	TOTAL	PRIOR YRS	2005	2006	2007	2008	2009	2010
	Preliminary Cost (PNI)	\$100,000		\$100,000					
	Implementation Cost (PIP)	\$328,400		\$328,400					
	Total Project Cost	\$428,400	\$0	\$428,400	\$0	\$0	\$0	\$0	\$0
	Current SCEP Approved Cost	\$428,400		\$428,400					
	Difference	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Advances or Contributions	\$0	\$0	\$0					
	Total Company Funded	\$428,400	\$0	\$428,400	\$0	\$0	\$0	\$0	\$0
	Cost of Removals	\$0	\$0	\$0					



		U.S. Dollars							
PNR1	COMPONENT	TOTAL	PRIOR YRS	2007	2008	2009	2010	2011	2012
	Preliminary Cost (PNI)	\$275,000	\$184,000	\$91,000					
	Implementation Cost (PIP)	\$834,000		\$600,000	\$234,000				
	Total Project Cost	\$1,109,000	\$184,000	\$691,000	\$234,000	\$0	\$0	\$0	\$0

Current SCEP Approved Cost	\$480,076	\$180,076	\$300,000	\$0				
Difference	\$628,924	\$3,924	\$391,000	\$234,000	\$0	\$0	\$0	\$C
Advances or Contributions	\$0							
Total Company Funded	\$1,109,000	\$184,000	\$691,000	\$234,000	\$0	\$0	\$0	\$C
Cost of Removals	\$0							



Lookout Mtn Bluff 11-9-07.xls

9. Budget Discussion

PNJ

PNR1 Current budget is based on actual contractor bid of \$506,029 in 2003 . Since the job is entirely steel pipe , the 2007 price is estimated to be \$834,000 , or 16 % per year higher than when bid in 2003 , due primarily to the rapid increase in steel pipe prices over the last few years .

10. Rate Impact

PNJ

PNR1 0.4%

11. Risks

PNJ

PNR1 Risks that may affect this project are: 1) that the property owners who we need an easement from might not be cooperative, 2) that the National Park Service who will have to permit the project may not be cooperative, 3) and that the actual construction cost for the work on the " Bluff of Lookout Mountain " might exceed the initial cost estimates

12. Project Delivery Method

PNJ

Conventional Design-Bid-Build

PNR1

Conventional Design-Bid-Build

13. Resource Needs

PNJ

PNR1 Resources needed are a consulting engineering firm , significant involvement by legal and real estate professionals , and a specialized contractor.

14. Deliverables

PNJ

PNR1 An updated engineering report outlining the design concept , an updated cost estimate , all permits and easements , and a legal opinion from our attorneys that we have full legal authority to proceed with construction.

15. Drivers

PNJ

ASSET TYPE	PURPOSE	CODE	%
Drinking Water - Networks (includes services & hydrants)	Water - Poor Physical Condition	WNNAPP01	100

TOTAL 100

PNR1 No changes from the previous stage

16. Priority Ranking

PNJ

Project No: 14 Date of Ranking: March 10, 2005
Out of: 26

No changes from the previous stage

PNR1

17. **Project Manager Routing**

Stage of Project: PNR1

Status of Project: Approved: Awaiting incorporation of comments

Approval Requested at Meetings of:

FOR ADMINISTRATIVE USE ONLY

A. Pre-CIMC Review

PNR1 Reviewed By: Bruce E Juergens

Comments:

Action: Forward to CIMC without Pre-CIMC review

PNR1 Reviewed By:

Comments:

Action:

B. CIMC Review and Approval

PNR1 Not Necessary

PNR1 Reviewed By: Bruce E Juergens

Approved By: Title
President
VP - Service Delivery
Director, Engineering
Director, Finance

Primary Approver	or	Delegated Authority
Daniel W Warnock		Daniel W Warnock
David R Kaufman		Steve L Klick

Comments:

Action: Approve and forward to CIRC

C. CIRC Review and Approval

PNR1 Reviewed By:

Approved By: Title	Primary Approver	or	Delegated Authority
--------------------	------------------	----	---------------------

Comments:

Action:

PNR1 Reviewed By: Douglas E Potts

Approved By: Title
VP - Operations Services
Director of Capital Program Management and
Asset & Planning Strategy
Director of Planning & Reporting
Capital Program Manager

Primary Approver	or	Delegated Authority
Stephen P Schmill		
Gary A Naumick		
David M Reves		

Comments:

Action: Approve pending incorporation of comments

D. Modification History

10/16/2006 Randy Taylor PNI (Submitted for technical review: Awaiting technical review)
11/09/2006 Randy Taylor PNI (Submitted for technical review: Awaiting technical review)
11/13/2006 Kate Nartey PNI (Submitted for technical review: Awaiting technical review)
11/15/2006 Kate Nartey PNI (Submitted for technical review: Awaiting technical review)
11/16/2006 Lisa M Bohenic PNR1 (Submitted to Pre-CIMC: Awaiting Pre-CIMC review)
11/17/2006 Bruce E Juergens PNR1 (Forwarded to CIMC without Pre-CIMC review: Awaiting CIMC approval)

11/27/2006 Lisa M Bohenic PNR1 (Approved and forwarded to CIRC: Awaiting CIRC approval)
11/27/2006 Douglas E Polts PNR1 (Approved and forwarded to CIRC: Awaiting CIRC approval)
11/28/2006 Bruce E Juergens PNR1 (Approved and forwarded to CIRC: Awaiting CIRC approval)
11/28/2006 Randy Taylor PNR1 (Approved and forwarded to CIRC: Awaiting CIRC approval)
12/05/2006 Irene M Fisher PNR1 (Approved: Awaiting incorporation of comments)

E. **Deletion Request**

IRWF 



Tennessee-American Water Company

P.O. Box 6338 • 1101 South Broad Street • Chattanooga, TN 37401

Approved at Board of
Directors Meeting
December 16, 1997

BP 98-04

Richard T. Sullivan
Vice President and Manager

(423) 755-76
Fax (423) 755-76
<http://www.tawc.cc>

September 3, 1997

File No. 130-8362

TENNESSEE-AMERICAN WATER COMPANY REPLACE LOOKOUT MOUNTAIN SUPPLY MAINS PROPOSED CAPITAL BUDGET PROJECT, BP 98-

SUBJECT OF STUDY

The replacement of the existing 8-inch and 12-inch steel transmission mains which supply water up the bluff face of Lookout Mountain.

RECOMMENDATION

It is recommended that 600 feet of parallel 8-inch and 12-inch steel transmission mains from the base of the bluff face of Lookout Mountain to the top be replaced with similarly sized pipelines.

ESTIMATED COST

Total Estimated Cost	\$100,000
Proposed 1998 Expenditure	\$100,000

ADEQUACY

The installation of new 8-inch and 12-inch mains will greatly reinforce the reliability of the only supply to Lookout Mountain by proactively replacing the existing 8-inch and 12-inch mains which were installed in 1929 and 1956, respectively, and which have shown rapid signs of deterioration. The funds under this budget project are adequate for the study and design work needed to address the unique installation requirements associated with these mains.

BUDGET PROJECT REVIEW		
DEPARTMENT:	BY:	DATE:
ENGINEERING	<i>[Signature]</i>	10-22-97
WATER QUALITY	<i>[Signature]</i>	10/24/97
OTHER		
RECOMMENDED FOR APPROVAL		
<i>[Signature]</i>		10/25/97
PRESIDENT		

TENNESSEE-AMERICAN WATER COMPANY
Replace Lookout Mountain Supply Mains
Proposed Capital Budget Project 98-
September 3, 1997
Page 2

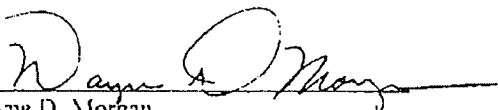
DISCUSSION

The existing 8-inch and 12-inch diameter steel mains which carry water up the bluff face of Lookout Mountain are in need of replacement due to numerous leaks which have been identified over the past several years. The leaks are typically the size of a small pinhole but, because of their inaccessible location on the mains, they are very difficult and expensive to repair. Both mains are fully exposed on the bluff face.

The 8-inch steel main was installed in 1929. One 500 foot section of this main on the bluff was replaced in 1979 but it showing advanced signs of deterioration and continues to be a problem. The 12-inch steel main was installed in 1956 and no sections have been replaced since then.

These two mains are critical to the Company's ability to reliably supply the large area of Lookout Mountain. The recommended solution to the problems of maintenance and reliability is the replacement of the mains on the bluff.

Because of the unique construction and installation requirements associated with this project, a qualified engineering firm will be required to perform the design. Design work, cost analysis, permit obtainment (from the National Park Service), easements, etc. is scheduled for 1998 and construction is scheduled for 1999. The total estimated project cost is \$428,400.


Wayne D. Morgan
Vice President

TENNESSEE-AMERICAN WATER COMPANY
REPLACE LOOKOUT MOUNTAIN SUPPLY MAINS

Detailed Cost Estimate

Design Concept and Overview	\$ 3,000
Detailed Design	\$ 70,000
Permits/Easements	\$ 15,000
Bidding/Evaluation	<u>\$ 4,000</u>
Subtotal	\$ 92,000
Omissions and Contingencies	\$ 5,000
AFUDC	<u>\$ 3,000</u>
Total	\$100,000

TENNESSEE-AMERICAN WATER COMPANY
Replace Lookout Mountain Supply Mains
Proposed Capital Budget Project 98-
September 3, 1997
Page 2

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R. T. Sullivan, Vice-President/Manager

Tennessee-American Water Company
Economic Analysis of the Impact of Capital
Spending Proposal
REPLACE LOOKOUT MOUNTAIN SUPPLY MAINS

Determination of Revenue Requirement

Authorized Rate of Return on Common Equity	11.35%
Federal Income Tax Rate	35.00%
Return on Common Equity before FIT	17.46%
State Income Tax Rate	6.00%
Required Rate of Return on CE for Project	18.57%
Common Equity Ratio for Project	40.00%
Weighted Cost of Common Equity before Tax	7.43%

Long Term Debt Ratio for Project	60.00%
Estimated Cost Rate for New Debt	7.00%
Weighted Cost of Debt	4.20%

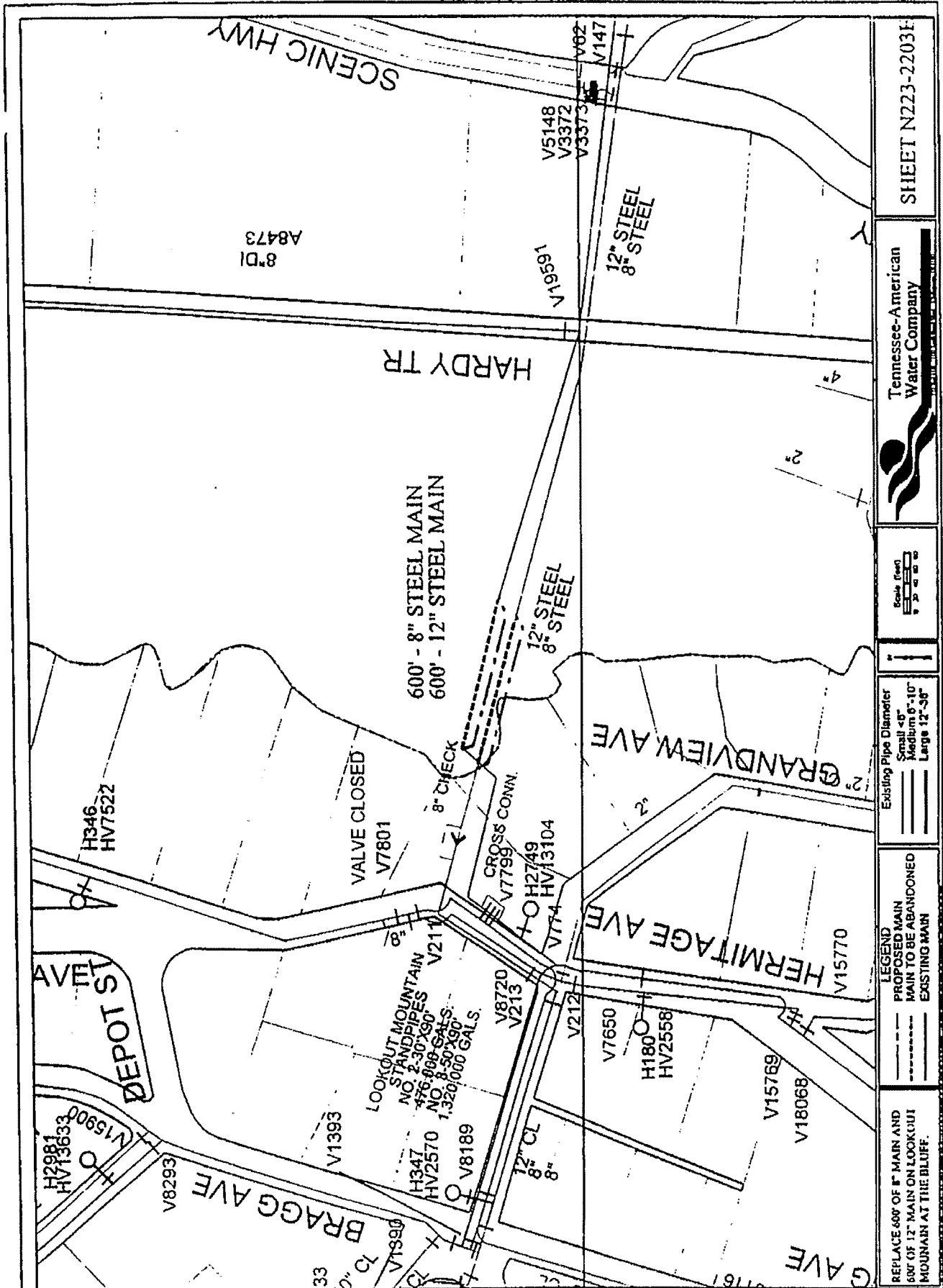
Total Pre-Tax Cost of Capital	11.63%
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Total Estimated Cost of Project	\$428,400
Investment by Others	0
Net Investment Financed by Company	428,400
New Common Equity	\$171,360
New Long Term Debt	257,040

Total Revenue Requirement

		<u>Amount</u>	<u>Rate</u>
Required Pre-Tax Operating Income		\$49,823	11.63%
Depreciation Rate	0.6800%	2,913	0.68%
Property Tax Rate	1.7117%	7,333	1.71%
Change in Operation & Maint. Expense		0	0.00%
Revenue from New Customers		0	0.00%
Total Net Revenue Requirement		\$60,069	14.02%
Revenue Tax Rate	2.8035%	1,733	0.40%
Total Revenue Requirement		\$61,802	14.42%

Latest 12 Months Revenue	\$29,549,286
Required Price Increase	0.21%



REPLACE 600' OF 12" MAIN ON LOOKOUT MOUNTAIN AT THE BLUFF.

LEGEND

- PROPOSED MAIN
- MAIN TO BE ABANDONED
- EXISTING MAIN

Existing Pipe Diameter

- Small 4"
- Medium 6"-10"
- Large 12"-36"

Scale Feet

0 10 20 30 40 50 60 70 80 90 100

Tennessee-American
Water Company

SHEET N223-2203E

Tennessee-AMERICAN WATER COMPANY
Chattanooga
Replace Lookout Mountain Supply Mains
IP 98-04

Detailed Cost Estimate

JDE Code	Description of Activity		Estimate
TRE	Transferred Expenditures		\$180,000
PRE	Preliminary Engineering		\$20,000
DES	Detailed Design, Bidding & Contract Award		\$20,000
PER	Permits & Approvals		\$10,000
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		\$40,000
LND	Land, Land Rights & Asset Acquisition		\$35,000
ACQ	Utility Asset Acquisition		
Acct #	UTILITY PLANT CONSTRUCTION		
331	Transmission & Distribution Mains		\$700,000
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
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	#N/A		
	#N/A		
	#N/A		
	#N/A		
10%	Contingency (on construction costs only)		\$70,000
2%	Capitalized Clearing (based on rate stated to left)		\$21,500
	Total Activity Cost		\$1,096,500
3.50%	AFUDC (based on annualized rate stated to left)		\$13,242
	Total Project Cost to be Authorized		\$1,109,742
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			180,000
2007			86,700
2008			
2009			
2010			
2011			
2012			
SUB-TOTAL			\$266,700
	<i>Prorated AFUDC</i>		\$3,000
TOTAL			\$269,700
	<u>Implementation Costs</u>		
Priors			
2007			826,200
2008			
2009			
2010			
2011			
2012			
SUB-TOTAL			\$826,200
	<i>Prorated AFUDC</i>		\$10,242
TOTAL			\$836,442
<u>Total Project Cost</u>			\$1,106,142

IP98-04

2007

9 10 7

309

4 of 6

TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
Replace Lookout Mountain Supply Mains
IP 98-04

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$1,109,742	
Financing (based on above cost of capital)	\$123,584	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	23,736	2.21%
Property Tax (applies to land & structures accounts only)	942	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	0	
Total Additional New Revenue Required to Support Project	\$148,262	
Projected 2007 Revenues	\$37,257,000	
Required Price Increase	0.398%	

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666



CAPITAL INVESTMENT MANAGEMENT PROJECT APPROVAL

Approved Stage: PNI **Date:** 12/05/2006
In Progress Stage: **Date:**
In Progress Status: Approved: Awaiting incorporation of comments

REGION: Southeast
COMPANY: Tennessee American Water
JDE BUSINESS UNIT: Chattanooga

PROJECT TITLE: Missionary Ridge Storage Tank and Main
BUSINESS UNIT NO: 26020702

1. **Accountability**

PNI Document Prepared By
Project Manager Randy Taylor
Asset Owner or Project Sponsor John Watson

2. **Prior Documentation**

PNI See attached CPS recommendation.



Project B-14.pdf TN Missionary Ridge Memo.doc Miss Ridge .jpg Missionary Ridge Hyd.jpg

3. **Need for the Project**

PNI This project is needed to provide adequate storage and to improve pressures in northern end of the Missionary Ridge Pressure Zone. The Missionary Ridge Pressure Zone is about seven miles from north to south and one-half mile from east to west. The Missionary Ridge Standpipe is located in the south end and the South Mission Ridge Tank is in the center of the zone. The Missionary Ridge and Elmendorf booster stations supply water to this zone based on the storage in the standpipe.

A 1.25MG storage and 1000' 16" main is needed in the northern end of Missionary Ridge zone as recommended in the 2000 Comprehensive planning study. According to the study a storage deficit of 1.15MG exists on a projected maximum day in the Missionary Ridge pressure zone. This deficit is compounded by approximately 50% of the storage volume of the Missionary Ridge standpipe being ineffective. Fire flows in the area are limited due to elevations of customers with respect to tank overflows as well as limited diameter of distribution mains. Previous fire hydrants flow tests in the area revealed flows of under 500gpm with residual pressures between 2-8psi. It is anticipated that the tank will provide a better fire protection needs.

In 2005, system analysis revealed fluctuating pressures in the area (between 61 – 93psi). This coupled with a substantial pressure drop when the Missionary Ridge standpipe is full and the Missionary Ridge pump kicks off make residential customers on high elevations experience low pressures. The level in the Missionary Ridge standpipe is not high enough to stabilize the pressures in the area. Two day records from a telog on two hydrants in May 2006 along Crest Terrace and North Crest Ct. showed pressures as low as 0 and fluctuating pressures of 0-60psi. A number of customer complaints have been received regarding low pressures in the area. The additional tank is critical to meeting distribution system reliability while stabilizing pressures in the area.

4. **Recommended Solution**

PNI Construct a 1.25MG elevated storage tank to serve the north end of Missionary Ridge and install a 1,000 feet of 16-inch main to connect the tank to the distribution system as identified in the CPS.

Does this project require the acquisition of land and/or buildings via either purchase or lease? Yes

Does this project require the acquisition of easements or right-of-ways? Possibly

Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

5. Outputs and Benefits

PNI Reducing pressure fluctuations from 50-82 to 58-78 and increase fire flows from 694 gpm to 1300 gpm.



See attached Mission Ridge tank - memo.doc

Rectify deficiencies outlined in the CPS, meet future storage volume requirements based on demands, meet current and future equalization and fire protection capabilities, increase transmission capacity by allowing the tank to effectively serve the area, and improve system reliability in the north section of the Missionary Ridge zone.

6. Options

PNI Pumped storage will be considered if needed to address concerns from adjacent property owners or the FAA.

7. Schedule

ACTIVITY	DATE
Project Start	January 15, 2007
Project Implementation Proposal Submission	March 1, 2008
Substantial Project Completion (in-service)	November 15, 2009
Final Project Completion	December 30, 2009
Post Project Review	February 28, 2010



8. Project Cost and Cash Flow

COMPONENT	TOTAL	PRIOR YRS	U.S. Dollars					
			2007	2008	2009	2010	2011	2012
Preliminary Cost (PNI)	\$257,000		\$257,000					
Implementation Cost (PIP)	\$2,743,000			\$1,100,000	\$1,643,000			
Total Project Cost	\$3,000,000	\$0	\$257,000	\$1,100,000	\$1,643,000	\$0	\$0	\$0
Current SCEP Approved Cost	\$2,450,000		\$250,000	\$1,100,000	\$1,100,000			
Difference	\$550,000	\$0	\$7,000	\$0	\$543,000	\$0	\$0	\$0
Advances or Contributions	\$0	\$0	\$0	\$0	\$0			
Total Company Funded	\$3,000,000	\$0	\$257,000	\$1,100,000	\$1,643,000	\$0	\$0	\$0
Cost of Removals	\$0							



Missionary Ridge Tk - TN 11.28.061.xls

9. Budget Discussion

PNI The 2000 CPS cost estimate was \$2.2 million, based on a 1.25 MG Elevated tank and 1000 feet of 16" main. Construction cost when the project is actually bid in 2008 will have increased by roughly 30% since 2000. The location is in a very expensive area to work (National Park area, narrow concrete winding roads, very expensive historic property values on a ridge overlooking the city). Total cost is estimated to be \$3 million. Cost will be largely impacted by property acquisition costs and property location.

10. **Rate Impact**

PNI 1.067%

11. **Risks**

PNI Site selection and property acquisition will be unusually difficult for this project. Permitting from FAA, and zoning issues may also impact delivery schedule. The location of the property that is obtained may require pipeline and/or booster station improvements in addition to the scope described above.

12. **Project Delivery Method**

PNI Conventional Design-Bid-Build

13. **Resource Needs**

PNI Engineering Consultant, Contractors

14. **Deliverables**

PNI Preliminary engineering report, hydraulic model results, cost estimate, site selection and purchase of the property for the tank, design of the tank and mains needed, all required permits.

15. **Drivers**

ASSET TYPE	PURPOSE	CODE	%
Drinking Water - Pumping and Storage	Water - Customer Satisfaction, Pressure	WPRQCS02	100
TOTAL			100

16. **Priority Ranking**

PNI Project No: 16 Date of Ranking: March 10, 2005
Out of: 26

17. **Project Manager Routing**

Stage of Project: PNI
Status of Project: Approved: Awaiting incorporation of comments
Approval Requested at Meetings of:

FOR ADMINISTRATIVE USE ONLY

A. Pre-CIMC Review

PNI Reviewed By: Bruce E Juergens

Comments:
Action: Forward to CIMC without Pre-CIMC review

B. CIMC Review and Approval

PNI	Reviewed By:	Bruce E Juergens	Primary Approver or Delegated Authority
	Approved By:	Title	
		President	
		VP - Service Delivery	
		Director, Engineering	David R Kaufman
		Director, Finance	Steve L Klick
Comments:			
Action: Approve and forward to CIRC			

C. CIRC Review and Approval

PNI	Reviewed By:	Douglas E Polts	Primary Approver or Delegated Authority
	Approved By:	Title	
		VP - Operations Services	Stephen P Schmitt

Director of Capital Program Management and Gary A Naumick
Asset & Planning Strategy
Director of Planning & Reporting
Capital Program Manager David M Reves

Comments:

Action: Approve pending incorporation of comments

D. Modification History

10/12/2006 Randy Taylor PNI (Saved as draft)
10/13/2006 Bruce E Juergens PNI (Submitted for technical review: Awaiting technical review)
10/16/2006 Randy Taylor PNI (Submitted for technical review: Awaiting technical review)
11/10/2006 Kate Nartey PNI (Submitted for technical review: Awaiting technical review)
11/10/2006 Lisa M Bohenic PNI (Submitted for technical review: Awaiting technical review)
11/13/2006 Kate Nartey PNI (Submitted for technical review: Awaiting technical review)
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11/28/2006 Bruce E Juergens PNI (Approved and forwarded to CIRC: Awaiting CIRC approval)
12/05/2006 Irene M Fisher PNI (Approved: Awaiting incorporation of comments)
01/16/2007 Kate Nartey PNI (Approved: Awaiting incorporation of comments)
04/04/2007 Lisa M Bohenic PNI (Approved: Awaiting incorporation of comments)

E. Deletion Request



TENNESSEE-AMERICAN WATER COMPANY

Project B-14

CONSTRUCT 1.25 MG STORAGE TANK & 1,000 FEET OF 16-INCH MAIN
IN MISSIONARY RIDGE ZONE

Design	12 months	Design Cost	\$200,000
Construction	12 months	Construction Cost	\$2,000,000

(* Note: Cost estimate does not include property acquisition).

Description

The storage analysis for the Missionary Ridge pressure zone projects that a storage deficit of 1.15 MG will exist on the projected maximum day. The deficit is compounded by the lack of effective storage in the Missionary Ridge Standpipe due to the elevation of some of the customers. An analysis indicates that approximately 50 percent of the storage volume is ineffective.

Computer model simulations indicate that fire flow is generally limited to between 1,500 gpm and 3,000 gpm in many portions of the pressure zone. This is caused primarily by the elevation of customers with respect to the tank overflow, and the size of mains serving the zone. A hospital and high school located in the northern portion of the zone had modeled fire flows below 2,000 gpm, due to the distance from the standpipe, and the limited diameter of the distribution mains in North Crest Road (6-inch and 8-inch).

Additional storage is needed to meet current and future equalization and fire protection needs in the Missionary Ridge pressure zone. Additional storage should be provided in this zone to address the growth in demand and to provide improved coverage to the large area supplied by this pressure zone.

Recommendation

A 1.25 MG elevated storage tank is recommended to address the storage deficits identified in the Missionary Ridge pressure zone. This project, in conjunction with Project B-2, will improve reliability and fire protection for both the Missionary Ridge and South Mission Ridge zones. With a new tank in the northern portion of the zone, the existing standpipe in the center of the zone, and the improved connection to the South Mission Ridge zone (Project B-2), the need for further main reinforcement is reduced.

For planning purposes, the proposed location for the tank is near the intersection of North Crest Road and North Boulevard. Ground elevations close to 1,100 feet are available here. The storage should be

APPENDIX

constructed as an elevated tank, due to the presence of customers located at the base elevation of the existing standpipe. When the new tank is complete, the existing standpipe should be equipped with booster pumps to allow utilization of the full standpipe volume.

The project estimate includes an allowance for 1,000 feet of 16-inch main to connect the tank to the distribution system. Property and appropriate easements should be purchased for the tank and pipeline. Property costs are not included in the above estimate. The tank site should be sized based on the property selection criteria in Appendix A. If the tank is located in a residential area, additional space may be necessary to minimize the impact on residences during tank painting or maintenance. An alternate location for the tank would be adjacent to the existing standpipe.

TENNESSEE-AMERICAN WATER COMPANY

Project B-14

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APPENDIX

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Memo



To:	Kate Narthey	From:	Shannyn Walker, P.E.
Cc:	Randy Taylor	Depart.	KAW - Engineering
Depart.	TAW - Engineering	Phone	859-268-6351
		Fax	859-268-6374
Pages	1	Date	2006-11-13

Re: Proposed 1.25 MG EST at Mission Ridge

Per your request, a preliminary hydraulic analysis was performed with a 1.25 MG elevated storage tank installed in the northern part of the of Missionary Ridge pressure zone. There were a number of high elevation areas at 1100 MSL in the northern area, but for initial analysis the tank was put at the intersection of North Crest Rd and Wilcox Blvd as recommended by the CPS. The overflow elevation was set at 1132 ft, similar to the other Missionary Ridge tanks.

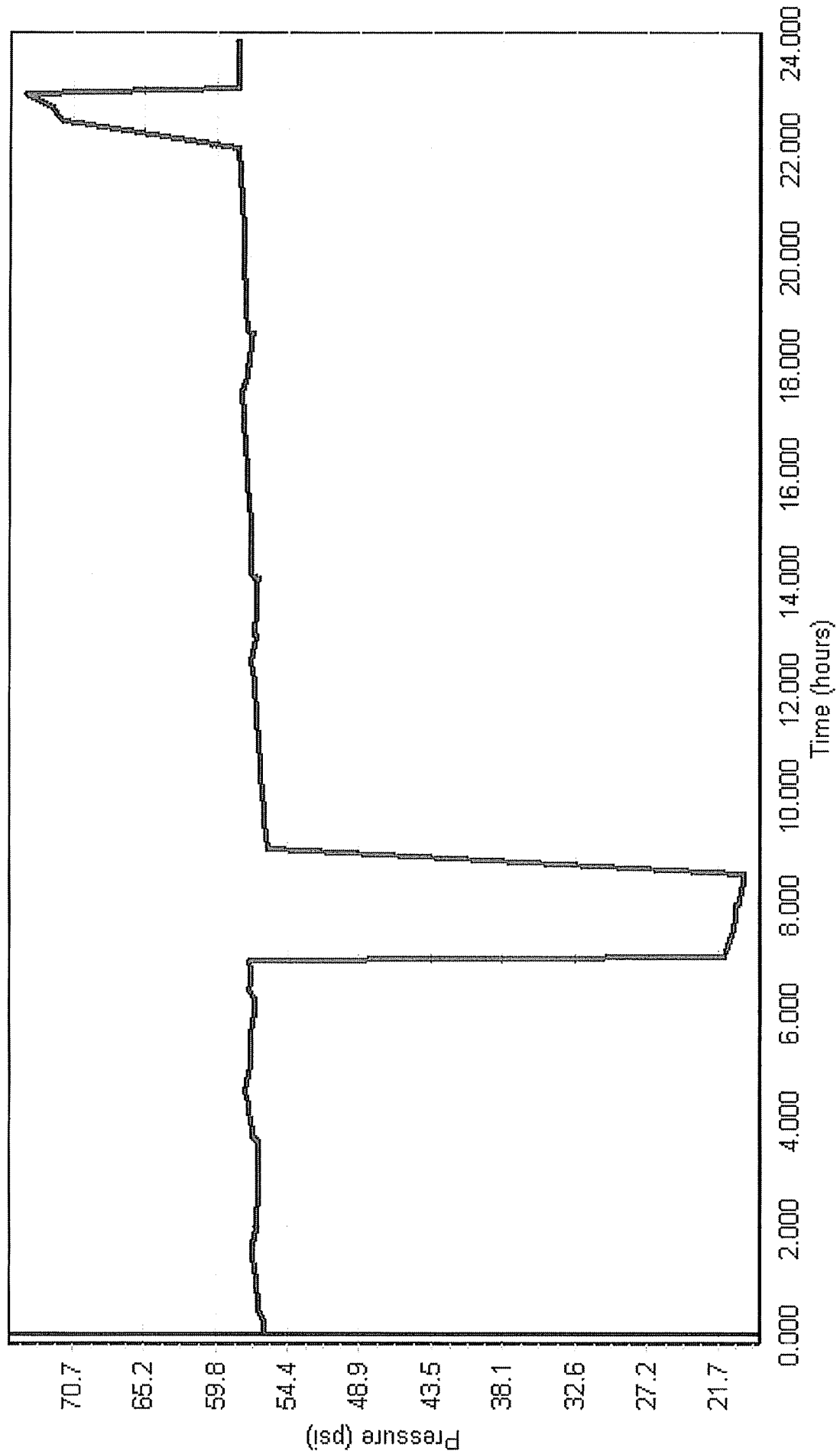
With the addition of the tank, pressures appear to fluctuate less. For instance, at high elevations of 1100, pressures varied from 50-82 psi without the tank whereas pressures varied from 58-78 psi with the tank. In addition, fire flow capabilities were seen to increase with the addition of the tank. At high elevations of 1100, maximum fire flow was seen to be 694 gpm without the tank whereas maximum fire flow was seen to be 1300 gpm with the tank.

Since these are preliminary findings with the TAW hydraulic model from year 2000, it is recommended to further study and design this proposed tank with the IDSE hydraulic model.

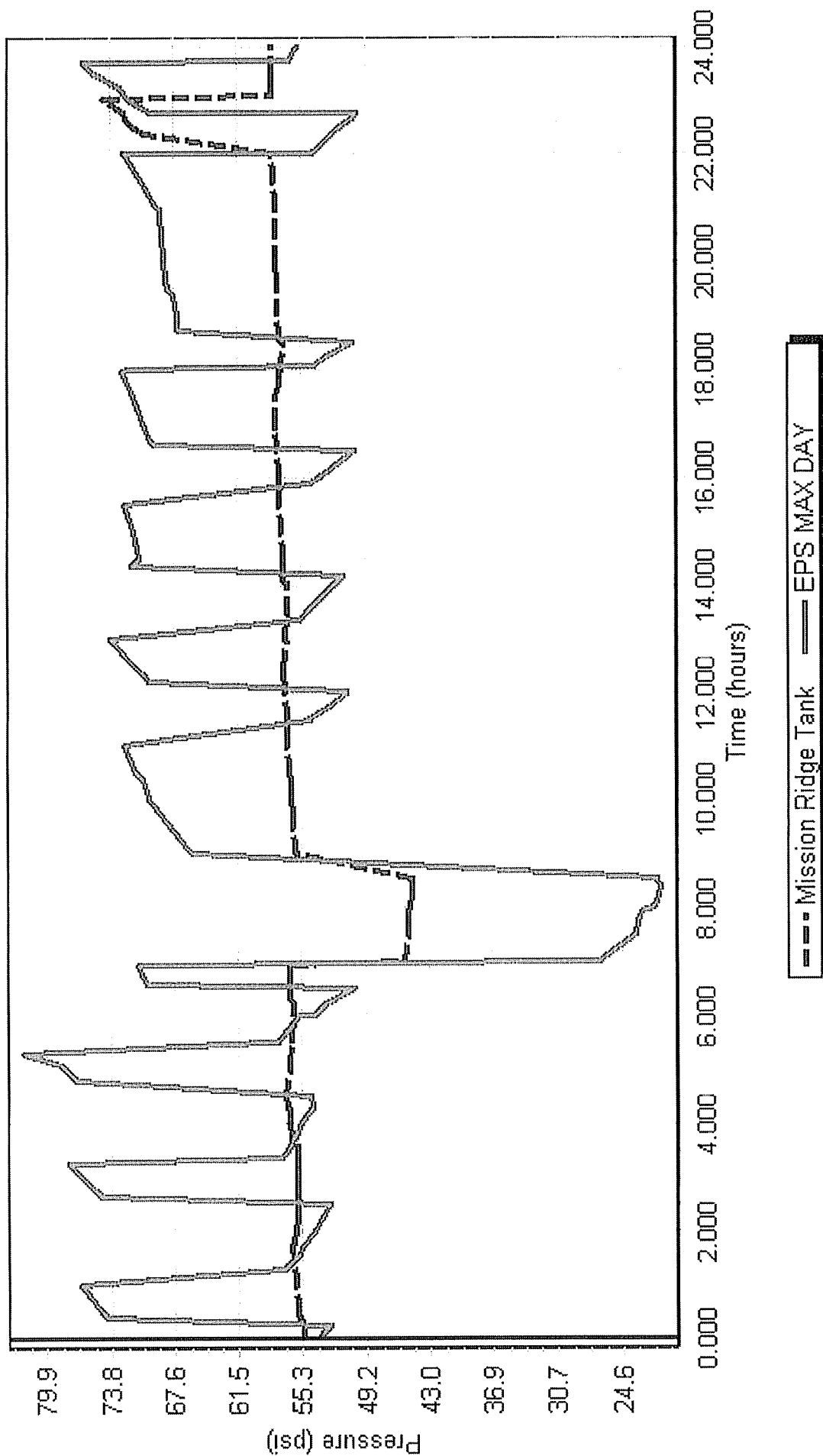
American Water
Kentucky American Water
2300 Richmond Rd
Lexington, KY 40502
T 859-269-2386
F 859-268-6327
E www.amwater.com



Mission Ridge Tank - Maximum Fire Flow (J-9018) at 1300 gpm



Mission Ridge Tank - Fire Flow Comparison (J-9018) at 695 gpm





Memo

To:	Kate Nartey	From:	Shannyn Walker, P.E.
Cc:	Randy Taylor	Depart.	KAW - Engineering
Depart.	TAW - Engineering	Phone	859-268-6351
		Fax	859-268-6374
Pages	1	Date	2006-11-13

Re: Proposed 1.25 MG EST at Mission Ridge

Per your request, a preliminary hydraulic analysis was performed with a 1.25 MG elevated storage tank installed in the northern part of the of Missionary Ridge pressure zone. There were a number of high elevation areas at 1100 MSL in the northern area, but for initial analysis the tank was put at the intersection of North Crest Rd and Wilcox Blvd as recommended by the CPS. The overflow elevation was set at 1132 ft, similar to the other Missionary Ridge tanks.

With the addition of the tank, pressures appear to fluctuate less. For instance, at high elevations of 1100, pressures varied from 50-82 psi without the tank whereas pressures varied from 58-78 psi with the tank. In addition, fire flow capabilities were seen to increase with the addition of the tank. At high elevations of 1100, maximum fire flow was seen to be 694 gpm without the tank whereas maximum fire flow was seen to be 1300 gpm with the tank.

Since these are preliminary findings with the TAW hydraulic model from year 2000, it is recommended to further study and design this proposed tank with the IDSE hydraulic model.

American Water
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E www.amwater.com



Tennessee-AMERICAN WATER COMPANY
Chattanooga
Missionary Ridge Tank and Main Installations
IP 07-01
Detailed Cost Estimate

JDE Code	Description of Activity		Estimate
TRE	Transferred Expenditures		
PRE	Preliminary Engineering		\$40,000
DES	Detailed Design, Bidding & Contract Award		\$85,000
PER	Permits & Approvals		\$20,000
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		
LND	Land, Land Rights & Asset Acquisition		\$100,000
ACQ	Utility Asset Acquisition		
Acct #	UTILITY PLANT CONSTRUCTION		
330	Distribution Reservoirs and Standpipes		\$2,227,000
331	Transmission & Distribution Mains		\$155,000
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
10%	Contingency (on construction costs only)		\$239,000
2%	Capitalized Clearing (based on rate stated to left)		\$57,000
	Total Activity Cost		\$2,923,000
3.50%	AFUDC (based on annualized rate stated to left)		\$77,000
	Total Project Cost to be Authorized		\$3,000,000
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			
2007			249,900
2008			
2009			
2010			
2011			
2012			
SUB-TOTAL			\$249,900
	<i>Prorated AFUDC</i>		\$7,000
TOTAL			\$256,900
	<u>Implementation Costs</u>		
Priors			
2007			
2008			1,062,337
2009			\$1,610,349
2010			
2011			
2012			
SUB-TOTAL			\$2,672,686
	<i>Prorated AFUDC</i>		\$70,000
TOTAL			\$2,742,686
<u>Total Project Cost</u>			\$2,999,586

IP07-01

DESCRIPTION OF ACTIVITY	ENTITY RESP.	MONTHS											
		1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Engineering													
Detailed Design.													
Bidding & Contract Award													
Land Acquisition, Permits & Approvals													
Construction													
PROJECT COSTS		\$5,107	\$5,122	\$10,245	\$20,489	\$10,334	\$25,686	\$35,375	\$97,369	\$31,255	\$10,914	\$729	

3 of 5

4 of 6

5 of 6

5 of 6

TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
Missionary Ridge Tank and Main Installations
IP 07-01

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$3,000,000	
Financing (based on above cost of capital)	\$334,090	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	60,795	2.10%
Property Tax (applies to land & structures accounts only)	2,690	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	0	
Total Additional New Revenue Required to Support Project	\$397,574	
Projected 2007 Revenues	\$37,257,000	
Required Price Increase		1.067%

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666



CAPITAL INVESTMENT MANAGEMENT PROJECT APPROVAL

Approved Stage: *Date:*
In Progress PNI *Date:* 04/05/2005
Stage:
In Progress Saved as draft
Status:

REGION: Southeast
COMPANY: Tennessee American Water
JDE BUSINESS UNIT: Chattanooga

PROJECT TITLE: East Ridge Storage Tank
BUSINESS UNIT NO: 26020003

1. **Accountability**

PNI Document Prepared By Randy Taylor
Project Manager Randy Taylor
Asset Owner or Project Sponsor Monty Bishop

2. **Prior Documentation**

PNI



East Ridge Tank.pdf East Ridge Tank sketch 12-16-05.pdf The project was identified in the last CPS , done in 2000 as IP 00-03 and was a high priority at that time . It was listed as being in the design / construction phase at that time , but has been postponed until the land could be acquired . A copy of the CPS is attached .



East Ridge Tank -CPS.pdf

3. **Need for the Project**

PNI The project is needed to overcome a 1 MG storage deficit in the East Ridge zone

4. **Recommended Solution**

PNI The solution is to build a 1 MG storage tank

Does this project require the acquisition of land and/or buildings via either purchase or lease? Yes
Does this project require the acquisition of easements or right-of-ways? No
Does this project include any additional funding which is specifically for the purpose of providing an environmental benefit outside the scope of the project itself (i.e. related to Corporate Social Responsibility)? No

5. **Outputs and Benefits**

PNI The project will provide an additional 1 million gallons of water storage . Computer model simulations show that pressures at the intersection of Shallowford Rd / Gunbarrell Rd. will improve from a range of 85-126 psi currently to a range of 115 - 137 after completion of the project . Likewise , fire flow capabilities at the same location will increase from 2500 to 3500 gpm .

6. **Options**

PNI The option to do nothing would not solve the storage deficit problem . Three other optional sites were closely examined but were not economically available and more importantly were formally ruled on by the Federal Aviation Administration as being unacceptably limited in tank height / elevation due to proximity to an airport and flight paths.

7. Schedule

<i>PNI</i>	ACTIVITY	DATE
	Project Start	July 3, 2000
	Project Implementation Proposal Submission	
	Substantial Project Completion (in-service)	November 17, 2006
	Final Project Completion	December 15, 2006
	Post Project Review	January 19, 2007



8. Project Cost and Cash Flow

		U.S. Dollars							
<i>PNI</i>	COMPONENT	TOTAL	PRIOR YRS	2005	2006	2007	2008	2009	2010
	Preliminary Cost (PNI)	\$62,000	\$12,000	\$50,000					
	Implementation Cost (PIP)	\$1,388,000				\$1,388,000			
	Total Project Cost	\$1,450,000	\$12,000	\$50,000	\$0	\$1,388,000	\$0	\$0	\$0
	Current SCEP Approved Cost	\$1,450,000		\$50,000		\$1,400,000			
	Difference	\$0	\$12,000	\$0	\$0	\$-12,000	\$0	\$0	\$0
	Advances or Contributions	\$0							
	Total Company Funded	\$1,450,000	\$12,000	\$50,000	\$0	\$1,388,000	\$0	\$0	\$0
	Cost of Removals	\$0							



East Ridge tank cost.XLS

9. Budget Discussion

PNI Refer to Section 7

10. Rate Impact

PNI

11. Risks

PNI

12. Project Delivery Method

PNI Conventional Design-Bid-Build

13. Resource Needs

PNI

14. Deliverables

PNI

15. Drivers

<i>PNI</i>	ASSET TYPE	PURPOSE	CODE	%
		Water - Central Capacity improvement for present need or 0 - 3 year growth	GCCA01	40
	Drinking Water - Pumping and Storage	Water - Fire Protection	WPRQFP01	30
	Drinking Water - Pumping and Storage	Water - Customer Satisfaction, Pressure	WPRQCS02	30

TOTAL 100

16. **Priority Ranking**

PNI Project No: Date of Ranking: March 10, 2005
Out of: 33

17. **Project Manager Routing**

Stage of Project: PNI
Status of Project: Saved as draft
Approval Requested at Meetings of:

FOR ADMINISTRATIVE USE ONLY

A. **Pre-CIMC Review**

PNI Reviewed By:

Comments:
Action:

B. **CIMC Review and Approval**

PNI Reviewed By:
Approved By: Title Primary Approver or Delegated Authority

Comments:
Action:

C. **CIRC Review and Approval**

PNI Reviewed By:
Approved By: Title Primary Approver or Delegated Authority

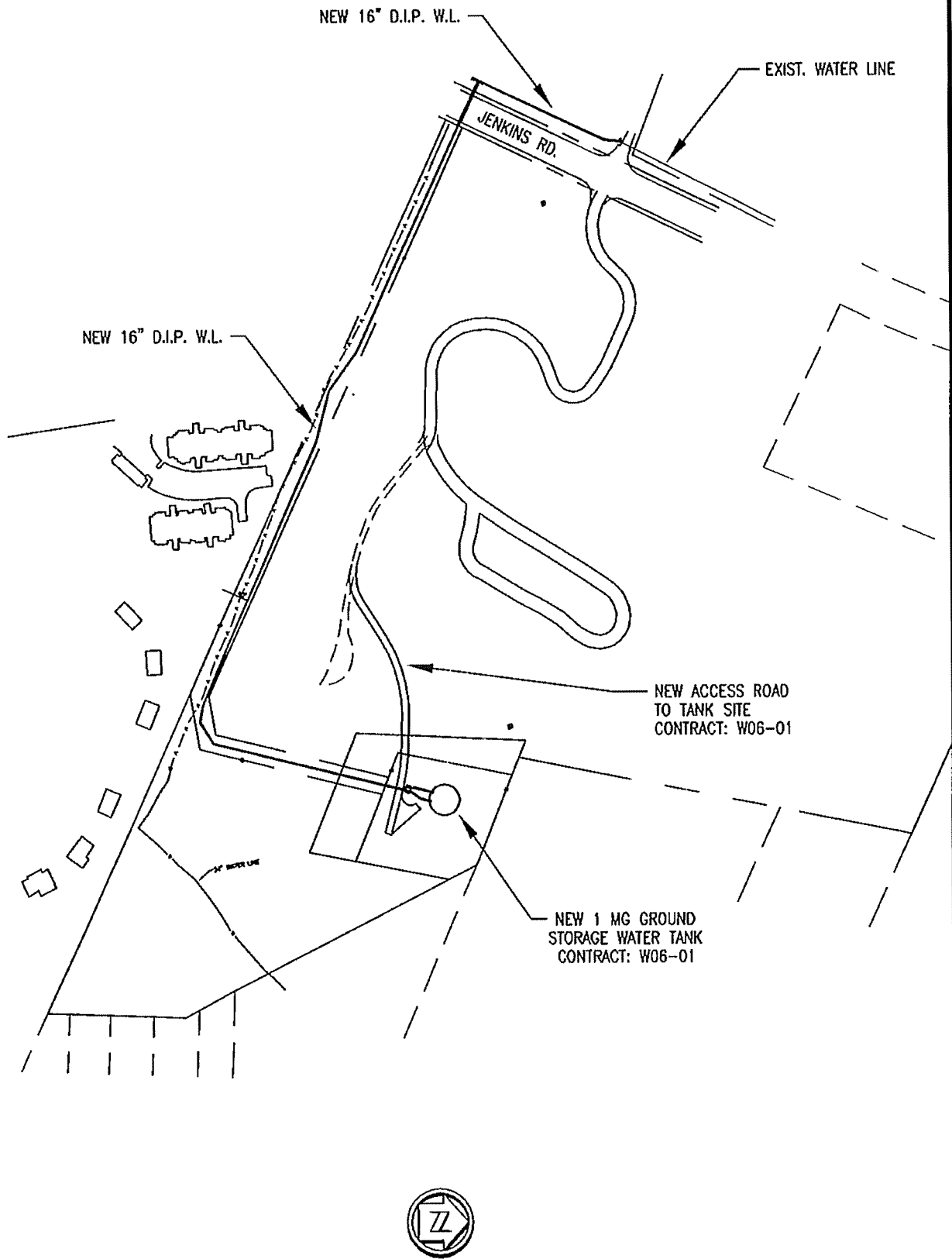
Comments:
Action:

D. **Modification History**

04/04/2005 Randy Taylor (Saved as draft)
04/05/2005 Randy Taylor (Saved as draft)
04/05/2005 Randy Taylor PNI (Saved as draft)
04/06/2005 Lisa M Bohenick PNI (Saved as draft)
04/07/2005 Randy Taylor PNI (Saved as draft)
04/07/2005 Bruce E Juergens PNI (Saved as draft)
04/14/2005 Randy Taylor PNI (Saved as draft)
12/16/2005 Randy Taylor PNI (Saved as draft)

E. **Deletion Request**





 GRW Engineers, Inc. LEXINGTON LOUISVILLE NASHVILLE INDIANAPOLIS FORT MITCHELL KNOXVILLE ARLINGTON	PROPOSED 1 MG EAST RIDGE WATER TANK	Scale: 1"=300'
		Proj. No. 7697
	TENNESSEE AMERICAN WATER COMPANY	Sheet: 1 of 1

NOV. 13, 2003 3:08PM WV WATER

NO. 825 P. 2/7



American Water Works Service Company, Inc.

Approved at Board of
Directors Meeting
December 14, 1999

1025 Laurel Oak Road • P.O. Box 1770 • Voorhees, New Jersey 08043 • (609) 348-8201 • Fax (609) 348-8380

November 22, 1999

File No. 130-8362

IP 00-03

**TENNESSEE-AMERICAN WATER COMPANY
PROPOSED 2000 INVESTMENT PROJECT
1.0 MG STORAGE TANK AND TRANSMISSION
IMPROVEMENTS IN EAST RIDGE**

Reference: 1999 Draft Comprehensive Planning Study, Project A-8.

SUBJECT

The need for additional distribution storage capacity and associated transmission mains in the East Ridge pressure zone for flow equalization and fire protection.

RECOMMENDATION

It is recommended that funds be authorized for the design and property acquisition for a 1.0 MG storage tank to be constructed in the East Ridge pressure zone along with the design of 2,500 feet of 16-inch connecting main.

ESTIMATED COST

Total Estimated Cost	\$245,000
Proposed 2000 Expenditure	245,000

INVESTMENT PROJECT REVIEW		
DEPARTMENT	BY	DATE
ENGINEERING	<i>[Signature]</i>	11-22-99
WATER QUALITY	<i>[Signature]</i>	
INFO. SYSTEMS		
OTHERS		
RECOMMENDED FOR APPROVAL:		
<i>[Signature]</i>		
PRESIDENT		

NOV. 13. 2003 3:09PM WV WATER

NO. 025 P. 4/7

Tennessee-American Water Company
Proposed 2000 IP
1.0 MG Storage Tank and Transmission
Improvements in East Ridge
November 22, 1999

DISCUSSION

Portions of the Tennessee-American system in northeast Chattanooga and in East Ridge are experiencing considerable growth. The East Ridge zone covers an area of almost 50 square miles and accounts for approximately 25 percent of system demand.

While overall system demand has remained relatively steady in recent years, water consumption has declined in the central portion of the system, and has increased substantially in the extremities of the system. Medical centers, commercial complexes and residential developments are being constructed throughout the East Ridge zone. Considerable commercial growth has occurred on the eastern side of the East Ridge zone due to the Hamilton Place Mall. One of the Water Company's resale points to Catoosa Utility District is located east of I-75 at Scruggs Road. Residential growth has been strong in the Ryall Springs area which is supplied through the East Ridge zone. Also, half of new subdivisions and fire services installed in the last few years were located east of I-75 in the East Ridge zone. A County Industrial Park is proposed for the area east of I-75 and north of Bonny Oaks Drive, and additional residential development is anticipated in the northeastern and southeastern portions of the zone.

A storage analysis conducted as part of the CPS indicates that a deficit currently exists in the East Ridge zone, and continued customer growth will raise the deficit to 1.2 MG in the future. In addition, the large area served by the East Ridge zone, and the proximity to the East Ridge Booster Station limit the effectiveness of the existing East Ridge Reservoir for providing equalization storage throughout the zone during peak demand periods.

Additional storage capacity is needed to provide adequate pressure to support the associated growth in customers and fire protection needs. It is recommended that a new 1.0 MG tank be constructed. The storage tank should be located in the eastern portion of the East Ridge zone close to these growth areas. A potential location for the storage tank would be at the high elevation area on Panorama Drive south of East Brainerd Road.

In order to properly connect the proposed tank to the distribution system, approximately 2,500 feet of 16-inch main should be installed. The proposed tank should have an overflow elevation of approximately 1,000 feet, and an operating range of 960 feet to 1,000 feet. A ground storage reservoir emptied by gravity is preferred, but if property at sufficient elevation to accomplish this is not available, the tank should be constructed as an elevated tank.

The proposed tank site is located southeast of the Chattanooga Airport. Due to the airport's proximity, approval will be required from the Federal Aviation Administration (FAA). The FAA also maintains a Vortac site to the south of the proposed tank location. Vortac is part of the FAA air traffic navigation system, and additional restrictions apply to objects located within a specific radius of a Vortac site. If the proposed tank site is not approved by the FAA, an alternate site in the eastern portion of the East Ridge zone must be chosen.

NOV. 13. 2003 3:09PM WV WATER

NO. 825 P. 3/7

Tennessee-American Water Company
Proposed 2000 IP
1.0 MG Storage Tank and Transmission
Improvements in East Ridge
November 22, 1999

ADEQUACY

The funds requested by this investment project memorandum are adequate for the property acquisition, design, bidding and permitting efforts associated with this project.

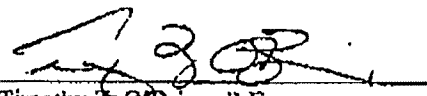
NOV. 13. 2003 3:09PM WV WATER

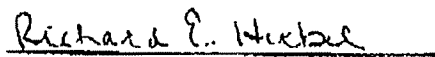
NO. 825 P. 5/7

Tennessee-American Water Company
Proposed 2000 IP
1.0 MG Storage Tank and Transmission
Improvements in East Ridge
November 22, 1999

Due to the projected customer growth in the northern half of the zone, the large area of coverage by the East Ridge zone, fire protection needs, the Tennessee DEC requirement for one day storage, and the need to take storage tanks out of service for maintenance and painting, a second tank is recommended in the future to satisfy the remaining storage deficit. It is more cost-effective to ultimately provide several tanks in this large service area than constructing a single tank and significant pipeline reinforcement to transmit fire flows throughout the gradient. Also, when the tank recommended under this memorandum is completed, the operation of the existing East Ridge Reservoir should be evaluated. Since the reservoir is located near the East Ridge Booster Station, turnover of the tank volume will be limited. If adequate turnover cannot be achieved through operational means, a booster should be installed on the reservoir to convert this tank to pumped storage.

Design, acquisition of property and easements, FAA approval, permitting and bidding are scheduled for 2000, and construction is scheduled for 2001. The estimated total project cost of \$1,900,000 is within a ± 15 percent accuracy, assuming that a pump station is not necessary.
\$2,443,000


Timothy Z. O'Brien, P.E.


Richard E. Hubel, P.E.
Director - Design

NOV.13.2003 3:09PM WV WATER

NO.825 P.6/7

**TENNESSEE-AMERICAN WATER COMPANY
1.0 MG STORAGE TANK AND TRANSMISSION
IMPROVEMENTS IN EAST RIDGE**

Detailed Cost Estimate

Item	Category	Estimate
<u>Tank Construction</u>		1,900,000
Property Acquisition	Company	\$100,000 275,000
Geotechnical Investigation	Contract	15,000
Surveys (tank and pipeline)	Contract	15,000
Detailed Design	Company	70,000
Permits/Easements	Company	15,000
Bidding/Evaluation	Company	<u>15,000</u>
		\$220,000 2,305,000
AFUDC		<u>15,000</u> 138,300
		\$245,000 2,443,000

AJB/sdb
11/22/99
wreg/tenn/tank-4 lwp

TENNESSEE-AMERICAN WATER COMPANY
ECONOMIC ANALYSIS OF THE IMPACT OF CAPITAL SPENDING PROPOSAL
IP-02-04 Lone Oak Utility District, O & M.

DETERMINATION OF REVENUE REQUIREMENT--First Full Year--2003

Input	1 Authorized Rate of Return on Common Equity	11.35%
Input	2 Federal Income Tax Rate	35.00%
calc	3 Return on Common Equity Before Federal Income Tax	17.46%
Input	4 State Income Tax Rate	6.00%
calc	5 Required Rate of Return on Common Equity Before Income Taxes	18.58%
Input	6 Common Equity Ratio for Project	40.00%
calc	7 Weighted Cost of Common Equity Before Tax	7.43%
calc	8 Long Term Debt Ratio for Project	60.00%
Input	9 Estimated Cost for New Debt	5.50%
calc	10 Weighted Cost of Debt	3.30%
calc	11 Total Pre-Tax Cost of Capital	10.73%
Input	12 Total Estimated Cost of Project	\$ 2,304,700
Input	13 Investment by Others	\$ -
	13a Add AFUDC	\$ 138,300
calc	14 Net Investment Financed by Company	\$ 2,304,700
calc	15 New Common Equity	\$ 921,880
calc	16 New Long Term Debt	\$ 1,382,820

<u>TOTAL REVENUE REQUIREMENT</u>		<u>AMOUNT</u>	<u>RATE</u>
calc	17 Required Pre-Tax Operating Income	\$ 247,304	10.73%
Input rate	18 Depreciation @Rate (Distribution system assets only-mains)	\$ 36,875	1.60%
Input rate	19 Property Tax @Rate	\$ 15,902	0.69%
Input	20 Change in Operating and Maintenance Expense	\$ -	
Input	21 Revenue from New Customers	\$ 83,006	
calc	22 Total Net Revenue Requirement	\$ 217,078	
Input rate	23 Revenue Tax @Rate	\$ 13,858	6.00%
calc	24 Total Revenue Requirement	\$ 230,932	
Input	25 Latest 12 Months Revenue	\$ 30,630,972	
calc	26 Required Price Increase		0.75%

Reviewed by TAWC: _____

Approved by Southeast Region: _____

NOV. 13. 2003 3:18PM WV WATER

NO. 825 P. 7/7

**Tennessee-American Water Company
Economic Analysis of the Impact of Capital
Spending Proposal
1.0 MG Storage Tank & Transmission
Improvements in East Ridge**

Determination of Revenue Requirement

Authorized Rate of Return on Common Equity	11.35%
Federal Income Tax Rate	35.00%
Return on Common Equity before FIT	17.46%
State Income Tax Rate	6.00%
Required Rate of Return on CE for Project	18.57%
Common Equity Ratio for Project	40.00%
Weighted Cost of Common Equity before Tax	7.43%

Long Term Debt Ratio for Project	60.00%
Estimated Cost Rate for New Debt	7.50%
Weighted Cost of Debt	4.50%

Total Pre-Tax Cost of Capital	11.93%
-------------------------------	--------

Total Estimated Cost of Project	\$1,900,000
Investment by Others	0
Net Investment Financed by Company	1,900,000
New Common Equity	\$760,000
New Long Term Debt	1,140,000

<u>Total Revenue Requirement</u>		<u>Amount</u>	<u>Rate</u>
Required Pre-Tax Operating Income		\$226,670	11.93%
Depreciation Rate	1.800%	34,200	1.80%
Property Tax Rate	1.5483%	29,418	1.55%
Change in Operation & Maint. Expense		0	0.00%
Revenue from New Customers		0	0.00%
Total Net Revenue Requirement		\$290,288	15.28%
Revenue Tax Rate	1.31160%	3,858	0.20%
Total Revenue Requirement		\$294,146	15.48%

Latest 12 Months Revenue	\$30,754,074
Required Price Increase	0.96%

TENNESSEE-AMERICAN WATER COMPANY

IP 00-03

CONSTRUCT 1.0 MG TANK & 2,500 FEET OF 16-INCH MAIN
IN EAST RIDGE ZONE

Design:	12 months	Design Cost:	\$250,000
Construction:	12 months	Construction Cost:	\$1,650,000

(* Note: Cost estimate does not include property acquisition)

Description

The East Ridge pressure zone covers a very large geographic area. Customer growth is projected, primarily in the eastern portion of zone. There are a number of large users in the East Ridge zone, and ISO has identified Needed Fire Flows up to 3,500 gpm in the southern portion of the zone. Also, water purchased by the Catoosa Utility District is obtained from the south west portion of the zone. Purchase amounts through this connection are expected to increase.

While there is also a lack of storage in the northern half of the zone, the higher priority is the existing customer base and large users located in the southern half of the pressure zone. The eastern Chattanooga area and the vicinity of the Hamilton Place Mall are experiencing considerable growth. Residential and commercial development is occurring at a rapid pace. The effectiveness of the existing East Ridge Reservoir is limited due to its proximity to the East Ridge Booster Station which supplies the zone. The only other storage is the 1.0 MG East Brainerd Standpipe.

Additional storage is needed to meet current and future equalization and fire protection needs in the zone. The current distribution storage deficit is 0.6 MG. The deficit is projected to increase to 0.7 MG by the proposed construction year of 2001, and to 1.0 MG by 2015 if no additional storage is built.

Recommendation

It is recommended that a 1.0 MG distribution storage tank be constructed in the area along East Brainerd Road and Panorama Drive to address growth in demand, and to provide improved coverage to the large area supplied by this pressure zone. Property should be purchased for this project as soon as practicable. Property selection should be based on the criteria in Appendix A.

The proposed tank should have an overflow elevation of approximately 1,000 feet, and an operating range of 960 feet to 1,000 feet. Approximately 2,500 feet of 16-inch main will be required to connect the tank to the distribution system.

Two additional projects are recommended for construction in conjunction with the proposed tank. First, 5,700 feet of 16-inch main in East Brainerd Road (Project A-4), should be installed in conjunction with the tank project. This main is needed to ensure proper refill of the proposed tank. Second, after the proposed tank is completed, a booster should be installed on the East Ridge Reservoir to convert this tank to pumped storage (Project A-5).

Computer model simulations of the proposed tank were performed under current and future conditions. The results indicate that the existing East Ridge booster pumps should operate near their design point after the new tank is constructed. The simulations included the main proposed for installation under Project A-4. Model results indicate that the new tank should raise the hydraulic grade line by approximately 25 feet under peak hour conditions.

Alternatives

If storage cannot be located within this proposed area, other potential sites to be considered are the northeast corner of the zone above Interstate 75 and the high elevation area just east of the Chattanooga City limit, near Shallowford or Standifer Gap Road. Either of these options will likely require the installation of a main to connect the storage tank to the distribution grid.

Tennessee-AMERICAN WATER COMPANY

Chattanooga

East Ridge Storage Tank

IP 00-03

Detailed Cost Estimate

JDE Code	Description of Activity		Estimate
TRE	Transferred Expenditures		
PRE	Preliminary Engineering		\$27,000
DES	Detailed Design, Bidding & Contract Award		\$23,000
PER	Permits & Approvals		
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		
LND	Land, Land Rights & Asset Acquisition		\$10,000
ACQ	Utility Asset Acquisition		
Acct #	UTILITY PLANT CONSTRUCTION		
330	Distribution Reservoirs and Standpipes		
331	Transmission & Distribution Mains		
	#N/A		
	#N/A		
	#N/A		
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	#N/A		
	#N/A		
	#N/A		
#DIV/0!	Contingency (on construction costs only)		
2%	Capitalized Clearing (based on rate stated to left)		\$1,000
	Total Activity Cost		\$61,000
3.50%	AFUDC (based on annualized rate stated to left)		\$1,000
	Total Project Cost to be Authorized		\$62,000
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			12,067
2004			
2005			49,000
2006			
2007			
2008			
2009			
SUB-TOTAL			\$61,067
	<i>Prorated AFUDC</i>		\$1,000
TOTAL			\$62,067
	<u>Implementation Costs</u>		
Priors			
2004			
2005			
2006			
2007			
2008			
2009			
SUB-TOTAL			
	<i>Prorated AFUDC</i>		
TOTAL			
<u>Total Project Cost</u>			\$62,067

Tennessee-AMERICAN WATER COMPANY									
Chattanooga									
East Ridge Storage Tank									
IP 00-03									
<u>Detailed Cost Estimate</u>									
JDE Code	Description of Activity	Estimate	Estimate	Basis of Current Estimate	(yes/no) Request Authorization	Prior Year Expenditures	(yes/no) Contract Retention	(# or all) Project Phase	
TRE	Transferred Expenditures								
PRE	Preliminary Engineering	\$27,000	\$27,000	proposals	all	12,067	no	all	
DES	Detailed Design, Bidding & Contract Award	\$23,000	\$23,000	proposals	all		no	all	
PER	Permits & Approvals							all	
CPR	Community/Public Relations Efforts							all	
UCA	Utility Commission Approvals							all	
CME	Construction Management				all			all	
LND	Land, Land Rights & Asset Acquisition	\$10,000	\$10,000	prior job	all		no	all	
ACQ	Utility Asset Acquisition								
Act #	UTILITY PLANT CONSTRUCTION								
330	Distribution Reservoirs and Standpipes			engineer	Authorization			Phase	
331	Transmission & Distribution Mains			engineer	none			1	
	#N/A				none			1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
	#N/A							1	
#DIV/0!	Contingency (on construction costs only)		\$122,000		none			1	
2%	Capitalized Clearing (based on rate stated to left)	\$1,000	\$28,000		part	\$241		1	
	Total Activity Cost	\$61,000	\$1,432,000			\$12,000			
3.50%	AFUDC (based on annualized rate stated to left)	\$1,000	\$18,000		part				
	Total Project Cost to be Authorized	\$62,000	\$1,450,000			\$12,000			
	Cost of Removals								

		Total Direct \$	Percent of Total by Plant Acct	Indirect Costs by Percent	Indirect Costs Manually	Total cost to Depreciatn	Total Annual Depreciation \$
Phase	total this phase for AFUDC calc AFUDC						12,308
2	construction;phase designated above construction;manual spread for multi-phase total construction this phase contingency on construction percentage of total construction for spread of "all" non-construction;allocated by percentage non-construction;phase designated above non-construction;manual spread for multi-phase total this phase for AFUDC calc AFUDC					O&C excess	
Phase	3 construction;phase designated above construction;manual spread for multi-phase total construction this phase contingency on construction percentage of total construction for spread of "all" non-construction;allocated by percentage non-construction;phase designated above non-construction;manual spread for multi-phase total this phase for AFUDC calc AFUDC					O&C excess	
Phase	4 construction;phase designated above construction;manual spread for multi-phase total construction this phase contingency on construction percentage of total construction for spread of "all" non-construction;allocated by percentage non-construction;phase designated above non-construction;manual spread for multi-phase total this phase for AFUDC calc AFUDC					O&C excess	
Acct #	JDE Categories						
304	Structures & Improvements - Water						
306	Lake, River & Other Intakes						
310	Power Generation Equipment						
311	Pumping Equipment - Water						
320	Water Treatment Equipment						
330	Distribution Reservoirs and Standpipes						
331	Transmission & Distribution Mains						
333	Services - Water						
334	Meters & Meter Installations - Water						
335	Hydrants						
339	Other Water Source Plant						
340	Office Furniture & Equipment - Water						
		822,000	67.27%	33.63%	968,561	20,243	
		400,000	32.73%	16.367	471,319	10,416	

341 Transportation Equipment - Water 9.46%
342 Stores Equipment - Water 4.98%
343 Tools, Shop & Garage Equipment - Water 3.85%
344 Laboratory Equipment - Water 11.12%
346 Communication Equipment - Water 7.69%
347 Miscellaneous Equipment - Water 2.89%

Acquired Assets
Total \$1,439,880 \$30,659
Composite Deprec Rate 2.13%
Acquired Land & Structures for Property TaxCalc
Total Land & Structures for Property Tax Calc 10000

Preliminary Costs			
Priors			12,067
2004			
2005			49,000
2006			
2007			
2008			
2009			
SUB-TOTAL			\$61,067
Prorated AFUDC			\$1,000
TOTAL			\$62,067
Implementation Costs			
Priors			
2004			
2005			
2006			
2007			
2008			
2009			
SUB-TOTAL			
Prorated AFUDC			
TOTAL			
Total Project Cost			\$62,067

12,067
49,000

1,371,000

IP00-03

[illegible]

4/22/2008

000

Tennessee-AMERICAN WATER COMPANY													
Chattanooga East Ridge Storage Tank IP00-03						2007							
DESCRIPTION OF ACTIVITY	ENTITY RESP.	MONTHS											
		1	2	3	4	5	6	7	8	9	10	11	12
Preliminary Engineering	Consultant												
Design	Consultant												
Land Acquisition	TAWC												
Construction	Contractor												
PROJECT COSTS		\$125,000	\$125,000	\$126,000	\$126,000	\$126,000	\$126,000	\$127,000	\$127,000	\$128,000	\$125,000	\$125,000	

505

9 of 9

TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
East Ridge Storage Tank
IP 00-03

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$1,450,000	
Financing (based on above cost of capital)	\$161,477	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	30,659	2.13%
Property Tax (applies to land & structures accounts only)	269	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	0	
Total Additional New Revenue Required to Support Project	\$192,405	
Projected 2005 Revenues	\$33,359,412	
Required Price Increase	0.577%	

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666

A1a. Document Prepared By

Preliminary - 2 Galavotti, Michael

A1b. Project Owner or Sponsor

Stage	Asset Owner	IT Proj Sponsor
Preliminary - 2	Watson, John S.	

A2a. Project Recommended via CPS?

Preliminary - 2 yes

A2b. CPS Project Number

Preliminary - 2 A2,B5,B8,B12,B15,B19

A2c. Year CPS Completed

2000

A3. Problem or Opportunity

Preliminary - 2 Citico WTP does not have the reliable capacity to meet the 66 MGD projection for 2015 and 68 MGD projection for 2020. Detailed in Demand & Capacity Analysis attached

A4. Recommended Solution

Preliminary - 2 Phase I will address flocculators and sedimentation basins (pretreatment), hydraulic bottle necks, chemical tank truck containment and ammoniation design only

A5. Measurable Benefits

Preliminary - 2 Increased reliable pretreatment capacity to 68 MGD

A6. Schedule

	Est Start	Est Impl	Est In Service	Est Complete	Rate Certain
Preliminary - 2	11/30/2008	8/29/2008 00:00:00	9/30/2010	12/30/2010	

A7. Project Cost and VOW Forecast

Expenditure Type									
Task	7 Year Total	2006	2007	2008	2009	2010	2011	2012	
Preliminary - 2	Estimate Revision: 9								
Additions									
<none>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2-Preliminary (FP)	10,711,634.22	\$55,518.88	\$202,115.34	\$2,400,000.00	\$3,654,000.00	\$1,400,000.00	\$0.00	\$0.00	
AFUDC	1,410,917.43	\$91.28	\$10,374.61	\$134,729.74	\$553,161.17	\$712,560.63	\$0.00	\$0.00	
Overheads	1,576,854.46	\$0.00	\$21,454.46	\$369,600.00	\$970,200.00	\$215,600.00	\$0.00	\$0.00	
Deferred									
<none>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

A7. Project Cost and VOW Forecast

Expenditure Type		7 Year Total	2006	2007	2008	2009	2010	2011	2012
Task									
Preliminary - 2	Estimate Revision: 9								
Deferred									
Overheads		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Expense/Revenue									
<none>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Removals									
<none>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total: 13,699,408.11		\$55,610.16	\$233,944.41	\$,904,329.74	\$,177,361.17	\$,328,160.63	\$0.00	\$0.00	\$0.00

A8. Schedule and Cost Discussion

Preliminary - 2	The costs are based on estimates from CDM, project scope change as structural investigations identified deficiencies in existing walls and floor slabs
-----------------	--

A9. Rate Impact (%)

Preliminary - 2	4,933 detailed Prelim 2 Citico WTP
-----------------	------------------------------------

A10. Asset and Purpose Codes

Stage	Asset Code	Purpose Code	Percentage
Preliminary - 2	WTR2. Treatment & Residuals	1. Regulatory Compliance and Goals	50
Preliminary - 2	WTR2. Treatment & Residuals	2. Capacity to Meet Growth	50
Total for Stage 2			100

B1. Project Manager

Preliminary - 2	Galavotti, Michael
-----------------	--------------------

B2. Background

Preliminary - 2	Citico WTP existing reliable capacity is 59.875 MGD, the existing flocculators are in disrepair and have been cited by TDEC, there is no containment area at the chemical building, and no ammoniation facilities
-----------------	---

B3. Recommended Project Details

Preliminary - 2	Provide 3 stage flocculation for basins 1, 2, & 3, increase the capacity of basin 3 to 28 MGD with the addition of plate settlers and dividing walls, provide chemical truck containment and turnaround, and provide a parallel raw water line around hydraulic bottleneck
-----------------	--

B4. Project Delivery Risks

Preliminary - 2	Maintaining plant capacity during construction and working in and around existing structures
-----------------	--

B5. Investigated Options

Preliminary - 2

Pre-treatment options including tubes, plates and actifo are detailed in the Summary Pre-Treatment Options & Pre-Treatment Options attached

B6. Retirements

Preliminary - 2

No retirements are anticipated

B7. Preliminary Deliverables

Preliminary - 2

Detailed plans and specifications, permits, and bid results. Studies for filter capacity and TOC/DBP removal.

B8. Implementation Delivery Method

Preliminary - 2

Conventional Design-Bid-Build

B9a. Prelim Resources: Internal

Preliminary - 2

Technical services group

B9b. Prelim Resources: External

Preliminary - 2

Engineering Consultant

B9c. Impl Resources: Internal

Preliminary - 2

Engineering group

B9d. Impl Resources: External

Preliminary - 2

Engineering Consultant

B10a. Year-1 OpEx Costs-Fuel/Power

Preliminary - 2

Consultant estimate \$100k

B10b. O&M Salary & Wages

No additional staff is anticipated

B10c. Purchased Water

Preliminary - 2

No purchase water is anticipated

B10d. Waste Disposal

No waste disposal is anticipated

B10e. Chemicals

Preliminary - 2

No additional chemicals are anticipated

B10f. Other

No additional costs are anticipated

B11. Priority Ranking

Preliminary - 2

Project No:1 Out of:33

TO: File

RE: Citico Water Treatment Plant
Demand & Capacity Analysis

DATE: March 2007

Demand Projection

- RFP dated 10/31/06 for Citico WTP Upgrades was based upon existing 2005 customer demands and estimated a reliable capacity requirement of 65 mgd and 68 mgd for years 2015 and 2020, respectively based on projected maximum daily demands and in plant uses.
- Demand projections were updated with 2006 historical customer demands and are shown on attached Table 3-1, Table 3-2, and Exhibit 3-12. Based on this information, the projected maximum daily demand for the existing customer base (less Walden's Ridge Utility District, Lone Oak, and Suck Creek for design year 2020 is 58.89 mgd (base condition)). When factoring in additional demands for these districts and acquisitions, plus an in-plant use of 3.70 mgd, the reliable capacity requirement for the design year 2020 is 68 mgd.

Capacity Analysis

- The existing Citico WTP filtration capacity is as follows:

	Plant No. 1	Plant No. 2	Current Total
TOTAL	40 mgd	25 mgd	65 mgd
RELIABLE	38 mgd	21.875 mgd	59.875 mgd

- The future Citico WTP upgrade proposes to add 9 mgd of filtration capacity to Plant No. 1 facilities. Under this scenario, the filtration capacities would be as follows:

	Plant No. 1	Plant No. 2	Future Total
TOTAL	49 mgd	25 mgd	74 mgd
RELIABLE	46 mgd	21.875 mgd	67.875 mgd

Under this future scenario, the total reliable filtration capacity for the design year 2020 will be met.

- Design consideration for the clarification process
 - Existing capacities (assuming no operational limitations)
 - Plant 1 - 2 @ 15 mgd ea + 10 mgd (SB #3)
 - Plant 2 - 25 mgd (Aldrich units)
 - TOTAL - 65 MGD

- Future capacities (assuming no operational limitations)

Plant 1 - 2 @ 25 mgd (min) * No SB #3

Plant 2 - 25 mgd (Aldrich units)

Subtotal - 75 mgd

Less 3 mgd (one Aldrich out of service)

TOTAL 72 mgd

* RFP indicated to maximize capacity up to 30 mgd.

- Conclusion

Under future upgrade scenario, design reliable capacity of 72 mgd meets the minimum capacity requirement of 68 mgd for the year 2020.

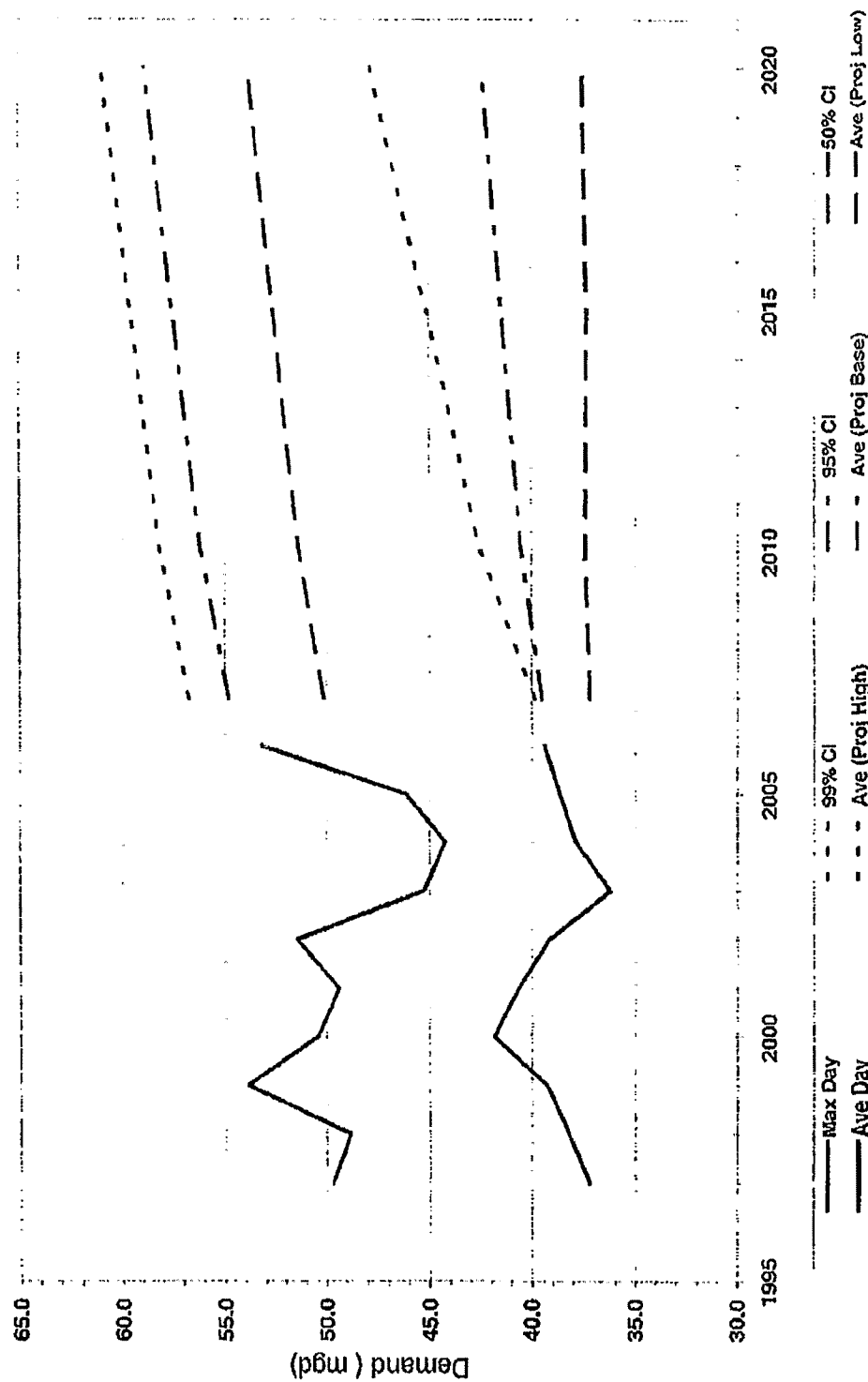
Table 3-2
Demand Summary
Tennessee American Water - Chattanooga District

Historic Demand (mgd)									
Year	Residential	Commercial	Industrial	Other	Non-Revenue	Avg Day	Max Day	Max/Avg Ratio	
1997	9.56	7.73	7.955	4.36	7.60	37.22	49.68	1.33	
1998	9.81	8.17	7.605	5.23	7.37	38.19	48.83	1.28	
1999	9.71	8.44	8.075	5.19	7.86	39.27	53.91	1.37	
2000	9.54	8.64	8.924	5.42	9.33	41.85	50.43	1.21	
2001	9.30	8.45	8.174	5.23	9.51	40.65	49.38	1.21	
2002	9.52	8.55	6.482	5.24	9.38	39.18	51.49	1.31	
2003	8.97	8.30	6.011	5.05	7.87	36.20	45.28	1.25	
2004	8.99	9.01	5.481	5.35	9.04	37.87	44.28	1.17	
2005	9.12	8.88	6.095	5.10	9.45	38.64	46.16	1.19	
2006	9.26	8.57	6.718	5.72	9.13	39.39	53.21	1.35	
Projected Demand (mgd)									
Low	2010	9.47	8.74	5.382	5.59	8.23	37.41		
	2015	9.82	8.85	4.922	5.91	7.84	37.34		
	2020	10.17	8.95	4.692	6.23	7.51	37.56		
Base	2010	9.91	9.08	6.548	6.04	8.91	40.49	56.17	
	2015	10.42	9.34	6.548	6.47	8.71	41.49	57.55	
	2020	10.92	9.60	6.548	6.89	8.49	42.46	58.89	
High	2010	10.30	9.42	6.875	6.58	9.36	42.54		
	2015	10.90	9.97	7.500	7.30	9.48	45.16		
	2020	11.50	10.52	8.255	8.02	9.57	47.87		

Table 3-1
Customer Summary
Tennessee American Water - Chattanooga District

		Historic Customers					
	Year	Residential	Commercial	Industrial	Fire Service	Other	Total
	1997	59,570	7003	159	933	553	68,218
	1998	59,784	7334	158	956	587	68,819
	1999	60,141	7588	152	987	602	69,470
	2000	60,242	7863	153	1014	614	69,886
	2001	60,063	7924	151	1030	622	69,790
	2002	60,344	8192	143	1056	637	70,372
	2003	60,951	8260	139	1067	636	71,053
	2004	61,688	8189	135	1078	633	71,723
	2005	62,328	8208	130	1054	641	72,361
	2006	63,356	8168	129	1069	667	73,389
		Projected Customers					
	2010	65,356	8248	117	1060	699	75,480
	2015	67,856	8348	107	1065	739	78,115
	2020	70,356	8448	102	1070	779	80,755
	2010	66,156	8408	125	1070	711	76,470
	2015	69,656	8648	125	1075	761	80,265
	2020	73,156	8888	125	1080	811	84,060
	2010	66,556	8568	125	1080	731	77,060
	2015	70,556	9068	125	1085	811	81,645
	2020	74,556	9568	127	1090	891	86,232

Exhibit 3-12
Tennessee American Water - Demand Summary



Tennessee-AMERICAN WATER COMPANY Chattanooga Citico WTP Improvements Phase I IP 05-03 <u>Detailed Cost Estimate</u>			
JDE Code	Description of Activity	December 2006 Estimate	October 2007 Estimate
TRE	Transferred Expenditures		
PRE	Preliminary Engineering		
DES	Detailed Design, Bidding & Contract Award		\$620,000
PER	Permits & Approvals		
CPR	Community/Public Relations Efforts		
UCA	Utility Commission Approvals		
CME	Construction Management		\$450,000
LND	Land, Land Rights & Asset Acquisition		
ACQ	Utility Asset Acquisition		
Acct #	UTILITY PLANT CONSTRUCTION		
320	Water Treatment Equipment		\$9,400,000
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
	#N/A		
25%	Contingency (on construction costs only)		\$2,350,000
2%	Capitalized Clearing (based on rate stated to left)		\$256,400
	Total Activity Cost		\$13,076,400
3.50%	AFUDC (based on annualized rate stated to left)		\$620,032
	Total Project Cost to be Authorized		\$13,696,432
	Cost of Removals		

	<u>Preliminary Costs</u>		
Priors			
2007			351,333
2008			281,067
2009			
2010			
2011			
2012			
SUB-TOTAL			\$632,400
	<i>Prorated AFUDC</i>		\$30,000
TOTAL			\$662,400
	<u>Implementation Costs</u>		
Priors			
2007			
2008			2,370,286
2009			\$7,110,857
2010			\$2,962,857
2011			
2012			
SUB-TOTAL			\$12,444,000
	<i>Prorated AFUDC</i>		\$590,032
TOTAL			\$13,034,032
<u>Total Project Cost</u>			\$13,696,432

2007

[illegible]

[illegible]

Tennessee-AMERICAN WATER COMPANY Chattanooga Cittico WTP Improvements Phase I IP05-03		2009											
DESCRIPTION OF ACTIVITY	ENTITY RESP.	MONTHS											
		1	2	3	4	5	6	7	8	9	10	11	12
Design	Consultant												
Construction Admin	Consultant												
Construction	Contractor												
PROJECT COSTS		\$601,606	\$603,204	\$604,801	\$606,399	\$607,997	\$609,595	\$611,193	\$612,790	\$614,388	\$615,986	\$617,584	\$619,181

[illegible]

[illegible]

[illegible]

**TN - AMERICAN WATER COMPANY
ECONOMIC ANALYSIS
Citico WTP Improvements Phase I
IP 05-03**

Type	(000's) Amount	Capital Structure	Cost Rate	Weighted Average Cost Rate	Revenue Multiplier	Revenue Requirement
Debt	\$43,040	51.6%	6.65%	3.43%		3.43%
Preferred	\$1,400	1.7%	5.01%	0.08%	1.63666	0.14%
Equity	\$38,922	46.7%	9.90%	4.62%	1.63666	7.57%
Total Financing Rate						11.14%

Capital structure and debt, preferred stock & equity cost rates are based on latest rate case

Total Revenue Requirement	Amount	Rate
Total Estimated Cost of Project	\$13,700,000	
Financing (based on above cost of capital)	\$1,525,677	11.14%
Depreciation (based on existing rates applied to cost estimates by acct)	312,279	2.28%
Property Tax (applies to land & structures accounts only)	0	2.69%
Revenue From New Customers	0	
Change in Operating & Maintenance Expense	0	
Total Additional New Revenue Required to Support Project	\$1,837,956	
Projected 2007 Revenues	\$37,257,000	
Required Price Increase	4.933%	

Revenue Multiplier Calculated as follows:

* Calculation:	
	100.00%
State Tax Rate	6.00%
Taxable Remainder	94.00%
Federal Tax Rate	35.00%
Effective Federal Tax Rate	32.90%
State Portion	6.00%
Federal Portion	32.90%
Effective Tax Rate	38.90%
Tax Expansion Factor (100% - 41.49%)	61.10%
Revenue Multiplier: (100% / 58.51%)	1.63666



Memorandum

*To: Dave Kaufman, John Watson, Mark Zinnanti, Susan Holmes,
and Kate Narthey*

From: Judy Alford

Date: July 25, 2007

*Subject: Tennessee American Water
Citico Water Treatment Plant (WTP) Evaluation of High-Rate
Pre-Treatment Options*

Purpose

The purpose of this report is to determine whether a high-rate pre-treatment process, such as Actiflo, is more cost effective or would have operation and maintenance benefits over tube settlers with vertical turbine flocculators as currently proposed upgrade of the Citico WTP. Following structural investigation of the existing Plant 1 sedimentation basin structures, it was determined that new structurally independent walls and base slabs would be required to support any modifications within the Plant 1 sedimentation basins. Once it was determined that new walls and floors would be required to upgrade the Plant 1 basins, American Water requested an evaluation of other pre-treatment process be conducted to confirm whether the currently proposed upgrades of tube settlers with vertical turbine flocculators should remain the recommended method of plant upgrade. The primary question posed by American Water was whether the Actiflo high-rate flocculation and sedimentation processes (or another high-rate treatment process) would be a cost effective alternative to the tube settlers. Because a 50 mgd Actiflo process could be installed inside existing Basin 3 while 50 mgd of tube settlers would require both Basins 2 and 3, CDM was requested to evaluate high-rate treatment alternatives to determine the cost, scheduling impacts, pros and cons, TDEC's opinion on using this type of process, other operational considerations, the impact on ancillary facilities, and the impact on the remaining scope of the project.

Actiflo has been determined to be the only applicable pre-treatment option that allows rates high enough to install 50 mgd of capacity inside of Basin 3 only. Other pre-treatment options are less applicable at the Citico WTP. Dissolved air flotation is more suited to large lake supplies with low turbidity and primarily requiring

*Tennessee American Water Citico WTP
Evaluation of High-Rate Pre-Treatment Options*

treatment for algae removal. Membranes and sludge blanket clarifiers would be such significant process changes pilot testing and potentially a coagulant change should be considered to assess applicability and cost-effectiveness. For example, a polymer is normally required with sludge blanket clarifiers. Also, sludge blanket clarifier basins are usually deeper than the current basins, have more dilute sludge (hence require another thickener), and are usually constructed in smaller basin sizes that would require construction of more walls. It is unlikely that membranes could be cost-effective unless they were to substitute for filtration as well as pre-treatment. Consequently, this evaluation focuses on the comparison of the Actiflo process to tube settlers. Both of these options are described further within this memorandum.

Introduction

The primary alternatives for upgrading the Citico Water Treatment Plant analyzed within this memorandum are as follows:

1. Option 1: Vertical turbine flocculators with tube settlers
2. Option 2: High-rate flocculation/sedimentation process, such as Actiflo

Each of these options is discussed below. Figure 1 is a schematic of the existing plant treatment process and Figure 2 is a schematic of the treatment plant in the Actiflo system was implemented. For reference, American Water's summary of existing process capacities, Table 1, is also presented on the following pages.

Option 1: Tube Settlers and Related Treatment Improvements

Flocculators

As shown in Figure 1, the existing facility has two parallel plants (Plants 1 and 2). Plant 1 has conventional rectangular basins (Basins 1 and 2) with inoperable flocculators, shown in Figure 3, and chain and flight sedimentation sludge scrapers. Basin 3 is currently used as additional storage for settled water.

The Flocculation/Sedimentation Basins 1 and 2 need new baffles, flocculators, solids collection equipment, and tube settlers. Upgrading to vertical turbine flocculators as pictured in Figure 4 would improve reliability and maintainability.

*Tennessee American Water Cllico WTP
Evaluation of High-Rate Pre-Treatment Options*

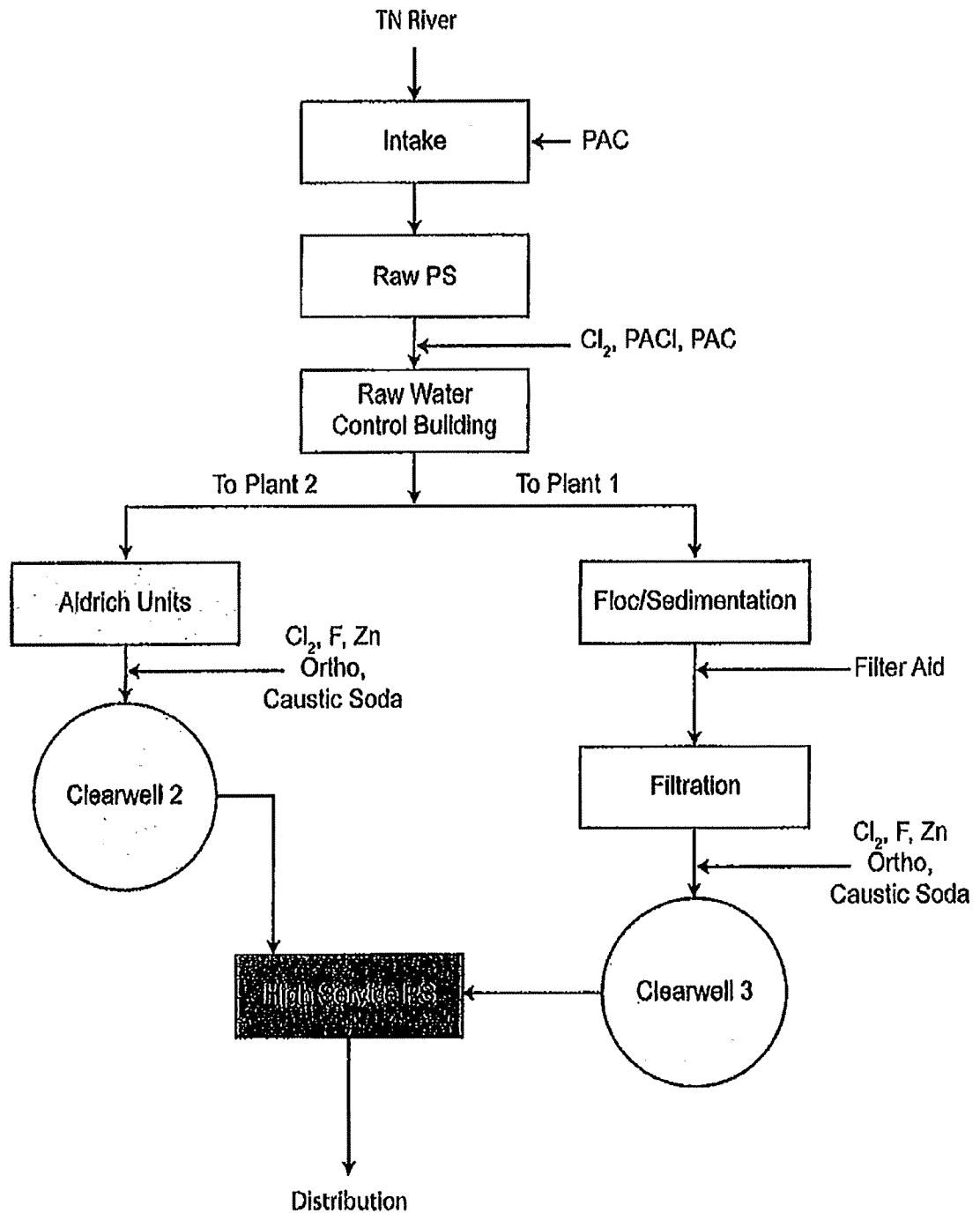


Figure 1
Process Schematic of Existing Water Treatment Plant

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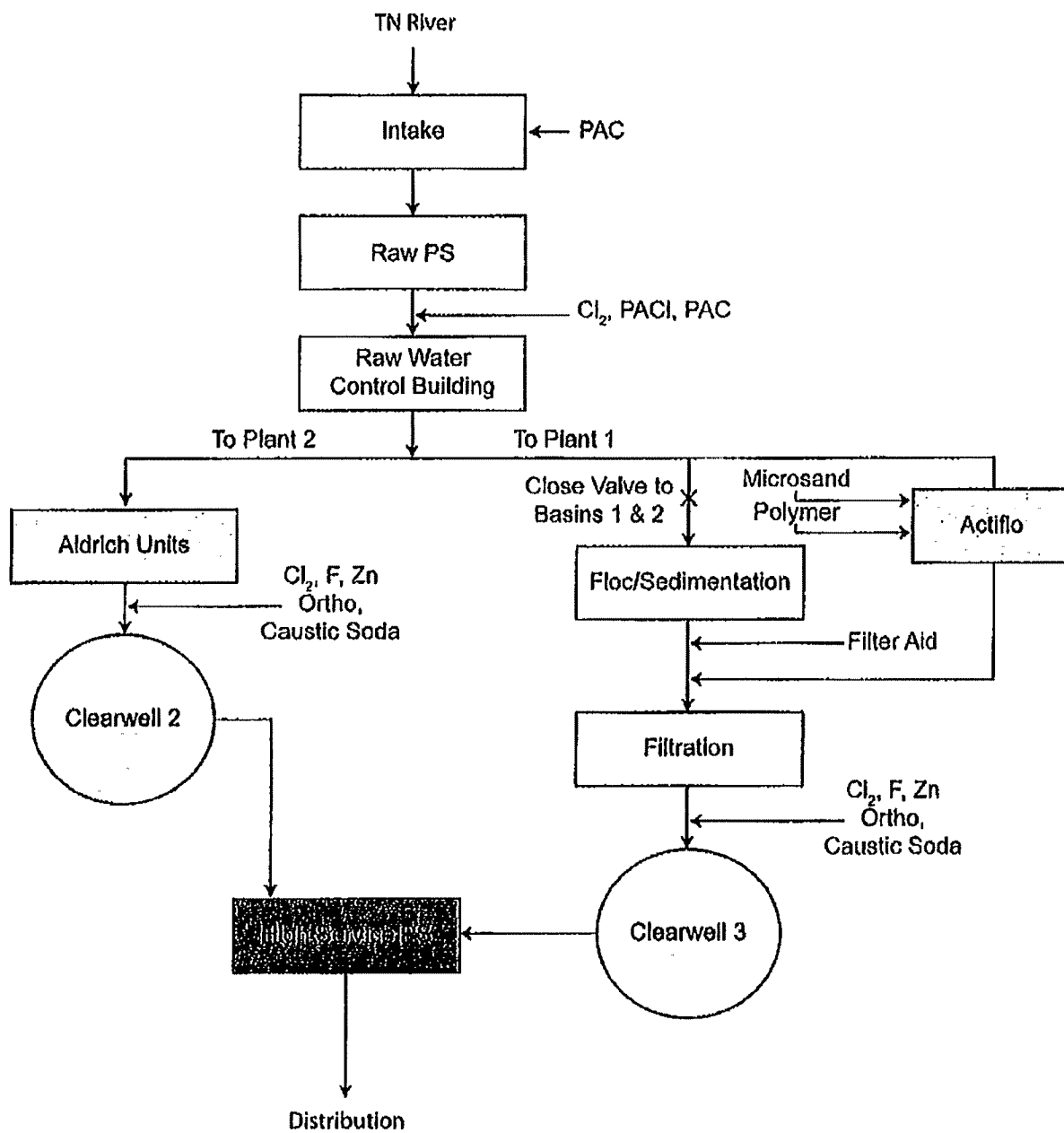


Figure 2
Process Schematic Implementing the Actiflo System

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**Table 1
Summary of Treatment Facilities at the Citico WTP²**

Process	Parameter	Units	Value			
Raw Water	Total pumping capacity	mgd	108.9 ⁽¹⁾			
	Reliable pumping capacity	mgd	84.0 ⁽¹⁾			
	Number of pumps		5			
Mixing	Type		Static			
	Number of Units		2			
Treatment Rate	Plant No.		Plant No. 1		Plant No. 2	
	Total filter capacity	mgd	40		25	
	Reliable filter capacity	mgd	38		21,875	
Flocculation	Basin		Basin 1	Basin 2	Basin 3	Aldrich Units
	Number of Units		2	2	n/a	8
	Volume per unit	gal	290,000	320,000		90,000
	Flow rate (total)	mgd	15	15		25
	Detention time	min	28	30		41
Sedimentation	Basin		Basin 1	Basin 2	Basin 3	Aldrich Units
	Number of Units		1	1	1	8
	Volume per unit	gal	1,200,000	1,200,000	2,200,000	600,000
	Flow rate (total)	mgd	15	15	10	25
	Basin loading rate	gpm/ft ²	0.98	0.94	0.34	0.49
	Weir loading rate	gpd/LF	9,228	9,014	n/a	12,280
	Detention time	min	107	115	307	261
Filtration	Number of Units		20			8
	Surface area per unit	ft ²	346			885
	Filtration rate	gpm/ft ²	4.0			2.45
	Empty bed contact time	min	4.4 - 4.7			6.4
	Media		28" GAC, 6" sand			
Washwater	Tank Number		Tank 1	Tank 3		Tank 2
	Storage volume	gal	220,000	290,000		300,000
Clearwater Storage	Clearwell Number		Clearwell 3			Clearwell 2
	Clearwell volume	gal	3,570,000			1,800,000
Distributive Pumps	Total pumping capacity					
	Reliable pumping capacity	mgd	83.7 ⁽¹⁾			
	Number of pumps	mgd	63.2 ⁽¹⁾ 7			
Residuals	Wastewater tank volume	gal	564,000			
	Thickening tank volume	gal	530,000			

1. Sum of rated pump capacities. Actual combined output may vary with all pumps in simultaneous operation.
2. Source of Table = American Water 2008 Design Concept Document for Citico Water Treatment Plant Upgrades. Some of the sizes in this Table 1 will be field checked later in this project.

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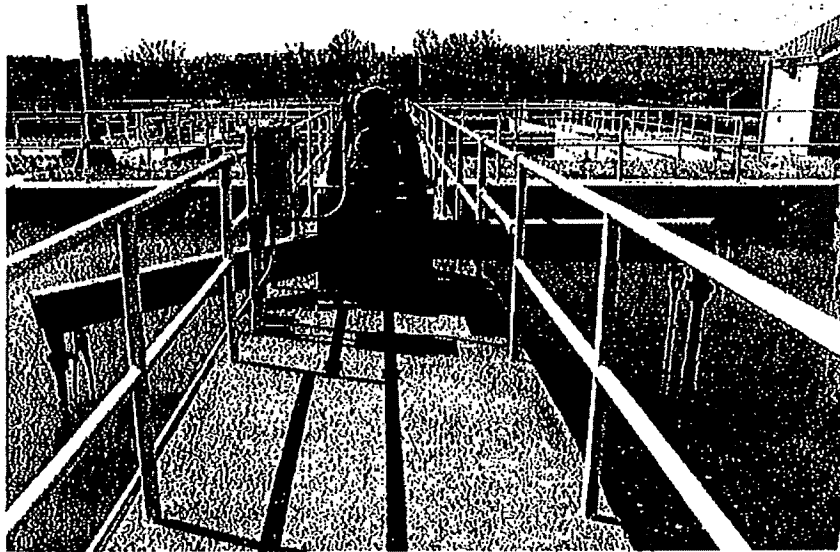


Figure 3
Plant 1 Conventional Rectangular Basin 1 and 2 with
Inoperable Flocculators

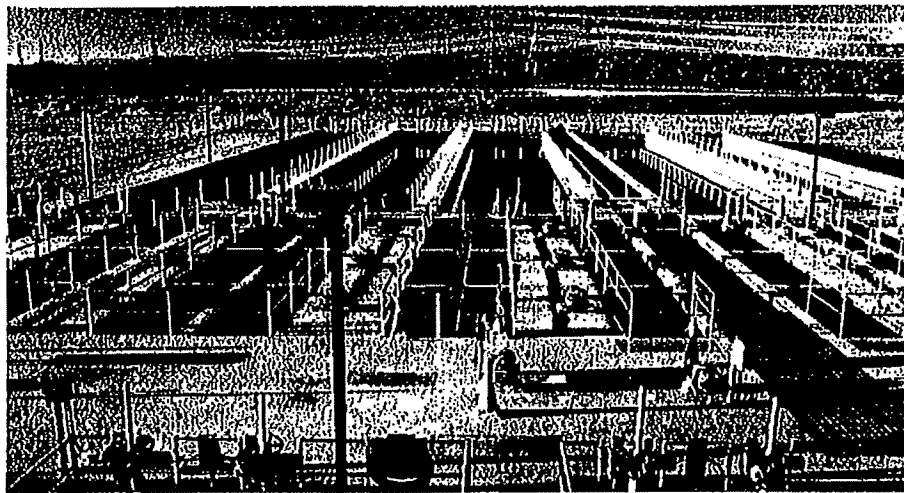


Figure 4
Vertical Turbine Flocculators

The flocculator inlet hydraulics also need to be modified for good flow distribution. As shown in Figure 5, water currently enters the flocculation inlet channel through a single pipe at relatively high velocity.

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Figure 5
Water Entering the Flocculation Inlet Channel
at Plant 1 Basins 1 and 2

With the use of vertical turbine flocculators, Basin 1, 2, and/or 3 could be subdivided to have 3 stages of flocculators. Table 2 provides the overall dimensions of the existing Basins 1 and 2. Basin 3 is larger and would more easily accommodate tube settlers than either Basin 1 or 2. With vertical turbine flocculators, the compartment width is generally matches the length for a box shape. Concrete supports would be needed for concrete walkways for access and support of the flocculator drive units.

Tube Settlers in Sedimentation Basins 1 and 2

Background

Tube settlers would be designed specifically for the requirements of each project basin and are typically 2 to 4 foot long (2"x 2" inside of each tube) with tubes inclined at 60 degrees and submerged 20 to 30 inches below the basin water surface. Because the tube packs cover the full width of the basin, the space below the packs has to be sufficiently deep (6 feet or more) to maintain low velocity.

Typical materials of construction are PVC or ABS tubes, SS or coated steel supports, and FRP or SS troughs. Currently, most tube settler installations are retrofits of existing conventional settling basins.

Need and Capacity

Improvement of the performance and capacity of sedimentation basins in Plant 1 is a priority of American Water. Currently, there is appreciable floc carry-over during cold weather conditions. The addition of flocculators and tube settlers could improve basin performance and/or capacity by providing more area for floc to settle within a very compact footprint. Given the TDEC limit for tube settler surface loading rate of 2.5 gpm/sf and the fact that higher tube settler loadings would defeat the goal of improved settled water turbidity, CDM recommends planning for a maximum surface loading rate of 2.5 gpm/sf.

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Required Depth

With a surface loading rate of 2.5 gpm/sf for the tube settlers, there is no regulatory capacity incentive to consider tube settlers deeper than 24 inches in length. However, use of 30- or 48-inch deep tubes would improve performance over the shorter 24-inch deep tubes. As previously agreed, the upgrades will be designed using 48" deep tubes.

Retrofitting Citico WTP Basins 1, 2 and 3 with Tubes

Table 2 presents the Plant 1 basin dimensions at the Citico WTP. In addition, Table 2 shows the lengths required for each basin in order to retrofit for tube settlers, taking into account the width lost due to construction of the new walls. The portion of the basins required for flocculation and tube settlers is also shown.

**Table 2
Citico WTP Basin Dimensions**

	Basin 3	Basin 2	Basin 1
Design Flow, mgd	28	23	23
Inside Width, ft	92	67	65
Water Depth, ft	14	14	16
Existing Basin Length Available, ft excludes inlet channel	151.25	167	166.33
Flocculation Time, minutes	30	30	30
Flocculation Length (no wall/channels), ft each flocculator (length x width)	61 20.3' x 23'	68 22.7' x 22.3'	62 20.7' x 21.7'
Overflow Rate for Tube Settlers, gpm/sf	2.5	2.5	2.5
Sedimentation Length Needed for Tubes, ft	84.5	95.3	98.2
Gap Between Floc and Tube Settlers, ft and thimble wall	0	0	0
Minimum Required Basin Length, ft	145.5	163.3	160.2

Due to the larger basin dimensions, it is recommended that 28 mgd of tube settlers be installed in Basin 3 and 23 mgd of tube settlers be installed in Basin 2. This balance of treatment rates between Basins 2 and 3 is believed to be the most cost effective option. The recommended distribution of flow between the basins reduces the depth required for the flocculators in Basin 2 which in turn reduces the cost for the new floors and foundations. More importantly, the proposed treatment rates allow the desired firm capacity of 68 mgd to be met utilizing only Basins 2 and 3 along with the Plant 2 Aldrich units capacity of 25 mgd. If preferred by American Water, 25 mgd can be installed in Basin 2 (with a Basin 3 capacity of either 25 or 28 mgd). However, this will result in a significant increase in capital cost, and the cost-savings realized through a Basin 2 capacity of 22-23 mgd is recommended. If desired, upgrade of Basin 2 to a 25

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mgd capacity could be designed as a bid alternate for consideration once the true construction cost impacts are known. A bid alternate approach would increase the final design scope of services. Temporary measures, such as baffles to assist in flocculation in Basin 1, to improve treatment during construction could be considered by American Water, however temporary measures are generally not as cost-effective.

Tube Settlers

Tube settlers are typically fabricated with plastic tubes (usually PVC), FRP or SS troughs and baffles. No manufacturer currently producing SS tubes was identified during this evaluation, although MRI did provide a material quote if SS tubes were desired. In the comparison costs provided by MRI for another project, the SS tube settler cost 35% more than the PVC tube settler with SS troughs and baffles. The increase in cost is due to additional material costs and fabrication required to manufacture the SS tube settlers. The estimated probable construction cost for the PVC tube settler option is \$9 million. This estimated probable construction cost includes all structural modifications and equipment installation costs associated with upgrade of Basins 2 and 3 with tube settlers. A copy of the probable construction cost estimate is provided at the end of this memorandum for your reference.

Brentwood Industries produces their tube settlers from a corrugated PVC sheet system with FRP troughs and baffles and SS supports. To protect the PVC from UV radiation and high-pressure hose washing, the system is provided with a FRP grating on top of the tube packs. With this grating, Brentwood claims their product has a 25-year life. Brentwood is one of the larger manufacturers of tube settlers and plastic filter media. About 75% of their tube settler sales are for settling tank retrofit applications. Based on the material of construction, replacement of the tubes is assumed to be needed after about 15 years of service.

Envirofax tube settlers are corrugated ABS plastic sheets with FRP troughs and baffles and SS supports. However, Envirofax tube settlers do not have a grate included in their standard scope of delivery to protect the plastic tubes from UV light and pressure washing. CDM recommends that Envirofax (or the Contractor) be required to install FRP grating to make it comparable to the Brentwood Industries product. Based on the materials of construction and the addition of a grate, replacement of the tubes is assumed to be needed after about 15 years of service.

MRI tube settlers use PVC tubes with SS troughs, baffles, and supports. Although they are a leading supplier of SS plate settlers, they have not made SS tube settlers because, according to MRI, they cost more than SS plate settlers. The PVC tubes are assumed to need replacement after 15 years.

Option 2: High-Rate Flocculation/Sedimentation Process (Actiflo)

The high-rate ballasted flocculation/sedimentation process consists of a proprietary system provided by USFilter Kruger Products with the trade name "Actiflo". This

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system essentially replaces a traditional rapid mix coagulation, flocculation, and sedimentation process.

The Actiflo process operates similarly to a conventional flocculation-sedimentation process with the exception that 100 micron sand (microsand) (later changed to 130-150 microsand) is added to the water during the flocculation process to enhance both coagulation and settling. The microsand adds surface area in the coagulation process which significantly improves the frequency of collision of dispersed or colloidal particles in the raw water with oppositely charged coagulated floc. This action accelerates coagulation and flocculation. The microsand also provides "ballast" to the floc, resulting in floc settling velocities that are 25 to 35 times faster than floc produced in conventional floc-sed processes. When compared to conventional flocculation-sedimentation or "sludge blanket" processes, this combination of improved coagulation efficiency and rapid floc settling characteristics provides:

- Significantly better settled water quality (as measured via particle counts in the 2 to 4 micron range)
- More stable performance during raw water upset conditions
- Reduced coagulant demand (particularly under high algae conditions)
- A maximum turbidity of 1.0 NTU
- Typically, lower construction costs due to reduced process footprint

Process Requirements

Tables 3 and 4 provide the design criteria basis for the Actiflo process equipment at the requested re-rated finished water capacity of 50 mgd. The Actiflo basins would all fit inside existing Basin 3. Table 3 provides the design criteria for the Actiflo process equipment for 2-25 mgd trains. Table 4 provides the design criteria for the Actiflo process equipment for 4-12.5 mgd trains. Both equipment layout options use Actiflo's standard design rise rate of 16 gpm/ft². The 16 gpm/ft² rise rate is the reported approved rise rate of other Actiflo units currently in operation at a small plant in Tennessee.

Actiflo Process

The Actiflo process includes two parallel 25-mgd design flow process trains for Alternate 1. Alternate 2 includes four parallel 12.5-mgd design flow process trains. With all trains in service for either alternate, the plant will produce a maximum treated water flow of 50 mgd. Each process train is composed of four sub-process segments; coagulation tank, injection tank, maturation tank, and settling tank. The discussed flow rates in the following narrative are for a single train only.

Actiflo Coagulation Tanks

Alternate 1 (2-25 mgd trains):

The coagulation tank is to provide a minimum hydraulic retention time (HRT) of 2.5 minutes at design flows for coagulant dispersal. Each tank is 17'-4.8" long, 13'-1.2" wide, with a 26'-0" side water depth. Total surface area is 227.94 ft², and the active

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tank volume is 5,926 ft³ or 44,330 gallons. Each tank is equipped with one 15-hp, constant speed mixer vertically mounted on a platform in the middle of the tank.

**Table 3
Actiflo Design Summary for Two Train Configuration**

Alternate 1: 2 x 25-mgd Actiflo Design (16 gpm/ft² rise rate)	
Design Capacity	
Total Design Flow, mgd	50
No. of Trains	2
Capacity Per Train, mgd	25
Coagulation Tank Design	
HRT, min	2.5
No. of Tanks per Train	1
Length, ft	13.1
Width, ft	17.4
Side Water Depth, ft	26
Injection Tank Design	
HRT, min	2.5
No. of Tanks per Train	1
Length, ft	13.1
Width, ft	17.6
Side Water Depth, ft	26
Maturation Tank Design	
HRT, min	10
No. of Tanks per Train	1
Length, ft	25.6
Width, ft	36.0
Side Water Depth, ft	26
Settling Tank Design	
No. of Tanks per Train	1
Length, ft	36.0
Width, ft	36.0
Side Water Depth, ft	26
Lamella Settling Area, ft ²	1130
Rise Rate at Design Capacity, gpm/ft ²	16
Sand Recirculation Circuit Design	
No. of Pumps per Train	1 duty + 1 stand-by
Total Dynamic Head, ft. of water	TBD
Pump Capacity, gpm	560
Number of Hydrocyclones per Pump	2
Estimated Sludge Concentration, % solids	0.1 to 0.5
Sludge Discharge per Train at Design Flow, gpm	448

Notes: 1. HRT = Hydraulic Retention Time

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**Table 4
Actiflo Design Summary for Four Train Configuration**

Alternate 2: 4 x 12.5-mgd Actiflo Design (16 gpm/ft² rise rate)	
Design Capacity	
Total Design Flow, MGD	50
No. of Trains	4
Capacity Per Train, MGD	12.5
Coagulation Tank Design	
HRT, min	2.0
No. of Tanks per Train	1
Length, ft	8.7
Width, ft	12.4
Side Water Depth, ft	22
Injection Tank Design	
HRT, min	2.0
No. of Tanks per Train	1
Length, ft	8.7
Width, ft	12.4
Side Water Depth, ft	22
Maturation Tank Design	
HRT, min	9.0
No. of Tanks per Train	1
Length, ft	19.0
Width, ft	25.8
Side Water Depth, ft	22
Settling Tank Design	
No. of Tanks per Train	1
Length, ft	25.8
Width, ft	25.8
Side Water Depth, ft	18
Lamella Settling Area, ft ²	520
Rise Rate at Design Capacity, gpm/ft ²	16
Sand Recirculation Circuit Design	
No. of Pumps per Train	1 duty + 1 stand-by
Total Dynamic Head, ft. of water	TBD
Pump Capacity, gpm	260
Number of Hydrocyclones per Pump	1
Estimated Sludge Concentration, % solids	0.1 to 0.5
Sludge Discharge per Train at Design Flow, gpm	208

Notes: 1. HRT = Hydraulic Retention Time

Alternate 2 (4-12.5 mgd trains):

The coagulation tank is designed to provide a minimum HRT of 2.0 minutes at design flows for coagulant dispersal. Each tank is 8'-8.4" long, 12'-4.8" wide, with a 22'-0" side water depth. Total surface area is 107.88 ft², and the active tank volume is 2,373 ft³ or 17,753 gallons. Each tank is equipped with one 7.5-hp constant speed mixer vertically mounted on a platform in the middle of the tank.

Injection Tanks

Alternate 1 (2-25 mgd trains):

The injection tank for Alternate 1 is designed to provide a minimum HRT of 2.5 minutes at design flows for injection and mixing in the microsand. Each tank is 13'-1.2" long, 17'-7.2" wide, with a 26'-0" side water depth. This results in a total surface area of 230.56 ft² and an active volume of 5,995 ft³ or 44,839 gallons. Each tank is equipped with one 15-hp constant speed mixer, vertically mounted on a platform in the middle of the tank. The flow to each injection tank is increased by 440 gpm or 0.63 mgd due to the recycle of water carrying microsand from the hydrocyclone underflow.

Alternate 2 (4-12.5 mgd trains):

The injection tank for Alternate 2 is designed to provide a minimum HRT of 2.0 minutes at design flows for injecting and mixing in the microsand. Each tank is 8'-8.4" long, 12'-4.8" wide, with a 22'-0" side water depth. This results in a total surface area of 107.88 ft² and an active volume of 2373.36 ft³ or 17,753 gallons. Each tank is equipped with one 7.5-hp constant speed mixer, vertically mounted on a platform in the middle of the tank. The flow to each injection tank is increased by 200 gpm or 0.288 mgd due to the recycle of water carrying microsand from the hydrocyclone underflow.

Maturation Tanks

Treatment continues as water passes through the underflow passage from the injection tank into the maturation tank. In the maturation tank, mixing is controlled to provide ideal conditions for the formation of polymer bridges between the microsand and the destabilized suspended solids. This process is further augmented by the large specific surface area of the microsand providing enhanced opportunity for polymer bridging and enmeshment of microsand and floc already in suspension.

Alternate 1 (2-25 mgd trains):

The maturation tank for Alternate 1 is designed to provide a minimum HRT of 10 minutes at design flow. Each maturation tank is 25'-7.2" long and 36'-0" wide, with a 26'-0" side water depth. Each tank has a surface area of 921.6 ft² and an active volume of 23,962 ft³ or 179,233 gallons. No chemicals or sand are added into this unit. Each tank is equipped with one 25-hp variable speed mixer, vertically mounted on a platform in the middle of the tank. The flow through the maturation tank is the same as described for the injection tank.

Alternate 2 (4-12.5 mgd trains):

The maturation tank for Alternate 2 is designed to provide a minimum HRT of 9 minutes at design flow. Each maturation tank is 19'-0" long and 25'-9.6" wide, with a 22'-0" side water depth. Each tank has a surface area of 490.2 ft² and an active volume of 10,784.4 ft³ or 80,667 gallons. No chemicals or sand are added into this unit. Each tank is equipped with one 10-hp variable speed mixer, vertically mounted on a platform in the middle of the tank. The flow through the maturation tank is the same as described for the injection tank.

Settling Tanks

Flocculated water overflows from the maturation tank and enters the settling tank. Because of the high ratio of microsand to coagulant precipitate within each floc particle, the floc settles very rapidly (approximately one foot per second). The settled water, after disengaging from the floc, flows upward through a lamella settling zone where any remaining lighter floc particles are removed. Clarified water exits the system via a series of collection troughs that empty into a collection channel.

Alternate 1 (2-25 mgd trains):

The settling tank for Alternate 1 is 36'-0" wide and 36'-0" long with a 26'-0" total depth. The lamella tube settling nominal surface area is 31'-4.7" long by 36'-0" wide. This provides a surface area of 1,130 ft². The lamella tube supplier provided a multiplier factor of 10.3 to convert nominal surface area to projected surface area (PSA). The calculated PSA will be 8,454 ft². Each tank is equipped with a 3-hp sludge scraper assembly for sludge/sand removal, lamella tube assemblies, and effluent collection troughs.

Alternate 2 (4-12.5 mgd trains):

The settling tank for Alternate 2 is 25'-9.6" wide and 25'-9.6" long with an 18'-0" total depth. The lamella tube settling nominal surface area is 20'-1.9" long by 25'-9.6" wide. This provides a surface area of 520 ft². The lamella tube supplier provided a multiplier factor of 10.3 to convert nominal surface area to PSA. The calculated PSA will be 8,454 ft². Each tank is equipped with a 0.75-hp sludge scraper assembly for sludge/sand removal, lamella tube assemblies, and effluent collection troughs.

Ancillary Equipment

The microsand-floc mixture rapidly settles to the bottom of the settling tank, is directed to a central sump using a circular scraper mechanism, and is withdrawn using a rubber-lined centrifugal slurry pump. The sand-floc mixture is then pumped to a hydrocyclone box located over the injection tanks for separation.

One hydrocyclone box is provided for each train. Each box is equipped with four hydrocyclone units. Energy from pumping is effectively converted to centrifugal forces within the body of the hydrocyclone, causing iron humate and hydroxide floc to be separated from the higher density microsand. Once separated, the microsand is concentrated and discharged from the bottom of the hydrocyclone and re-injected into the process for reuse. The lighter density iron humate and hydroxide floc exits the top of the hydrocyclone and flows by gravity to a gravity thickener. Two microsand/sludge recirculation pumps, one operational and one standby, are provided for each train. The pumps are located at ground level adjacent to the settling tanks. Approximately 1,000 gpm is recycled to the hydrocyclones where 200 gpm is returned to the injection tank carrying the returned microsand and 800 gpm carries the sludge to the sludge thickeners. Since this can be a significantly higher sludge flow than with the existing basins, a new thickener is included in the Actiflo option.

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Estimated Actiflo Construction Cost

The estimated probable construction cost for the Actiflo option is \$13 million. This estimated probable construction cost includes all structural modifications and equipment installation costs associated with upgrade of Basins 3 with the Alternate 1 layout (two, 25-mgd capacity trains) of the Actiflo process. A copy of the probable construction cost estimate is provided at the end of this memorandum for your reference. Since the development of the probable construction cost estimate (representing a estimated cost of \$13.7 million), additional cost savings were identified working with Kruger to lower the total estimate to \$13 million. This cost does not however include the cost of construction for an additional thickener, making this option even less affordable.

Comparison of Actiflo to Tube Settlers

As described herein, the Actiflo process requires feeding microsand and polymer to produce heavier floc to accelerate settling, allowing much smaller settling tank footprints. The microsand is recycled after it settles out. Some additional O&M would be required for maintaining the additional feed and recycle equipment. The sludge from the Actiflo process is reported to be 0.1 to 0.5%, which can be thinner than with conventional scrapers and sludge hoppers, thus a second thickener would be needed. This is the only major impact anticipated to ancillary facilities and to the scope of the project. All options require new concrete walls and floors within the existing basins.

TDEC staff has indicated they are receptive to alternate technologies and in general defer to the manufacturers for criteria on loading rates that are not covered by the existing TDEC regulations. TDEC staff said they would not mandate pilot testing for tubes, plates, sludge blanket clarification (e.g. Superpulsators), or Actiflo. Reportedly, there are numerous sludge blanket clarifiers (e.g. Superpulsators) in operation within Tennessee, but none are located on the Tennessee River. It was reported by both TDEC and Kruger that they are only aware of one small Actiflo unit within Tennessee. TDEC reported the lone Actiflo installation is located on a spring source, and Kruger reported the design loading rate for this facility is 16 gpm/sf. Since this rate has already been accepted within the state, it was used in the cost comparison herein. An Actiflo equipment quotation for a loading rate of 25 gpm/sf for clarification was also provided. At the 25 gpm/sf loading rate, the Actiflo purchase cost drops from \$4.2 million to \$3.55 million, so the total cost should drop from approximately \$13 to \$12 million. This design was not pursued further since the cost remained higher than the tube settler cost.

The estimated construction cost for the Actiflo system is \$13 million (at 16 gpm/sf). The estimated cost for the tube settlers option is \$9 million.

In regards to project schedule, construction of Actiflo options could be quicker than the tube settler construction since all of the Actiflo process fits within Basin 3 and hence could be constructed all at once rather than a phased construction with upgrade of Basin 3 followed by Basin 2 as would be required for the tube settlers.

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The advantages of the Actiflo process is the smaller footprint and hence ability to fit all 50 mgd in Basin 3. The disadvantages of the Actiflo process include an additional \$4 million in construction cost, increased O&M complexity to feed microsand and polymer and recycle the microsand, and impacts to the solids handling facilities.

Conclusions and Recommendations

The estimated construction cost for the Actiflo system is \$13 million (plus the cost of an additional thickener) compared to \$9 million for tube settlers. Based on this cost difference and the operational complexity of the high-rate pre-treatment process, remaining with the currently proposed upgrade using vertical turbine flocculators and tube settlers is recommended.

Michael D
Galavotti/KAWC/AWWSC
10/19/2007 10:39 AM

To: Michael D Galavotti/KAWC/AWWSC@AWW
cc
bcc
Subject: Fw: Citico WTP Revised Pretreatment Cost Comparison



Peter J
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08/27/2007 03:53 PM

To: David R Kaufman/PAWC/AWWSC@AWW, John
Watson/TAWC/AWWSC@AWW
cc: Stephen P Schmitt/ADMIN/CORP/AWWSC@AWW, Gary A
Naumick/SYSENG/CORP/AWWSC@AWW
Subject: Re: Fw: Citico WTP Revised Pretreatment Cost Comparison


Dave & John - Following is a summary of the issues we discussed this morning regarding the upgrade/expansion of pretreatment system capacity at the Citico WTP:

1. 68 mgd is the proposed pretreatment design capacity to meet demands thru 2015. Following is an overview of the basis for the proposed capacity:
 - 54 mgd (current MDD)
 - 4 mgd in-plant use
 - 5 mgd projected "organic growth"
 - 5 mgd for Catoosa and/or other new regional customers.
 - 68 mgd
2. The existing conventional sedimentation basins have structural deficiencies that will prevent simple retrofit modifications as was originally anticipated. Due to site constraints, new tankage will have to be constructed in place of the existing sed basin(s) to allow for upgrading of the pretreatment system.
3. CDM prepared the attached cost estimates showing that the lowest cost alternative would be to install tube settlers in Basin 3 (Option 1) to provide the requisite 68 mgd capacity. However, if future capacity increases were required (beyond 68 mgd), major modifications to Basin 2 or 1 would be required. Also, the tube settlers would be designed to operate at a loading rate of 2.5 gpm/sf. Although this rate is allowed by TDEC, it represents the upper end of the range of loading that is recommended for tube settlers.
4. The next lowest cost alternative would be to install plate settlers in Basin 3. The capital cost for this option would be an estimated \$1.4 million more than the tube settler option, although on a life cycle basis, the cost differential was projected to be closer to \$1 million.
5. The Actiflo process was also investigated as an alternative, but found to be significantly more costly than the tube and plate settlers options.
6. The plate settler option has several advantages over the tube settler option:
 - Plate settlers provide better flow distribution and solids separation mechanics than tube settlers, which means that settled water quality would likely be better from a plate settler process.
 - Maintenance of plate settlers is generally easier than tube settlers because solids have less of a tendency to accumulate within the lamella zone. Reduced maintenance requirements would be beneficial given the limited staff available to operate and maintain the facilities.
 - Improved settled water quality should reduce in-plant water use by reducing backwash frequency. This would provide additional finished water for distribution that could allow the anticipated filter expansion project to be deferred for some additional period of time. Presumably, this would allow any associated rate increase to also be deferred.
 - If additional capacity is required in the future, additional plate settlers could be added to Basin 3 at a much lower cost than adding tube settlers to Basin 2 or 1.

Given all of the advantages outlined above, it is recommended that plate settlers be selected for

upgrading the pretreatment process as the Cillico WTP. Please let me know if you guys have any other thoughts or comments you think should be added to this summary. Thanks

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David R
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08/16/2007 10:11 AM

To Peter J Keenan/SYSENG/CORP/AWWSC@AWW
cc

Subject Fw: Cillico WTP Revised Pretreatment Cost Comparison

FYI. Please look at life cycle costs of 68mgd plates vs. tubes. DRK

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----- Forwarded by David R Kaufman/PAWC/AWWSC on 08/16/2007 10:09 AM -----



"Norton, Joshua"
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08/13/2007 02:43 PM

To <dkaufman@pawc.com>, <jwatson@amwater.com>,
<Mark.Zinnanti@amwater.com>,
<susan.holmes@amwater.com>,
<Kate.Nartey@amwater.com>,
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cc "Alford, Judy" <AlfordJH@cdm.com>, "Dowbiggin, William"
<DowbigginWB@cdm.com>

Subject Cillico WTP Revised Pretreatment Cost Comparison

All,

Please find attached the revised pretreatment option capacity and cost comparisons. These files have

been updated per our conference call discussion from Friday including:

- The cost for construction of a Basin 3 dividing wall was added to all tube and plate options.
- An additional plate option (designated as Option 4 in the attached tables) has been included to represent the cost of a 68 mgd plate option for comparison to the 68 mgd tube option.
- A relative present worth operation & maintenance cost has been added to the summary cost table.

Please revise the attached files and let me know if you have any further questions.

<<Citico Pretreatment Cost Estimate 08132007.doc>> <<Citico Capacity Options Updated 08132007.xls>>

Very truly yours,

Josh Norton, P.E., BCEE
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Email: nortonjm@cdm.com Citico Pretreatment Cost Estimate 08132007.doc Citico Capacity Options Updated 08132007.xls

**CITICO WATER TREATMENT PLANT
COST ESTIMATE (2007)**

Phase 1

1. Chemical Tank Truck Unload/Containment/Turnaround \$ 100,000*
2. Capacity Limitations
Hydraulic Restriction - Aldrich Plant #2 \$ 400,000*
Parallel 48" Raw Water Pipeline \$ 600,000*
3. Ammoniation \$ 200,000*

* All costs are preliminary and will be further developed as design progresses.

4. Pretreatment (Plant #1)

COSTS

Options	Rapid Mix	Vert. Turb. Flocculators	Basin 3 ¹	Basin 2	Structural Concrete Improvements	Solids Removal	Total
Option 1 - 68 mgd; 4-ft PVC tubes (2.5 gpm/sf) in Basin 3 only	\$ 0.7 M	\$ 1.7 M	\$ 2.8 M	0	\$ 1.5 M	\$ 0.7 M	\$ 7.4 M
Option 2 - 76 mgd; 4-ft PVC tubes (2.5 gpm/sf) in Basins 2 & 3	\$ 1.0 M	\$ 1.7 M	\$ 2.8 M	\$ 1.5 M	\$ 2.3 M	\$ 1 M	\$ 10.3 M
Option 3 - 75 mgd; 8-ft SS plates (0.5 gpm/sf - 80%) in Basin 3 only	\$ 0.8 M	\$ 2 M	\$ 5.0 M	0	\$ 1.7 M	\$ 0.7 M	\$ 10.2 M
Option 4 - 68 mgd; 8-ft SS plates (0.5 gpm/sf - 80%) in Basin 3 only	\$ 0.7 M	\$ 1.7 M	\$ 4.2 M	0	\$ 1.5 M	\$ 0.7 M	\$ 8.8 M
Option 5 - 75 mgd; Actiflo (two trains @ 16 gpm/sf) in Basin 3 only	n/a	n/a		n/a			\$ 13 M

¹ Includes costs for a dividing wall.

² All costs include contractor overhead and profit and construction contingency.

**CITICO WTP
PRE-TREATMENT OPTIONS EVALUATION OF 8/10/07
LIFE CYCLE COSTS AND CAPACITIES**

Options	Total Phase 1 Construction Cost	Present Worth of Extra O&M Allowance	Life Cycle Comparative Cost	Capacity	
				Total Summer	Total Winter
Option 1 – 68 mgd; 4-ft PVC tubes (2.5 gpm/sf) in Basin 3 only	\$ 7.4 million	\$ 0.5 million	\$ 7.9 million	68 MGD	57 MGD
Option 2 – 76 mgd; 4-ft PVC tubes (2.5 gpm/sf) in Basins 2 & 3	\$ 10.3 million	\$ 0.8 million	\$ 11.1 million	76 MGD	65 MGD
Option 3 – 75 mgd; 8-ft SS plates (0.5 gpm/sf – 80%) in Basin 3 only	\$ 10.2 million	\$ 0.1 million	\$ 10.3 million	75 MGD	64 MGD
Option 4 – 68 mgd; 8-ft SS plates (0.5 gpm/sf – 80%) in Basin 3 only	\$ 8.8 million	\$ 0.1 million	\$ 8.9 million	68 MGD	57 MGD
Option 5 – 75 mgd; Actiflo (two trains @ 16 gpm/sf) in Basin 3 only	\$ 13 million	\$ 0.5 million	\$ 13.5 million	75 MGD	64 MGD

Phase 2

5. 9 MGD Add Filter Capacity: \$ 3 million

CITICO WATER TREATMENT PLANT
Pretreatment Capacity Options

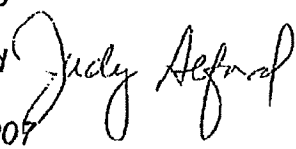
Options	Plant #1			Plant #2		Total	
	SB3	SB2	SB1	Summer	Winter	Summer	Winter
Option 1 - 4-ft PVC tubes (2.5 gpm/sf) in Basin 3 only	28 MGD	15 MGD*	OUT*	25 MGD	14 MGD	68 MGD	57 MGD
Option 2 - 4-ft PVC tubes (2.5 gpm/sf) in Basins 2 & 3	28 MGD	23 MGD	OUT*	25 MGD	14 MGD	76 MGD	65 MGD
Option 3 - 8-ft SS plates (0.5 gpm/sf - 80%) in Basin 3 only	35 MGD	15 MGD*	OUT*	25 MGD	14 MGD	75 MGD	64 MGD
Option 4 - 8-ft SS plates (0.5 gpm/sf - 80%) in Basin 3 only	28 MGD	15 MGD*	OUT*	25 MGD	14 MGD	68 MGD	57 MGD
Option 5 - Actiflo (two trains @ 16 gpm/sf) in Basin 3 only	50 MGD	OUT	OUT	25 MGD	14 MGD	75 MGD	64 MGD

* Floc equipment are assumed to be replaced in basins 1 and 2 with vertical turbines on beams spanning over the top of the basins with no other changes to the basins. Due to structural/reliability concerns, only one of basins 1 & 2 is counted in capacity.



Memorandum

To: Dave Kaufman, John Watson, Mark Zinnanti, Susan Holmes, and Kate Nartey

From: Judy Alford 

Date: July 27, 2007

Subject: Evaluation of High-Rate Pre-Treatment Options

Attached is a copy of the evaluation American Water requested to be completed to compare high-rate pre-treatment options to the currently proposed plan to install tube settlers with vertical turbine flocculators. This request was initiated when it was determined that new walls and floors would be needed for structural support of any Plant 1 basin upgrades.

This document is being provided for your review prior to the completion of the geotechnical report so once the geotechnical report is complete, a decision can be reached quickly regarding the pre-treatment upgrade process to be utilized in the design. The only portion of the evaluation that would change as a result of the completion of the geotechnical report is the foundation requirements. We have assumed micropile foundations will be required within the current cost estimates.

In addition, we have investigated an alternate solution for consideration that may provide some relief to the construction budget concerns brought about by the necessity to rebuild the sedimentation basins. Improvements to Basin 2 could be designed as a bid alternate for construction or postponement for future work. Since we are now recommending phased construction beginning in Basin 3, there will be ample overall capacity provided if Basins 1 and 2 remain in service. The up-rated Basin 3 capacity could be increased to 28 mgd (a maximum of 30 mgd is possible). This increase would provide the needed firm capacity of 68 mgd through the combination of Basin 3 (28 mgd), the Aldrich units (25 mgd), and one of the existing Basins 1 or 2 (15 mgd). The only short-coming in this solution is if the Basin 2 work is deferred as future work, the plant will still have basins without functional flocculators. However, TDEC should accept this as a best affordable approach. If TDEC insists on flocculation, American Water could attempt to satisfy the State by requesting that the existing flocculator manufacturer repair or replace the flocculator in Basin 1. Another option would be to add additional wood baffles in Basin 1 for hydraulic flocculation. Since Basin 2 is to be upgraded eventually, it seems best to not spend time and money on a temporary fix to its flocculators. Therefore, the temporary work would be done to just Basin 1, but only if the

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Basin 2 upgrade is deferred as future work AND TDEC insists that flocculation is necessary now.

We would be happy to discuss this potential solution further during the conference call. We expect the geotechnical report to be completed early next week therefore would like to schedule a conference call as soon as possible.

If you have any questions before the conference call, please feel free to contact me, Josh or Bill.

Thank you.

cc: Josh Norton
Bill Dowbiggin