6/14/2004

Kentucky-American Water Company 2003 INVESTMENTPLAN

FORM 993

Authorized Expenditures Proposed Expenditures Proposed Expenditures Authorized Expenditures Authorized Expenditures Authorized Expenditures Authorized Expenditures FY2033 Authorized Expenditures FY2033 Authorized Expenditures Authorized Expenditures FY2033 Authorized Expenditures Authorized Exposition Authorized Expenditures Aut											4 FY2005 2002 2001 2000 1999 Cost Year Cost Year		0 X X X 352.000 1997	0 X X X 1.500.000 1999 1.500.000	X X X X X X X X X X X X X X X X X X X	0 X X X X 1,150,000 1997 150,000	0 X X 1,630,200 1998 1,630,200 0 X X 1,800,000 2001 1,800,000	0 X 600.000 2002		2 150 000 X X X								President Date		Approved by Board of Directors for the Year 2003		0	0 0	ooot	0 0		0 0	0 000	
Brief Description of Proposed Expenditures Mains. Hydrants. Valves. Meters - Deposit/Contribution Mains. Hydrants. Valves. Company Expense Meters Office Furniture & Eaujament Tansportation General Equipment Miscellaneous TOTAL ITEM A THROUGH H TOTAL ITEM A THROUGH H Current Investment Projects Customer Service Software Social County Mains RNS Hydraulic Improvements Social County Mains RNS Hydraulic Improvements Social County Mains RNS Hydraulic Improvements Social County Mains Elevated Stupply Project Development Froposed Investment Projects Source of Supply Project Development TOTAL ITEM A THROUGH IPS (2000) Rest County Mains Mayor Highway Relocations Selectrical celiability upgrades at KRS Elevated Stupply Project Development TOTAL ITEM A THROUGH IPS (2000) Acquisitions Acquisitions Simmilions Source of Supply Water Total Countibutions and Tap Fees Colvid County Mains Simmilions Source of Supply Water Total Countibutions and Tap Fees Colvid County Mains Simmilions Source of Supply Water Total Countibutions and Tap Fees Colvid County Mains Simmilions Simmilions Source of Supply Water Total Countibutions and Tap Fees Colvid Countibutions and Tap Fees Control Countibutions and Tap Fees	Authorized Expenditures	FY2003	4,250,000	975,000	1,425,000	25,000	0	357.750	163.400	8,696,150	Estimated Cost Prior		2,925,000 0	117.800 500.000	1,500.000 600.000	325.000 150,000	1,030,000 450,000	392,700 207.300		0 150 000	00 700.000	0	V V BOT 7	4,427,300	13,123,450	6,570,000 6,553,450				13,123,450	2005							3.52720	000000
		Brief Description of Proposed Expenditures	Mains. Hydrants. Valves. Meters - Deposit/Contribution	Mains, Hydrants. Valves - Company Expense	Motors	Office Furniture & Eautoment	Transportation	General Equipment	Miscellaneous	TOTAL ITEM A THROUGH H		Current Investment Projects						П	Proposed Investment Projects	Elevated Storage Tank - 2.0 MG	Maior Highway Relocations	Electricalreliabilityupgrades at KRS		INVESTMENIPROJECTIOTAL	TOTAL ITEM A THROUGH IP'S (2000)	Item A. IP Contributions and Tap Fees COMPANY FUNDED EXPENDITURES(1 minus 2)	Acquisitions		TOTAL ACQUISITIONS (2000)	TOTAL-CAPITAL EXPENDITURES (1 plus 4) (2000)	Smmillions	Source of Supply - Water	Pumping - Water Treatment - Water	Storago - Water	Distribution - Water Other Water Plant	Pumping . Sewer	i roakment - Sower Collection - Sower	Other Sewer Plant Total (Line 1)	

		ı		C007	IIIVESUIIG	III I IAII S	2003 HIVESURERE I JAIR SURERIALLY 10/07/02	/C0/01	70						
	Program of Construction													FORECAST	2001-2005
	Item	JAN	FEB	MAR	APR	MAY	Š	JDT.	AUG	SEP	OCT	NOV	DEC	TOTAL	SRP Budget
Item A	ltem A - Mains & Hydrants, Deposit Agreements	100,000	205.000	315,000	371.000	422,000	527.000	532.000	532.000	433.000	323.000	273,000	217.000	4.250.000	4.335.000
Item B	Item B - Mains & Hydrants, New & Replacement	18.000	22.000	37,000	58.000	63,500	103,500	146,000	138,000	131,000	90,000	87,000	81,000	975.000	1.175.700
Hem C	Item C - Services	66,922	121,492	123,998	104,624	117,997	121,795	115,218	127,495	110,745	126,745	145,373	142,598	1,425,000	1.145.700
Item D	tem D - Meters & Installations	51,200	109,500	209,250	172,500	166,100	197,150	161,050	159,400	80,850	63,800	49,450	79,750	1.500.000	1.657.300
Item E	tem E - Office Furniture & Equipment	2,000	9'000	2,000	2,000	2,000	2,000	2,000	2,000	2,500	2,500	0	0	25.000	312.000
Item F	tem F - Transportation Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	147.900
Item G	tem G - General Equipment	35,000	23,500	24,450	14,000	113,800	97,000	20,000	27,000	2,000	1,000	0	0	357.750	261.800
Item H	tem H • Miscellaneous	0	6,500	8,000	32,000	0	95,000	1,400	10,000	10,500	0	0	0	163.400	378.100
	SUB-TOTAL	273,122	493,992	719,698	754,124	885,397 1	1,143,445	899'176	995,895	770,595	607,045	554,823	520,348	8,696,150	9,413,500
	LESS Item A	100,000	205,000	315,000	371,000	422,000	527,000	532,000	532,000	433,000	323,000	273,000	217,000	4,250,000	4,335,000
	TOTAL	173,122	288,992	404,698	383,124	463,397	616,445	445,668	463,895	337,595	284,045	281,823	303,348	4,446,150	5,078,500
CPS															
#	INVESTMENT PROJECTS					į									
	96-19 Customer Service Software	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01-02 Clays Mill Ground Storage Tank - 3.0 MG	0	0	0	10,000	25,000	50,000	50,000	000'06	80,000	80,000	80,000	35,000	500,000	700.000
_	01-03 SCADA Improvements	50,000	50,000	000,09	000,09	40,000	20,000	000,09	000,09	50,000	20,000	0	0	500,000	500.000
_	01-04 Scott County Mains	50,000	75,000	75,000	75,000	75,000	100,000	75,000	75,000	0	0	0	0	600,000	750.000
_	01-05 Russell Cave Rd. Tank - 1.0 MG	0	0	0	0	0	0	0	5,000	5,000	2,000	2,000	130,000	150,000	000.009
_	01-10 RRS Hydraulic Improvements	100,000	100,000	150,000	75,000	20,000	5,000	0	0	0	0	0	0	450,000	0
_	01-11 New Columbus Project	10,000	10,000	25,000	20,000	50,000	100,000	100,000	100,000	150,000	100,000	50,000	25,000	770,000	445.000
_	02-01 Leestown Road Main Improvements	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02-03 Replace Travelling Screen Housing	0	0	0	0	0	0	0	0	0	0	0	0	0	250.000
		25,000	20,000	20,000	20,000	25,000	7,300	0	0	0	0	0	0	207,300	200.000
		0	0	0	0	2,500	7,500	10,000	20,000	35,000	35,000	35,000	5,000	150,000	150.000
_		0	0	0	0	0	0	0	0	0	0	0	0	0	220.000
		20,000	20,000	20,000	100,000	75,000	75,000	75,000	75,000	75,000	40,000	20,000	15,000	700,000	1,500,000
	03 Electrical reliability upgrades at KRS	10,000	25,000	100,000	100,000	100,000	65,000	0	0	0	0	0	0	400,000	0
	SUB-TOTALIP'S	295,000	360,000	510,000	520,000	412,500	459,800	370,000	425,000	395,000	280,000	190,000	210,000	4,427,300	5,315,000
	IP Reimbursements	0	0	0	0	0		(400,000)	0	0	0	0	(820,000)	(1,220,000)	(1,150,000)
	TOTAL IP'S (Less IP Reimbursements)	295,000	360,000	510,000	520,000	412,500	459,800	(30,000)	425,000	395,000	280,000	190,000	(610,000)	3,207,300	4,165,000
	Tap Fees	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(91,667)	(1,100,000)	(1,100,000)
						ŀ									
Fotal n	Fotal Investment Plan (Less Item A and Reimbursements)	376,455	557,325	823,031	811,457	784,230	984,578	324,001	797,228	640,928	472,378	380,156	(398,319)	6,553,450	8,143,500

2003 Investment Plan - Investment Projects

CPS	Project	IP		-	12/31/2002													2003	VTD Farmer	D2	4-4-1	i -
#	No.	No.	INVESTMENT PROJECTS	Acct	Prior	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	TOTAL	YTD Forecast YTD Actual	Projected Total	Anticipated	
-"			Customer Service Software	391.25	2,925,000				74.11		JUN	300	AUG	3EF	- 001	NOV	DBC	TOTAL	Y I D Actual			COMMENTS
	1001)	,,,,	Continue Service Service	371.23	2,923,000	ိ	۲	0	ď	"	ا	0	٥	ان	ď	0	l "	0	0	2,925,000	Dec-03	
\vdash		01-02	Clays Mill Ground Storage Tank • 3.0 MG	342	117.800	0	0	0	10.000	25,000	50,000	50.000	90,000	80,000	80,000	80.000	25.000	0	0		.	-
		01 02	Clays Will Glound Storage Tank 4 3.0 WG	342	117.000	۰	0	١	10.000	25,000	30,000	30.000	90.000	80.000	80.000	80.000	35.000	500,000	0	1,500,000	Dec-04	
\vdash	_	01-03	SCADA Improvements	391.28	194,000	50.000	50,000	60.000	60,000	40,000	50,000	60,000	60,000	50,000	20,000			500.000	0	60.4.000		
			oct and the same of the same o	371.20	1,74,000	30.000	0,000	00.000	60,000	40,000	30,000	60,000	00.000	20,000	20,000	, , ,	ا ا	500,000	0	694.000	Dec-03	
		01-04	Scott County Mains	343	1,500,000	50,000	75,000	75.000	75,000	75,000	100,000	75,000	75,000	0		-		600,000	0	3 100 000		
1					1,213,222		0	75.000	75,000	75,000	700,000	75,000	75.000	۳	"l		ا ا	000.000	"	2,100,000	Dec-03	\$1,500,000 complete and inservice in December 2002
		01-05	Russell Caw Rd. Tank - 1.0 MG	342	175.000	0	ō	0	0	0	0	0	5,000	5,000	5,000	5.000	130,000	150,000	0	1,500,000	Aug-04	-
						۱	0	•	Ť	ı ı	٦	•	5,000	5,000	5.000	5,000	130,000	130.000	"	1,500,000	Aug-04	
		01-10	RRS Hydraulic Improvements	332	1,315,000	100,000	100,000	150,000	75,000	20.000	5,000	0	0	0	0	0	0	450,000	· ·	1,615,000	Dec-03	-
					, ,,,,,,	,	,	,		20.000	5,000	ŭ	۱	٠	۰		ا ا	450,000		1,015,000	Dec.03	
		01-11	New Columbus Project	343	1,025,000	10,000	10,000	25,000	50,000	50.000	100,000	100.000	100,000	150,000	100,000	50,000	25,000	770,000		1,795,000	Dec-03	-
			•										,	100,000		20,000	25,000	770.000		1,755,000	Dec-03	
		0261	Leestown Road Main Improvements	343	75.600	0	0	0	0	0	0	0	0	О	o	0	0	0		700,000	Jun-04	-
			-										- 1	-	- 1	_	-	•			3411-07	
		02-03	Replace Travelling Screen Housing	311	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	Dec-04	Postponed from 2002
															-	_	_	_			2000	. sapanos nam zooz
		0264	Source of Supply Project Development	343	192,700	25.000	50,000	50,000	50,000	25.000	7,300							207.300		400,000	Dec-03	-
		03-	Ground Storage Tank • 3.0 MG	342	0	0	0	0	0	2,500	7.500	10,000	20,000	35.000	35,000	35,000	5,000	150,000		1,500,000	Dec-04	_
																	.,	,				
		03-	ReplaceFilter Media @KRS - Hydrotrs 3 & 4	332	0	0	0	0	0									0		0	Jun-04	_
1		03-	Major Highway Relocations	343	0	50,000	50,000	50.000	100.000	75.000	75,000	75.000	75.000	75,000	40.000	20.000	15.000	700,000		700.000	Dec-03	<u> </u>
ш																						
1		03	Electrical reliability upgrades at KRS	331	0	10,000	25.000	100,000	100,000	100,000	65,000	0	0	0	0	0	0	400.000		2,500,000	Dec-04	<u>-</u>
\vdash																					ļ	
			m . 1																		ļ	
\sqcup			Investment Total			295.000	360,000	510,000	520,000	412,500	459,800	370.000	425.000	395.000	280.000	190,000	210,000	4.427.300				
1			Reimbursements			0	2 < 0.00	0	### OO -	0	150.05	100.00-	48.5 00.7	20# 00-		400.05-	// AND ACC		0			· ·
Ь—			Investment Plan Total			295.000	360.000	510,000	520.000	412,500	459,800	370,000	425.000	395,000	280,000	190,000	(1,020,000)	1,200,900				
Щ			Actual/Projected		I	ı		l	J	I			1						J			-

11-06-02

ITEM A - MAINS & HYDRANTS, DEPOSIT AGREEMENT 2003 INVESTMENT PLAN

Item	Acct	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mains	343	100,000	200,000	300,000	350,000	400,000	500,000	500,000	500,000	400,000	300,000	250,000	200,000	4,000,000
Reimbursible projects from Item B	343	0	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50, 000
Fire Services	345	0	5,000	10,000	15,000	15,000	20,000	25,000	25,000	25,000	15,000	15,000	10,000	180,000
Hydrants	348	0	0	0	1,000	2,000	2,000	2,000	2,000	3,000	3,000	3,000	2,000	20,000
Total Budget		100,000	205,000	315,000	371,000	422,000	527,000	532,000	532,000	433,000	323,000	273,000	217,000	4,250,000

ITEM B - MAINS & HYDRANTS, NEW & REPLACEMENT 2003 INVESTMENT PLAN

Item	Acct	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Seo	Oct	Nov	Dec	Total
1A. Mains @ Company Expense-Co. Portion	343	2,000	2,000	10,000	16,000	16,000	20,000	23,000	27,000	23,000	17,000	17,000	17,000	200,001
1B. Mains - Expense for Upsizing Mains	343	0	9	2,000	7,000	7,500	8,501	8,006	6,000	8,000	3,000	Ø	0	50,000
2A. Hydrants @ Company Expense - New	348	5,006	10,000	15,000	15,000	20,000	20,00n	20,000	20,000	25,000	20,001	20,001	10,000	200,006
2B. Hydrants - Additional Hydrants requested	348						20,001	20,006	20,000		-			60,006
										_	_			
4. Miscellaneous Capitalized Maintenance Repairs	343	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Relocations	343	000'9	5,000	10,000	20,000	20,000	35,006	75,000	65,000	75,000	50,00P	50,000	54,000	465,000
					c									0
Total Budget		18,000	22,000	37,000	58,000	63,500	103,500	146,000	138,000	131,000	90,000	87,000	81,000	975,000

ITEM C - SERVICES 2003 INVESTMENT PLAN

TOO WATER INCIAL FEAT		A 000 A	-	ŀ	-										
+		TI.: C.	4	ŗ.	;		;	,	,						g.
Item	Ī	Unit Cost	4				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
 Install 3/4" Services (5002) Qu 	Quantity=	v.	345 3,672 525 7	7 8,392	2,098	1,574	3,147	5,245 10	7,868	5,245 10	5,245 10	5,245 10	2,623	2,098	52,450 100
2. Renew 3/4" Services (6002) Qu	Quantity=	\$ 1,2,	345 6,000 1,200 5	09'6	8,400	6,000	12,000	12,000 10	12,000	6,000	6,000	18,000	6,000	6,000	108,000
 Extend 3/4" Services (7002) Qu 	Quantity=	e9 vy	345 500	0 500	500	500	500	500	500	500	500	500	500	500	5,500
4. Install 1" Services (5102) Qu	Quantity=	ŏ &	345 42,000 600 70	00 54,000 70 90	60,000	60,000	66,000	66,000	66,000	90,000	72,000	72,000	90,000	90,000	828,000 1,380
5. Renew 1" Services (6102) Qu	Quantity=	\$ 1,3	345 <i>13,500</i> 10,350	00 40,500 10 30	40,500	20,250	20,250 15	20,250	<i>13,500</i> 10	<i>13,500</i> 10	<i>13,500</i> 10	20,250	40,500	40,500	297,000
6. Extend 1" Services (7102) Qu	Quantity=	& %	345 500	0 500	1,000	1,000	1,500	2,500	2,500	2,500	2,000	1,000	<i>500</i> 1	0	15,000
7. Install 2" Services (5302) Qu	Quantity=	345 \$ 1,750	345 <i>1,750</i> 750 1	0 5,250	8,750	8,750	8,750	8,750	7,000	7,000	8,750	7,000	5,250	3,500	80,500
8. Renew 2" Services (6302) Qu	Quantity=	345 \$ 2,750		0 2,750	2,750	2,750	2,750	2,750	2,750	2,750	2,750	2,750	0	0	24,750
9. Extend 2" Services (7302) Qu	Quantity=	. 3 . 70	345 700	0	0 0	700	0	700	0	0	0	0	00	00	1,400
10-Install Domestic Services larger than 2"		345 \$ 3,100		0 0	0 0	3,100	3,100	3,100	3,100	0	0	0 0	0	00	12,400
Subtotal			66,922	2 121,492	123,998	104,624	117,997	121,795	115,218	127,495	110,745	126,745	145,373	142,598	1,425,000

ITEM D - METERS 2003 INVESTMENT PLAN

2003 INVESTMENT PLAN		,													ı	
Item		Unit Cost	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	YTD
_	Quantity=	346.2	00	00	00	00	0	0	0	0	0	00	0	00	00	
1A. Purchase 5/8" & 3/4" (1002) - Encoders Qua	ders Quantity=	346.2	00	000	1,650	0 0	00	2,200	00	00	2,200	00	00	2,200	8,250 150	
1B. Purchase 5/8" & 3/4" (1402) - AMR (Quantity	346.2 \$ 110	00	33,000	33,000	33,000	33,000	33,000	22,000	22,000	16,500	16,500	16,500	16,500	275,000	187,000
2. Purchase 1" (1102)	Quantity=	346.3 \$ 55	00	55,186	0 0	00	00	0	00	00	00	00	00	0	00	0
2B. Purchase 1" (1502) - AMR		346.3 S 150	00	2,750	0	0	2,750	00	00	2,750	00	00	2,750	00	11,000	5,500
2. Purchase 1-1/2"(1202)	Quantity=	346.3 S 200	00	0000	2,000	00	00	2,000	0	00	2,000	00	00	2,000	8,000	4,000
3. Purchase 2" (1302)	Quantity=	346.3	00	000	18,750	00	00	18,750	00	00	18,750	00	00	18,750 75	75,000 300	37,500
4. Purchase 4"	Quantity=	346.3 \$ 450	00	0000	450	00	00	450	00	00	450	0 0	00	00	1,350	900
5. Purchase 6"	Quantity=	346.3	00	0000	00	00	00	1,000	00	00	00	00	00	00	1,000	1,000
6. Install 5/8" and 3/4" Meters (2002)	Quantity=	347	20,000	16,000	300	300	16,000	20,000	20,000	20,000	12,000	12,000	8,000	8,000	200,000	140,000 1,750 0
7. Renew 5/8"x3/4" (3002)	Quantity	347 S 205	20,500	20,500	102,500	102,500	400	82,000	82,000	82,000	20,500	20,500	20,500	20,500	3,200	492,000
8. Extend 5/8" and 3/4" (4002)	Quantity=	347 \$ 250	250	250	250	250	250	250	250	250	250	250	00	0	2,500	1,750
9. Install 1"(2102)	Quantity=	347 S 150	1,500	750	1,500	1,500	3,000	3,000	4,500	4,500	4,500	2,250	1,500	1,500	30,000	15,750
10. Renew 1" (3102)	Quantity=	347 S 200	200	200	10,000	200	200	3,000	200	200	200	10,000	200	8,000	32,600 163	14,000
 Extend I" (4102) 	Quantity=	347	• •	0 0	00	00	0 0	300	0 0	0	00	00	00	0 0	300	300
12. Install 2"(2302)	Quantity=	347	8,750	8,750	8,750	8,750	8,750	8,750	8,750	5,250	3,500	00	0 0	0 0	70,000	61,250
13. Renew 2" (3302)	Quantity=	347 S 2,300	0 0	2,300	0 0	2,300	00	2,300	0 0	2,300	00	2,300	00	2,300	13,800	6,900
14. Extend 2" (4302)	Quantity=	347 S 3,200	00	00	6,400	00	0 0	0 0	3,200	00	0 0	0 0	0	00	9,600	9,600
 Domestic Services Larger than 2" Compared to the co	Quantity=	347 \$ 20,150	00	00	00	00	20,150	20,150	20,150	20,150	0 0	00	00	00	80,600	60,450
16. Purchase Additional AMR reading equipment	iipment	395		25,000												25,000
Iotal Actual/Projected	\dagger		51,200	109,500	209,250	172,500	166,100	197,150	161,050	159,400	80,850	63,800	49,450	79,750	1,500,000	1,066,750

ITEM E - OFFICE FURNITURE & EQUIPMENT 2003 INVESTMENT PLAN

								8						
								2						·
Item	Acct	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Administrative														
Information Services												İ	i	
1. Replace/Upgrade 10 computers		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,500 2,500	2,500			21,000
Production														
Purchase one lap top computer for field information	391.1		4000				Silver to						S .	4,000
Water Quality														
							e e							0
Total Budget		2,000	000'9	2,000	2,000	2,000	2,000	2,000	2,000	2,500 2,500	2,500	0	0	25,000
Actual/Projected														

ITEM F - TRANSPORTATION EQUIPMENT ZOO3 INVESTMENT PLAN

Item	Acct	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Distribution									1000					i
1. Replace 1997 Chevy 1 1/2 Ton, Unit 70	392.12													0
2. Replace 1995 Chevy 3/4 Ton, Unit 46	392.11	i		i		i						i		0
														1
Engineering														
Replace 1998 Unit 82, 1/2 ton pick-up														0
	1				THE CONTRACT OF									
Production												i		
Replace Unit 58, 1996 4 x 4 truck														0
	392.11						,							0
Water Quality														
	,													
			l											
Total														0
Trade-in Value				0										0
Total Item F Less Trade-ins			0	0	0	0	0	0	0	0	0	0	0	0
Actual/Projected				l		!	!	!	j					
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ITEM (L. GENERAL EQUIPMENT ZOOB INVESTMENT PLAN

· · · · ·		<u> </u>	Т	1			T	Τ	7	_	_		_	_	_	т-	1			$\overline{}$	Ą١	<u>Ņ</u> _	т –	$\overline{}$	$\overline{}$	$\overline{}$		ΣŖ	1#	<u>53</u>	6			nmen	nt1_	06	250)4
Total				15,000	22.500	20.000						45 000	25,000	11.800	2001		12 000	2,000	1 450	45,000			18,000	10,000	10,000	55,000	35,000	9		357 750	0	357,750		Pa	ge	<u>1</u> 0 (of 4	! 5
Dec																		1												0		0						
Nov																														0		0						
Oct		200		1,000																										1,000		1,000	'	Į				
dəS				2,000																										2.000		2,000						
Aug				2,000									25.000									•								27.000		27,000						
Jul				2,000																			18,000							20.000		20,000						
Jun				2,000		50,000														45,000										97.000		97,000						
May				2,000								45,000		11,800												55,000				113.800		113,800						
Apr	7			2,000													12,000													14,000		14,000						
Mar				1,000														2,000	1,450					10,000	10,000					24,450		24,450						
Feb				1,000	22,500																									23,500		23,500						
Jan																					-						35,000			35,000		35,000						
Acct				394	394	394				398		398	398	398						398			395	395	395	395												
Îtem			Distribution	 Miscellaneous Small Equipment 	25 Perma-Log leak detectors @ \$900 each	Line Stop Replacement parts			Engineering		Maintenance	Replace Washwater Holding Tank Sludge Pumps, F	2. Replace PACL Chemical Feed Pumps, RRS	3. Replace Chemical Feed Pump VSD, KRS		Production	Replace exhaust fans at KRS valve house	2. Replace mower at KRS	Replace large tractor mower attach. at Jacobson	Replace Intake & Raw Water Ultrasonic Sensors		Water Quality	 Continuous remote chlorine analyzers dist.syst. 	2. Online Ammonia/Chloramine Analyzer at KRS	Online Ammonia/Chloramine Analyzer at RRS	 Gas Chromotagraph system for HA analysis 	5. Purchase AA Spectro			Total Investment	Less Item G Trade-in Values	Total Investment Item G	Actual/Projected					(

2003 INVESTMENT PLAN ITEM H - MISCELLANEOUS

0							•						_		Actual/Projected
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	000'01					000'01									7. Online Analyzer @ KRS
	005,8				8,500					9/5/0					6. Autoclave Sterilizer KRS
	000'7		ļ		000'7										5. UV-Sterilization Cabinet for Filter Funnels
	10,000							000'01							4. KRS Particle Counters and spares
	000'01									000'01					3. Distribution Samplling Stations
- 100	00†'I						00t'I								2. Purchase feeder Calib. Balance for RRS Lab
	3,500	ļ								005'€					1. Replace Analytical Balance RRS Lab
															Water Quality
	002,8							ì		005,8		1000			3. Upgrade Septic system at KRS
	005'9	<u> </u>										005'9			 Replace outdoor lighting at KRS
	000'07							000'07							1. Repairs to Production office trailer
		<u> </u>													Production
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	22252	<u> </u>													
	10,000				ļ	_				000'01				745	2. Replace Cox Street Motor
855	000'59			<u> </u>		ļ		000'59						311	1. Replace No. 14 Motor at KRS
		<u> </u>													Maintenance
	00010	ļ		<u> </u>											
	000,8	<u> </u>			_						000,8				I Install security equipment at stock building
					ļ			ļ			<u> </u>				Administrative
al I	IMOT	2007	10) 1	120	dec	- Quit			C						
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7003INABD 11-09-07 ItemH

KAW_R_AGKYDR1#53_attachment1_062504 Page 11 of 45

Investment Budget 2003 Item G

1.	Buy-Out Previously Leased Atomic Absorption Spectrophotometer & THM Gas Chromatograph\$35,000
	These systems are used to analyze trace metals including compliance lead and copper testing and trihalomethane disinfection byproducts. The lease agreement has ended (original value was \$139,002.65, leased over 60 months). Equipment is still functioning well; therefore, the buyout will eliminate the monthly extended lease payments of \$2,500 per month. (January)
2.	Miscellaneous Small Equipment\$15,000
3.	(25) Perma-Log Leak Detectors\$22,500
4.	Purchase Finish Lawn Mower\$2,000
	The mower for the Kubota lawn tractor is in need of replacement. A considerable amount of mowing is accomplished with KAWC associates. Repair costs and downtime of the equipment has been a hindrance in keeping the properties in acceptable appearance.
5.	Purchase Brush Mower\$1,450
	The mower for the large tractor is in need of replacement. This mower is used to mow large areas of company property, including the farm at Jacobson Reservoir. The mower is cracked in several places and modifications have been made to the original deck.
6.	Online Ammonia/Chloramine Analyzers KRS and RRS\$20,000
	These analyzers will allow operating personnel to more closely monitor the ammonia and monochloramine levels in the finished water to ensure proper chloramine disinfectant levels.
7.	Exhaust fans valve house at KRS\$12,000
	Some of the valve houses were constructed as long ago as 1958. They were not constructed to house electronic equipment. Now the valve houses house are equipped with numerous pieces of critical electronic equipment. The humidity and heat buildup in these buildings is resulting in corrosion and damage to this expensive and valuable electronic equipment. The installation of exhaust fans for use in summer months would help to bring a better and more desired environment in these facilities for the equipment that is now operating in them.

Investment Budget 2003 Item G

8.	Replace Washwater Holding Tank Sludge Pumps, KRS\$45,000
	These sludge pumps have been in service since 1992 and are in need of replacement. The sludge and grit these pumps transfer have worn the impellers, shafting, pump housings, etc. to the point of having to be replaced. They pump sludge, etc., from the washwater holding tanks to the lagoons for dewatering/drying. One of these pumps has been removed for repair. The repair cost is within ninety percent (90%) of the cost of a new pump.
9.	Replace Chemical Feed Pump Variable Speed Drives, KRS\$11,800
	The variable speed drives of the Ferric, PACl, Fluoride, Caustic Soda, Zinc Orthophosphate and Sodium Thiosulfate chemical feed pumps are obsolete and no repair parts are available. The manufacturer no longer produces the variable speed drives. To ensure treatment capacity reliability, these drives must be replaced. The chemical feed pumps will not operate without these drives.
10.	Air Conditioner for the Laboratory at KRS\$15,000
	The current air conditioner is over 15 years old requiring major repairs and \$3,000 has already been spent in 2002. This unit serves the laboratory and, for proper working environment of the personnel and the equipment, the unit needs to be replaced in order to ensure a working unit and to maintain the environment as is needed.
11.	Gas Chromatograph System for Haloacetic Acid Analysis55,000
	This advanced analysis equipment is needed to test for a newly regulated class of disinfection byproducts (Haloacetic Acids) which must be monitored extensively under new regulation. In-house monitoring capability will also enable effective treatment process analysis and control for these newly regulated parameters.
12.	Line Stop Replacement Parts\$50,000
13.	Replace Intake and Raw Water Transfer Pump Ultrasonic Flow Meters, KRS

The existing flow meters are used to measure the flow rate each pump is delivering to the treatment plant(s). They are also used to automatically calculate the wire-to-water efficiency of each pumping unit. They are the only means available to determine if a pumping unit is in need of maintenance/overhaul, due to lack of performance. The flow meters have been in service for 10 years and are in need of replacement due to lack of performance, age and obsolescence. There are no repair parts or repair service available for these units.

.....\$45,000

Investment Budget 2003 Item G

14.	KRS Lab Sink Cabinet Assembly	\$4,0	0(0	0
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The sink used in the laboratory at the KRS, where raw, treated and effluent water feed lines continuously flow, is not designed appropriately for the sampling of these lines on a regular basis. A new sink cabinet assembly is needed to eliminate splattering of spills of bacteria laden raw water associated with the current sink assembly.

15. Continuous Chlorine Analyzers in Distribution System........\$18,000

These instrument systems will monitor chlorine at remote areas, which now must be manually tested, taking much staff time to drive to these remote sites.

16. Replace PACI Chemical Feed Pumps, RRS\$25,000

The existing PACl pumps were originally installed as Alum feed pumps in Chemical Building No.1 in 1988. They were moved to Chemical Building No. 2 in 1997. The primary coagulant was changed to PACl in 2002 and these pumps are now being utilized as PACL feed pumps. These pumps cannot be operated in automatic flow paced mode due to the fact that they do not have any remote stroke adjuster or means of remotely controlling the stroke adjustment. To ensure efficient operation, adequate treatment of the processed water, compliance with treatment standards, these pumps must be replaced and remote control added to the SCADA system.

Investment Budget 2003 Item H

1.	Replace Outdoor Lighting @ KRS\$6,500
2.	Install Security Monitor\$8,000
3.	Remodel Residence @ KRS\$20,000
	The residence at the Kentucky River Station is vacant and needs to have maintenance and remodeling work performed on the building. This building, is a three bedroom brick veneer 1960's style ranch house. The operations superintendent of maintenance at the Kentucky River station uses a house trailer for an office and work space. I am proposing that we remodel this residential structure into an office building and meeting/training facility. We would also have the production supervisor cross connections work out of this building and free up needed space within the plant for the water quality group. The remainder of the house (the living room and dining area) would become a meeting room and training facility in which to conduct associate training sessions, and to conduct various meeting. Currently there is no area at this station in which to have a group meeting where all can meet at one time. The remodel facility would be large enough to accommodate the full production team for training session, to conduct construction meetings, safety meeting etc. As we move the one individual and the maintenance repair shop from a house trailer, and give needed office space to the water quality section.
4.	Replace Cox Street Ground Booster Pump Motor\$10,000
	Cox Street Booster has been in service since 1948 and still contains the original motor that was installed at that time. Due to age, years in service, parts availability and the fact that it has an electrical short to frame, we propose to replace this motor with a premium efficient motor. This will reduce operating costs and improve efficiency. Additionally, should the motor develop another electrical short to frame, an ensuing explosion could occur.
5.	Upgrade Septic System @ KRS\$8,500
6.	Replace Analytical Balance @ RRS Lab\$3,500
	Used daily by Water Quality and operators for precision weighing for preparation of reagents/medias, solids analysis, etc. Accuracy is imperative on this equipment for laboratory compliance.
7.	Distribution Sampling Stations\$10,000
	As KAWC expands into more rural areas, adequate bacteriological sample points are difficult to locate. Sampling stations provide a clean, easily accessible means of collecting compliance samples.

Investment Budget 2003 Item H

8. Replace Intake & Raw Water Transfer Pump Ultrasonic Flow Meters, KRS\$45,000

The existing flow meters are used to measure the flow rate each pump is delivering to the treatment plant(s). They are also used to automatically calculate the wire-to-water efficiency of each pumping unit. They are the only means available to determine if a pumping unit is in need of maintenance/overhaul, due to lack of performance. The flow meters have been in service for 10 years and are in need of replacement, due to lack of performance, age and obsolescence. There are no repair parts or repair service available for these units.

9. Replace High Service Pump No. 14 Motor @ KRS\$65,000

High Service Pump No.14 has been in service since 1972. During that time the motor has been rewound five (5) times, at an average cost of \$14,000 per rewind. High Service Pump No.15 has been in service since 1982 and the motor has been rewound one (1) time. Other high service motors have similar histories of rewinds comparable to no.15. Pump No.14 motor appears to have inherent deficiencies. We propose to replace the motor of High Service Pump No.14 with a premium efficiency (94% - 95%) motor, to reduce operating and maintenance costs.

10. Replace Roof on RRS Lab and Control Room.....\$15,000

The roof is leaking in several areas and is 15 years old. This portion of the roof covers the laboratory and the control room. Rainfall leakage in this area cannot be tolerated. The roof for the pump station and electrical rooms was replaced in year 2002. We need to finish this building out and replace the remainder of the roof in 2003.

10. Repairs to Production Office Trailer @ RRS\$20,000

The Production group utilizes a double-wide trailer for an office. This unit was purchased in 1989 as a temporary facility during construction. It has now been in service for 14 years. Due to numerous leaks in the flat roof, this building needs to have a pitch-shingled roof installed. The exterior of the building is plywood and a partial plywood foundation skirting. The plywood foundation skirting and the exterior plywood have deteriorated and have severe termite damage. This plywood area needs to be replaced with a vinyl siding. The company has long recognized the need for repairs to this facility, but has the repairs have been delayed each year, and now it is becoming critical to complete this project.

Investment Budget 2003 Item H

11.	KRS Particle Counters/Spares\$0,000
	Additional units to monitor the settled water particle counts allowing careful evaluation of coagulation efficiency and a spare unit to have available for instrument problems.
12.	Purchase Feeder Calibration Balance for RRS Lab\$1,400
	This will be used for gross weighing of carbon, permanganate, and other chemicals/materials, to have accurate measures for calibrating chemical feeders, etc. Also, it will be used for general weighing of other materials.
13.	Online Analyzers KRS\$30,000
	Supplemental backup monitors for critical treatment parameters, turbidity, chlorine and pH, fluoride, orthophosphate using the SCADA interface. Ensures reliable function of automated monitoring systems.
14.	UV-Sterilization Cabinet for Filter Funnels\$2,000
	The existing cabinet is subject to frequent malfunctions and is due for replacement.
15.	Autoclave Sterilizer @ KRS\$8,500
	Replace old autoclave sterilizer that is subject to frequent failures and repairs.



Kentucky-American Water Company

1025 Laurel Oak Road • P.O. Box 1770 • Voorhees, New Jersey08043 • (609) 346-8200
October 16,2002
IP 01- 04
Project No. 10511

KENTUCKY-AMERICAN WATER COMPANY SCOTT COUNTY MAINS REVISED INVESTMENT PROJECT 01-04

Reference:

Lnvestment Project Memoranda 01-04 dated 09/02/200; 99-03 dated 10/12/98, 97-05 dated 11/6/97, 95-12 dated 6/21/96; Strategic Business Plans for 1996, 1997, 1998, 1999,2000,2001 and 2002

Previous Estimated Cost	\$1,500,000
Previous 2001 Expenditure	\$750,000
Previous 2002 Expenditure	\$750,000
Previous Estimated Reimbursements	\$(960,000)
Proposed 2001 Reimbursements	\$(396,600)
Proposed 2002 Reimbursements	\$(563,400)
Revised Estimated Cost	\$2,363,000
Prior Expenditure	\$1,037,000
Proposed 2002 Expenditure	\$726,000
Proposed 2003 Expenditure	\$600,000
Revised Total Reimbursements	(\$1,607,300)
Prior Reimbursements	(\$705,000)
Proposed 2002 Reimbursements	(\$493,700)
Proposed 2003 Reimbursements	(\$408,000)

INVESTMENT PROJECT REVIEW	
DEPARTMENT BY	DATE
ENGINEERING / / / / / / /	11-22-02
WATER QUALITY / //4 //4	
INFO. SYSTEMS	
OTHERS	
RECOMMENDED FOR APPROVAL:	3/6/00
PRESIDENT	
'	/ /

Kentucky-American Water Company Revised IP 01-04 Scott County Mains Project No. 10511 October 16, 2002 Page 2

DISCUSSION

An upward revision to the existing investment project is recommended to complete the public-private partnership with Scott County as proposed in the 2002 Strategic Business Plan. The Scott County Judge Executive has indicated that the Fiscal Court would like to complete all work by the end of the 2002-2003 Fiscal Year for the County which ends June 30,2003. This work completes the provision of water service to all of Scott County as the City of Georgetown has already completed the western half of the County in partnership with the Fiscal Court. This program has enabled Kentucky-American to expand the retail service in a fast-developing area of our system. It additionally has allowed for two new wholesale customers at no additional expense and the potential for a third that has approached KAWC. Kentucky-American has received positive public recognition for its participation in the partnership and the residents of Scott County have received affordable, high quality water service that fits well with Governor Patton's initiative to provide water service to all of Kentucky.

The program was initiated under budget project 95-12 in 1995 and 1996. The County has agreed to provide 80 percent of the capital expenditures for rural water service and waive refunds if Kentucky-American Water Company will provide 20 percent of the capital expenditures. The fiscal court was only concerned with providing domestic water service, and insisted on the extension of small diameter, low pressure class PVC mains. Kentucky-American agreed to provide the investment necessary to upgrade the proposed facilities in order to provide for anticipated growth and to meet Company standards of materials for long-term maintenance. The proposed mains will provide a minimum hydrant fire flow of 500 gpm to these residential areas. Because Scott County was the third fastest growing county in the state of Kentucky for the 1990-2000 period, this additional investment has proven very cost effective. The Public Service Commission has approved the special agreement.

This project has included the installation of 23,000 feet of 8" main on Burgess Smith Road, 20,000 feet of 8" on Davis Turkeyfoot Road, 13,200 feet of 8" main on US 25 to the Grant County line, 2,600 feet of 8" on Frogtown Lane, and 4,900 feet of main on Mulberry Lane. The proposed revision will allow for the completion of the installation of 8,780 feet of 8" main in Northeast County Line Road in 2002 and completes the project with 18,850 feet of main on South Rays Fork and Fields Lane in 2003. This project will provide approximately 285 new customers with 90 being included in this last phase. This last phase will also allow for a second metering point for Georgetown Municipal Water and Sewer Service and a potential metering point for the City of Corinth north of Scott County.

The accuracy of the estimate is within plus/minus 10 percent.

Linda C. Bridwell, PE

Director of Engineering

Nick O. Rowe

Vice-President - Operations

KENTUCKY-AMERICANWATER COMPANY REVISED INVESTMENT PROJECT 01-04 SCOTT COUNTY MAINS

DETAILED COST ESTIMATE

		September 2000	October 2002		
Item	Responsibility	Total Estimated Cost	Total Estimated Cost	Scott County Contribution	KAWC Costs
2001 Design	Consultant	\$9,575	Cost		
Easement Acquisition	Consultant	\$25,000			
Construction	Contract	\$665,580			
Construction	Contract	\$700,155			
Omissions Contingencies		\$34,345			
AFUDC		\$15,500			
		\$750,000	\$1,037,000	\$704,956	\$331,744
2002 Design	Consultant	\$8,000			
Easement Acquisition	Consultant	\$20,000			
Construction	Contract	\$672,435			
		\$700,435			
Omissions Contingencies		\$34,335			
AFUDC		<u>\$15,230</u>			
		\$750,000	\$726,000	\$493,680	\$232,320
2003 Design	Consultant		\$12,000	\$8,160	\$3,840
Easement Acquisition	Consultant		\$18,000	\$12,240	\$5,760
Construction	Contract		<u>\$530,000</u>	<u>\$360,400</u>	<u>\$169,600</u>
			\$560,000	\$380,800	\$179,200
Omissions & Contingencies			\$28,000	\$19,040	\$8,960
AFUDC			\$12,000	\$8,160	<u>\$3,840</u>
			\$600,000	\$408,000	\$192,000

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DESCRIPTION	ENTITY								2002	72						TOTAL
OF ACTIVITY	RESPONSIBLE	NAN	FEB	È	MAR	APR	≥	MAY	NON	JUL	AUG	SEPT	OCT	NOV	DEC	2002
Design	Consultant	\$ 1,925	\$ 2,875	6 9	3,200	-	€9	1	\$	· 69						\$ 8,000
Easement Acquisition	KAWC			49	5,000	\$ 10,000	€9	5,000	5	٠ چ						\$ 20,000
Construction	Consultant			\$,				\$ 19,925	\$ 54,800	\$ 77,000	\$ 115,500	\$ 169,000	\$ 120,775	\$ 101,700	\$ 658,700
							-	\dagger								
							_	370								
SUB-TOTAL		\$ 1,925	\$ 2,875	₩.	8,200 (\$ 10,000	€9	2,000	\$ 19.925	\$54,800 \$ 77,000	\$ 77,000	\$ 115.500	\$ 169,000	\$ 120,775	\$ 101.700	\$ 686.700
O&C (5%)		96	\$ 144	\$	410	\$ 200	\$	250	966 \$	\$ 2,740	\$ 3,850	\$ 5,775	\$ 8,450	\$ 6,039	\$ 5,085	\$ 34,335
Overhead (2%)		\$	\$ 58	\$	164	\$ 200	69	100	\$ 399	\$ 1,096	\$ 1,540	\$ 2,310	\$ 3,380	\$ 2,416	\$ 2,034	\$ 13,734
AFUDC		2 \$	\$ 11	8	31	99.00		155.25	248.72	528.94	1,023.19	1,745.06	2,811.94	3,898.59	4,671.38	\$ 15,231
CASH FORECAST		\$ 2,067	\$ 3,087	\$	8,805	\$ 10,799	€9	5,505	\$ 21,568	\$ 59,165	\$ 83,413	\$ 125,330	\$ 183,642	\$ 133,128	\$ 113,490	\$ 750,000

					KENTI	KENTUCKY-AMERICAN WATER COMPANY REVISED INVESTMENT PROJECT 01-04	MERIC /ESTM	SAN W	'ATER (COMP.	ANY 04								
						SCO) TT CC	UNTY	SCOTT COUNTY MAINS	(2									
DESCRIPTION	ENTITY								2003	11									TOTAL
OF ACTIVITY	RESPONSIBLE	JAN	FEB	╬	MAR	APR	∑	MAY	NOC	3	_ _	AUG	SEPT	OCT	_	NOV	DEC	-	2003
Design	Consultant	\$ 3,000	\$ 5,000	\$ 00	3,000	\$ 1,000	\$	-	· Θ	eσ	-				$\frac{1}{1}$			€9	12,000
Easement Acquisition	KAWC	\$ 5,000	\$ 5,000	\$ 00	5,000	\$ 3.000	€		€	9			60					ક્ક	18,000
Construction	Consultant	\$ 38,600	\$ 59,900	\$ 00	61.900	\$ 78.500		\$ 141.000	\$ 95.000	θ	43,200				+			မှာ	518,100
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SUB-TOTAL		\$ 46,600	\$ 69,900	\$ 00	006'69	\$ 82,500	€9	141,000	\$ 95,000	s	43,200 \$	t	, &	€	€	4.5	\$	8	548,100
O&C (5%)		\$ 2,330	\$ 3,495	95	3,495	\$ 4,125	es	7,050	\$ 4,750	sa.	2,160 \$, сэ	€9	ъ		ω.	69	27,405
Overhead (2%)		\$ 932	\$ 1,398	86	1,398	\$ 1,650	<i>\$</i>	2,820	\$ 1,900	69	864 \$,	ا ج	€	69		- ↔	69	10,962
AFUDC		\$ 175	69	612 \$	1,136	\$ 1,707	69	2,546	\$ 3,431	69	3,949							ક્ક	13,554
CASH FORECAST		\$ 50,037	\$ 75,405	\$ 90	75,929	\$ 89,982	↔	153,416	\$ 105,081 \$		50,173 \$	1	· \$	s	69	'	\$	မှ	600,021

KENTUCKY-AMERICANWATER COMPANY ECONOMIC ANALYSIS OF THE IMPACT OF CAPITAL REVISED INVESTMENT PROJECT 01-04 <u>SPENDING PROPOSAL</u> <u>SCOTT COUNTY MAINS</u>

Determination of Revenue Requiremen	<u>ı</u> t					
Authorized Rate of Return on Common	Equi	ity				11.00%
Federal Income Tax Rate						35.00%
Return on Common Equity before FIT						16.92%
State Income Tax Rate						8.25%
Required Rate of Return on CE for Pro	ject					18.44%
Common Equity Ratio for Project						40.00%
Weighted Cost of Common Equity befo	re Ta	ıx				7.38%
Long Term Debt Ratio for Project						60.00%
Estimated Cost Rate for New Debt						7.00%
Weighted Cost of Debt						4.20%
						0,0
Total Pre-Tax Cost of Capital						11.58%
Total Estimated Cost of Project					\$	2,363,000
Investment by Others					•	1,607,300
Net Investment Financed by Company					\$	755,700
New Common Equity	\$	302,280				
New Long Term Debt	•	453,420				
3		, , , , , , , ,				
Total Revenue Requirement				<u>Amount</u>		<u>Rate</u>
Required Pre-Tax Operating Income			\$	87,510		11.58%
Depreciation Rate		1.180%		8,917		1.18%
Property Tax Rate		0.7037%		5,318		0.70%
Change in Operation & Maint. Expense	}			0		0.00%
Revenue from New Customers				45,000		5.95%
Total Net Revenue Requirement			\$	146,745		19.41%
Revenue Tax Rate		0.14537%		214		0.03%
Total Revenue Requirement			\$	146,959		19.44%
Latest 12 Months Revenue - 09/30/200	2		\$	42,262,154		
Required Price Increase	_			0.35%	•	
•						