Rubin & Hays ATTORNEYS AT LAW

Kentucky Home Trust Building, 450 South Third Street, Louisville, Kentucky 40202-1410
Telephone (502) 569-7525 Telefax (502) 569-7555 Email: rh@rubinhays.com

CHARLES S. MUSSON
W. RANDALL JONES
CHRISTIAN L. JUCKETT

PARALEGAL
MARY M. EMBRY

August 29, 2006

Ms. Beth O'Donnell
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, Kentucky 40602

Re: **Whitley County Water District - Case No. 2006-00367**

Dear Ms. O'Donnell:

Enclosed please find two (2) Preliminary Engineering Reports and two (2) Final Engineering Reports, all of which have been originally signed, stamped and dated by the Engineer on the Project, Mr. Carlos Miller of Kenvirons, Inc.

If you need any additional information or documentation, please let us know.

Sincerely,

Rubin & Hays

By W. Randall Jones

WRJ:jlm
Enclosures
cc: Distribution List

DISTRIBUTION LIST

Account No. 2344.0000

Re: Whitley County Water District Waterworks Revenue Bonds, Series 2006 in the principal amount of $295,000 (West Highway 92 Water Project)

Mr. Kenneth Slone
State Director
Rural Development
771 Corporate Drive, Suite 200
Lexington, Kentucky 40503-5477

Telephone: (859) 224-7336
Fax: (859) 224-7425

Mr. Tom Partin
Rural Development
95 South Laurel Road, Suite A
London, Kentucky 40744

Telephone: (606) 864-2172
Fax: (606) 864-7717

Ms. Kathy Moyers, Office Manager
Whitley County Water District
19 South Highway 25W
Williamsburg, Kentucky 40769

Telephone: (606) 549-3600
Fax: (606) 549-5795

Carlos E. Miller, P.E.
Kenvirons, Inc.
452 Versailles Road
Frankfort, Kentucky 40601

Telephone: (502) 695-4357
Fax: (502) 695-4353

Jane Butcher, Esq.
P.O. Box 704
Williamsburg, Kentucky 40769

Phone: (606) 549-4955

W. Randall Jones, Esq.
Rubin & Hays
Kentucky Home Trust Building
450 South Third Street
Louisville, Kentucky 40202

Telephone: (502) 569-7534
Fax: (502) 569-7555

FINAL ENGINEERING REPORT

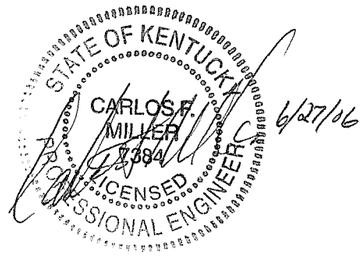
For

WHITLEY COUNTY WATER DISTRICT

KY 92 WEST WATER SYSTEM EXTENSIONS

PROJECT NO. 2002142

JUNE, 2006



A Preliminary Engineering Report dated August, 2002 describes, in detail, the scope and need for this project. The report is included herewith by reference.

Bids were received on June 19, 2006. Four (4) bids were received for Contract 1 – Water System Extensions and three (3) bids were received for Contract 2 – Alsile Road Storage Tank. The low bidder for Contract 1 was Clay Pipeline, Inc. Manchester, Kentucky in the amount of $734,383 for the base project and $1,305,047 which included Additive Alternates 1 & 2. The low bidder for Contract 2 was Kentucky Glass Lined Tank Systems, Inc., Lexington, Kentucky in the amount of $167,491. A copy of the certified bid tabulations is included in this report.

The funding sources available for this project are as follows:

Rural Development Loan	$295,000
Rural Development Grant	350,000
Local Contribution	30,000
ARC Grant	400,000
Tobacco Fund Grant	600,000
Total Funding Available	$1,675,000

The construction bids for this project, including Additive Alternate 1 (Ryans Creek Road) as contained in the Contract 1 bid, are within the project funding budget. A revised project cost breakdown is as follows:

BUDGET ITEM	R.D. LETTER OF CONDITIONS	REVISED	
Development	$1,285,000	$1,202,239	(2)
Land & Rights	10,000	10,000	
Legal & Administrative	18,000	18,000	
Engineering	180,000	169,703	(1)
Interest	50,000	50,000	
Tobacco Grant Administration	---	6,000	
Contingencies	132,000	172,662	
Reimbursement to MCWD	---	46,396	
	$1,675,000	$1,675,000	

(1) ENGINEERING

Design (7.91%)	$95,097
Construction Observation (4.40%)	52,898
Preliminary Engineering Report	7,000
Surveying	3,000
Environmental	4,500
Archaeological	700
Geotechnical	6,508
	$169,703

(2) CONSTRUCTION COST

Base Project	$734,383
Add. Alt. No. 1	300,365
Alsile Road Tank	167,491
	$1,202,239

RECOMMENDATIONS

1. The bid amounts for the project are in the acceptable range for the types of work involved. The contractors that submitted the low bids are experienced and acceptable.

2. It is recommended that Contract 1 – Water Line Extensions be awarded to Clay Pipeline, Inc., including Additive Alternate 1, in the amount of $1,034,748.

3. It is recommended that Contract 2 – Alsile Road Storage Tank be awarded to Kentucky Glass Lined Tank Systems, Inc. in the amount of $167,491.

4. Proceed with the application to the Public Service Commission for authority to construct the facilities and adjust the rates.

5. Remaining monies should be used to install Additive Alternate No. 2 (Old Jellico Road). When the initial project is substantially complete and the amount of remaining monies can be more precisely determined, a report relative to recommended facilities will be submitted.

KENVIRONS, INC.
452 VERSAILLES ROAD
FRANKFORT, KENTUCKY 40601
TEL (502) 695-4357
FAX (502) 695-4363

BID TABULATIONS

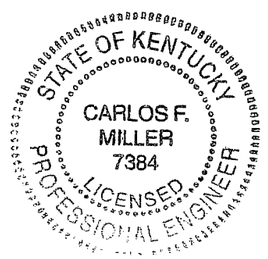
PROJECT: Contract 1: Water System Extensions
LOCATION: Whitley County Water District
BID DATE: June 19, 2006 - 1:00 p m (local time)

				Clay Pipeline, Inc 70 Fox Hollow Road Manchester, KY 40962		D F Balley, Inc P O Box 439 Owingsville, KY 40360	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	UNIT COST	COST
1	8-Inch PVC Pipe, SDR 21	LF	4,500	$10.10	$45,450.00	$11.76	$52,920.00
2	6-Inch D.I. C1. 350 Pipe	LF	11,100	12.60	139,860.00	15.50	172,050.00
3	6-Inch PVC SDR-17 Pipe	LF	8,020	8.55	68,571.00	9.42	75,548.40
4	6-Inch PVC SDR-21 Pipe	LF	7,020	7.50	52,650.00	8.54	59,950.80
5	4-Inch PVC SDR-17 Pipe	LF		0.00	0.00	0.00	0.00
6	4-Inch PVC SDR-21 Pipe	LF	17,920	6.25	112,000.00	6.12	109,670.40
7	Fire Hydrant, Type 2	EA	1	2,230.00	2,230.00	2,694.32	2,694.32
8	*Blue Line Stream Crossing*			0.00	0.00	0.00	0.00
	8.1 6-Inch	EA	2	5,000.00	10,000.00	5,875.44	11,750.88
	8.2 4-Inch	EA	3	5,000.00	15,000.00	4,361.82	13,085.46
9	6-Inch Creek Crossing, Type A	LF	10	85.00	850.00	66.17	661.70
10	6-Inch Creek Crossing, Type B	LF	20	85.00	1,700.00	78.98	1,579.60
11	4-Inch Creek Crossing, Type A	LF	10	75.00	750.00	55.37	553.70
12	4-Inch Creek Crossing, Type B	LF	15	75.00	1,125.00	68.19	1,022.85
13	Jellico Creek Directional Bore	LS	1	33,000.00	33,000.00	21,329.14	21,329.14
14	6-Inch Bore & Case	LF	60	130.00	7,800.00	100.96	6,057.60
15	4-Inch Bore & Case	LF	60	120.00	7,200.00	87.17	5,230.20
16	6-Inch Open Cut & Case	LF	70	85.00	5,950.00	36.33	2,543.10
17	4-Inch Open Cut & Case	LF	15	85.00	1,275.00	28.31	424.65
18	Tie-In to 6-Inch with Gate Valve	EA	1	1,310.00	1,310.00	1,070.54	1,070.54
19	8-Inch Gate Valve	EA	1	815.00	815.00	827.74	827.74
20	6-Inch Gate Valve	EA	16	600.00	9,600.00	570.51	9,128.16
21	4-Inch Gate Valve	EA	10	525.00	5,250.00	465.85	4,658.50
22	3-Inch Blow Off Assembly, Type 1	EA	1	1,025.00	1,025.00	1,061.93	1,061.93
23	3-Inch Blow Off Assembly, Type 2	EA	3	675.00	2,025.00	1,174.35	3,523.05
24	3" Pressure Reducing Station	EA		0.00	0.00	0.00	0.00
25	4-Inch Master Meter/Solenoid Operated Valve Station	EA	1	13,000.00	13,000.00	16,136.82	16,136.82
26	Creek Crossing By-Pass Meter	EA	1	925.00	925.00	951.49	951.49
27	3/4" Service Tubing	LF	8,000	3.00	24,000.00	4.74	37,920.00
28	Air Release Valve	EA	4	425.00	1,700.00	452.14	1,808.56
29	5/8"x3/4" Meter Box Installation	EA	20	500.00	10,000.00	527.36	10,547.20
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valv	EA	143	560.00	80,080.00	630.54	90,167.22
31	Free Bore for 3-Inch through 8-Inch Pipe	LF	200	50.00	10,000.00	51.65	10,330.00
32	Final Pipeline Cleanup	LF	48,560	0.70	33,992.00	0.70	33,992.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	5,000	5.00	25,000.00	12.47	62,350.00
	33.2 Light Duty Bituminous	LF	200	20.00	4,000.00	28.30	5,660.00
	33.3 Heavy Duty Bituminous	LF	150	25.00	3,750.00	57.64	8,646.00
	33.4 Concrete	LF	100	25.00	2,500.00	42.16	4,216.00
	TOTAL BASE PROJECT BID				**$734,383.00**		**$840,068.01**
	Additive Alternate No. 1				$300,365.00		$329,459.81
	Additive Alternate No. 2				270,299.00		288,482.76
	TOTAL OF ADDITIVE ALTERNATES NOS. 1-2				$570,664.00		$617,942.57
	TOTAL BASE PROJECT BID PLUS ADDITIVE ALTERNATES 1-2				**$1,305,047.00**		**$1,458,010.58**

* DENOTES AN ARITHMETIC ERROR ON THE BID, AND THE AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE ON BID

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 1:00 P M . LOCAL TIME. MONDAY. JUNE 19. 2006 AT THE WHITLEY COUNTY WATER DISTRICT

BY: _____ 6/20/06
Carlos F. Miller, P.E. DATE



KENVIRONS, INC
452 VERSAILLES ROAD
FRANKFORT, KENTUCKY 40601
TEL (502) 695-4357
FAX (502) 695-4363

BID TABULATIONS

PROJECT: Contract 1: Water System Extensions
LOCATION: Whitley County Water District
BID DATE: June 19, 2006 - 1:00 p.m. (local time)

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	Akins Excavating, Inc. 182 Busy Lane Corbin, KY 40701 UNIT COST	Akins Excavating, Inc. 182 Busy Lane Corbin, KY 40701 COST	H&M Pipeline, Inc P O Box 277 Russell Springs, KY 42642 UNIT COST	H&M Pipeline, Inc P O Box 277 Russell Springs, KY 42642 COST
1	8-Inch PVC Pipe, SDR 21	LF	4,500	$13.50	$60,750.00	$12.35	$55,575.00
2	6-Inch D.I. C1. 350 Pipe	LF	11,100	16.00	177,600.00	18.95	210,345.00
3	6-Inch PVC SDR-17 Pipe	LF	8,020	9.50	76,190.00	10.05	80,601.00
4	6-Inch PVC SDR-21 Pipe	LF	7,020	8.80	61,776.00	8.45	59,319.00
5	4-Inch PVC SDR-17 Pipe	LF		0.00	0.00	0.00	0.00
6	4-Inch PVC SDR-21 Pipe	LF	17,920	7.00	125,440.00	5.95	106,624.00
7	Fire Hydrant, Type 2	EA	1	3,233.00	3,233.00	3,520.36	3,520.36
8	Blue Line Stream Crossing			0.00	0.00	0.00	0.00
	8.1 6-Inch	EA	2	5,676.00	11,352.00	6,500.00	13,000.00
	8.2 4-Inch	EA	3	4,676.00	14,028.00	4,500.00	13,500.00
9	6-Inch Creek Crossing, Type A	LF	10	80.00	800.00	95.65	956.50
10	6-Inch Creek Crossing, Type B	LF	20	90.00	1,800.00	84.35	1,687.00
11	4-Inch Creek Crossing, Type A	LF	10	60.00	600.00	73.75	737.50
12	4-Inch Creek Crossing, Type B	LF	15	75.00	1,125.00	65.00	975.00
13	Jellico Creek Directional Bore	LS	1	40,000.00	40,000.00	49,000.00	49,000.00
14	6-Inch Bore & Case	LF	60	120.00	7,200.00	117.90	7,074.00
15	4-Inch Bore & Case	LF	60	115.00	6,900.00	99.45	5,967.00
16	6-Inch Open Cut & Case	LF	70	60.00	4,200.00	77.60	5,432.00
17	4-Inch Open Cut & Case	LF	15	55.00	825.00	73.25	1,098.75
18	Tie-In to 6-Inch with Gate Valve	EA	1	800.00	800.00	1,642.00	1,642.00
19	8-Inch Gate Valve	EA	1	1,109.00	1,109.00	1,020.75	1,020.75
20	6-Inch Gate Valve	EA	16	750.00	12,000.00	971.05	15,536.80
21	4-Inch Gate Valve	EA	10	601.00	6,010.00	654.00	6,540.00
22	3-Inch Blow Off Assembly, Type 1	EA	1	1,006.00	1,006.00	1,106.35	1,106.35
23	3-Inch Blow Off Assembly, Type 2	EA	3	768.00	2,304.00	1,015.00	3,045.00
24	3" Pressure Reducing Station	EA		0.00	0.00	0.00	0.00
25	4-Inch Master Meter/Solenoid Operated Valve Station	EA	1	23,411.00	23,411.00	19,818.00	19,818.00
26	*Creek Crossing By-Pass Meter*	EA	1	482.00	482.00	805.00	805.00
27	3/4" Service Tubing	LF	8,000	7.00	56,000.00	3.18	25,440.00
28	Air Release Valve	EA	4	328.00	1,312.00	711.00	2,844.00
29	5/8"x3/4" Meter Box Installation	EA	20	400.00	8,000.00	488.50	9,770.00
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valv	EA	143	525.00	75,075.00	610.00	87,230.00
31	Free Bore for 3-Inch through 8-Inch Pipe	LF	200	45.00	9,000.00	30.00	6,000.00
32	Final Pipeline Cleanup	LF	48,560	0.70	33,992.00	0.70	33,992.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	5,000	3.00	15,000.00	5.00	25,000.00
	33.2 Light Duty Bituminous	LF	200	8.00	1,600.00	15.00	3,000.00
	33.3 Heavy Duty Bituminous	LF	150	16.00	2,400.00	20.00	3,000.00
	33.4 Concrete	LF	100	20.00	2,000.00	23.00	2,300.00
TOTAL BASE PROJECT BID					**$845,320.00**		**$863,502.01**
	Additive Alternate No. 1				$326,588.00		$320,275.50
	Additive Alternate No. 2				291,051.00	*	286,200.75
TOTAL OF ADDITIVE ALTERNATES NOS. 1-2					$617,639.00	*	$606,476.25
TOTAL BASE PROJECT BID PLUS ADDITIVE ALTERNATES 1-2					**$1,462,959.00**	*	**$1,469,978.26**

* DENOTES AN ARITHMETIC ERROR ON THE BID, AND THE AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE ON BID

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 1:00 P.M., LOCAL TIME, MONDAY, JUNE 19, 2006 AT THE WHITLEY COUNTY WATER DISTRICT

BY: _____ _____
Carlos F. Miller, P.E. DATE

KENVIRONS, INC
452 VERSAILLES ROAD
FRANKFORT, KENTUCKY 40601
TEL (502) 695-4357
FAX (502) 695-4363

ADD ALTERNATE NO. 1

RYANS CREEK ROAD

SHEETS: 6 & 12-20

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	*Clay Pipeline, Inc* 70 Fox Hollow Road Manchester, KY 40962 UNIT COST	COST	D F Bailey, Inc P O Box 439 Owingsville, KY 40360 UNIT COST	COST
5	4-Inch PVC SDR-17 Pipe	LF	30,150	$6.40	$192,960.00	6.52	$196,578.00
8	Blue Line Stream Crossing			0.00	0.00	0.00	0.00
	8.2 4-Inch	EA	4	5,000.00	20,000.00	4,361.82	17,447.28
11	4-Inch Creek Crossing, Type A	LF	15	75.00	1,125.00	55.37	830.55
12	4-Inch Creek Crossing, Type B	LF	40	75.00	3,000.00	68.19	2,727.60
15	4-Inch Bore & Case	LF	30	120.00	3,600.00	87.17	2,615.10
17	4-Inch Open Cut & Case	LF	25	85.00	2,125.00	28.31	707.75
21	4-Inch Gate Valve	EA	9	525.00	4,725.00	465.85	4,192.65
23	3-Inch Blow Off Assembly, Type 2	EA	1	675.00	675.00	1,174.35	1,174.35
24	3" Pressure Reducing Station	EA	1	13,000.00	13,000.00	16,763.33	16,763.33
27	3/4" Service Tubing	LF	1,500	3.00	4,500.00	4.74	7,110.00
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valve	EA	30	560.00	16,800.00	630.54	18,916.20
31	Free Bore for 3-Inch through 8-Inch Pipe	LF	20	50.00	1,000.00	51.65	1,033.00
32	Final Pipeline Cleanup	LF	30,150	0.70	21,105.00	0.70	21,105.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	3,000	5.00	15,000.00	12.47	37,410.00
	33.3 *Heavy Duty Bituminous*	LF	30	25.00	750.00	28.30	849.00
	TOTAL ALTERNATE NO. 1 BID				**$300,365.00**		**$329,459.81**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	Akins Excavating, Inc 182 Busy Lane Corbin, KY 40701 UNIT COST	COST	H&M Pipeline, Inc P O Box 277 Russell Springs, KY 42642 UNIT COST	COST
5	4-Inch PVC SDR-17 Pipe	LF	30,150	$7.40	$223,110.00	$7.05	$212,557.50
8	Blue Line Stream Crossing			0.00	0.00	0.00	0.00
	8.2 4-Inch	EA	4	4,676.00	18,704.00	4,500.00	18,000.00
11	4-Inch Creek Crossing, Type A	LF	15	60.00	900.00	73.75	1,106.25
12	4-Inch Creek Crossing, Type B	LF	40	75.00	3,000.00	65.00	2,600.00
15	4-Inch Bore & Case	LF	30	115.00	3,450.00	99.45	2,983.50
17	4-Inch Open Cut & Case	LF	25	55.00	1,375.00	73.25	1,831.25
21	4-Inch Gate Valve	EA	9	601.00	5,409.00	654.00	5,886.00
23	3-Inch Blow Off Assembly, Type 2	EA	1	768.00	768.00	1,015.00	1,015.00
24	3" Pressure Reducing Station	EA	1	12,137.00	12,137.00	13,921.00	13,921.00
27	3/4" Service Tubing	LF	1,500	7.00	10,500.00	3.18	4,770.00
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valve	EA	30	525.00	15,750.00	610.00	18,300.00
31	Free Bore for 3-Inch through 8-Inch Pipe	LF	20	45.00	900.00	30.00	600.00
32	Final Pipeline Cleanup	LF	30,150	0.70	21,105.00	0.70	21,105.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	3,000	3.00	9,000.00	5.00	15,000.00
	33.3 Heavy Duty Bituminous	LF	30	16.00	480.00	20.00	600.00
	TOTAL ALTERNATE NO. 1 BID				***$326,588.00***		***$320,275.50***

KENVIRONS, INC
452 VERSAILLES ROAD
FRANKFORT, KENTUCKY 40601
TEL (502) 695-4357
FAX (502) 695-4363

ADD ALTERNATE NO. 2

OLD JELLICO ROAD

SHEETS: 9 & 26-34

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	Clay Pipeline, Inc 70 Fox Hollow Road Manchester, KY 40962 UNIT COST	Clay Pipeline, Inc 70 Fox Hollow Road Manchester, KY 40962 COST	D F Bailey, Inc P.O. Box 439 Owingsville, KY 40360 UNIT COST	D F Bailey, Inc P.O. Box 439 Owingsville, KY 40360 COST
5	4-Inch PVC SDR-17 Pipe	LF	25,340	$6.40	$162,176.00	$6.52	$165,216.80
6	4-Inch PVC SDR-21 Pipe	LF	1,400	6.25	8,750.00	6.12	8,568.00
8	Blue Line Stream Crossing			0.00	0.00	0.00	0.00
	8.2 4-Inch	EA	3	5,000.00	15,000.00	4,361.82	13,085.46
11	4-Inch Creek Crossing, Type A	LF	30	75.00	2,250.00	55.37	1,661.10
17	4-Inch Open Cut & Case	LF	145	85.00	12,325.00	28.31	4,104.95
21	4-Inch Gate Valve	EA	9	525.00	4,725.00	465.85	4,192.65
23	3-Inch Blow Off Assembly, Type 2	EA	1	675.00	675.00	1,174.35	1,174.35
24	3" Pressure Reducing Station	EA	1	13,000.00	13,000.00	16,763.33	16,763.33
27	3/4" Service Tubing	LF	1,500	3.00	4,500.00	4.74	7,110.00
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valve	EA	28	560.00	15,680.00	630.54	17,655.12
32	Final Pipeline Cleanup	LF	26,740	0.70	18,718.00	0.70	18,718.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	1,500	5.00	7,500.00	12.47	18,705.00
	33.3 Heavy Duty Bituminous	LF	200	25.00	5,000.00	57.64	11,528.00
	TOTAL ALTERNATE NO. 2 BID				**$270,299.00**		**$288,482.76**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	Akins Excavating, Inc 182 Busy Lane Corbin, KY 40701 UNIT COST	Akins Excavating, Inc 182 Busy Lane Corbin, KY 40701 COST	H&M Pipeline, Inc. P.O. Box 277 Russell Springs, KY 42642 UNIT COST	H&M Pipeline, Inc. P.O. Box 277 Russell Springs, KY 42642 COST
5	4-Inch PVC SDR-17 Pipe	LF	25,340	$7.40	$187,516.00	$7.05	$178,647.00
6	4-Inch PVC SDR-21 Pipe	LF	1,400	7.00	9,800.00	5.95	8,330.00
8	Blue Line Stream Crossing			0.00	0.00	0.00	0.00
	8.2 4-Inch	EA	3	4,676.00	14,028.00	4,500.00 *	13,500.00
11	4-Inch Creek Crossing, Type A	LF	30	60.00	1,800.00	73.75	2,212.50
17	4-Inch Open Cut & Case	LF	145	55.00	7,975.00	73.25	10,621.25
21	4-Inch Gate Valve	EA	9	601.00	5,409.00	654.00	5,886.00
23	3-Inch Blow Off Assembly, Type 2	EA	1	768.00	768.00	1,015.00	1,015.00
24	3" Pressure Reducing Station	EA	1	12,137.00	12,137.00	13,921.00	13,921.00
27	3/4" Service Tubing	LF	1,500	7.00	10,500.00	3.18	4,770.00
30	5/8"x3/4" Meter Box Installation w/ Pressure Reducing Valve	EA	28	525.00	14,700.00	610.00	17,080.00
32	Final Pipeline Cleanup	LF	26,740	0.70	18,718.00	0.70	18,718.00
33	Pavement Restoration			0.00	0.00	0.00	0.00
	33.1 Crushed Stone	LF	1,500	3.00	4,500.00	5.00	7,500.00
	33.3 Heavy Duty Bituminous	LF	200	16.00	3,200.00	20.00	4,000.00
	TOTAL ALTERNATE NO. 2 BID				**$291,051.00**		* **$286,200.75**

* DENOTES AN ARITHMETIC ERROR ON THE BID, AND THE AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE ON BID

KENVIRONS, INC.
452 VERSAILLES ROAD
FRANKFORT, KENTUCKY 40601
TEL (502) 695-4357
FAX (502) 695-4363

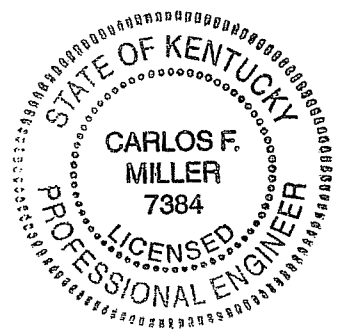
BID TABULATIONS

PROJECT: Contract 2: 100,000 Gallon Storage Tank
LOCATION: Whitley County Water District
BID DATE: June 19, 2006 at 1:00 p.m. Local Time

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	Kentucky Glass Lined Tank Systems, Inc. P.O. Box 13370 Lexington, KY 40583 UNIT COST	Kentucky Glass Lined Tank Systems, Inc. P.O. Box 13370 Lexington, KY 40583 COST	Welding Incorporated P.O. Box 6007 Charleston, WV 25362 UNIT COST	Welding Incorporated P.O. Box 6007 Charleston, WV 25362 COST	Laurel Construction Co., Inc. 5209 Somerset Road London, KY 40741 UNIT COST	Laurel Construction Co., Inc. 5209 Somerset Road London, KY 40741 COST
1	Alsile Road Storage Tank								
	100,000 Gallon Water Storage Tank (select one)								
	1.1 Welded Steel						$70,000.00		$134,000.00
	1.2 Glass Coated, Bolted Steel				$76,153.00				
2	Concrete Foundation				30,333.00		29,000.00		20,000.00
3	Painting						17,800.00		12,000.00
4	Earthwork and Restoration				9,800.00		10,000.00		4,000.00
5	Valve Vault, Yard Piping, Fittings & Valves				26,588.00		30,000.00		25,000.00
6	Access Road				12,353.00		15,000.00		15,000.00
7	Fence	LF	400	20.94	8,376.00	35.00	14,000.00	28.00	11,200.00
8	Duckbill Check Valves	EA	5	777.60	3,888.00	1,500.00	7,500.00	1,500.00	7,500.00
TOTAL PROJECT BID					**$167,491.00**		**$193,300.00**		**$228,700.00**

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 1:00 P.M., LOCAL TIME, MONDAY, JUNE 19, 2006 AT WHITLEY COUNTY WATER DISTRICT

BY: _____ 6/20/06
Carlos F. Miller, P.E. DATE

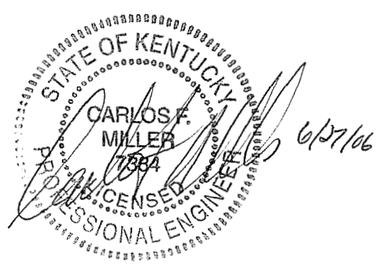


PRELIMINARY ENGINEERING REPORT
for
WHITLEY COUNTY WATER DISTRICT

KY 92 WEST WATER SYSTEM EXTENSIONS

PROJECT NO. 2002142

AUGUST, 2002



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INTRODUCTION

Whitley County Highway Water District (WCWD) was organized in 1961 to provide a dependable water supply to the southern rural area of Whitley County. WCWD presently provides potable water to over 2,000 rural customers. The project proposed herein consists of 19 miles of water lines extending water service to 148 new households. Maps showing the proposed extensions and project elements are contained in Appendix 1 of the report.

GEOGRAPHIC LOCATION

Whitley County is located in the southeastern part of Kentucky on the Kentucky/Tennessee border. The county seat is the City of Williamsburg which is located near the geographic center of the county. Figure 1 shows the county location.

PROJECT NEED

WCWD proposes to construct 19 miles of water lines to serve 148 potential customers (8 customers per mile) in the extreme southwestern part of the county. The area has a long history of poor groundwater quality that has resulted in numerous problems for area residents. Based on experience and knowledge of the area, the registered sanitarian at the Whitley County Health Department has expressed concern for residents' health and safety and fully supports any attempt to eliminate reliance on the current water supply.

Due to levels and types of contaminants found in the area's groundwater, most residents are forced to purchase or rent expensive filtering systems that in most cases simply are not reliable enough to adequately filter out some of the more harmful contaminants found in the area's wells. Properly maintaining filtering systems can be cost prohibitive for many lower income families who cannot afford the cost. This project will abate an existing potential health hazard.

ALTERNATIVE SOURCES

There is only one viable alternative for providing water service to this rural area of Whitley considered herein, namely the Whitley County Water District.

EXISTING FACILITIES

The existing facilities consist of:

1. 179 miles of pipeline in one (1) through eight (8) sizes.

2. BOOSTER PUMPS

Corn Creek	7 HP, 2 pumps
Woodbine	10 HP, 2 pumps
Study	10 HP, 2 pumps
Hanging Rock	2 HP, 1 pump
Jellico	30 HP, 2 pumps

3. STORAGE TANKS

(3) Standpipes – 100,000 Gallons each

The district's total water sales during 2001, were 107,883,000 gallons (295,570 GPD). The average number of customers was 1,953 with average monthly and daily demands of 4,600 gallons and 151 gallons, respectively. The August, 2002 customer count was 2,301. The projected daily demand for existing customers is 351,250 GPD (295,570 + 348 customers x 160).

SOURCE	PRESENT RATE	MONTHLY CONTRACT LIMIT	YEARS REMAINING ON CONTRACT
Corbin	$2.20/1,000 gals. + $50 Service Charge	3 Million	35
Williamsburg	$2.20/1,000 gals.	5.5 Million	40
Jellico Electric and Water Systems	$2.20/1,000 gals.	2.7 Million	1

PROPOSED FACILITIES

The proposed project consists of 19 miles of pipelines in 6-inch, 4-inch and 3-inch sizes. The lines are located along KY 192 and adjacent areas in the extreme western portion of the county bordering McCreary County and Tennessee, and serve an additional 148 potential customers (8 customers per mile). The estimate of probable cost is $1,675,000. It is anticipated to purchase treated water from McCreary County Water District. A pump and tank are included in the project. The proposed extensions are shown on USGS topographic maps contained in Appendix 1.

The estimated usage for the initial 104 customers in the proposed project is 20,800 GPD (104 x 200 GPD). Assuming a 15% line loss, the total daily demand is estimated to be 25,000 GPD. A water purchase contract with McCreary County should contain a maximum purchase quantity of approximately 100,000 GPD.

Exhibits 1 through 4 contain construction and project costs data.

WATER SYSTEM OPERATION

Preliminary hydraulic calculations have been made to size the lines and to determine the need for booster pumping and the location and overflow elevations of water storage tanks.

The system was designed and sized to meet the anticipated peak demand conditions and to allow for normal growth. The maps in the back of this report show all water lines recommended as a part of this construction project. The system has been designed so that water pressures at the meters of individual customers will not be less than 30 psi at peak flow conditions. Where static pressures exceed 100 psi, individual pressure regulators will be required to protect fixtures from high pressure.

Storage tanks are used in the water system to stabilize the pressure throughout the system, to provide sufficient water to take care of instantaneous peak requirements, to provide water in the event of temporary failure of the source and to provide water during peak days if the water demand exceeds the capacity of the source. The tanks must be of sufficient elevation to maintain a minimum of 30 psi pressure in the zone they serve. The minimum storage volume is required to be at least a one day usage under average conditions.

The existing tanks are filled by pumping stations equipped with duplicate pumps which run alternately.

Pumps are designed to maintain an operating level in the tanks about 10 to 12 feet lower than the overflow level of the tanks. This requires pumping to begin when the water level in the tanks drop to the operating level; pumping stops when the tanks are refilled to the overflow level. This procedure provides adequate pressure stabilization of the system. The pumps are controlled by telemetering with electric check valves to damper pressure surges during pump cut-on and cut-off.

LAND, WATER AND OTHER RIGHTS AND PERMITS

Land

It will be necessary to acquire land for one tank and pump station to service the KY 92 west area.

Water

The district purchases water from Corbin, Williamsburg and Jellico, Tennessee.

A tie-in to the McCreary County Water District is being investigated for the supply to this proposed project serving the KY 92 west area.

Other Rights and Permits

The majority of all transmission mains will be laid on private property. This will require both a permanent easement and a temporary construction easement; both are usually combined on one easement form. A description of the easements necessary will be prepared by the engineer. From these descriptions, the attorney will prepare the easement and right-of-way documents. CFHWD will then be responsible for obtaining the signatures of property owners, conveying these easements. If for any unforeseen reason private easements cannot be obtained, water mains may be constructed on

highway rights-of-way. A permit for this type of construction must be obtained from the affected highway department (either state or county). This permit can be incorporated into the permit necessary for line crossings of highways. The engineer will provide the necessary information and apply for these permits.

Several other permits and approvals will be necessary before completion of the project. ~~Among these are: Kentucky Division of Water; a permit for stream crossing from the~~ Kentucky Department for Natural Resources and Environmental Protection; and Kentucky Public Service Commission. The District's attorney, engineer and the Rural Development county supervisor will advise and assist in procuring the necessary and proper permits and approvals.

There are no railroad crossings required.

RECOMMENDATIONS

Application should be made to Rural Development and ARC for loan and grant funds to construct the water system improvements proposed herein.

EXHIBIT 1

OPINION OF PROBABLE CONSTRUCTION COST

ITEM	UNIT	QUANTITY	UNIT COST	COST
1. 6" DI, Ball & Socket Pipe	LF	300	$100.00	$30,000
2. 6" DI, CL350	LF	4,000	13.00	52,000
3. 6" PVC, SDR 17	LF	13,000	7.60	98,800
4. 6" PVC, SDR 21	LF	13,700	6.60	90,420
5. 4" DI, CL350	LF	3,000	10.00	30,000
6. 4" PVC Pipe, SDR 17	LF	52,600	5.00	263,000
7. 4" PVC Pipe, SDR 21	LF	10,200	450.00	45,900
8. 3" PVC Pipe, SDR 17	LF	4,200	4.10	17,220
9. 6" Gate Valve	EA	20	400.00	8,000
10. 4" Gate Valve	EA	40	350.00	14,000
11. 3" Gate Valve	EA	4	300.00	1,200
12. Blow-Off	EA	10	500.00	5,000
13. Air Release Valve	EA	5	300.00	1,500
14. 6" Creek Crossing	LF	100	40.00	4,000
15. 3" & 4" Creek Crossing	LF	600	35.00	21,000
16. Creek Crossing Test Meter	EA	2	600.00	1,200
17. 5/8" x 3/4" Meter Installation	EA	147	500.00	73,500
18. 3/4" Service Tubing	LF	8,800	3.00	26,400
19. Pavement Restoration				
19.1 Crushed Stone	LF	10,000	5.00	50,000
19.2 Bituminous	LF	1,000	10.00	10,000
20. Bore & Case for 6" Pipe	LF	300	65.00	19,500
21. Bore & Case for 3" & 4" Pipe	LF	400	50.00	20,000
22. Open Cut & Case for 3" & 4" Pipe	LF	1,000	25.00	25,000
23. Pressure Reducing Station	EA	2	8,000	16,000
24. Master Meter	EA	1	10,000	10,000
25. Storage Tank	EA	1	190,000	190,000
26. Booster Pump Station	EA	1	80,000	80,000
27. Pipeline Cleanup	LF	100,700	0.80	80,560
			TOTAL	**$1,284,200**

EXHIBIT 2

OPINION OF PROBABLE PROJECT COST

1. Construction		$1,285,000
2. Engineering		
2.1 Design (7.83%)	100,500	
2.2 Construction Observation (4.32%)	55,500	
2.3 Preliminary Engineering Report	7,000	
2.4 Geotechnical Investigation	7,000	
2.5 Environmental	10,000	
TOTAL ENGINEERING		**180,000**
3. Legal		
3.1 Local Counsel	7,500	
3.2 Bond Counsel	10,500	
TOTAL LEGAL		**18,000**
4. Land and Rights		10,000
5. Capitalized Interest		50,000
6. Administration		2,000
7. Contingencies		130,000
TOTAL PROJECT COST		**$1,675,000**

EXHIBIT 3

TEST YEAR ADJUSTMENTS

1. Expenses

1.1 Added Customers on Existing System

1.11 Purchased Water Cost

Customer Count (August 2003)	2,400
Customer Count (Avg. for 2002)	2,136
Added Customers	264

Purchased Water = 264 cust. x 4.0Mgal x 12 ÷ .85 = 14,908Mgals.

Cost = 14,908 x $2.20 =	$32,798
1.12 Power for Pumping = 14,908 x 0.10 =	1,491
1.13 Customer Accounts	
264 Cust. x $35 / yr. =	$9,240
1.14 Admin. & General	5,280
264 x $20 =	**$48,809**

1.2 Inflation

Assume 3% per year for 3 years

$755,248 x $(1.03)^3$ – 755,248 = **$70,031**

1.3 Taxes

2002 Annual Report Taxes = $20,230

Adjustment = 20,230 x $(1.03)^3$ – 20,230 = **$1,876**

1.4 Established Retirement System for Employees. Adjustment for Salary increases to 2006. $146,221 x 0.0734 x $(1.03)^3$ = **$11,727**

1.5 Employee Retirement Buy-Back(1) **$10,000**

2. Revenues

2.1 Water Sales = 264 cust. x 30.13 x 12 = **$95,452**

(1) In addition to establishing the state retirement system for the district employees, the district is funding the contributions that would have been made during past years employment for each existing employee. The required amount of $100,000 is amortized over a 7-year period to avoid a distortion of the rates. The annual amount is $14,286.

EXHIBIT 4

2003 EXTENSION PROJECT PRESENTLY UNDER CONSTRUCTION

---

1. Revenues

   500 cust. x $25.03 x 12 = **$ 150,180**

2. Expenses

   2.1 Purchased Water
   500 cust. x 3Mgal x 12 ÷85 = 21,176 Mgal.
   Cost = 21,176 x $2.20 = **$ 46,587**
   2.2 Pumping = 21,176 x $0.10 = **$ 2,118**
   2.3 Trans. & Dist. **$ 20,000**
   2.4 Customer Accounts: 500 x $35.00 **$ 17,500**
   2.5 Admin. & General: 500 x $30.00 **$ 15,000**

3. Debt Service

   $1,860,000@4.5%
   Interest = $83,700
   Principal = $20,500

EXHIBIT 5

REVENUES AND EXPENSES FOR PROPOSED PROJECT

1. Revenues

Customers = 141 x .70 = 100
Assume 3000 Gal. per. month
Annual Revenues = 100 x $25.03 x 12 = **$30,036**

2. Expenses

2.1 Purchased Water
3000 gal/mo. x 100 x 12 ÷ 0.85 = 4,235,000 Gals.
Cost = 4235 x $2.20 = **$9,317**

2.2 Power for Pumping
Cost = 4235 x 0.10 = **$423**

2.3 Transmission and Distribution
88 inch-miles x 100 = **$8,800**

2.4 Customer Accounts
100 cust. x $35 / customer = **$3,500**

2.5 Admin. & General
100 cust. x $30 = **$3,000**

3. Debt Service

295,000@4½% =
295,000 x .05551 = 16,375
Interest = 13,275
Principal = 3,000

EXHIBIT 6

PRO FORMA REVENUE REQUIREMENT FOR 2006

	EXISTING (2002)	INFLATION AND RETIREMENT (1)	TEST YEAR ADJUSTMENT TO 2006(EX. 3)	2003 PROJECT (EX. 4)	PROPOSED PROJECT (EX. 5)	PRO FORMA FOR 2006
1. MAINTENANCE EXPENSES						
Source of Supply	$441,840		$32,798	$46,587	$9,317	$530,542
Pumping	8,765		1,491	2,118	423	12,797
Water Treatment	---		---	---	---	---
Trans. & Dist.	157,555	32,015	---	20,000	8,800	218,370
Customer Accounts	79,898	32,015	9,240	17,500	3,500	142,153
Admin. & General	67,190	32,015	5,280	15,000	3,000	122,485
	$755,248	$96,045	$48,809	$101,205	$25,040	$1,026,347
2. TAXES	20,230		1,876			22,106
3. DEBT SERVICE						
Principal	21,500			20,500	3,000	45,000
Interest	74,565			83,700	13,275	171,540
	96,065			104,200	16,275	216,540
4. DEBT. SERVICE COVERAGE @ 10%	9,606			10,420	1,627	21,653
TOTAL EXCLUDING DEPRECIATION	**$881,149**	**$96,045**	**$50,685**	**$215,825**	**$42,942**	**$1,286,646**
5. DEPRECIATION	124,704			37,200	25,700	187,604

1. See Exhibit 3: Item 1.2 Inflation $70,031
   Item 1.3 Retirement $11,727
   Item 1.5 Retirement Buy-Back $14,286
   $96,044 ÷ 3 = $32,015
   $80,417 spread equally among the indicated operational functions.

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EXHIBIT 7

PROJECTED REVENUE FROM EXISTING RATES

	2002 ANNUAL REPORT	ADJUSTMENTS TO 2002 (EX.3)	2003 PROJECT (EX. 4)	PROPOSED PROJECT (EX. 5)	PRO FORMA TO 2006
Water Sales	$835,019	$95,452	$150,180	$30,036	$1,111,888

EXHIBIT 8

WHITLEY COUNTY WATER DISTRICT
BILLING ANALYSIS
(JAN. – DEC., 2002)

	Bills	Gallons 1,000	1st 1,000	Next 4,000	Next 95,000	Over 100,000
First 1,000 gals.	5,753	3,715	3,715			
Next 4,000 gals.	15,283	49,768	15,283	34,485		
Next 95,000 gals.	5,714	54,671	5,714	22,856	26,101	
Over 100,000 gals.	29	5,266	29	116	2,755	2,366
	26,779	113,420	24,741	57,457	28,856	2,366
	14.83			5.10	4.67	4.25
						$834,976

CONFIRMATION OF BILLING ANALYSIS

	Annual Report	Billing Analysis	% Difference
Customers	2,136	2,231	4.45
Sold Water	112,992	113,420	0.38
Revenue	835,019	834,976	0.01

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EXHIBIT 9

PROPOSED RATES

	Existing	**Proposed**
First 1000	14.83	18.15
Next 4000	5.01 / 1000 gals	6.13 / 1000 gals
Next 9,500	4.67/ 1000 gals	5.72 / 1000 gals
Over 100,000	4.25/ 1000 gals	5.20 / 1000 gals
Cost for 4000 Gals	$29.86	36.54

EXHIBIT 10

PROJECTED REVENUE FROM PROPOSED RATES

1. Existing Customers during 2002

	RATE	BILLS	GALLONS	ANNUAL REVENUE
First 1,000 gals.	$18.15 (Min.)	26,779	---	$486,039
Next 4,000 gals.	$6.13 / 1,000 gals.		57,457	352,211
Next 95,000 gals.	$5.72 / 1,000 gals.		28,856	165,056
Over 100,000 gals.	$5.20 / 1,000 gals.		2,366	12,303
				$1,015,609

2. Test Year Adjustment (Ex. 3)
   264 cust. x 12 x $36.54 — $115,758

3. 2003 Extension Project
   500 cust. x 12 x $30.41 — $182,460

4. Proposed Extension Project
   100 cust. x 12 x $30.41 — $36,492

TOTAL PROJECTED REVENUE $1,350,319

SUMMARY ADDENDUM

TO

PRELIMINARY ENGINEERING REPORT

DATED October, 2003

FOR

Whitley County Water District
KY 92 West Extension

(NAME OF PROJECT)

APPLICANT CONTACT PERSON Kathy Moyers

APPLICANT PHONE NUMBER (606) 549-3600

APPLICANT TAX IDENTIFICATION NUMBER (TIN) 61-0898691

ITEMS IN BOLD ITALIC PRINT ARE APPLICABLE TO SEWER SYSTEMS.

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with this Guide.

Please complete the applicable sections of the Summary Addendum. ***Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will benefit only one utility.***

Feasibility reviews and grant determinations may be processed more accurately and more rapidly if the Summary/Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

I. GENERAL

A. Proposed Project: Provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

The project consists of approximately 19 miles of pipelines in 6-inch, 4-inch and 3-inch sizes located along KY 192 and adjacent areas in the extreme western portion of Whitley County bordering McCreary County and Tennessee; the project serves 141 potential customers. One 50,000 gallon storage tank and pump station are included.

II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM

A. Sewage Treatment:

1. Type _____

2. Method of Sludge Disposal _____

3. Cost per 1,000 gallons is sewage treatment is contracted:

$ _____

4. Date Constructed _____

B. Treatment Capacity of Sewage Treatment Plant _____

C. Type of Sewage Collector System (Describe) _____

_____

_____

D. Number and Capacity of Sewage Lift Stations _____

_____

E. Sewage Collection System:

Lineal Feet of Collection Lines, by size 6" _____ *8"* _____

10" _____ *12"* _____ *, Larger* _____

Date(s) Constructed _____

F. Conditions of Existing System: Briefly describe the conditions and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

_____

_____

_____

III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

Treated water is purchased from Corbin, Williamsburg and Jellico, Tennessee. Water supply for the proposed extensions is McCreary Water District.

If the applicant purchases water:

Seller(s);

1. Corbin
2. Williamsburg
3. Jellico

Price/1,000 gallons:

1. 2.20/1,000 Gals. + $50 Service Charge
2. 2.20/1,000 Gals.
3. 2.20/1,000 Gals.

Present Estimated Market Value of Existing System: $ 1,008,197

B. Water Storage:

Type: Ground Storage Tank _____ Elevated Tank _____

Standpipe 3 Other _____

Number of Storage Structures 3

Total Storage Volume Capacity 300,000

Date Storage Tank(s) Constructed _____

C. Water Distribution System:

Pipe Material 179 miles of pipeline in 1-inch through 8-inch sizes

Lineal Feet of Pipe: 3" Diameter _____ 4" _____

6" _____ 8" _____

10" _____ 12" _____

Date(s) Water Lines Constructed _____

Number and Capacity of Pump Station(s) 1 - 7½hp; 2 – 10hp; 1 – 30hp

D. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

System is in relatively good condition. Small one through three inch lines will need to be replaced.

E. Percentage of Water Loss Existing System 22%

IV. EXISTING LONG-TERM INDEBTEDNESS

A. List of Bonds and Notes:

Date of Issue	Bond/Note Holder	Principal Balance	Payment Date	Bond Type Water/Sewer*		Amount on Deposit in Reserve Account
1994 Issue	RD	$ 698,000		%	%	
1998 Issue	RD	$ 561,000		%	%	
2001 Issue	RD	$ 377,000		%	%	
2003 Issue	RD	$1,860,000		%	%	(Present Project)
19__ Issue		$		%	%	

*If a combined issue, show attributable portion to each system.

B. Principal and Interest Payments: (Begin with Next Fiscal Year Payment)

		Payment Year 2004 ___		Payment Year 2005___		Payment Year 2006___	
Date of Issue	Bond/Note Holder	Principal Payment	Interest Payment	Principal Payment	Interest Payment	Principal Payment	Interest Payment
1994 Issue	RD	10,500	30,712	10,500	29,767	11,500	29,250
1998 Issue	RD	7,000	25,785	8,000	25,425	8,000	25,065
2001 Issue	RD	4,000	16,785	4,000	16,605	4,000	16,425
2003 Issue	RD		83,700		83,700	20,500	82,777
19__ Issue							
19__ Issue							
TOTALS		21,500	156,982	22,500	155,497	44,000	153,517

V. EXISTING SHORT-TERM INDEBTEDNESS

A. List of All Short Term Debts: (Do Not Show Any Debt Listed in Paragraph IV Above)

Lender or Lesser	Date of Issue (Month & Year)	Principal Balance	Purpose (Water and/ or Sewer)	Payment Date	Principal & Interest Payment (P&I)	Date to Be Paid In Full

VI. LAND AND RIGHTS - EXISTING SYSTEM(S)

Number of Treatment Plant Sites:	Water		***Sewer***	
Number of Storage Tank Sites:	Water	3	***Sewer***	
Number of Pump Stations:	Water	5	***Sewer***	
Total Acreage:	Water	Acres	***Sewer***	Acres
Purchase Price:	Water	$	***Sewer***	$

VII. NUMBER OF EXISTING USERS

	Water	***Sewer***
Residential (In Town)*		
Residential (Out of Town)*	2,301	
Non-Residential (In Town)		
Non-Residential (Out of Town)		
Total	2,301	
Number to Total Potential Users Living in the Service Area		

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residence.

VIII. CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

Meter Size	Water Connection Fee	***Sewer Connection Fee***
5/8" x 3/4"	$300	***$***
1-Inch	$750	***$***

IX. SEWER RATES - EXISTING SYSTEM

Percentage of Water Bill _____ ***%*** ***Minimum Charge*** ***$*** _____

Other: (If Charge Not Based on Water Bill) _____

_____

Date This Rate Went Into Effect _____

X. WATER RATES - EXISTING SYSTEM

Existing Rate Schedule:

First	1,000	Gallons @	$14.83	Minimum.
Next	4,000	Gallons @	$ 5.10	per 1,000 Gallons.
Next	95,000	Gallons @	$ 4.67	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
All Over	100,000	Gallons @	$ 4.25	per 1,000 Gallons.

Date This Rate Went Into Effect December, 2002

If More Than One Rate Schedule, Please Include All Schedules.

XI. ANALYSIS OF ACTUAL SEWER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Period _____ *to* _____.

All Meter Sizes	Monthly Sewer Usage			Average	Residential		Non-Residential	
					No. of Users	Usage (1000)	No. of Users	Usage (1000)
	0	- 2,000	Gal.	1,000				
	2,000	- 3,000	Gal.	2,500				
	3,000	- 4,000	Gal.	3,500				
	4,000	- 5,000	Gal.	4,500				
	5,000	- 6,000	Gal.	5,500				
	6,000	- 7,000	Gal.	6,500				
	7,000	- 8,000	Gal.	7,500				
	8,000	- 9,000	Gal.	8,500				
	9,000	- 10,000	Gal.	9,500				
	10,000	- 11,000	Gal.	10,500				
	11,000	- 12,000	Gal.	11,500				
	12,000	- 13,000	Gal.	12,500				
	13,000	- 14,000	Gal.	13,500				
	14,000	- 15,000	Gal.	14,500				
	15,000	- 16,000	Gal.	15,500				
	16,000	- 17,000	Gal.	16,500				
	17,000	- 18,000	Gal.	17,500				
	18,000	- 19,000	Gal.	18,500				
	19,000	- 20,000	Gal.	19,500				
	_____	- _____	Gal.					
	_____	- _____	Gal.					
	_____	- _____	Gal.					
	_____	- _____	Gal.					
				Total	( )	( )	( )	( )
				Average Usage		( )		( )

XII. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Period January to December, 2002.

All Meter Sizes	Monthly Sewer Usage		Average	Residential		Non-Residential	
				No. of Users	Usage (1000)	No. of Users	Usage (1000)
0	- 1,000			5,753	2,876		
1,000	- 2,000	Gal.	1,000	4,636	11,112		
2,000	- 3,000	Gal.	2,500	3,735	13,072		
3,000	- 4,000	Gal.	3,500	2,467	11,101		
4,000	- 5,000	Gal.	4,500	1,410	7,755	412	2,403
5,000	- 6,000	Gal.	5,500	740	4,810	412	2,815
6,000	- 7,000	Gal.	6,500	340	2,550	412	3,227
7,000	- 8,000	Gal.	7,500	564	4,794		
8,000	- 9,000	Gal.	8,500	357	3,392		
9,000	- 10,000	Gal.	9,500	235	2,467		
10,000	- 11,000	Gal.	10,500	154	1,771		
11,000	- 12,000	Gal.	11,500	110	1,375		
12,000	- 13,000	Gal.	12,500	80	1,080		
13,000	- 14,000	Gal.	13,500	82	1,189		
14,000	- 15,000	Gal.	14,500	39	605		
15,000	- 16,000	Gal.	15,500	46	759		
16,000	- 17,000	Gal.	16,500	28	490		
17,000	- 18,000	Gal.	17,500	29	536		
18,000	- 19,000	Gal.	18,500	23	449		
19,000	- 20,000	Gal.	19,500	193	16,292		
21,000	- 100,000	Gal.	84,500	29	5,266		
Over	- 100,000	Gal.	182,000				
	-	Gal.	52,500			48	2,518
		Total		(25,495)	(102,457)	(1,284)	(10,963)
		Average Usage			(4.0)		(8.5)

Total Water Purchased and/or Produced 178,821

Total Water Sold 112,992

XIII. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM

A. Sewage Treatment:

1. Type _____

2. Method of Sludge Disposal _____

_____

3. Cost per 1,000 gallons if sewage treatment is contracted:

$ _____

B. Treatment Capacity of Sewage Treatment Plant _____

C. Type of Sewage Collector System (Describe) _____

_____

_____

D. Number and Capacity of Sewage Lift Stations _____

_____

E. Sewage Collection System:

Lineal Feet of Collector Lines, by size 6" _____ *8"* _____

10" _____ *12"* _____ *, Larger* _____

XIV. LAND AND RIGHTS - PROPOSED SEWER SYSTEM

Number of Treatment Plant Sites	_____
Number of Pump Sites	_____
Number of Other Sites	_____
Total Acreage	*Acres* _____
Purchase Price	*$* _____

XV. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

McCreary County Water District will be the source of purchased water. MCWD has a new treatment plant on Lake Cumberland. A water purchase Contract will need to be executed. The combined capacity of the two plants is 2.5MGD. Current production is 1.3 MGD or 52%.

B. Water Storage:

Type: Ground Storage Tank	1	Elevated Tank	
Standpipe		Other	
Number of Storage Structures	1		
Total Storage Volume Capacity	60,000		

C. Water Distribution System:

Pipe Material	PVC and D.I.			
Lineal Feet of Pipe:	3" Diameter	4,200	4"	65,800
	6"	31,000	8"	
	10"		12"	
Number and Capacity of Pump Station(s)	1 – 60GPM			

XVI. LAND AND RIGHTS - PROPOSED WATER SYSTEM

Number of Treatment Plant Sites	
Number of Pump Sites	1
Number of Other Sites	1
Total Acreage	1.0 Acres
Purchase Price	$5,000 Est.

XVII. NUMBER OF NEW SEWER USERS

Residential (In Town)*	_____
Residential (Out of Town)*	_____
Non-Residential (In Town)	_____
Non-Residential (Out of Town)	_____
Total	_____
Number to Total Potential Users Living in the Service Area	_____

***Note:** ***Residential Users**: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.*

XVIII. PROPOSED SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

Meter Size	Connection Fee
5/8" x 3/4"	$
1-Inch	$
1-1/2 Inch	$
2-Inch	$
3-Inch	$
4-Inch	$
5-Inch	$
6-Inch	$

XIX. NUMBER OF NEW WATER USERS

Residential (In Town)*	
Residential (Out of Town)*	100
Non-Residential (In Town)	
Non-Residential (Out of Town)	
Total	
Number to Total Potential Users Living in the Service Area	141

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

XX. PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

Meter Size	Connection Fee
5/8" x 3/4"	$300
1-Inch	$750
1-1/2 Inch	$
2-Inch	$
3-Inch	$
4-Inch	$
5-Inch	$
6-Inch	$

XXI. SEWER RATES - PROPOSED

A. Proposed Rate Schedule without RUS Grant:

Percentage of Water Bill _____ *%* *Minimum Charge* *$* _____
Other: (If Charge Not Based on Water Bill) _____

_____

Proposed Rate Schedule: (Without RUS Grant)

First	_____	*Gallons @*	*$* _____	*Minimum.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
All Over	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:

Percentage of Water Bill _____ *%* *Minimum Charge* *$* _____
Other: (If Charge Not Based on Water Bill) _____

_____

Proposed Rate Schedule: (With RUS Grant)

First	_____	*Gallons @*	*$* _____	*Minimum.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
Next	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*
All Over	_____	*Gallons @*	*$* _____	*per 1,000 Gallons.*

If more than one rate, use additional sheets.

XXII. WATER RATES - PROPOSED

A. Proposed Rate Schedule Without RUS Grant:

First	1,000	Gallons @	$19.21	Minimum.
Next	4,000	Gallons @	$ 6.49	per 1,000 Gallons.
Next	95,000	Gallons @	$ 6.06	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
All Over	100,00	Gallons @	$ 5.50	per 1,000 Gallons.

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:

First	1,000	Gallons @	$18.93	Minimum.
Next	4,000	Gallons @	$ 6.39	per 1,000 Gallons.
Next	95,000	Gallons @	$ 5.97	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
Next		Gallons @	$	per 1,000 Gallons.
All Over	100,000	Gallons @	$ 5.42	per 1,000 Gallons.

If more than one rate, use additional sheets.

XXIII. FORECAST OF SEWER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS

Meter Size*	Monthly Sewer Usage			Average	Average Rate	Residential			Non-Residential		
						No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0 - 2,000	Gal.		1,000							
	2,000 - 3,000	Gal.		2,500							
	3,000 - 4,000	Gal.		3,500							
	4,000 - 5,000	Gal.		4,500							
	5,000 - 6,000	Gal.		5,500							
	6,000 - 7,000	Gal.		6,500							
5/8 x 3/4	7,000 - 8,000	Gal.		7,500							
Inch	8,000 - 9,000	Gal.		8,500							
	9,000 - 10,000	Gal.		9,500							
	10,000 - 11,000	Gal.		10,500							
	11,000 - 12,000	Gal.		11,500							
	12,000 - 13,000	Gal.		12,500							
	13,000 - 14,000	Gal.		13,500							
	14,000 - 15,000	Gal.		14,500							
	15,000 - 16,000	Gal.		15,500							
	16,000 - 17,000	Gal.		16,500							
	17,000 - 18,000	Gal.		17,500							
	18,000 - 19,000	Gal.		18,500							
	19,000 - 20,000	Gal.		19,500							
	_____ - _____	Gal.		_____							
	_____ - _____	Gal.		_____							
	_____ - _____	Gal.		_____							
				Subtotal		( )	( )	( )	( )	( )	( )
				Average Monthly Rate	( )						
				Average Monthly Usage		( )			( )		

* ***Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

1-Inch			*Gal.*									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
1-1/2 Inch			*Gal.*									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
2-Inch			*Gal.*									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
3-Inch			*Gal.*									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
4-Inch			*Gal.*									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	

* ***Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

			Gal.									
			Gal.									
5-Inch			Gal.									
			Gal.									
			Gal.									
				Subtotal		( )	( )	( )	( )	( )	( )	
			Gal.									
			Gal.									
6-Inch			Gal.									
			Gal.									
			Gal.									
				Subtotal		( )	( )	( )	( )	( )	( )	
				TOTALS		( )	( )	( )				

MULTI-FAMILY AND APARTMENT USER ANALYSIS

If billed as a typical user, the information should be included in the residential information above. If not billed as a typical residential user, please explain below.

Name of Unit	*Number of Units*	*Number of Meters*	*Revenue Calculations*

* ***Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

XXIV. FORECAST OF SEWER USAGE - INCOME - NEW USERS - EXTENSION ONLY

*Meter Size**	*Monthly Sewer Usage*			*Average*	*Average Rate*	*Residential*			*Non-Residential*		
						*No. of Users***	*Usage (1000)*	*Income*	*No. of Users*	*Usage (1000)*	*Income*
	0	- *2,000*	*Gal.*	*1,000*							
	2,000	- *3,000*	*Gal.*	*2,500*							
	3,000	- *4,000*	*Gal.*	*3,500*							
	4,000	- *5,000*	*Gal.*	*4,500*							
	5,000	- *6,000*	*Gal.*	*5,500*							
	6,000	- *7,000*	*Gal.*	*6,500*							
5/8 x 3/4	*7,000*	- *8,000*	*Gal.*	*7,500*							
Inch	*8,000*	- *9,000*	*Gal.*	*8,500*							
	9,000	- *10,000*	*Gal.*	*9,500*							
	10,000	- *11,000*	*Gal.*	*10,500*							
	11,000	- *12,000*	*Gal.*	*11,500*							
	12,000	- *13,000*	*Gal.*	*12,500*							
	13,000	- *14,000*	*Gal.*	*13,500*							
	14,000	- *15,000*	*Gal.*	*14,500*							
	15,000	- *16,000*	*Gal.*	*15,500*							
	16,000	- *17,000*	*Gal.*	*16,500*							
	17,000	- *18,000*	*Gal.*	*17,500*							
	18,000	- *19,000*	*Gal.*	*18,500*							
	19,000	- *20,000*	*Gal.*	*19,500*							
	_____	- _____	*Gal.*	_____							
	_____	- _____	*Gal.*	_____							
	_____	- _____	*Gal.*	_____							
				Subtotal		( )	( )	( )	( )	( )	( )
				Average Monthly Rate		( )					
				Average Monthly Usage			( )			( )	

* ***Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

1-Inch			*Gal.*								
			Gal.								
			Gal.								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			Gal.								
			Gal.								
1-1/2 Inch			*Gal.*								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			Gal.								
			Gal.								
2-Inch			*Gal.*								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			Gal.								
			Gal.								
3-Inch			*Gal.*								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			Gal.								
			Gal.								
4-Inch			*Gal.*								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )

* ***Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

			Gal.								
			Gal.								
5-Inch			Gal.								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			Gal.								
			Gal.								
6-Inch			Gal.								
			Gal.								
			Gal.								
			Subtotal			( )	( )	( )	( )	( )	( )
			TOTALS			( )	( )	( )			

MULTI-FAMILY AND APARTMENT USER ANALYSIS

If billed as a typical user, the information should be included in the residential information above. If not billed as a typical residential user, please explain below.

Name of Unit	*Number of Units*	*Number of Meters*	*Revenue Calculations*

* ***Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.***

** ***Number of users should reflect the actual number of "meter settings".***

XV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS

Meter Size*	Monthly Sewer Usage		Average	Average Rate	Residential			Non-Residential		
					No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0 - 1,000 Gal.			18.93	479	240	9,067			
	1,000 - 2,000 Gal.									
	2,000 - 3,000 Gal.									
	3,000 - 4,000 Gal.		2,800	30.43	1,274	3,520	38,768			
	4,000 - 5,000 Gal.									
	5,000 - 6,000 Gal.		5,900	49.86				34	200	1,695
	6,000 - 7,000 Gal.		6,900	55.83				34	235	1,898
5/8 x 3/4	7,000 - 8,000 Gal.		7,700	60.61				35	269	2,121
Inch	8,000 - 9,000 Gal.		6,800	55.24	284	1,942	15,688			
	9,000 - 10,000 Gal.									
	10,000 - 11,000 Gal.									
	11,000 - 12,000 Gal.									
	12,000 - 13,000 Gal.									
	13,000 - 14,000 Gal.									
	14,000 - 15,000 Gal.		12,900	91.65	69	893	6,323			
	15,000 - 16,000 Gal.									
	16,000 - 17,000 Gal.									
	17,000 - 18,000 Gal.									
	18,000 - 19,000 Gal.									
	19,000 - 20,000 Gal.									
	20,000 - 100,000 Gal.		84,900	521.49	16	1,358	8,343			
	Over - 100,000 Gal.		146,300	862.59	3	439	2,588			
	-	Gal.	52,500	328.06				4	210	1,312
			Subtotal		(2,125)	(8,392)	(80,777)	(107)	(914)	(7,026)
		Average Monthly Rate	(36.71)							
		Average Monthly Usage			(4.0)			(8.5)		

* Breakdown of meter size usage is not required unless different water rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

1-Inch			Gal.					( )	( )	( )
			Gal.							
			Gal.							
			Gal.							
			Gal.							
			Subtotal					( )	( )	( )
1-1/2 Inch			Gal.					( )	( )	( )
			Gal.							
			Gal.							
			Gal.							
			Gal.							
			Subtotal					( )	( )	( )
2- Inch			Gal.					( )	( )	( )
			Gal.							
			Gal.							
			Gal.							
			Gal.							
			Subtotal					( )	( )	( )
3- Inch			Gal.					( )	( )	( )
			Gal.							
			Gal.							
			Gal.							
			Gal.							
			Subtotal					( )	( )	( )
4-Inch			Gal.					( )	( )	( )
			Gal.							
			Gal.							
			Gal.							
			Gal.							
			Subtotal					( )	( )	( )

* Breakdown of meter size usage is <u>not</u> required unless different water rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

			Gal.	3,000	31.71	315	945	9.989			
			Gal.								
			Gal.								
2003 Project											
			Gal.								
			Gal.								
			Subtotal			(315)	(945)	(9.989)	( )	( )	( )
Test Year Adjustment			Gal.	4,000	38.10	264	1,056	10.058			
			Gal.								
			Gal.								
			Gal.								
			Gal.								
			Subtotal			(264)	(1,056)	(10,058)	( )	( )	( )
			TOTALS			(2,704)	(10,948)	(100,824)	(107)	(914)	(7,026)

MULTI-FAMILY AND APARTMENT USER ANALYSIS

If billed as a typical user, the information should be included in the residential information above. If not billed as a typical residential user, please explain below.

Name of Unit	Number of Units	Number of Meters	Revenue Calculations

* Breakdown of meter size usage is not required unless different water rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XXVI. FORECAST OF WATER USAGE - INCOME - NEW USERS - EXTENSION ONLY

Meter Size*	Monthly Sewer Usage			Average	Average Rate	Residential			Non-Residential		
						No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0 - 2,000	Gal.		1,000							
	2,000 - 3,000	Gal.		2,500							
	3,000 - 4,000	Gal.		3,500	31.71	45	135	1,426			
	4,000 - 5,000	Gal.		4,500							
	5,000 - 6,000	Gal.		5,500							
	6,000 - 7,000	Gal.		6,500							
5/8 x 3/4	7,000 - 8,000	Gal.		7,500							
Inch	8,000 - 9,000	Gal.		8,500							
	9,000 - 10,000	Gal.		9,500							
	10,000 - 11,000	Gal.		10,500							
	11,000 - 12,000	Gal.		11,500							
	12,000 - 13,000	Gal.		12,500							
	13,000 - 14,000	Gal.		13,500							
	14,000 - 15,000	Gal.		14,500							
	15,000 - 16,000	Gal.		15,500							
	16,000 - 17,000	Gal.		16,500							
	17,000 - 18,000	Gal.		17,500							
	18,000 - 19,000	Gal.		18,500							
	19,000 - 20,000	Gal.		19,500							
	-	Gal.									
	-	Gal.									
	-	Gal.									
				Subtotal		(45)	(135)	(1,426)	( )	( )	( )
	Average Monthly Rate	(31.71)									
	Average Monthly Usage					(3.0)			( )		

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

1-Inch			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
1-1/2 Inch			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
2- Inch			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
3- Inch			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	
4-Inch			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )	( )	( )	( )	

* Breakdown of meter size usage is <u>not</u> required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

			Gal.									
			Gal.									
5- Inch			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )		( )	( )	( )
			Gal.									
			Gal.									
6- Inch			Gal.									
			Gal.									
			Gal.									
			Subtotal			( )	( )	( )		( )	( )	( )
			TOTALS			(100)	(300)	(3,348)				

MULTI-FAMILY AND APARTMENT USER ANALYSIS

If billed as a typical user, the information should be included in the residential information above. If not billed as a typical residential user, please explain below.

Name of Unit	Number of Units	Number of Meters	Revenue Calculations

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XXVII. ***CURRENT OPERATING BUDGET (SEWER SYSTEM)***
(As of the last full operating year.)

A. Operating Income:

Sewer Revenue	*$* _____
Late Charge Fees	_____
Other (Describe)	_____
Less Allowances and Deductions	*(* _____ *)*
Total Operating Income	*$* _____

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Operation Expense	*$* _____
Maintenance Expense	_____
Customer Accounts Expense	_____
Administrative and General Expense	_____
Total Operating and Maintenance Expenses	*$* _____
Net Operating Income	*$* _____

C. Non-Operating Income:

Interest on Deposits	*$* _____
Other (Identify)	_____
Total Non-Operating Income	*$* _____

D. Net Income *$* _____

E. Debt Repayment:

RUS Interest	*$* _____
RUS Principal	_____
Non-RUS Interest	_____
Non-RUS Principal	_____
Total Debt Repayment	*$* _____

F. Balance Available for Coverage *$* _____

XXVIII. ***PROPOSED OPERATING BUDGET (SEWER SYSTEM) - EXISTING SYSTEM AND NEW USERS*** *(1st Full Year of Operation)* *Year Ending* _____

A. Operating Income:

Sewer Revenue	*$* _____
Late Charge Fees	_____
Other (Describe)	_____
Less Allowances and Deductions	*(* _____ *)*
Total Operating Income	*$* _____

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Operation Expense	*$* _____
Maintenance Expense	_____
Customer Accounts Expense	_____
Administrative and General Expense	_____
Total Operating and Maintenance Expenses	*$* _____
Net Operating Income	*$* _____

C. Non-Operating Income:

Interest on Deposits	*$* _____
Other (Identify)	_____
Total Non-Operating Income	*$* _____

D. Net Income *$* _____

E. Debt Repayment:

RUS Interest	*$* _____
RUS Principal	_____
Non-RUS Interest	_____
Non-RUS Principal	_____
Total Debt Repayment	*$* _____

F. Balance Available for Coverage *$* _____

XXIX. ***PROPOSED OPERATING BUDGET (SEWER SYSTEM) - NEW USERS - EXTENSION ONLY*** *(1st Full Year of Operation)* *Year Ending* _____

A. Operating Income:

Sewer Revenue	*$* _____
Late Charge Fees	_____
Other (Describe)	_____
Less Allowances and Deductions	*(* _____ *)*
Total Operating Income	*$* _____

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Operation Expense	*$* _____
Maintenance Expense	_____
Customer Accounts Expense	_____
Administrative and General Expense	_____
Total Operating and Maintenance Expenses	*$* _____
Net Operating Income	*$* _____

C. Non-Operating Income:

Interest on Deposits	*$* _____
Other (Identify)	_____
Total Non-Operating Income	*$* _____

D. Net Income *$* _____

E. Debt Repayment:

RUS Interest	*$* _____
RUS Principal	_____
Non-RUS Interest	_____
Non-RUS Principal	_____
Total Debt Repayment	*$* _____

F. Balance Available for Coverage *$* _____

XXX. CURRENT OPERATING BUDGET (WATER SYSTEM)
(As of the last full operating year.)

A. Operating Income:

Water Sales	$835,019
Disconnect/Reconnect/Late Charge Fees	
Other (Describe)	
Less Allowances and Deductions	( )
Total Operating Income	$935,019

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Source of Supply Expense	$441,840
Pumping Expense	8,765
Water Treatment Expense	
Transmission and Distribution Expense	157,555
Customer Accounts Expense	79,898
Administrative and General Expense	67,190
Total Operating Expenses	$755,248
Taxes	20,230
Net Operating Income	$ 59,541

C. Non-Operating Income:

Interest on Deposits	$ 1,710
Other (Identify)	26,933
Total Non-Operating Income	$ 28,643

D. Net Income $ 88,184

E. Debt Repayment:

RUS Interest	$ 74,565
RUS Principal	21,500
Non-RUS Interest	
Non-RUS Principal	
Total Debt Repayment	$ 96,065

F. Balance Available for Coverage $ (7,881)

XXXI. PROPOSED OPERATING BUDGET (WATER SYSTEM) EXISTING SYSTEM AND NEW USERS
(1st Full Year of Operation) Year Ending 2006

A. Operating Income:

Water Sales	$1,311,312
Disconnect/Reconnect/Late Charge Fees	12,000
Other (Describe)	
Less Allowances and Deductions	( )
Total Operating Income	$1,323,312

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Source of Supply Expense	$ 510,617
Pumping Expense	11,781
Water Treatment Expense	
Transmission and Distribution Expense	218,370
Customer Accounts Expense	133,753
Administrative and General Expense	115,285
Taxes	22,106
Capital Improvements	73,000
Total Operating Expenses	$1,084,912
Net Operating Income	$ 238,400

C. Non-Operating Income:

Interest on Deposits	$
Other (Identify)	
Total Non-Operating Income	$

D. Net Income $ 238,400

E. Debt Repayment:

RUS Interest	$ 171,540
RUS Principal	45,000
Non-RUS Interest	
Non-RUS Principal	
Total Debt Repayment	$ 216,540

F. Balance Available for Coverage $ 21,860

XXXII. PROPOSED OPERATING BUDGET (WATER SYSTEM) NEW USERS EXTENSION ONLY
(1st Full Year of Operation) Year Ending 2006

A. Operating Income:

Water Sales	$40,176
Disconnect/Reconnect/Late Charge Fees	
Other (Describe)	
Less Allowances and Deductions	( )
Total Operating Income	$40,176

B. Operation and Maintenance Expenses:
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)

Source of Supply Expense	$ 9,317
Pumping Expense	423
Water Treatment Expense	---
Transmission and Distribution Expense	8,800
Customer Accounts Expense	3,500
Administrative and General Expense	3,000
Total Operating Expenses	$25,040
Net Operating Income	$ 15,136

C. Non-Operating Income:

Interest on Deposits	$
Other (Identify)	
Total Non-Operating Income	$

D. Net Income $ 15,136

E. Debt Repayment:

RUS Interest	$13,275
RUS Principal	3,000
Non-RUS Interest	
Non-RUS Principal	
Total Debt Repayment	$16,275

F. Balance Available for Coverage $ (1,139)

XXXIII. ESTIMATED PROJECT COST - SEWER
(Round to nearest $100)

	COLLECTION	*TREATMENT*	*TOTAL*
Development	_____	_____	_____
Land & Rights	_____	_____	_____
Legal	_____	_____	_____
Engineering	_____	_____	_____
Interest	_____	_____	_____
Contingencies	_____	_____	_____
Initial Operating and Maintenance	_____	_____	_____
Other	_____	_____	_____
TOTAL	_____	_____	_____

XXXIV. ESTIMATED PROJECT FUNDING - SEWER

	COLLECTION	*TREATMENT*	*TOTAL*
Applicant - User Contribution Fees	_____	_____	_____
Other - Applicant Contribution	_____	_____	_____
RUS Loan	_____	_____	_____
RUS Grant	_____	_____	_____
ARC Grant (If applicable)	_____	_____	_____
CDBG (If applicable)	_____	_____	_____
Other (Specify)	_____	_____	_____
Other (Specify)			

XXXV. ESTIMATED PROJECT COST - WATER

Development	$1,285,000
Land and Rights	10,000
Legal	18,000
Engineering	180,000
Interest	50,000
Contingencies	130,000
Initial Operating and Maintenance	
Other (Administration)	2,000
TOTAL	$1,675,000

XXXVI. PROPOSED PROJECT FUNDING

Applicant - User Connection Fees (100 x $300)	$ 30,000
Other Applicant Contribution	
RUS Financial Assistance	295,000
RUS Grant	350,000
ARC Grant (If applicable)	400,000
CDBG Grant (If applicable)	
Other (Specify) State Grant	600,000
Other (Specify)	
TOTAL	$1,675,000

MAPS FOR PROPOSED PROJECT

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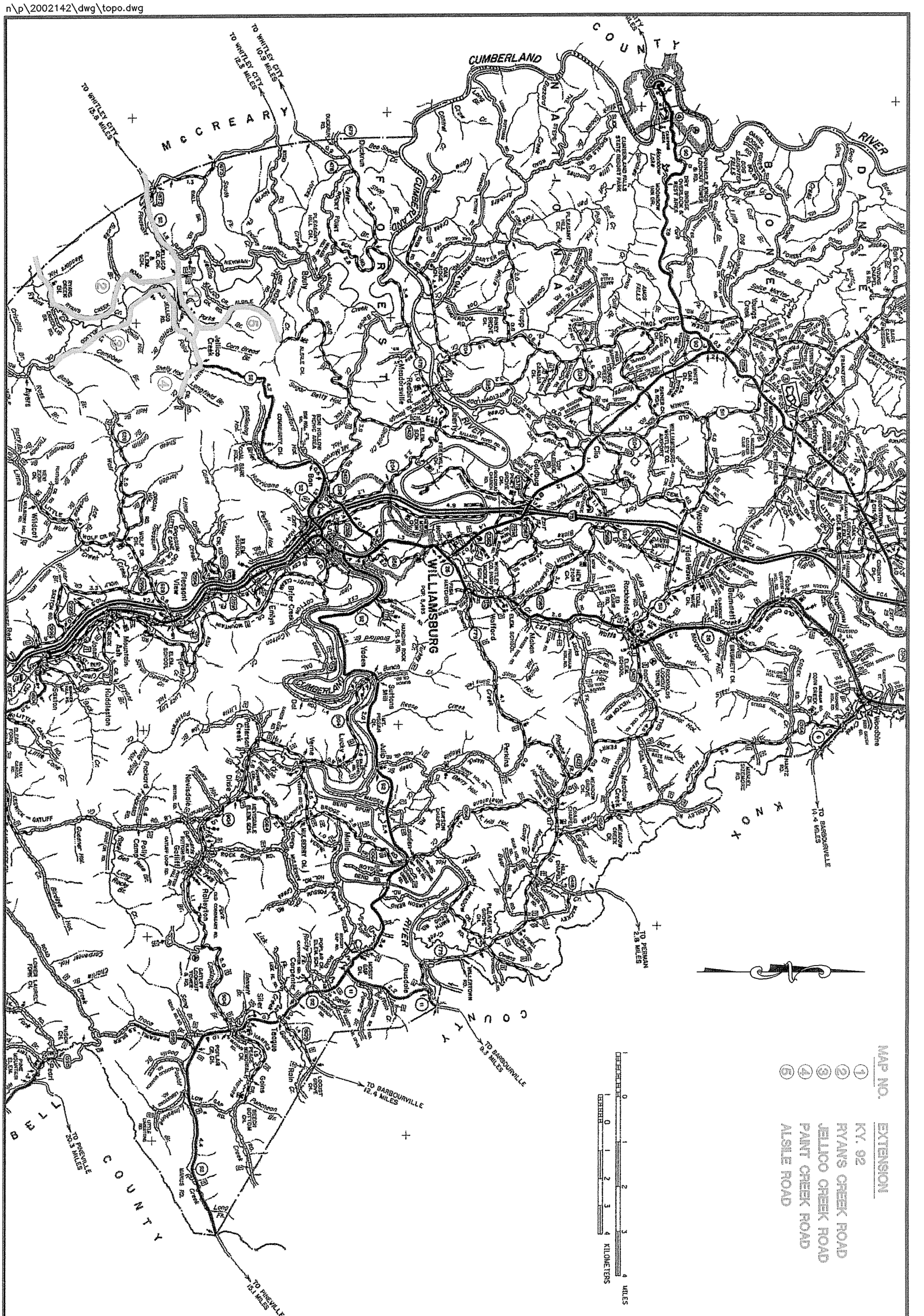
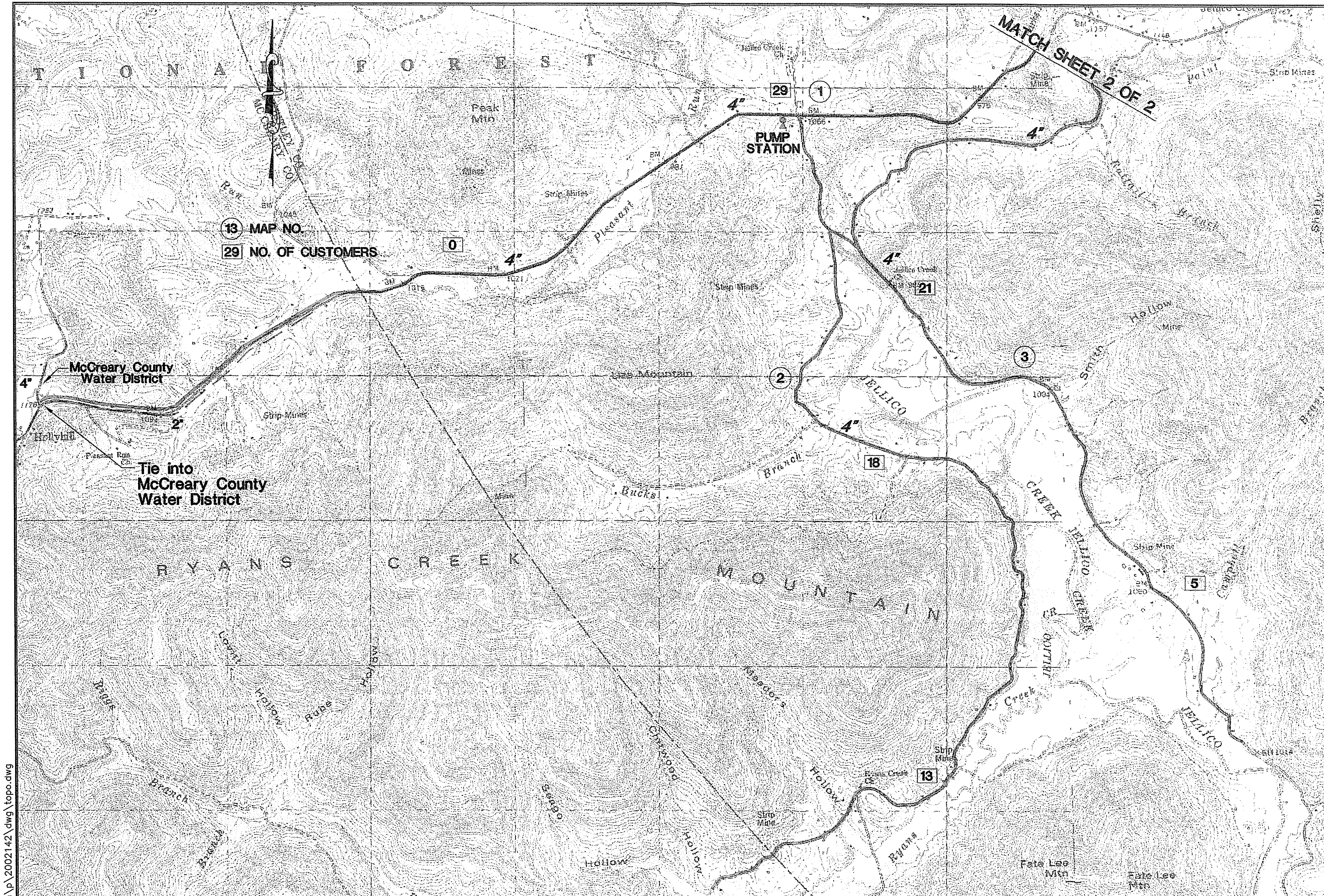


PROJECT NO. 2002142	KENVIRONS, INC. FRANKFORT, KENTUCKY	DRAWN BY: PTH CHECKED BY: CFM CHECKED BY: DATE: 8/02 SCALE: As Noted REV:
SHEET NO. 1 of 1		WHITLEY COUNTY WATER DISTRICT WATER SYSTEM EXTENSIONS WHITLEY COUNTY, KENTUCKY



WHITLEY COUNTY WATER DISTRICT
WATER SYSTEM EXTENSIONS
WHITLEY COUNTY, KENTUCKY

DRAWN BY:	FTH
CHECKED BY:	CFM
CHECKED BY:	
DATE:	8/02
SCALE:	1"=2000'
REV:	

KENVIRONS, INC.
FRANKFORT, KENTUCKY

PROJECT NO. 2002142

SHEET NO. 1 of 2

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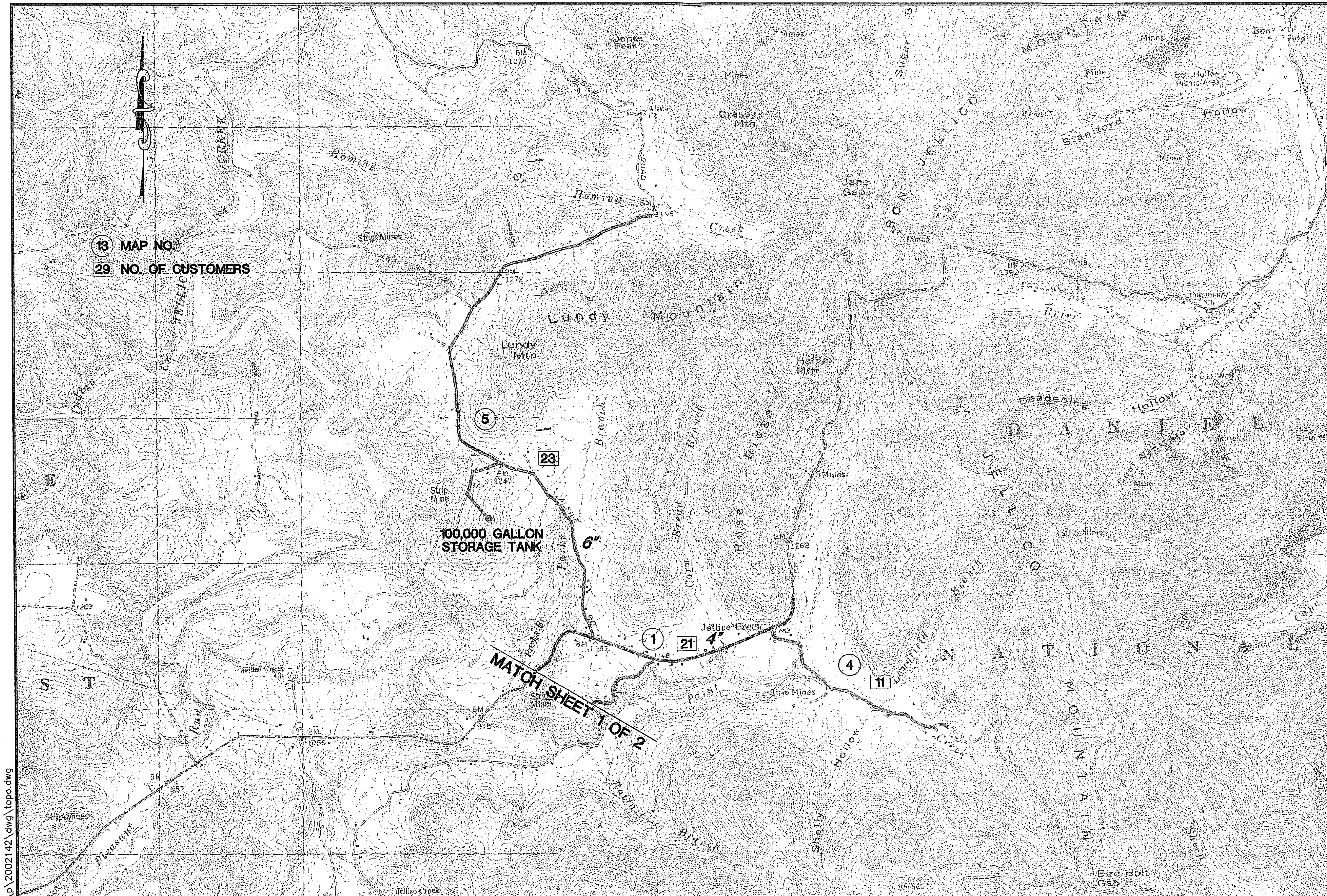

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WHITLEY COUNTY WATER DISTRICT
WATER SYSTEM EXTENSIONS
WHITLEY COUNTY, KENTUCKY

DRAWN BY: PTH
CHECKED BY: CFM
CHECKED BY:
DATE: 8/02
SCALE: 1"=2000'
REV:

KENVIRONS, INC.
FRANKFORT, KENTUCKY

PROJECT NO.
2002142

SHEET NO.
2 of 2