

# WEST MCCRACKEN COUNTY WATER DISTRICT

8020 Ogden Landing Road

West Paducah, KY 42086

William A. Tanner, Superintendent

Howard Pulley, Chairman

**OCTOBER 1, 2004** 

MS BETH O'DONNELL EXECUTIVE DIRECTOR PUBLIC SERVICE COMMISSION 211 SOWER BLVD FRANKFORT KY 40601 RECEIVED
OCT 0 4 2004

PUBLIC SERVICE COMMISSION

RE: Application for Certification of Public Convenience and Necessity and Financing Plan

Case 2004-00402

Dear Ms. O'Donnell;

Attached please find an original and ten (10) copies of our application to construct 12.4 miles of water main. Three (3) copies of Exhibit 2, System Map and Exhibit 5, Plans and Specifications are submitted not bound.

Please contact me if any additional information is required.

Sincerely,

William A. Tanner

telephone: (270) 442-3337 emergency pager: (270) 441-2250 fax: (270) 441-7104

# BEFORE THE PUBLIC SERVICE COMMISSION CASE NO. 2004 - 00402



nat n 4 2004

PUBLIC SERVICE COMMISSION

IN RE:

WEST MCCRACKEN COUNTY	)
WATER DISTRICT	)
Application for Certificate of	)
Public Convenience and	)
Necessity and Approval of	)
Financing The District's	)
2004 Water Main	)
Expansion Project	)

#### **APPLICATION**

The application of the West McCracken County Water District respectfully shows:

- (a) The applicant is a water district existing under KRS chapter 74.
- (b) The address of the applicant is 8020 Ogden Landing Road, West Paducah, Kentucky, 42086.
- (c) The District requests a Certificate of Public Convenience and Necessity for the Construction of the 2004 water main expansion project.
- (d) The District requests approval of its financing plan for the construction of this project.
- (e) In support of this application, the District submits the following exhibits:

Exhibit 1	Statement of Need
Exhibit 2	System Map (3) With Proposed Extensions
Exhibit 3	New Customers
Exhibit 4	Contracts & Change Order
Exhibit 5	Plans and Specifications for Project (3 sets)
Exhibit 6	Approval From Division of Water

Exhibit 7	Final Engineering Report with Bid Tabulations
Exhibit 8	Rate Analysis
Exhibit 9	Last Audit & Current Financial Statements
Exhibit 10	Bond Resolution With KRWFC Summaries
Exhibit 11	Total Project Costs & Sources of Funds
Exhibit 12	Engineering Contract

(f) The District requests a waiver of 807KAR5:001 Section 6 in that the Audit and Rate analysis cover a 12-month period, which ended more than ninety (90) days before this submittal. The District's financial ability has not changed since these documents were prepared.

THEREFORE, the applicant requests that the Commission grant a Certificate of Public Convenience and Necessity and approve the financing required for the construction of the 2004 water line extension project.

Dated this the 30th day of September, 2004.

WEST MCCRACKEN COUNTY WATER DISTRICT

Howard Pulley, Chairma



#### Statement of Need

The West McCracken County Water District desires to (A) Construct approximately 12.4 miles of 6-inch and 10-inch water main; and (B) finance the construction with a \$900,000 loan through the Kentucky Rural Water Finance Corporation, Flexible Term Finance Program.

- A. The District wishes to construct water mains to serve the areas highlighted on the system map (Exhibit 2). The construction has been bid in three contracts.
  - Contract A Magruder, Michelle, Woodville, Mayfield Metropolis and Bobo
  - Contract B Old Hinkleville, Old US 60, Steele, West Airport, Johnna, Thoroughbred, Skyline, Gholson and Childress
  - Contract C Biggs and Bob Harris

Following three public meetings, 76 tap-on/service contracts have been signed by homeowners for these areas. A list of new services is contained in Exhibit 3.

After reviewing bids received on September 16<sup>th</sup> for installation of water mains, the Commissioners of this District approved a change for Contract A. The change deleted the 10-inch line on Woodville Road from Magruder to Hobbs and added the 6-inch line on Bobo Road.

The contracts for A, B & C and the change order for A, all contingent upon PSC approval, are contained in Exhibit 4.

Three sets of plans and specifications for the project are attached as Exhibit 5. Exhibit 6 is Division of Water approval for these water mains.

Exhibit 7 is the final engineering report and bid tabulations with total construction costs.

B. The District wishes to finance this project through the flexible term finance program of KRWFC. The Kentucky Rural Water Association completed a rate analysis and determined that existing rates are sufficient to finance this construction. This is possible by retiring the District's 1968 bonds, thereby making the \$44,000 per year bond payments available for the proposed loan. There is a small savings to the District with this approach. The rate analysis is contained in Exhibit 8.

The District's 2003 Audit and year to date financial statements are contained in Exhibit 9.

The proposed Bond resolution and KRWFC Flexible Term Finance Program summary are contained in Exhibit 10. These include sources and uses of funds and debt service tables.

Exhibit 11 is the District's summary of all project expenses and sources of funds.

Exhibit 12 is the engineering services contract.



## Project A

Ricky Watson	Dave DeCaprio	Craig Nave
3780 Magruder Road	4205 Magruder Road	4125 Magruder Road
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Lisle Warford	Gary Kelley	Jim Kelley
4145 Magruder Road	4095 Magruder Road	4285 Magruder Road
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Danny Hayes	Richard Kilgore	Trish Badgley
3935 Magruder Road	3975 Magruder Road	4005 Magruder Road
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Bethel Parrish	Alan Russell	Dwayne Pickett
4025 Magruder Road	4075 Magruder Road	4245 Magruder Road
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Nathan Rutherford	Karisa Vick Jackson	P.G. Henderson
4265 Magruder Road	4345 Magruder Road	9775 Michelle Ct.
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Tom Wickstrom	Ricky Burgess	Steve Standridge
9765 Michelle Ct.	9755 Michelle Ct.	9745 Michelle Ct.
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Glen Dick	Steve Vaughn	Kyle McGonigle
9735 Michelle Ct.	9780 Michelle Ct.	9770 Michelle Ct.
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Shannon Herron	Anna Jorgensen	David Barton
9760 Michelle Ct.	9750 Michelle Ct.	9740 Michelle Ct.
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
Janet Duncan	Kenneth Alvey	Ronnie Hines Jr.
7130 Mayfield Metropolis Rd.	6750 Bobo Road	6525 Bobo Road
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086

## Project A

Ronnie & Lois Hines 6565 Bobo Road West Paducah, KY 42086 W. Paul Cornwell 7050 Bobo Road West Paducah, KY 42086 Wesley Peeler 7165 Bobo Road West Paducah, KY 42086

Harold G. Peeler 6560 Rudy Woods Road West Paducah, KY 42086

## Project B

Roby Kight	Willard K. Humphreys	Rudy L. Moss
9270 Old Hinkleville Rd.	9250 Old Hinkleville Rd.	9055 Old Hinkleville Rd.
Kevil, KY 42053	Kevil, KY 42053	Kevil, KY 42053
J.H. Gross	Mary Fay Ellis	David Mast
9150 Old Hinkleville Rd.	8830 Justus Lane	2425 Johnna Lane
Kevil, KY 42053	West Paducah, KY 42086	West Paducah, KY 42086
R.E. Weaver	Earl Riley	David Cox
2335 Johnna Lane	2315 Johnna Lane	2605 Thoroughbred Cir.
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Robert Farr	Luke Meadors	Kevin Anderson
8835 W. Airport Drive	8845 West Airport Drive	8860 West Airport Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Keith Anderson	Darren Crabtree	Amelia Massey
8870 W. Airport Drive	8875 West Airport Drive	8880 West Airport Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Claude Hibner	Ann Wright	Gary Moon
8910 West Airport Drive	8980 West Airport Drive	2525 Skyline Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Bobby Noles	Theodore S. Hutchins	Joe Stephens
2550 Skyline Drive	2555 Skyline Drive	2600 Skyline Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Nicky Harris	Brad Griffin	Jerry Jarrett
2605 Skyline Drive	2630 Skyline Drive	2635 Skyline Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086
Fred Cruse	Alfred Sevi	Larry Dunlap
2660 Skyline Drive	2665 Skyline Drive	2700 Skyline Drive
West Paducah, KY 42086	West Paducah, KY 42086	West Paducah, KY 42086

## **Project B**

Dennis Dallas 2705 Skyline Drive West Paducah, KY 42086

Pat Robinson 8850 Highway 60 W. West Paducah, KY 42086

Robert Richards 2265 Gholson Road West Paducah, KY 42086

Lloyd Moore 10550 Childress Road West Paducah, KY 42086

Michael Johnson 10675 Childress Road Kevil, KY 42053 Reed Wilks 2730 Skyline Drive ' West Paducah, KY 42086

Carole Fenwick 3115 Steele Road West Paducah, KY 42086

Stan Newberry 10335 Childress Road West Paducah, KY 42086

Larry W. Davis 10530 Childress Road West Paducah, KY 42086

Michael Hammonds 10685 Childress Road Kevil, KY 42053 Don Huddleston 2735 Skyline Drive West Paducah, KY 42086

Beth Richter 3120 Steele Road West Paducah, KY 42086

Robert Richards Childress Road Property West Paducah, KY 42086

E.C. Young 10565 Childress Road West Paducah, KY 42086

Wilford Davenport Childress Road Property Kevil, KY 42053

## **Project C**

John E. May

Dan P. Reynolds

Chuck Graves

2640 Biggs Road

Kevil, KY 42053

Chuck Graves

2850 Biggs Road

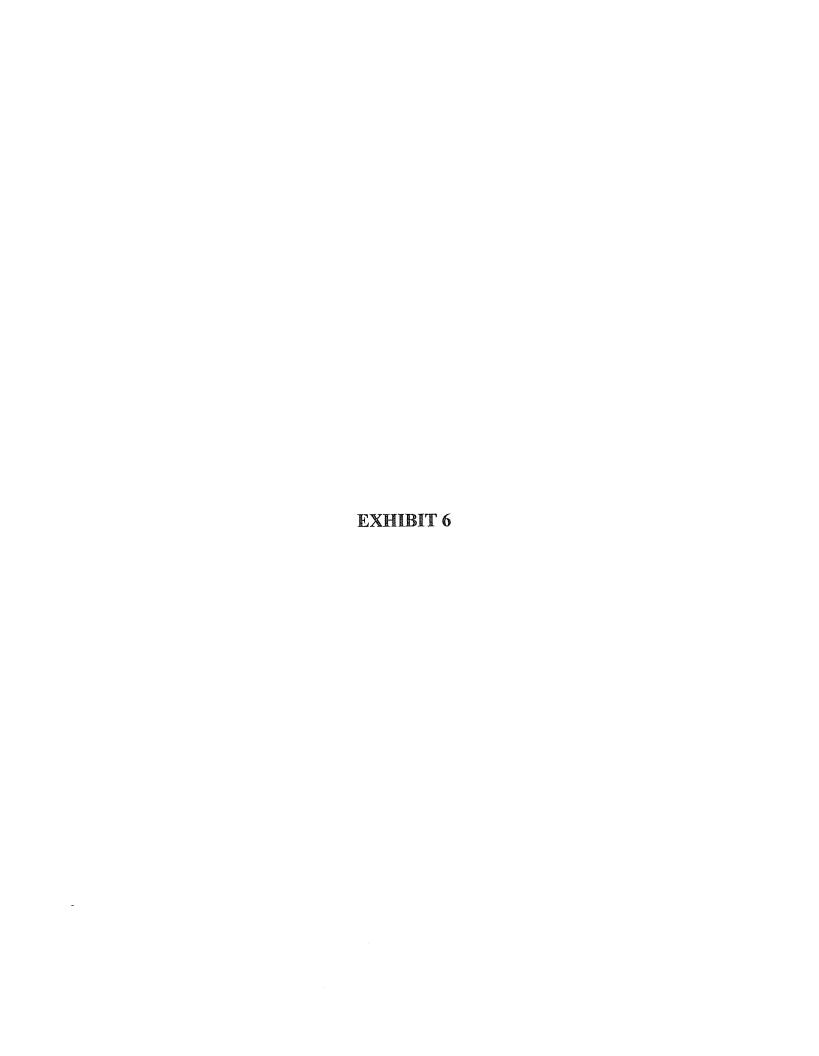
Kevil, KY 42053

Kevil, KY 42053

## IN WITNESS WHEREOF

The parties hereto have executed this Agreement, the day and year first above written.

IPING CONTRACTORS, LLC
Accept Owner
eman Road Address Ky 42001



LAJUANA S. WILCHER

SECRETARY



ERNIE FLETCHER GOVERNOR

## ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROYECTION

DIVISION OF WATER 14 REILLY ROAD

FRANKFORT, KENTUCKY 40601-1190

www.kentucky.gov September 21, 2004

West McCracken Water District Attn: William A. Tanner 8020 Ogden Landing Road West Paducah, KY 42086

Re:

West McCracken Water District PWS-34003

DW No. 0730454-04-002

2004 Water Mains Expansion Project

Activity ID: APE20040002

Dear Mr. Tanner:

We have reviewed the plans and specifications for the above referenced project. The plans propose the installation of approximately 12,063 feet of 10-inch, 74,238 feet of 6-inch PVC, and 408 feet of 6-inch DI waterlines. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the enclosed waterline extension construction permit.

If you have any questions regarding this decision, please contact John B. Mathews, Jr., at (502) 564-2225, extension 578.

Sincerely,

Donna S. Marlin, Manager

Drinking Water Branch

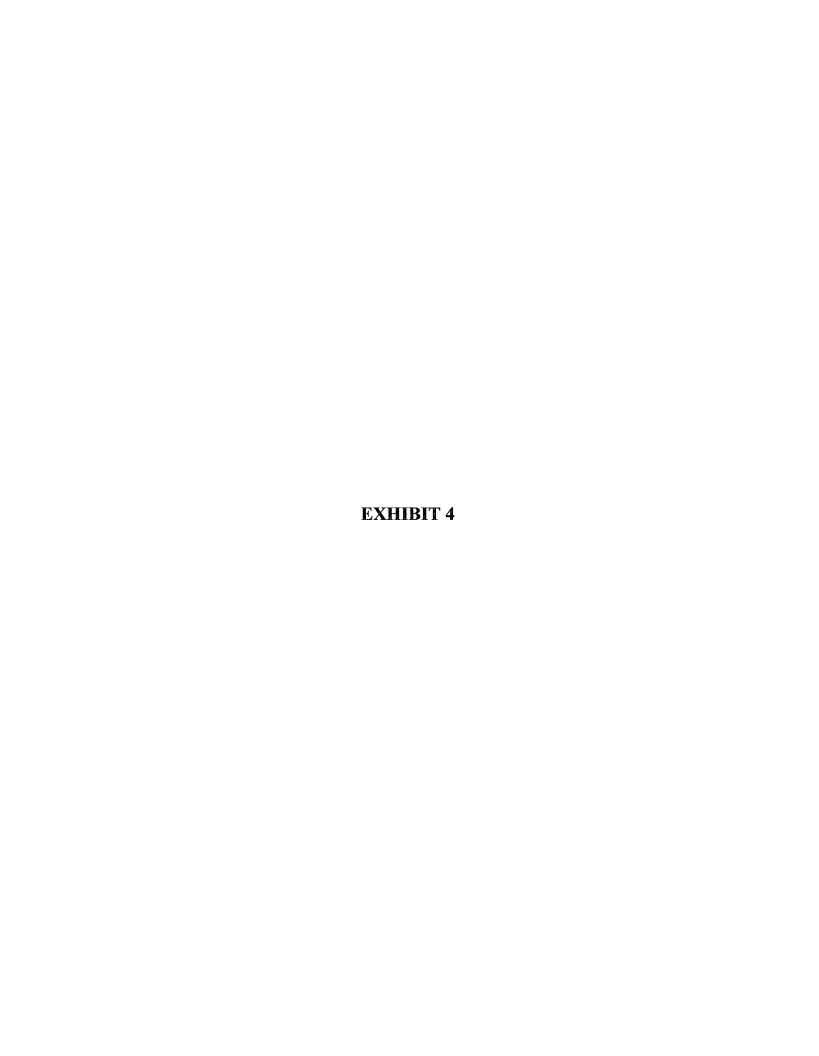
Division of Water

DSM/JBM Enclosure

CC: Civil Design Group

> Public Service Commission Division Of Plumbing

McCracken County Health Department



#### OWNER / CONTRACTOR AGREEMENT

This contract is being entered subject to Public Service Commission approval of the project.

THIS AGREEMENT, made this 36 day of 507, 2004, by and between **West McCracken Water District**, called the OWNER, and **Burgess and Associates**, hereinafter called the CONTRACTOR, WITNESSES, that the Owner and Contractor for the consideration hereinafter named agree as follows:

## Scope of Work

The Contractor shall perform all of the work shown on the Drawing and described in the Specification entitled 2004 Water Main Expansion Project, Contract A, McCracken County, Kentucky prepared by Civil Design Group, Inc., acting as, and in these Contract Documents, entitled the Engineer; and shall do everything required by this Agreement, the Special Provisions of the Contract, the Specifications and the Drawings.

## **Time of Completion**

The work to be performed under this Contract shall be commenced within 10 calendar days after receipt of written Notice to Proceed from the Owner. The work shall be completed within 150 days. For each Consecutive calendar day beyond, the sum of \$250.00 per day will be assessed as liquidated damages and will be withheld from the final payment.

#### The Contract Sum

The Owner shall pay the Contractor for the performance of the Contract, subject to additions and deductions provided therein, in current funds: One hundred twenty-four thousand eight hundred twelve and 27/100 Dollars (\$124,812.27) quoted in the Bid proposal by the Contractor, dated September 16, 2004, which shall constitute full compensation for the work and services authorized herein.

## **Progress Payments**

The Owner shall make partial payments on or about thirty-days (30) after submission of an estimate on account of the Contract as provided therein, as follows:

Ninety (90) percent of the value, based on the contract prices of labor and materials incorporated in the work and ninety (90) percent of materials suitably stored on the site thereof; partial payment quantities will be based on estimates prepared by the Engineer on or about the first of each month of the account of the work performed by the Contractor on each item of work included in the original contract, and materials properly

stored, no partial payment will be made when the amount due is less than \$1,000.00; upon substantial completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Price.

## **Acceptance and Final Payment**

Final payment shall be due sixty (60) days after substantial completion of the work provided the work be then fully completed and the Contract fully performed.

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Engineer shall promptly make such inspection, and when he finds the work acceptable under the Contract and the Contract fully performed, he shall promptly issue a final certificate, over his own signature, stating that the work provided for in this Contract has been completed and is accepted by him under the terms and conditions thereof, and that the entire balance found to be due the Contractor, and noted in said final certificate, is due and payable.

Before issuance of final payment the Contractor shall submit evidence satisfactory to the Engineer that all payrolls, material bills, and other indebtedness connected with the work have been paid or otherwise satisfied.

The Contractor shall warrantee all work for a period of one (1) year. This warranty shall include Trench Settlement and Landscaping and Seeding.

#### **The Contract Documents**

The General Conditions of the Contract, the Special Conditions, the Specifications and the Drawings, together with this Agreement, form the Contract and they are as fully a part of the Contract as if hereto attached or herein repeated. There follows an enumeration of the Contract Documents:

- 1. Proposal, Dated September 16, 2004.
- 2. Owner-Contractor Agreement
- 3. Insurance Requirements
- 4. Specifications
- 5. Plans consisting of Sheets 1 through 23

## IN WITNESS WHEREOF

The parties hereto have executed this Agreement, the day and year first above written.

Spela Mansfeld Witness	By: West McCracken County Water District
Hoather Schaeffer Witness	By: Deve Juges Contractor
	By:
	Address

## **CONTRACT CHANGE ORDER**

CHANG	E ORDER #:		<u> </u>		•	
PROJE	CT:	2004 Water Mai	in E	xpansion Project	-	
DATE:			09/	27/04		
LOCAT	ION:					
TO (Co	ntractor):	Burgess & Ass	ocia	ates		
and spe	hereby requested the cifications as specifications as specification of the cification of cification of the cification of cification of cif	fied in Exhibit "A" of Changes-			om t	
Item No.	Quantities, Unit Completion S	ts, Unit Prices, chedule, Etc.	iı	Decrease  Contract Price		Increase in Contract Price
	TOTAL DECREAS		\$_ \$	22,613.73	\$ \$	27,406.05
	NET (Increase / D		\$		\$	4,792.32
	TOTAL CONTRAG	CT PRICE			\$	124,812.27
	NEW TOTAL CON				\$	129,604.59
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	ne provided for co					
☐ decre	eased by <u>10</u> cale					
					an a	amendment to the
Contrac	ct and all provisions	of the Contract v	vill a	pply thereto.		

Recommended by:	Date:
(Engineer)	
Accepted by: Leve Dungey	Date: <u>9/28/6</u> 4
(Contractor)	
Approved by: Mallington (Owner)	Date: <del>7-</del> 28 <i>-0</i> 4

EXHIBIT "A" West McCracken Water District Contract "A" Change Order #1

				ORIGINAL	ADDITIONS	SNO!	DELETIONS	SNOI
	QUANTITY	TIND	UNIT COST	TOTAL COST	QUANTITY	TOTAL COST	QUANTITY	힏
100.1   10" PVC SDR 21 Water Line	12063	4	\$ 4.00	48,252.00	0.	٠	3112	\$ 12,448.00
100.6 6" PVC SDR 21 Water Line	4085	<u> </u>	\$ 4.00	16,340.00	10 5132	\$ 20,528.00		&
	40	4	\$ 72.30	2,892.00	00	٠ <del>ده</del>		
	270	4	\$ 75.00	\$ 20,250.00	01	٠.	110	\$ 8,250.00
400 Gravel Driveway Repair in Kind	366	4	\$ 13.35	\$ 4,886.10	190	\$ 2,536.50	59	\$ 787.65
	92	느	\$ 50.00	4,600.00	00	· &		
	82	占	\$ 50.00	4,100.00	00	٠ ج	17	\$ 850.00
	-	EA	\$ 122.36	\$ 122.36	199	\$ 122.36		
503.1 10" Three-Way Fire Hydrant	9	EA	\$ 278.08	1,668.48	84	· •я	_	\$ 278.08
503.6 6" Three-Way Fire Hydrant	က	EA	\$ 278.08	3 \$ 834.24	74	٠ <del>ده</del>		٠ ھ
	3	EA	\$ 155.72	2 \$ 467.16	6 3	\$ 467.16		\$
	_	EA	\$ 133.48	3 \$ 133.48	81	, <del>69</del>		٠.
	_	EA	\$ 133.48	3 \$ 133.48	18	· •		٠,
	_	EA	\$ 111.23	3 \$ 111.23	23	٠ ج		٠ چ
	4	EA	\$ 155.72	2 \$ 622.88	38	٠ <del>د</del>		&
	-	EA	\$ 133.48	3 \$ 133.48	81	&		٠ ج
	-	EA	\$ 133.48	3 \$ 133.48	18			٠ -
	_	EA	\$ 5,561.60	5,561.60	00	٠ چ		٠.
600.2 Landscape and Reseeding	_	EA	\$ 13,570.30	13,570.30	30			٠
	0	占	\$ 4.23	. \$	35	\$ 148.05		٠.
	0	当	\$ 27.81	\$	30	<b>€</b> >		
	0	EA	\$ 222.46	. **	2	\$ 444.92		
	0	EA	\$ 122.36	- &	•	\$ 122.36		
	0	EA	\$ 278.08	- \$	3	<del>G)</del>		
506.22 6" 22.5 Degree MJ Bend	0	EA	\$ 133.48	- 8 8	4	ક્ર		٠.
516.6 6" X 6" Tapping Tee and Gate Valve	0	EA	\$ 834.24	- \$ 1	1	\$ 834.24		<del>.</del>
			<del>S</del>	124,812.27	\$   27	27,406.05	\$	22,613.73

129,604.59	
S	
GRAND TOTAL CONTRACT "A"	

#### **OWNER / CONTRACTOR AGREEMENT**

This contract is being entered subject to Public Service Commission approval of the project.

THIS AGREEMENT, made this <u>2774</u> day of <u>FPTEMBER</u>, <u>2004</u>, 2004, by and between **West McCracken Water District**, called the OWNER, and **Terry Land Development**, hereinafter called the CONTRACTOR, WITNESSES, that the Owner and Contractor for the consideration hereinafter named agree as follows:

## Scope of Work

The Contractor shall perform all of the work shown on the Drawing and described in the Specification entitled 2004 Water Main Expansion Project, Contract B, McCracken County, Kentucky prepared by Civil Design Group, Inc., acting as, and in these Contract Documents, entitled the Engineer; and shall do everything required by this Agreement, the Special Provisions of the Contract, the Specifications and the Drawings.

## Time of Completion

The work to be performed under this Contract shall be commenced within 10 calendar days after receipt of written Notice to Proceed from the Owner. The work shall be completed within 150 days. For each Consecutive calendar day beyond, the sum of \$250.00 per day will be assessed as liquidated damages and will be withheld from the final payment.

#### The Contract Sum

The Owner shall pay the Contractor for the performance of the Contract, subject to additions and deductions provided therein, in current funds: **Two hundred thirty-seven thousand five hundred fifty-seven and 50/100 Dollars (\$237,557.50)** quoted in the Bid proposal by the Contractor, dated September 16, 2004, which shall constitute full compensation for the work and services authorized herein.

## **Progress Payments**

The Owner shall make partial payments on or about thirty-days (30) after submission of an estimate on account of the Contract as provided therein, as follows:

Ninety (90) percent of the value, based on the contract prices of labor and materials incorporated in the work and ninety (90) percent of materials suitably stored on the site thereof; partial payment quantities will be based on estimates prepared by the Engineer on or about the first of each month of the account of the work performed by the Contractor on each item of work included in the original contract, and materials properly

stored, no partial payment will be made when the amount due is less than \$1,000.00; upon substantial completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Price.

## **Acceptance and Final Payment**

Final payment shall be due sixty (60) days after substantial completion of the work provided the work be then fully completed and the Contract fully performed.

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Engineer shall promptly make such inspection, and when he finds the work acceptable under the Contract and the Contract fully performed, he shall promptly issue a final certificate, over his own signature, stating that the work provided for in this Contract has been completed and is accepted by him under the terms and conditions thereof, and that the entire balance found to be due the Contractor, and noted in said final certificate, is due and payable.

Before issuance of final payment the Contractor shall submit evidence satisfactory to the Engineer that all payrolls, material bills, and other indebtedness connected with the work have been paid or otherwise satisfied.

The Contractor shall warrantee all work for a period of one (1) year. This warranty shall include Trench Settlement and Landscaping and Seeding.

#### The Contract Documents

The General Conditions of the Contract, the Special Conditions, the Specifications and the Drawings, together with this Agreement, form the Contract and they are as fully a part of the Contract as if hereto attached or herein repeated. There follows an enumeration of the Contract Documents:

- 1. Proposal, Dated September 16, 2004.
- 2. Owner-Contractor Agreement
- 3. Insurance Requirements
- 4. Specifications
- 5. Plans consisting of Sheets 1 through 23

## IN WITNESS WHEREOF

The parties hereto have executed this Agreement, the day and year first above written.

est McCracken County Water District

## **OWNER / CONTRACTOR AGREEMENT**

This contract is being entered subject to Public Service Commission approval of the project.

THIS AGREEMENT, made this 28 day of 5004, by and between **West McCracken Water District**, called the OWNER, and **Gregory Piping Contractors**, **LLC**, hereinafter called the CONTRACTOR, WITNESSES, that the Owner and Contractor for the consideration hereinafter named agree as follows:

## Scope of Work

The Contractor shall perform all of the work shown on the Drawing and described in the Specification entitled 2004 Water Main Expansion Project, Contract C, McCracken County, Kentucky prepared by Civil Design Group, Inc., acting as, and in these Contract Documents, entitled the Engineer; and shall do everything required by this Agreement, the Special Provisions of the Contract, the Specifications and the Drawings.

## **Time of Completion**

The work to be performed under this Contract shall be commenced within 10 calendar days after receipt of written Notice to Proceed from the Owner. The work shall be completed within 150 days. For each Consecutive calendar day beyond, the sum of \$250.00 per day will be assessed as liquidated damages and will be withheld from the final payment.

#### The Contract Sum

The Owner shall pay the Contractor for the performance of the Contract, subject to additions and deductions provided therein, in current funds: **Sixty-eight thousand two hundred twenty-eight and 00/100 Dollars (\$68,228.00)** quoted in the Bid proposal by the Contractor, dated September 16, 2004, which shall constitute full compensation for the work and services authorized herein.

## **Progress Payments**

The Owner shall make partial payments on or about thirty-days (30) after submission of an estimate on account of the Contract as provided therein, as follows:

Ninety (90) percent of the value, based on the contract prices of labor and materials incorporated in the work and ninety (90) percent of materials suitably stored on the site thereof; partial payment quantities will be based on estimates prepared by the Engineer on or about the first of each month of the account of the work performed by the

Contractor on each item of work included in the original contract, and materials properly stored, no partial payment will be made when the amount due is less than \$1,000.00; upon substantial completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Price.

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- 2. Owner-Contractor Agreement
- 3. Insurance Requirements
- 4. Specifications
- 5. Plans consisting of Sheets 1 through 23

## IN WITNESS WHEREOF

The parties hereto have executed this Agreement, the day and year first above written.

By: West McCracken County Water District
By: GREGORY PIPING CONTRACTORS, LL Contractor
By: Mutar Muy
3300 Coleman Road Address Paducab, Ky 42001



LAJUANA S. WILCHER

SECRETARY



ERNIE FLETCHER GOVERNOR

#### ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION DIVISION OF WATER 14 REILLY ROAD FRANKFORT, KENTUCKY 40601-1190

www.kentucky.gov September 21, 2004

West McCracken Water District Attn: William A. Tanner 8020 Ogden Landing Road West Paducah, KY 42086

Re:

West McCracken Water District PWS-34003

DW No. 0730454-04-002

2004 Water Mains Expansion Project

Activity ID: APE20040002

Dear Mr. Tanner:

We have reviewed the plans and specifications for the above referenced project. The plans propose the installation of approximately 12,063 feet of 10-inch, 74,238 feet of 6-inch PVC, and 408 feet of 6-inch DI waterlines. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the enclosed waterline extension construction permit.

If you have any questions regarding this decision, please contact John B. Mathews, Jr., at (502) 564-2225, extension 578.

Sincerely,

Donna S. Marlin, Manager

Drinking Water Branch

Division of Water

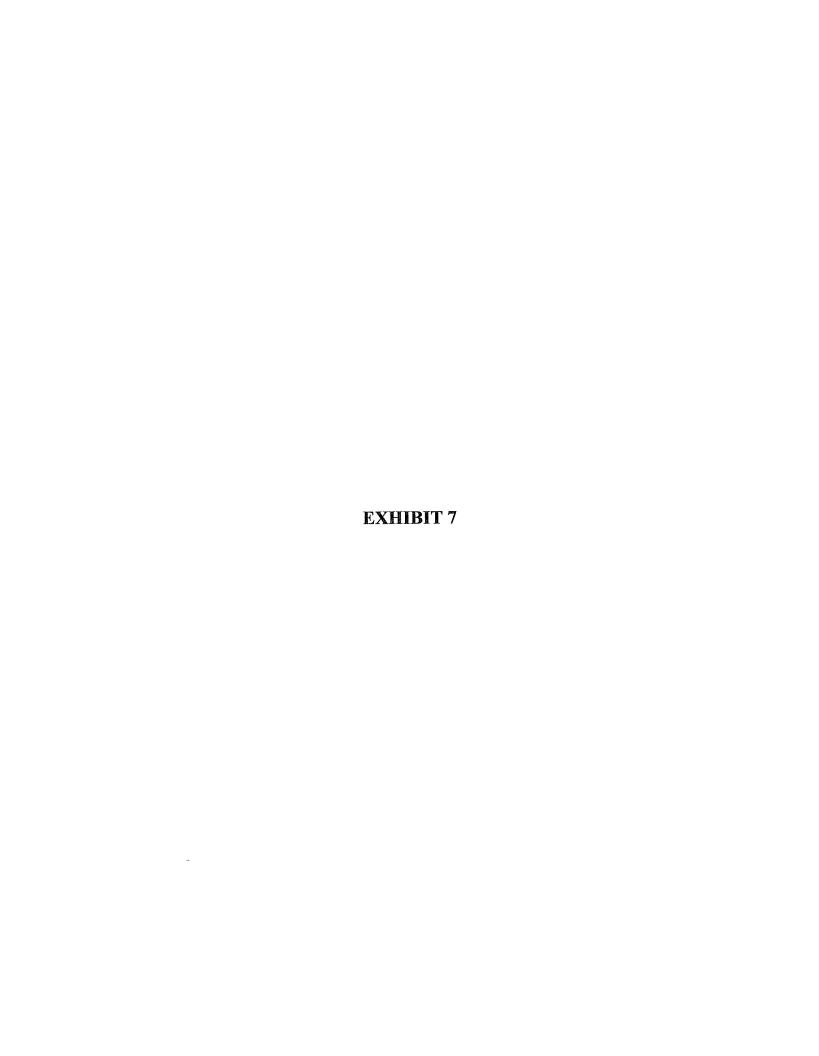
DSM/JBM Enclosure

CC:

Civil Design Group

Public Service Commission Division Of Plumbing

McCracken County Health Department



# **ENGINEERING REPORT**

# 2004 Waterline Extension West McCracken Water District



# September 2004

Plans and Specifications provided by:



#### Introduction

The West McCracken Water District is located in west McCracken County, serving approximately 1292 residences and business with an average daily demand of 475,000 gallons per day and 24 hour storage capacity of 750,000 gallons per day. The District's purchasing contracts and pumping capabilities extend its capacity to approximately 1.1 million gallons per day. Enclosed is a current system map of the system detailing line sizes and locations, as well as current district boundaries.

#### Proposed Project - Water Main Extension

The proposed project entails the construction of 56,357 linear feet of 6" water main and 8,951 linear feet of 10" water main within its district boundaries. The enclosed system map shows the new extensions in relation to other lines within the system.

The project was divided into three contracts, Contracts "A", "B", and "C", for installation. Material suppliers were bid separately on a singular contract. Bid tabulations for material suppliers and contractors are attached. In addition, a cost breakout for materials for each contract is also enclosed.

The attached USGS topographic maps show the entire extension in relationship to McCracken County. There will be approximately 164 residences served by this water main extension. Demand is estimated at 65,600 gallons per day.

#### **Construction Materials & Methods**

The new lines shall be constructed of 6" and 10" SDR 21 PVC Pipe. All fittings shall be mechanical joint ductile iron. Steel Encasement shall be utilized for all bores under roadways and driveways. Creek Crossings shall be constructed of Ductile Iron Pipe encased in concrete as shown on the details page of the plans. Civil Design Group, incorporated will provide general and residential inspection services as needed.

#### **Cost of Operation**

The revenue received from tap-on fees and consumer usage covers all costs associated with providing water services located on this extension. Examples of costs include meter reading, billing, service maintenance, wholesale cost of water, hydrant maintenance, pumping and chlorination.

#### **Construction Costs**

Construction costs are estimated at \$723,083.29. A detailed construction cost breakout is attached.

#### Fire Flow Analysis

A detailed fire flow analysis was performed for the purposes of this extension. In July of 2004, personnel from the West McCracken Water District and Civil Design Group performed hydrant flows throughout the district at locations shown on the enclosed system map. Static pressures were recorded at each location, with various flows and their corresponding residual pressures recorded thereafter.

For purposes of the Fire Flow Evaluation, a residual pressure at the Static Hydrant was calculated for a specified demand by utilizing the following equation:

$$Q_r = Q_f (h_r^{0.54}/h_f^{0.54})$$

Where:

 $Q_r$  = Flow available at the desired pressure

 $Q_f = Maximum$  recorded flow at the flowing hydrant during field test

 $h_r^{0.54}$  = (Static pressure at no flow)-(desired residual pressure)  $h_f^{0.54}$  = (Static pressure at no flow)-(residual pressure at maximum test flow)

Upon determination of the residual pressure at the static hydrant for requested flow, the flow was evaluated along the line by utilization of the Hazen-Williams formula:

$$h_f = (10.44) (L) (gpm)^{1.85} / (C)^{1.85} (d_{inches})^{4.8655}$$

where:

 $h_f = head loss in feet$ 

L = length

gpm = flow in gallons per minute

C = Hazen-Williams coefficient

d = diameter of the water line in inches

Residual pressures were first calculated for the distance between static and flow hydrants and then adjusted for elevation differences. Finally, pressure loss was calculated throughout each proposed extension. This pressure number was also adjusted for elevation. Flow estimation from each direction is determined when the residual pressures are equal from each flow direction.

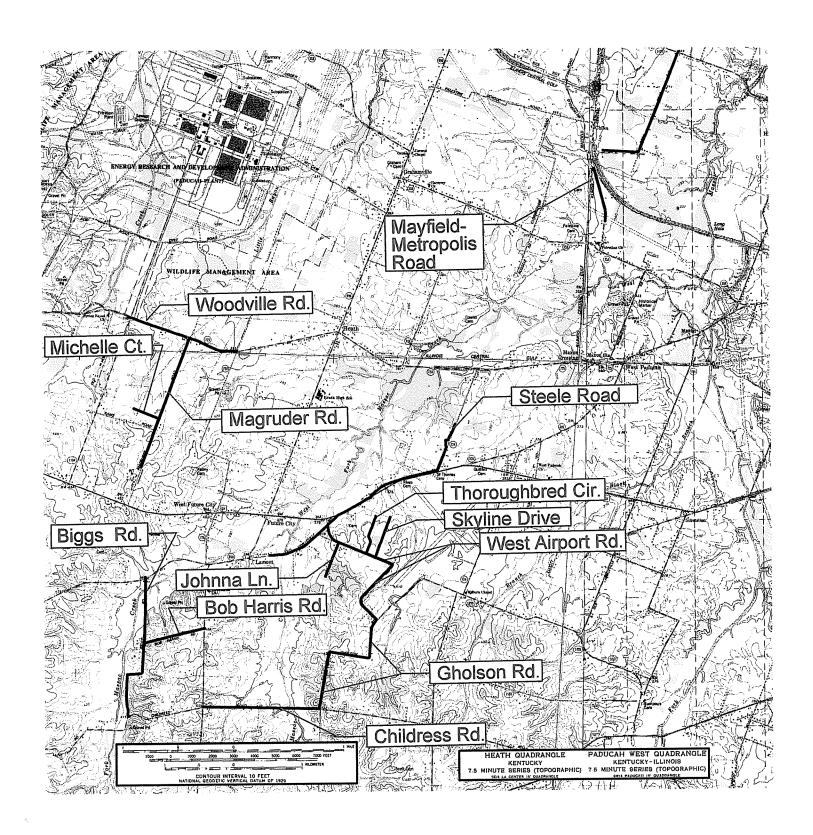
In cases where the flow to the proposed hydrant is received from three directions, the two flow hydrants with intersecting flows are received and combined to flow through a third segment. Residual pressures from both directions are equaled at the intersection of the two hydrants, then equaled with the third hydrant from the opposite direction at the proposed hydrant location.

Results for each fire hydrant evaluation are shown on the construction plans.

#### Flushing Velocities

For purposes of demonstrating flushing velocity, the flow required for a 6 inch and 10 inch line were calculated utilizing 2.5 ft/sec as the required velocity. The required flow for the 6 inch line was determined to be 0.49 ft3/sec (~221 gpm), with the 10 inch line requiring a flow of 1.36 ft3/sec (~612 gpm). These flows were required with a residual pressure of 30 psi. The three hydrants with the lowest modeled fire flows in different locations within the system were evaluated for this study. All three hydrants modeled the appropriate discharge with greater than 30 psi residual pressure. Therefore, as these hydrants are the lowest of the modeled flows within the proposed extensions, all areas were proven adequate for flushing velocities.

## **USGS TOPOGRAPHIC MAPS**



### CONSTRUCTION COST BREAKOUT CERTIFIED BID TABULATIONS



### WEST McCRACKEN COUNTY WATER DISTRICT CONSTRUCTION COST ESTIMATE

### CONTRACT "A"

Materials*	\$105,802.52
Installation*	\$129,604.59
TOTAL	\$235,407.11

### CONTRACT "B"

Materials	\$143,420.41
Installation	\$237,557.50
TOTAL	\$380,977.91

### CONTRACT "C"

Materials	\$38,470.27
Installation	\$68,228.00
TOTAL	\$106,698.27

GRAND TOTAL CONSTRUCTION COST	\$723,083.29

<sup>\*</sup> Includes change order

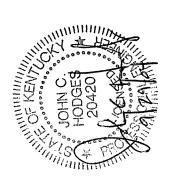
## West McCracken County Water District - 2004 Water Main Expansion Project

## Contract "A"

## BID TABULATION

											-			
			Burgess & Asso	Associates	H & G Co	H & G Construction	Murt	Murtco, Inc.	Terry Land	Terry Land Development, Inc.	t, Inc.	Tilford Contractors	ontractors	s
TEM NO DESCRIPTION	DIJANTITY UNIT		UNIT COST TOT	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	T TOTAL COST	Н	UNIT COST	TOTAL COST	COST
10" 01/0 0	12063		4 00	\$ 48 252 00	\$ 4.57	\$ 55.127.91	\$ 4.75	\$ 57,299.25	\$ 5.00	0 \$ 60,315.00	5.00 \$	5.18	\$ 62,4	62,486.34
100 6 6" DVC SDD 21 Water Line	4085	J LL		65			\$ 3.40	\$ 13,889.00	\$ 4.00	0 \$ 16,340.00	\$ 00.01	3.82	\$ 15,6	15,604.70
200.42.42" Steel Encasement	40	<u>,                                    </u>		θ.	\$ 55.00	\$ 2,200.00	\$ 54.00	\$ 2,160.00	\$ 50.00	\$	2,000.00	75.00	\$ 3,0	3,000.00
200 12 12 Otdel Encasament	270	1 4		10	\$ 75.00	\$ 20,250.00	\$ 76.00	\$ 20,520.00	\$ 75.00	\$	20,250.00 \$	75.00	\$ 20,2	20,250.00
400 Gravel Driveway Benair in Kind	366	<u> </u>		1	\$ 12.00	\$ 4,392.00	\$ 5.80	\$ 2,122.80	\$ 10.00	æ	3,660.00 \$	10.00	\$ 3,6	3,660.00
400 06 6" Bore and lack	6	j <u>L</u>				\$ 2,300.00	\$ 35.00	\$ 3,220.00	\$ 35.00	ક્ર	3,220.00 \$	50.00	\$ 4,6	4,600.00
400,00 0 DOIN SAIN SACK	82	1 4				\$ 4.920.00	\$ 46.00	\$ 3,772.00	\$ 40.00	ક્ર	3,280.00 \$	50.00	\$ 4,1	4,100.00
FOO E E" M I Cas	20 -	ıΩ		1				\$ 25.00	\$ 25.00	s	25.00 \$	75.00	\$	75.00
500.0 0 INIJ Cap	- (4	S ú		-	1 6	8 9.600.00	\$ 575.00	\$ 3,450.00	\$ 400.00	69	2,400.00 \$	300.00	\$ 1,8	,800.00
503 6 6" Thurs Way File Hydrant	0 0	S						\$ 1,185.00	\$ 350.00	65	\$ 00.030,	250.00	\$ 7	750.00
505.0 0 Illee-Way I lie Liyulain	2 6	ÍЦ		64		\$ 825.00	\$ 95.00	\$ 285.00	\$ 90.00	ક	270.00 \$	150.00	8	450.00
506 45 R. 45 Dogge Mil Bond	-	jμ		65		\$ 75.00	\$ 45.00	\$ 45.00	\$ 50.00	\$	50.00 \$	75.00	49	75.00
506.45 0 45 Degree was pend		FA				\$ 75.00	\$ 85.00	\$ 85.00	\$ 50.00	s	50.00 \$	100.00	Ì	00.00
508.00 X 0 Will 100 508 508 110" X 8" Reducer		E			\$ 105.00	\$ 105.00	\$ 35.00	\$ 35.00	\$ 50.00	es.	50.00	75.00		75.00
510 10" M.I Gate Valve	4	EA	\$ 155.72	\$ 622.88	\$ 174.00	\$ 696.00	\$ 120.00	\$ 480.00	\$ 110.00	æ	-	250.00		1,000.00
510 1 10" X 10" M.I Tee		ΕĀ	\$ 133.48	\$ 133.48	\$ 141.00	\$ 141.00	\$ 105.00	\$ 105.00	\$ 50.00	€9	50.00	100.00		100.00
510 S 10 X S W 1 Too		ΕĀ			\$ 135.00	\$ 135.00	\$ 105.00	\$ 105.00	\$ 50.00	ક્ર	50.00	100.00		100.00
600 1 Classing and Gaibbing		ΕĀ	rc.	5	\$ 18,000.00	\$ 18,000.00	\$ 8,210.00	\$ 8,210.00	00.000,7 \$	<del>s</del>	7,000.00 \$	5,680.00		5,680.00
600 21 andscape and Reserding		E	-	-	1	\$ 15,535.00	\$ 24,327.50	\$ 24,327.50	\$ 7,000.00	\$	7,000.00 \$	6,111.00	\$ 6,1	6,111.00
TOTAL BID			65	124.812.27	÷	153,643.41	ક્ક	141,320.55	\$	127,500.00	30.00		130,0	30,017.04
			•											

I hereby certify that the figures above accurately represent the bids received on September 16, 2004 at 2:00 pm.



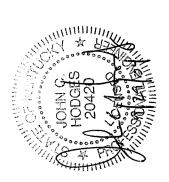
# West McCracken County Water District - 2004 Water Main Expansion Project

## Contract "B"

## **BID TABULATION**

			Burge	ss & As	Burgess & Associates	ອ ສ ບ	Const	H & G Construction	Terry L	and D	Terry Land Development	Tilfo	Tilford Contractors, Inc.	actors, I	nc.
DESCRIPTION	QUANTITY	TINO	UNIT CO	COST T	TOTAL COST	UNIT COST	1.	TOTAL COST	UNIT COST		TOTAL COST	UNIT COST		TOTAL COST	COST
100 6 6" PVC SDR 21 Water I ine	36.870	L)	\$	4.00	\$ 147,480.00	\$ 3.05	\$	112,453.50	\$	3.85	141,949.50	\$	4.22 \$		55,591.40
200.6 6" Ductile Iron Pipe	243	느		4.23 \$	1,027.89	\$ 5.75	8	1,397.25	\$	6.00   \$	1,458.00	ક	31.19 \$		7,579.17
300 12 12" Steel Encasement	527	느	\$ 7.	72.30 \$	38,102.10	\$ 55.00	\$	28,985.00	\$ 20	50.00	26,350.00	<del>S</del>	75.00 \$		39,525.00
400 Gravel Driveway Repair in Kind	966	느	\$	13.35 \$	13,283.25	\$ 12.00	\$ 0	11,940.00	\$ 10	10.00	9,950.00	\$	10.00		9,950.00
400.06 6" Bore and Jack	393	占	\$ 20	50.00	19,650.00	\$ 25.00	\$ 0	9,825.00	\$ 35	35.00 \$	13,755.00	ક્ક	50.00	<b></b>	9,650.00
400.18 Concrete Encasement	205	4	\$ 2.	27.81	5,701.05	\$ 20.00	<del>\$</del>	4,100.00	\$ 25	25.00 \$	5,125.00	ક	18.00 \$		3,690.00
500 Test Point Connection	8	EA	\$ 22	222.46 \$	1,779.68	\$ 520.00	\$ 0	4,160.00	\$ 250	250.00	2,000.00	\$	50.00		1,200.00
500.6 6" MJ Cap	9	EA	\$ 12	122.36 \$	734.16	\$ 35.00	\$	210.00	\$ 25	25.00 \$	150.00	<del>S</del>	75.00	\$	450.00
502 6 6" Two-Wav Fire Hydrant	19	EA	\$ 27	278.08	5,283.52	\$ 1,100.00	\$ 0	20,900.00	\$ 350	350.00 \$	6,650.00	ક્ક	200.00	\$ 3,8	3,800.00
503 6 6" Three-Way Fire Hydrant	2	EA	\$ 27	278.08 \$	556.16	\$ 1,100.00	8	2,200.00	35(	350.00   \$	700.00	\$	250.00 \$	\$ 5	500.00
506 6" M.I Gate Valve	28	EA	\$ 15	155.72 \$	3 4,360.16	\$ 275.00	& O	7,700.00	)6 \$	90.00	\$ 2,520.00	ક્ક	150.00	\$ 4,2	4,200.00
506 22 6" 22 Degree M.I Bend	23		\$ 13	133.48 \$		\$ 75.00	\$ 0	1,725.00	\$ 50	50.00	\$ 1,150.00	<del>\$</del>	75.00	\$ 1,7	1,725.00
506 45 6" 45 Degree M.I Bend	12	EA	\$ 13	├	\$ 1,601.76	\$ 75.00	\$	900.00	\$ 20	50.00	\$ 600.00	\$	75.00	8	900.00
506 66 6" X 6" M.J Tee	2	EA	\$ 13	133.48 \$	934.36	\$ 75.00	<b>€</b>	525.00	)5 \$	50.00	\$ 350.00	ક્ક	100.00	2 2	700.00
506.96" 90 Degree MJ Bend	5	EA	\$ 13	<b>├</b> ─	\$ 667.40	\$ 75.00	<b>₽</b>	375.00	\$ 20	50.00	\$ 250.00	\$	75.00 {	3	375.00
518 6 8" X 6" Tanning Tee and Gate Valve	-	EA	\$ 83	834.24	\$ 834.24	\$ 1,600.00	\$	1,600.00	\$ 20(	500.00	\$ 500.00	ક્ક	2,000.00	\$ 2,0	2,000.00
566 66 6" X 6" M.I Cross	-	EA	\$ 15	155.72	\$ 155.72	\$ 99.00	& O	00.66	\$ 100	100.00	\$ 100.00	ક	100.00	\$	100.00
600 1 Clearing and Grubbing	-	EA	\$ 8,89	898.56	\$ 8,898.56	\$ 30,000.00	\$ 0	30,000.00	\$ 14,000.00		\$ 14,000.00	ઝ	7,000.00	\$ 7,0	7,000.00
600.2 Landscape and Reseeding	~	EA	\$ 31,14	,144.96	\$ 31,144.96	\$ 16,000.00	\$	16,000.00	\$ 10,000.00	-	\$ 10,000.00	ક્ર	27,652.00	\$ 27,6	27,652.00
TOTAL BID			ક્ક		285,265.01	€		255,094.75	↔		237,557.50	\$		286,5	286,587.57

I hereby certify that the figures above accurately represent the bids received on September 16, 2004 at 2:00 pm.



## West McCracken County Water District - 2004 Water Main Expansion Project

### Contract "C"

## **BID TABULATION**

															-	Dinin's	Contract	2000
			Burgess	Burgess and Associates	ates	H&GC	G Construction	M	Murtco, Inc.		Terry Land D	Terry Land Development, Inc.	Tilford	Tilford Contractors	<b>5</b> 215	Gregory riping contractors,	2	·
TEM NO DESCRIPTION	OUANTITY	INI	UNIT COS	UNIT COST TOTAL COST		UNIT COST	TOTAL COST	UNIT COST		TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	$\vdash$	UNIT COST	TOTAL COST	COST
יום טאס יום יום	102201	4	\$	4 00   \$ 41 080 00		3.80		3.65	s	37,485.50	\$ 4.50	\$ 46,215.00	\$ 4.26	3 \$ 43,750.20	\$ 02	3.50	\$ 35,94	35,945.00
200 6 R. Ductile Iron Pipe	70	1 4		4.23 \$ 2	┿		69	+	8	675.50	\$ 6.00	\$ 420.00	\$ 30.00	3 \$ 2,100.00	\$ 00	30.00	\$ 2,1	2,100.00
300 12 12" Steel Encasement	135	۳	7	69	╄—	\$ 55.00	\$ 7	5 54.00	\$	7,290.00	\$ 50.00	\$ 6,750.00	\$ 75.00	0 \$ 10,125.00	30 \$	50.00	\$ 6,7	6,750.00
400 Gravel Driveway Repair in Kind	439	ı		8	┼	\$ 12.00	\$ 5,268.00	5.80	\$	2,546.20	\$ 10.00	\$ 4,390.00	\$ 10.00	0 \$ 4,390.00	\$ 00	2.00	8	878.00
400 06 6" Bore and Jack	53	4		İ	2.650.00	\$ 25.00	\$ 1,325.00	35.00	8	1,855.00	\$ 35.00	\$ 1,855.00	\$ 50.00	3 \$ 2,650.00	\$	35.00	1,8	.855.00
400 18 Concrete Encasement	40	ш		<del>()</del>	┼	\$ 20.00	\$ 800.00	18.50	8	740.00	\$ 25.00	\$ 1,000.00	\$ 18.00	20.00	\$ 00	_		500.00
500 Test Point Connection	2	EA		ક્ક	+	\$ 520.00	\$ 1,040.00	610.00	8	1,220.00	\$ 250.00	\$ 500.00	\$ 150.00	00.008 \$ 0	\$	200.00	\$	400.00
502 6 6" Two-Way Fire Hydrant	4	FA		-	+	\$ 1.100.00	\$ 4,400.00	395.00	8	1,580.00	\$ 350.00	\$ 1,400.00	\$ 200.00	00.008 \$ 0	\$ 00	00.009	\$ 2,4	2,400.00
506 6" M I Gate Valve	7	Ā		65	+	27	\$ 1,925.00	95.00	8	665.00	\$ 90.00	\$ 630.00	\$ 150.00	0 \$ 1,050.00	\$ 00	150.00	1,0	020.00
506 11 6" 11 25 Degree M   Bend	4	ΕĀ	\$ 133		533.92	\$ 75.00	\$ 300.00	0 \$ 45.00	89	180.00	00'06 \$	360.00	\$ 75.00	00.008 \$ 0	\$ 00	125.00	\$	500.00
506 22 6" 22 5 Degree M   Bond	7	ΔH			+		65	3 45.00	8	315.00	\$ 90.00	\$ 630.00	\$ 75.00	0 \$ 525.00	\$ 00	125.00	\$	875.00
500.22 0 22.3 Degree wa perio	. 07	Ā		65	┿	1	69	69	8	135.00	00.06 \$	\$ 270.00	\$ 75.00	0 \$ 225.00	\$ 00	125.00	8	375.00
506 66 16" X 6" M.1 Tee		EA		s	╁		\$	00.58 \$ 00	8	85.00	\$ 110.00	\$ 110.00	\$ 100.00	0 \$ 100.00	\$ 00			225.00
506.9 6" 90 Degree MJ Bend	3	EA	\$ 133.48		400.44	\$ 75.00	\$ 225.00	3 \$ 45.00	\$	135.00	\$ 90.00	\$ 270.00	\$ 75.00	0 \$ 225.00	+	+		375.00
516.6 6" X 6" Tapping Tee and Gate Valve	2	EA	\$ 834.24	εs	1,668.48	\$ 1,600.00	\$ 3,200.00	0 \$ 1,175.00	8	2,350.00	\$ 500.00	\$ 1,000.00	\$ 1,800.00	0 \$ 3,600.00	s	+	3,0	00000
600 1 Clearing and Grubbing	-	EA	\$ 4,449	4,449.28 \$ 4,4	4,449.28	\$ 8,500.00	\$ 8,500.00	0 \$ 14,020.80	\$	14,020.80	\$ 10,000.00	\$ 10,000.00	89	es es	<del>cs</del>	6,500.00	\$ 6,5	6,500.00
600.2 Landscape and Reseeding	-	EA	\$ 8,626.04	es	8,626.04	\$ 4,000.00	\$ 4,000.00	0 \$ 20,385.00	\$ 0	20,385.00	\$ 7,000.00	\$ 7,000.00	\$ 7,702.50	0 \$ 7,702.50	s,	5,500.00	\$ 5,5	5,500.00
TOTAL BID			s	80,5	80,553.37	8	78,661.50	\$ 0		91,663.00	€9	82,800.00	s	84,242.70	\$ 0.2		68,2	68,228.00

I hereby certify that the figures above accurately represent the bids received on September 16, 2004 at 2:00 pm.



### West McCracken County Water Distri BID TABULAT

### **Materials**

			orises, Inc.				es Co. Inc.	
ITEM NO.	DESCRIPTION	QUA TO	OTAL COST		UI	NIT COST	 TAL COST	
100.1	10" PVC SDR 21 Water Line	\$	73,584.30		\$	6.17	\$ 74,428.71	
100.6	6" PVC SDR 21 Water Line	\$	177,428.82		\$	2.46	\$ 182,625.48	
200.6	6" Ductile Iron Pipe	\$	3,366.00		\$	7.70	\$ 3,141.60	
300.12	12" Steel Encasement	\$	18,547.60		\$	13.42	\$ 13,983.64	
300.18	18" Steel Encasement	\$	6,849.90		\$	22.10	\$ 5,967.00	
500	Test Point Connection	\$	3,524.22		\$	236.00	\$ 3,304.00	
500.6	6" MJ Cap	\$	356.88		\$	28.24	\$ 225.92	
502.6	6" Two-Way Fire Hydrant	\$	40,114.93	3	\$	1,320.00	\$ 40,920.00	3
	10" Three-Way Fire Hydrant	\$	9,047.64	3	\$	1,440.00	\$ 8,640.00	3
503.6	6" Three-Way Fire Hydrant	\$	9,631.37	3	\$	1,420.00	\$ 9,940.00	3
501.6	6" Post Hydrant	\$	1,294.03	3	\$	750.00	\$ 750.00	3
506	6" MJ Gate Valve	\$	17,350.56		\$	320.00	\$ 15,360.00	
506.11	6" 11.25 Degree MJ Bend	\$	463.35		\$	78.00	\$ 390.00	
506.22	6" 22.5 Degree MJ Bend	\$	3,984.81		\$	78.00	\$ 3,354.00	
506.45	6" 45 Degree MJ Bend	\$	1,928.01		\$	78.00	\$ 1,638.00	
506.66	6" X 6" MJ Tee	\$	1,394.40		\$	117.59	\$ 1,175.90	
506.9	6" 90 Degree MJ Bend	\$	872.91		\$	82.64	\$ 743.76	
508.1	10" X 8" Reducer	\$	152.53		\$	145.10	\$ 145.10	
510	10" MJ Gate Valve	\$	3,226.40		\$	685.00	\$ 2,740.00	
510.1	10" X 10" MJ Tee	\$	315.02		\$	300.28	\$ 300.28	
510.6	10" X 6" MJ Tee	\$	261.24		\$	244.40	\$ 244.40	
510.66	10" X 6" Tapping Tee and Gate Valve	\$	767.98		\$	630.00	\$ 630.00	
	6" X 6" Tapping Tee and Gate Valve	\$	3,001.04		\$	610.00	\$ 2,440.00	
	8" X 6" Tapping Tee and Gate Valve	\$	1,505.62		\$	615.00	\$ 1,230.00	
	6" X 6" MJ Cross	\$	394.00		\$	169.00	\$ 338.00	
	Items not in conformance with Bid Form							
	TOTAL BID		379,363.56		\$		374,655.79	

- 1. Items Not Bid, or incomplete
- 2. Correction made to quantity bid
- 3. Fire Hydrants not in compliance with specifica
- 4. Bid was not submitted on bid form, all appurta
- 5. Fire Hydrants not bid
- 6. Incorrect quantity Bid
- 7. Items bid appears imcomplete as gate valves

### Material Quantities Contract "A"

### Magruder Road, Woodville Road and Mayfield-Metropolis Road

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
100.1	10" PVC SDR 21 Water Line	8951	LF	\$6.21	\$55,585.71
100.6	6" PVC SDR 21 Water Line	9217	LF	\$2.34	
200.6	Ductile Iron Pipe	35	LF	\$7.50	\$262.50
300.12	12" Steel Encasement	40	LF	\$15.40	
300.18	18" Steel Encasement	160	LF	\$22.60	
500	Test Point Connection	2	EA	\$68.00	
500.1	10" MJ Cap	1	EA	\$46.21	\$46.21
500.6	6" MJ Cap	1	EA	\$46.21	\$46.21
502.6	6" Two-Way Fire Hydrant	31	EA	\$1,465.00	\$4,395.00
503.10	10" Three-Way Fire Hydrant	5	EA	\$1,680.00	\$8,400.00
503.6	6" Three-Way Fire Hydrant	3	EA	\$1,575.00	\$4,725.00
506	6" MJ Gate Valve	3	EA	\$336.72	\$1,010.16
506.22	6" 22.5 Degree MJ Bend	4	EA	\$95.39	
506.45	6" 45 Degree MJ Bend	1	EA	\$94.48	\$94.48
506.66	6" X 6" MJ Tee	1	EA	\$143.00	
508.1	10" X 8" Reducer	1	EA	\$168.48	
510	10" MJ Gate Valve	4	EA	\$782.50	
510.1	10" X 10" MJ Tee	1	EA	\$340.44	\$340.44
510.6	10" X 6" MJ Tee	1	EA	\$284.99	\$284.99
516.6	6" X 6" Tapping Tee and Gate Valve	1	EA	\$853.00	\$853.00

Grand Total Materials Contract "A"	\$105,802.52

### Material Quantities Contract "B"

### West Airport Road, Childress and Gholson Roads, 36,870 L.F. 6" P.V.C

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
100.6	6" PVC SDR 21 Water Line	36,870	LF	\$2.34	\$86,275.80
200.6	6" Ductile Iron Pipe	243	LF	\$7.50	
300.12	12" Steel Encasement	527	LF	\$15.40	\$8,115.80
500	Test Point Connection	8	EA	\$68.00	\$544.00
500.6	6" MJ Cap	6	EA	\$46.21	\$277.26
502.6	6" Two-Way Fire Hydrant	19	EA	\$1,465.00	\$27,835.00
503.6	6" Three-Way Fire Hydrant	2	EA	\$1,575.00	
506	6" MJ Gate Valve	28	EA	\$336.72	\$9,428.16
506.22	6" 22.5 Degree MJ Bend	23	EA	\$95.39	
506.45	6" 45 Degree MJ Bend	12	EA	\$94.48	\$1,133.76
506.66	6" X 6" MJ Tee	7	EA	\$143.00	
506.9	6" 90 Degree MJ Bend	5	EA	\$99.90	\$499.50
518.6	8" X 6" Tapping Tee and Gate Valve	1	EA	\$940.00	\$940.00
566.66	6" X 6" MJ Cross	1	EA	\$203.66	\$203.66

Carried Total Materials Contract UDU		
Grand Total Materials Contract "B" \$143,420.	als Contract "B" \$143,420	41

### Material Quantities Contract "C"

### Biggs Road and Bob Harris Road,

10,270 L.F. 6" P.V.C.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
100.6	6" PVC SDR 21 Water Line	10,270	LF	\$2.34	\$24,031.80
200.6	6" Ductile Iron Pipe	70	LF	\$7.50	\$525.00
300.12	12" Steel Encasement	135	F	\$15.40	\$2,079.00
500	Test Point Connection	2	EA	\$68.00	\$136.00
	6" Two-Way Fire Hydrant	4	EA	\$1,465.00	\$5,860.00
506	6" MJ Gate Valve	7	EA	\$336.72	\$2,357.04
506.11	6" 11.25 Degree MJ Bend	4	EA	\$95.39	\$381.56
506.22	6" 22.5 Degree MJ Bend	7	EA	\$95.39	\$667.73
506.45	6" 45 Degree MJ Bend	3	EA	\$94.48	\$283.44
506.66	6" X 6" MJ Tee	1	EA	\$143.00	\$143.00
	6" 90 Degree MJ Bend	3	EA	\$99.90	\$299.70
516.6	6" X 6" Tapping Tee and Gate Valve	2	EA	\$853.00	\$1,706.00

Grand Total Contract "C"	" Materials	\$38,470.27



### WEST McCRACKEN COUNTY WATER DISTRICT

### **RATE ANALYSIS**

### PREPARED BY



### Introduction

The Kentucky Rural Water Association has prepared the following rate review for the West McCracken County Water District ("West McCracken"). KRWA would like to thank the staff of West McCracken for their assistance in the preparation of this analysis. All records need for this analysis were provided and it is obvious that the Staff is extremely knowledgeable and dedicated to maintaining West McCracken's reputation as an outstanding utility.

West McCracken intends to borrow funds to pay for 7 water projects and requested a review of its revenue and expenses to determine if a rate increase was necessary to cover the debt on the proposed projects. This analysis determined that if West McCracken uses a portion of its depreciation fund to pay the debt associated with the projects, it can avoid an increase in rates at this time.

The expenses and revenue for this analysis was based on year ending 2003. Adjustments have been made for both the revenue to be received and the anticipated expenses associated with serving the additional customers on the extensions. Only applicants that have petitioned West McCracken for water service was included in the calculations. It is anticipated that additional applications will be received once the construction is underway or completed however, to insure that revenue will cover expenses only those individuals who have actually petitioned the district for service were included.

### Operating Revenue

Page 6 contains a billing analysis showing actual revenue received during 2003. West McCracken sold 175,623,000 gallons and collected a total of \$668,772 in revenue from water sales.

Page 7 shows the same analysis with adjustments for the new customers to be added as a result of the extensions. A total of 226 potential customers could be provided with water as a result of the extension. Of those 226 homes, 97 have actually petitioned West McCracken for water service. This number has been used to calculate the revenue to be received after construction. The gallons sold have been adjusted from 175,623,000 to 180,861,000 to reflect additional water usage. It was assumed that all new customers would be served by a 5/8-inch connection. The number of bills for the 5/8-inch connection has been increased from 14,955 to 16,119. (97 new customers time 12 bills = 1,164). Based on the adjustment for new customers revenue from water sales will be \$697,081.

### **Operating Expenses**

Pages 8 and 9 shows actual operating income and expenses for West McCracken along with adjustments for budgeted expenses. This sheet has been designed in the same format as West McCracken's 2004 approved budget for comparison purposes. Page 10 contains an explanation of each adjustment by line item.

Operating income has been adjusted to reflect the additional customers as shown on lines 1 and 10. Utility tax and tap on fee revenues have also been

increased to reflect the new customers. Additionally, as shown in the budget, tower income of \$60,000 has been eliminated for 2004. Based on the aforementioned adjustments, operating income will increase from \$792,492 to \$796,643 and increase of \$4,151.

Most of the adjustments made to test year operating expenses were made in the 2004 approved budget. The following adjustments were not made in the budget and are a result of the new construction project.

Lines 16 and 17 show the current bond interest payment of \$7,640 and principal payment of \$36,000. These items have been eliminated from proposed expenses since West McCracken proposes to refund the bond with the new debt issuance.

Line 18 reflects the additional expense involved with connecting service to the new customers. This amount is the same amount reflected as income on Line 9.

Purchased water expense has been increased to reflect the sale of water to the new customers at the current wholesale rate paid by West McCracken. The purchased water expense of \$242,353 does not reflect the anticipated increase in the wholesale rate paid by West McCracken to its supplier. If this increase occurs, Mr. Tanner plans to file a purchased water adjustment to recover the increase in purchased water expense. Meter reading has been increase to reflect the cost associated with reading the meters of the new customers.

Based on total expenses shown on Line 58 less total revenue shown on Line 59, West McCracken will have a net loss of \$29,819. It should be noted that expenses include \$45,000 in capitalized expense, \$18,000 in the depreciation sinking fund and \$131,277 in depreciation expense.

The annual debt payments have been calculated based on a loan for a period of 20 years at an interest rate of 4.10 percent. While the interest rate may be somewhat lower this amount was used to insure that expenses would be covered. The amount to be borrowed was also calculated based on West McCracken receiving \$200,000 in tobacco settlement funds and based on not receiving the funding. The amount to be borrowed was determined as follows:

Description	Estimated Cost
West Airport, US 60, Steele Road	\$200,000
US 60, Bethel Church, Kevil Interconnection	100,000
Woodville & Magruder Roads	150,000
Childress, Gholson Roads	125,000
Bobo Road	40,000
Biggs and Bob Harris Roads	80,000
Mayfield-Metropolis Road	95,000
Old Debt Refunding	100,000
Total without tobacco settlement funds	\$890,000
Total with tobacco settlement funds	\$690,000

Page 11 shows the annual debt payment based on borrowing \$690,000 while Page 12 shows the annual debt payment based on borrowing \$890,000. These amounts are also shown on Page 9 at Lines 59 and 60.

Assuming West McCracken borrows the higher amount of \$890,000, the amount placed in its current depreciation fund would change as follows:

Income and Expenses	Current	With \$890,000 Debt
Income	\$792,492	\$796,643
Less Expenses:		
Operation and Maintenance	\$681,634	\$695,185
Debt Principal and Interest	43,640	65,283
Total Income Less Expenses	67,198	101,458
Amount Available for Depreciation	\$67,218	\$36,175

Based on the \$36,175 available for funding depreciation, \$45,000 budgeted for capital improvements and \$18,000 budgeted to be placed into the depreciation sinking fund, West McCracken can complete these extensions without an increase in water rates. West McCracken should carefully monitor its income and expenses to ensure the accuracy of these projections and to determine when a future rate increase is necessary.

WEST McCRAC	KEN COUNTY WATE	ER DISTRICT	
BILLING ANALYSIS	FOR YEAR ENDED	DECEMBER 2003	
	Sales	Rate	Revenue
First 100,000	71,188.3	3.12	\$222,107
Over 100,000	104,434.7	2.31	241,244
Total Sales	175,623.0		\$463,352
Minimum Rates	Bills	Rate	Revenue
5/8 Inch	14,955	8.39	\$125,472
1 Inch	24	19.63	471
2 Inch	36	28.06	1,010
3 Inch	24	47.73	1,146
4 Inch	24	75.83	1,820
Total			\$129,919
Surcharge	175,623.0	0.42	\$73,762
Fire Department	12	25	300
Sprinkler	36	40	1,440
Total Revenue From Sales			\$668,772

WEST McCRAC	KEN COUNTY WATER DI	STRICT					
BILLING ANALYSIS FOR YEAR ENDED DECEMBER 2003							
INCLUDES NEW CUSTOMERS							
	Sales	Rate	Revenue				
First 100,000	76,426.3	\$3.12	\$238,450				
	104,434.7	2.31	241,244				
Over 100,000	104,454.7	2.01	A. 11 1 1 1 1 1				
Total Sales	180,861.0		\$479,694				
Minimum Rates	Bills	Rate	Revenue				
5/8 Inch	16,119	\$8.39	\$135,238				
1 Inch	24	19.63	471				
2 Inch	36	28.06	1,010				
3 Inch	24	47.73	1,146				
4 Inch	24	75.83	1,820				
T IIIOI		***************************************					
Total			\$139,685				
Surcharge	180,861.0	\$0.42	\$75,962				
Fire Department	12	25	300				
Sprinkler	36	40	1,440				
Total Revenue From Sales			\$697,081				
		d:					
For the new projects the following numb	er of new customers were	Number					
Project	Potential Customers	Petitioned					
West Airport, US 60, Steele Road	77	35					
US 60, Bethel Church	25	12					
Woodville and Magruder Roads	40	20					
Childress and Gholson Roads	30	10					
Bobo Road	20	8					
Biggs and Harris Roads	30	12					
Mayfield-Metropolis	4						
Total	226	97					
97 new customers times 12 bills equals	1,164 bills						
Assumes average usage per month of 4	,500 gallons equals 5,238,	000					

### West McCracken County Water District

### 2003 Income and Revenue Statement

	Includes New Projects	2003 Actual	Adjustments	Recommended 2004
	Operating Income	593,271	26,108	619,379
	Water Sales	300	20,100	300
	Fire Service Charge		•	7,761
	Penalties	7,761		6,000
	Other	6,000		
	Interest	2,000		2,000
	Sewer	13,100	700	13,100
	Utility Tax	17,798	783	18,581
	Sales Tax	7,000	05.000	7,000
	Tap on Fees	11,500	35,060	46,560
	Surcharge	73,762	2,200	75,962
11	Tower	60,000	(60,000)	
	Total Revenue	792,492	4,151	796,643
12	General Operating Expenses			
13	JoAnn Estates Utilities	11,600	190	11,790
14	KY Sales Tax	6,900		6,900
15	School Tax	18,000		18,000
16	Bond Interest	7,640	(7,640)	_
17	Bond Principal	36,000	(36,000)	
18	Service Connections	11,500	35,060	46,560
19	Capitalized Expenses	25,000	20,000	45,000
20	Tower Painting	70,000	(70,000)	<b>***</b>
21	Deprec Sinking Fund		18,000	18,000
22	Loan Payment	73,762	2,200	75,962
23	Subtotal General Expenses	260,402	(38,380)	222,212
24	Operation and Maintenance			
	Salaries and Wages			
	Operation and Maintenance	37,229		37,229
	Customer Accounts	37,853		37,853
	Administrative and General	42,008		42,008
	Pensions and Benefits	8,466		8,466
	Purchased Water	234,915	7,438	242,353
	Pumping	4,227		4,227
	Chemicals	395		395
	Materials and Supplies - Maintenance	900		900
	Materials and Supplies - Customer	12,101		12,101
	Materials and Supplies - Adm. & Gen.	3,207		3,207

36	Audit		4,200			4,200
	Training		1,877			1,877
	Legal		243			243
	Analysis and Testing		1,111			1,111
	Monitoring Fees		325			325
	Meter Testing		235			235
	Meter Reading		9,685		663	10,349
	Transportation		4,827			4,827
	Insurance - General Liability		8,120			8,120
	Insurance - Workmans Comp		2,995			2,995
46	Insurance - Health		16,594			16,594
	Advertising		996			996
	Bad Debt		3,690			3,690
	Miscellaneous		1,129			1,129
50	Communication		1,707			1,707
51	Meters, Services, Mains & Hydrants		10,138			10,138
	Tower, Telemetry and Pumps		205			205
	Utilities		5,763			5,763
54	Taxes other than Income		9,732			9,732
56	Depreciation		131,277			131,277
57	Subtotal Operation and Maintenance		596,149		8,101	604,250
58	Total Expenses	\$	856,551	\$	(30,089)	\$ 826,462
59	Total Revenue		792,492			796,643
	Net Income	\$	(64,059)			\$ (29,819)
	Debt Payments:					
59	Annual Debt for New Projects if \$890,000 is bor	rowed.				65,283
	Annual Debt for New Projects if \$690,000 is bor	rowed	and \$200,0	)00 is fu	unded with	
60	tobacco settlement funds.	1				50,612
	Summary	Debt o	of 890,000	Debt o	of 690,000	
	Cuminary					
	Total Income	\$	796,643	\$	796,643	
	Less Operation and Maintenance Expense		695,185		695,185	
	Less Debt		65,283		50,612	
	Total Income Less Expenses	\$	36,175	\$	50,846	 
	Amount to Fund Depreciation	\$	36,175	\$	50,846	

	West McCracken County Water District
	2003 Actual Expenses and Revenue
	Adjusted for Proposed Projects and New Customers
4	Water sales have been increased to reflect additional revenue from 97 new customers.
	12 bills at \$25 per bill 2003 late payment penalties
	Service charges, reconnect fees and other miscellaneous income
	Interest received on bank accounts
	Sewer charges collected for Timberland Subdivision
	3% school tax on estimated volume to be sold
	6% state sales tax on commercial and industrial sales
	Tap on fees based on 97 taps x \$480 = \$46,560
	Surcharge \$0.42 x 180,861 = \$75,962
	Eliminate tower revenue of \$60,000
	Operating expenses
	Sewer fees less 10 percent
	State sales tax less 1.75% as District's fee.
	School tax
	Eliminated current bond interest due to refinancing
	Eliminated bond principal due to refinancing
	Cost for new connections as shown in Note 9.
19	Expenses budgeted - building exterior at \$20,000, \$5,000 developer payback, \$10,000 truck down payment and \$10,000 sampling points, flushing points, and storage building.
20	Eliminated tower painting expense
21	\$1,500 per month into depreciation sinking fund for painting towers.
22	Surcharge receipts for tower loan, see note 10.
23	Subtotal general expense
24-29	2003 actual expenses
30	Increase purchased water expense to reflect additional customers
31-41	2003 actual expenses
42	Adjustment to reflect increase in meter reading - 97 customers x \$0.57 x 12
43-56	2003 actual expenses
57	Subtotal operation and maintenance
58	Total expenses - operation and maintenance plus general operating expense
59	Total revenue
60	Net Income

### Loan Amortization

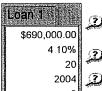






### Inputs

Loan Principal Amount Annual Interest Rate Loan Period in Years Base Year of Loan Base Month of Loan





Annual Loan Payments \$50,612.52 Monthly Payments \$4,217.71 Interest in First Calendar Year \$9,391.78 \$322,250.40 Interest Over Term of Loan \$1,012,250.40 Sum of All Payments

		Balence	Payments	Prive.	Int.			
	Sep	\$690,000.00	\$4,217.71	\$1,860.21	\$2,357.50	\$1,860.21	\$2,357.50	\$688,139.79
	Oct	\$688,139.79	\$4,217.71	\$1,866.57	\$2,351.14	\$3,726.78	\$4,708.64	\$686,273.22
	Nov	\$686,273.22	\$4,217.71	\$1,872.94	\$2,344.77	\$5,599.72	\$7,053.41	\$684,400.28
	Dec	\$684,400.28	\$4,217.71	\$1,879.34	\$2,338.37	\$7,479.06	\$9,391.78	\$682,520.94
2005	Jan	\$682,520.94	\$4,217.71	\$1,885.76	\$2,331.95	\$9,364.82	\$11,723.73	\$680,635.18
	Feb	\$680,635.18	\$4,217.71	\$1,892.21	\$2,325.50	\$11,257.03	\$14,049.23	\$678,742.97
	Mar	\$678,742.97	\$4,217.71	\$1,898.67	\$2,319.04	\$13,155.70	\$16,368.27	\$676,844.30
	Apr	\$676,844.30	\$4,217.71	\$1,905.16	\$2,312.55	\$15,060.86	\$18,680.82	\$674,939.14
	May	\$674,939.14	\$4,217.71	\$1,911.67	\$2,306.04	\$16,972.53	\$20,986.86	\$673,027.47
	Jun	\$673,027.47	\$4,217.71	\$1,918.20	\$2,299.51	\$18,890.73	\$23,286.37	\$671,109.27
	Jul	\$671,109.27	\$4,217.71	\$1,924.75	\$2,292.96	\$20,815.48	\$25,579.33	\$669,184.52
	Aug	\$669,184.52	\$4,217.71	\$1,931.33	\$2,286.38	\$22,746.81	\$27,865.71	\$667,253.19
	2005	\$682,520.94	\$50,612.52	\$23,059.62	\$27,552.90	\$30,538.68	\$36,944.68	\$659,461.32
	2006	\$659,461.32	\$50,612.52	\$24,022.70	\$26,589.82	\$54,561.38	\$63,534.50	\$635,438.62
	2007	\$635,438.62	\$50,612.52	\$25,026.35	\$25,586.17	\$79,587.73	\$89,120.67	\$610,412.27
	2008	\$610,412.27	\$50,612.52	\$26,071.93	\$24,540.59	\$105,659.66	\$113,661.26	\$584,340.34
	2009	\$584,340.34	\$50,612.52	\$27,161.20	\$23,451.32	\$132,820.86	\$137,112.58	\$557,179.14
	2010	\$557,179.14	\$50,612.52	\$28,295.97	\$22,316.55	\$161,116.83	\$159,429.13	\$528,883.17
	2011	\$528,883.17	\$50,612.52	\$29,478.16	\$21,134.36	\$190,594.99	\$180,563.49	\$499,405.01
	2012	\$499,405.01	\$50,612.52	\$30,709.74	\$19,902.78	\$221,304.73	\$200,466.27	\$468,695.27
	2013	\$468,695.27	\$50,612.52	\$31,992.77	\$18,619.75	\$253,297.50	\$219,086.02	\$436,702.50
	2014	\$436,702.50	\$50,612.52	\$33,329.40	\$17,283.12	\$286,626.90	\$236,369.14	\$403,373.10
	2015	\$403,373.10	\$50,612.52	\$34,721.88	\$15,890.64	\$321,348.79	\$252,259.77	\$368,651.21
	2016	\$368,651.21	\$50,612.52	\$36,172.54	\$14,439.98	\$357,521.32	\$266,699.76	\$332,478.68
	2017	\$332,478.68	\$50,612.52	\$37,683.80	\$12,928.72	\$395,205.13	\$279,628.47	\$294,794.87
	2018	\$294,794.87	\$50,612.52	\$39,258.21	\$11,354.31	\$434,463.33	\$290,982.79	\$255,536.67
	2019	\$255,536.67	\$50,612.52	\$40,898.39	\$9,714.13	\$475,361.72	\$300,696.92	\$214,638.28
	2020	\$214,638.28	\$50,612.52	\$42,607.09	\$8,005.43	\$517,968.81	\$308,702.35	\$172,031.19
	2021	\$172,031.19	\$50,612.52	\$44,387.19	\$6,225.33	\$562,356.00	\$314,927.68	\$127,644.00
	2022	\$127,644.00	\$50,612.52	\$46,241.65	\$4,370.87	\$608,597.65	\$319,298.55	\$81,402.35
	2023	\$81,402.35	\$50,612.52	\$48,173.60	\$2,438.92	\$656,771.25	\$321,737.47	\$33,228.75
	2024	\$33,228.75	\$33,741.68	\$33,228.75	\$512.93	\$690,000.00	\$322,250.40	\$0.00

### Loan Amortization

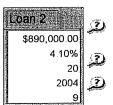






### Inputs

Loan Principal Amount Annual Interest Rate Loan Period in Years Base Year of Loan Base Month of Loan



Annual Loan Payments	\$65,282.88
Monthly Payments	\$5,440.24
Interest in First Calendar Year	\$12,114.04
Interest Over Term of Loan	\$415,657.60
Sum of All Payments	\$1,305,657.60

		0 1	$\cap$	Λ				
		Bulance	Payments	Prive.	Int.			
	Sep	\$890,000.00	\$5,440.24	\$2,399.41	\$3,040.83	\$2,399.41	\$3,040.83	\$887,600.59
	Oct	\$887,600.59	\$5,440.24	\$2,407.60	\$3,032.64	\$4,807.01	\$6,073.47	\$885,192.99
	Nov	\$885,192.99	\$5,440.24	\$2,415.83	\$3,024.41	\$7,222.84	\$9,097.88	\$882,777.16
	Dec	\$882,777.16	\$5,440.24	\$2,424.08	\$3,016.16	\$9,646.92	\$12,114.04	\$880,353.08
2005	Jan	\$880,353.08	\$5,440.24	\$2,432.37	\$3,007.87	\$12,079.29	\$15,121.91	\$877,920.71
	Feb	\$877,920.71	\$5,440.24	\$2,440.68	\$2,999.56	\$14,519.97	\$18,121.47	\$875,480.03
	Mar	\$875,480.03	\$5,440.24	\$2,449.02	\$2,991.22	\$16,968.99	\$21,112.69	\$873,031.01
	Apr	\$873,031.01	\$5,440.24	\$2,457.38	\$2,982.86	\$19,426.37	\$24,095.55	\$870,573.63
	May	\$870,573.63	\$5,440.24	\$2,465.78	\$2,974.46	\$21,892.15	\$27,070.01	\$868,107.85
	Jun	\$868,107.85	\$5,440.24	\$2,474.20	\$2,966.04	\$24,366.35	\$30,036.05	\$865,633.65
	Jul	\$865,633.65	\$5,440.24	\$2,482.66	\$2,957.58	\$26,849.01	\$32,993.63	\$863,150.99
	Aug	\$863,150.99	\$5,440.24	\$2,491.14	\$2,949.10	\$29,340.15	\$35,942.73	\$860,659.85
	0005	#000 OFO OO	#CF 202 00	<b>#10 740 70</b>	<b>#25 E40 46</b>	\$39,389.64	\$47,654.20	\$850,610.36
	2005	\$880,353.08	\$65,282.88	\$29,742.72	\$35,540.16	\$70,375.47	\$81,951.25	\$819,624.53
	2006	\$850,610.36	\$65,282.88	\$30,985.83	\$34,297.05 \$33,002.49	\$102,655.86	\$114,953.74	\$787,344.14
	2007	\$819,624.53	\$65,282.88	\$32,280.39	\$33,002.49 \$31,653.83	\$102,000.00	\$114,955.74 \$146,607.58	\$757,344.14 \$753,715.10
	2008	\$787,344.14	\$65,282.88	\$33,629.05	\$30,248.84	\$171,318.95	\$176,856.41	\$718,681.05
	2009	\$753,715.10	\$65,282.88	\$35,034.04	\$28,785.14	\$207,816.69	\$205,641.55	\$682,183.31
	2010	\$718,681.05	\$65,282.88	\$36,497.74		, ,	• •	\$644,160.72
	2011	\$682,183.31	\$65,282.88	\$38,022.59	\$27,260.29	\$245,839.28	\$232,901.84	\$604,549.57
	2012	\$644,160.72	\$65,282.88	\$39,611.15	\$25,671.73	\$285,450.43	\$258,573.57 \$282,590.37	\$563,283.49
	2013	\$604,549.57	\$65,282.88	\$41,266.08	\$24,016.80	\$326,716.51 \$369,706.65	\$202,590.37 \$304,883.11	\$520,293.35
	2014	\$563,283.49	\$65,282.88	\$42,990.14	\$22,292.74			\$475,507.11
	2015	\$520,293.35	\$65,282.88	\$44,786.24	\$20,496.64	\$414,492.89	\$325,379.75	\$428,849.73
	2016	\$475,507.11	\$65,282.88	\$46,657.38	\$18,625.50	\$461,150.27	\$344,005.25	\$380,243.04
	2017	\$428,849.73	\$65,282.88	\$48,606.69	\$16,676.19	\$509,756.96	\$360,681.44	
	2018	\$380,243.04	\$65,282.88	\$50,637.45	\$14,645.43	\$560,394.41	\$375,326.87	\$329,605.59
	2019	\$329,605.59	\$65,282.88	\$52,753.04	\$12,529.84	\$613,147.45	\$387,856.71	\$276,852.55
	2020	\$276,852.55	\$65,282.88	\$54,957.03	\$10,325.85	\$668,104.48	\$398,182.56	\$221,895.52
	2021	\$221,895.52	\$65,282.88	\$57,253.09	\$8,029.79	\$725,357.57	\$406,212.35	\$164,642.43
	2022	\$164,642.43	\$65,282.88	\$59,645.09	\$5,637.79	\$785,002.66	\$411,850.14	\$104,997.34
	2023	\$104,997.34	\$65,282.88	\$62,137.02	\$3,145.86	\$847,139.68	\$414,996.00	\$42,860.32
	2024	\$42,860.32	\$43,521.92	\$42,860.32	\$661.60	\$890,000.00	\$415,657.60	\$0.00



### WEST MCCRACKEN COUNTY WATER DISTRICT

FINANCIAL STATEMENTS
With Auditor's Report Thereon

YEARS ENDED DECEMBER 31, 2003 and 2002

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### INDEPENDENT AUDITOR'S REPORT

Board of Commissioners West McCracken County Water District West Paducah, Kentucky

We have audited the accompanying balance sheets of West McCracken County Water District as of December 31, 2003 and 2002, and the related statements of operations, fund equity, and cash flows for the years then ended. These financial statements are the responsibility of the District's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

As described in Note A, West McCracken County Water District prepares its financial statements on a prescribed regulatory basis of accounting that demonstrates compliance with the Public Service Commission accounting policies and procedures, which is a comprehensive basis of accounting other than accounting principles generally accepted in the United States of America.

In our opinion, because of West McCracken County Water District's requirement to prepare its financial statements on the basis of accounting discussed in the preceding paragraph, the financial statements referred to above do not present fairly, in conformity with accounting principles generally accepted in the United States of America, the financial position of West McCracken County Water District as of December 31, 2003 and 2002, or the results of its operations and its cash flows for the years then ended.

However, in our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of West McCracken County Water District as of December 31, 2003 and 2002, and the results of its operations and its cash flows for the years then ended in conformity with the basis of accounting described in Note A.

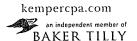
In accordance with Government Auditing Standards, we have also issued a report dated February 13, 2004 on our consideration of West McCracken County Water District's internal control over financial reporting and on our tests of its compliance with laws, regulations, contracts, and grants. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be read in conjunction with this report in considering the results of our audit.

Our audit was conducted for the purpose of forming an opinion on the financial statements taken as a whole. The supplemental schedule of insurance in force is presented for purposes of additional analysis and is not a required part of the financial statements of West McCracken County Water District. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and, in our opinion, is fairly stated in all material respects in relation to the financial statements taken as a whole.

Kemper CPA Group LLP

Kemper CPA Group LLP Paducah, Kentucky February 13, 2004

218 North 5th Street Paducah, KY 42001
Phone: (270)443-4400 Fax: (270)443-0963



504A Market Street ■ Metropolis, IL 62960 Phone: (618)524-4823 Fax: (618)524-4731

### WEST MCCRACKEN COUNTY WATER DISTRICT BALANCE SHEETS

### December 31, 2003 and 2002

	2003	2002
UTILITY PLANT		
Water system, at cost	\$ 4,973,961	\$ 4,841,192
Less accumulated depreciation	1,297,159	1,168,173
·	3,676,802	3,673,019
CURRENT ASSETS		
Cash	95,323	96,626
Accounts receivable, less allowance for doubtful		
accounts of \$13,739 and \$1,182, respectively	62,579	58,112
Prepaid expenses	8,145	5,748
Inventory, at cost	11,616	10,961
	177,663	171,447
OTHER PROPERTY AND INVESTMENTS		
Sinking funds	73,939	84,662
	\$ 3,928,404	\$ 3,929,128
LIABILITIES AND EQUITY		
FUND EQUITY		•
Customer advances for construction	37,700	42,875
Contributions in-aid-of-construction	3,330,699	3,246,594
Retained earnings	177,528	193,488
	3,545,927	3,482,957
LONG-TERM DEBT		
Bonds payable, non-current	\$ 118,000	\$ 155,000
Note payable – construction	133,073	180,172
	251,073	335,172
CURRENT LIABILITIES		
Accounts payable	34,877	20,354
Accrued interest payable	4,106	3,486
Bonds payable – current	37,000	36,000
Accrued and withheld payroll taxes	3,452	3,459
Notes payable – current	47,342	42,290
Other current liabilities	4,627	5,410
	131,404	110,999
	\$ 3,928,404	\$ 3,929,128

### WEST MCCRACKEN COUNTY WATER DISTRICT STATEMENT OF OPERATIONS

For the Years Ended December 31, 2003 and 2002

	2003	2002
OPERATING REVENUE		
Sales of water, net of refunds	\$ 583,713	\$ 587,216
Penalties	7,671	8,594
Service charge – fire department	300	300
Other	10,621	6,438
	602,305	602,548
OPERATING EXPENSES		
Depreciation expense	128,986	126,330
Utility regulation assessment fee	1,087	538
Salaries	117,091	118,326
Employee pension and benefits	18,988	17,622
Purchased water	234,915	229,937
Purchased power	4,227	5,382
Chemicals	395	397
Materials and supplies	16,208	17,039
Contractual services	15,799	18,363
Transportation expense	4,827	4,661
Insurance	27,709	22,956
Advertising	996	537
Bad debt expense	3,690	4,366
Miscellaneous	18,940	24,218
	593,858	590,672
OPERATING INCOME	8,447	11,876
NON-OPERATING REVENUES (EXPENSES)		
Interest income	1,806	2,643
Interest expense	(26,213)	(29,611)
Tap-on fees	10,663	13,920
Contributions from developers	0	1,250
Surcharges for capital projects	73,442	75,345
	59,698	63,547
NET INCOME	\$ 68,145	\$ 75,423

### WEST MCCRACKEN COUNTY WATER DISTRICT STATEMENTS OF FUND EQUITY

For the Years Ended December 31, 2003 and 2002

	A	ustomer dvances For istruction		ontribution In Aid Of onstruction	_	Retained Earnings	with the second second	Total
BALANCE AS OF DECEMBER 31, 2001	\$	46,270	\$	3,156,079	\$	208,580	\$	3,410,929
DECEMBER 31, 2001	Ψ	40,270	Ψ	3,130,073	Ψ	200,500	Ψ	3,710,525
Net Income		0		90,515		(15,092)		75,423
Refunds to subdividers		(3,395)		0		0		(3,395)
BALANCE AS OF								
<b>DECEMBER 31, 2002</b>	\$	42,875	\$	3,246,594	\$	193,488	\$	3,482,957
Net Income		0		84,105		(15,960)		68,145
Refunds to subdividers		(5,175)	***************************************	0	<u> </u>	0	<del></del>	(5,175)
BALANCE AS OF								
DECEMBER 31, 2003	\$	37,700	\$	3,330,699	\$	177,528	\$	3,545,927

### WEST MCCRACKEN COUNTY WATER DISTRICT STATEMENT OF CASH FLOWS

### For the Years Ended December 31, 2003 and 2002

	2003	2002
CASH FLOWS FROM OPERATING ACTIVITIES		
Operating income	\$ 8,447	\$ 11,876
Adjustments to reconcile net income to net cash	φ 0,447	Ψ 11,070
provided by operations:		
Depreciation	128,986	126,330
Changes in operating assets and liabilities:	120,700	120,550
Accounts receivable	(4,467)	(3,292)
Grant receivable	(4,407)	45,000
	(2.207)	
Prepaid expenses	(2,397)	(1,491)
Inventory	(655)	1,403
Accounts payable	14,523	(7,915)
Accrued interest payable	620	(2,590)
Accrued and withheld payroll taxes	(6)	(473)
Other current liabilities	(784)	(928)
NET CASH PROVIDED BY (USED IN)	14406	1 (7 000
OPERATING ACTIVITIES	144,267	167,920
CASH FLOWS FROM CAPITAL AND RELATED		
FINANCING ACTIVITES		
Additions to water system	(132,769)	(43,987)
Payment on bonds	(36,000)	(34,000)
Payment on bank borrowings	(42,047)	(84,540)
Interest payments on notes and bonds	(26,213)	(29,611)
Contributions in-aid-of-construction	73,442	76,595
Tap-ons fees collected	10,663	13,920
Repayment of advances	(5,175)	(3,395)
NET CASH PROVIDED BY (USED IN)		
CAPITAL AND RELATED FINANCING		
ACTIVITIES	(158,099)	(105,018)
CASH FLOWS FROM INVESTING ACTIVITIES		
Interest	1,806	2,643
NET CASH PROVIDED BY (USED IN)	1,000	2,043
INVESTING ACTIVITIES	1,806	2,643
NET INCREASE (DECREASE) IN CASH AND CASH		
,	(12.026)	CE E A E
EQUIVALENTS	(12,026)	65,545
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR	181,288	115,743
CASH AND CASH EQUIVALENTS, END OF YEAR	\$ 169,262	\$ 181,288

### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

### NOTE A - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

### **Entity**

The West McCracken County Water District is incorporated as a non-profit corporation formed under the provisions of Chapter 273 of the Kentucky Revised Statutes. The District began operations in 1968. The District provides water service to consumers in Western McCracken County, Kentucky. The District maintains its records in accordance with the Uniform System of Accounts prescribed by the Public Service Commission.

The financial statements of the District are prepared and presented in accordance with the regulatory accounting procedures established by the Public Service Commission (PSC). These accounting procedures and presentation differ from generally accepted accounting principles (GAAP) method of accounting for depreciation lives of utility plant assets as described below and presentation of balance sheet liquidity.

The District applies all relevant Governmental Accounting Standards Board (GASB) pronouncements along with those of the Financial Accounting Standards Board (FASB) pronouncements and the Accounting Principles Board (APB) opinions unless they conflict with or contradict PSC procedures, in which case, PSC prevails.

### **Property, Plant and Equipment**

Property and equipment are recorded at cost with depreciation provided by the straight-line method over the estimated useful life of the depreciable property. Estimated useful lives are generally those established by the Public Service Commission of the Commonwealth of Kentucky.

### Accounting Method

The District accounts for its financial activities using the accrual method of accounting, utilizing the chart of accounts established by the Kentucky Public Service Commission.

### Receivables and Credit Policies

Accounts receivable are uncollateralized customer obligations due under normal trade terms requiring payment within 15 days from the invoice date. Unpaid accounts receivable with invoice mailing dates over 15 days old are subject to a 10% penalty on the outstanding balance. Customers are subject to disconnection after 20 days past invoice date. Reconnections are subject to reconnect fees. Due to the uncertainty regarding collection, reconnect fees are recognized as income when received.

Accounts receivable are stated at amounts billed to the customer plus any accrued penalties. Customer account balances with invoices dated over 90 days old are considered delinquent.

Payments of accounts receivable are allocated to the specific invoices identified on the customer's remittance advice or, if unspecified, are applied to the earliest unpaid invoices.

The carrying amounts of accounts receivable is reduced by an allowance that reflects management's best estimate of the amounts that will not be collected. Management individually reviews accounts receivable balances that exceed 90 days from invoice date and based on an assessment of current credit worthiness, estimates the portion of, if any, of the balance that will not be collected. Additionally, for the remaining aggregate accounts, management establishes a general allowance based on historical averages.

### **Inventory**

Inventory is stated at the lower of cost, on a first-in, first-out basis, or market.

### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

### NOTE A - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

### Revenue

Revenue is based on rates approved by the Kentucky Public Service Commission (PSC).

### Non-Operating Revenue

In accordance with Governmental Accounting Standards Board Statement No. 33, effective for financial statement years beginning after June 15, 2000, the System recognizes contributions in aid of construction from tap-on fees, contributions from developers, and unrestricted grants from governmental units as non-operating contributed capital revenue.

### **Use of Estimates**

The preparation of financial statements in conformity with regulatory accounting procedures requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

### **Advertising**

The District expenses advertising costs as they are incurred. Expenses mainly relate to advertising in local directories and requests for invitations to bid on contractual agreements.

### NOTE B - UTILITY PLANT IN SERVICE

The major classifications and related costs of utility plant assets at December 31 are as follows:

	2003	2002
Pumping plant equipment	\$ 30,203	\$ 30,203
Transmission and distribution plant	4,814,556	4,684,109
General plant:		
Land and land rights	12,252	12,252
Office furniture and equipment	37,381	36,379
Transportation equipment	36,148	35,962
Other equipment	43,421	42,287
	<u>\$ 4,973,961</u>	<u>\$ 4,841,192</u>

### NOTE C - DEPOSITS WITH FINANCIAL INSTITUTIONS

Governmental Accounting Standards Board Statement No. 3 requires disclosure of bank deposits and investments that are entirely insured or collateralized with securities held by the District or by its agent in the District's name as of the balance sheet date. The District's deposits are categorized to give an indication of the level of risk assumed by the District as of December 31, 2003 and 2002.

### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

### NOTE C - DEPOSITS WITH FINANCIAL INSTITUTIONS (Continued)

The categories are described as follows:

- Category 1 Insured or collateralized with securities held by the District or by its agent in the District's name.
- Category 2 Collateralized with securities held by the pledging financial institution's trust department or agent in the District's name.
- Category 3 Uncollateralized or securities held by the pledging financial institution's trust department or agent but not in the District's name.

Deposits, categorized by level of risk, are:

	2003 Category				
	Bank Balance	1		3	Carrying <u>Amount</u>
Demand deposits Sinking funds	\$ 100,316 	\$ 26,061 73,939	\$ 74,255 0	\$ 0 0	\$ 95,323 73,939
Total	<u>\$ 174,255</u>	<u>\$ 100,000</u>	<u>\$ 74,255</u>	<u>\$0</u>	<u>\$ 169,262</u>
		ydd adar y y y ch fill haif haif haif haif haif an	2002 Category		
	Bank Balance	1	2	3	Carrying <u>Amount</u>
Demand deposits Sinking funds	\$ 100,635 <u>84,662</u>	\$ 15,338 <u>84,662</u>	\$ 85,297 0	\$ 0 0	\$ 96,626 <u>84,662</u>
Total	<u>\$ 185,297</u>	<u>\$ 100,000</u>	<u>\$ 85,297</u>	<u>\$0</u>	<u>\$ 181,288</u>

### NOTE D - OTHER PROPERTY AND INVESTMENTS

The District is required to maintain separate funds to meet their obligations on their revenue bonds as described in Note F. In accordance with Public Service Commission accounting procedures, these funds have been classified as other property and investments.

### NOTE E - GRANT RECEIVABLE

The District was awarded a \$450,000 grant from the Department of Commerce for a new 500,000-gallon above ground water tower. The grant required the District to incur the expense of construction before reimbursement. As of December 31, 2001, the District had \$45,000 of grant receivables for expenditures incurred. During the year ended December 31, 2002, the District received the remaining grant receivable.

### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

### NOTE F - LONG-TERM DEBT

	2003	2002
West McCracken Water District revenue bonds; issued October 1, 1967, with interest at 4%, payable through October 1, 2007; collateralized by utility plant service	\$ 155,000	\$ 191,000
Note payable – bank; for water tower with quarterly payments beginning August 1, 2001 and maturing August 1, 2008; interest set annually at prime rate as published in the Wall Street Journal; initial rate of 8.50%; rate at 12/31/2001 of 6.875%; secured by		
all current and future revenues  Less current portion	180,415 335,415 84,342	222,462 413,462 78,290
	<u>\$ 251,073</u>	\$ 335,172

The Department of Housing and Urban Affairs purchased all of the bonds upon issuance in 1968.

A schedule of future annual bonded debt service requirements follows:

	October 1				
	<b>April 1 Interest</b>	<u>Interest</u>	Bonds	Total	
2004	\$ 3,100	\$ 3,100	\$ 37,000	\$ 43,200	
2005	2,360	2,360	38,000	42,720	
2006	1,600	1,600	39,000	42,200	
2007	820	820	41,000	42,640	
Total	<u>\$ 7,880</u>	<u>\$ 7,880</u>	<u>\$ 155,000</u>	<u>\$ 170,760</u>	

A schedule of future note payable service requirements follows:

2004	\$ 47,342
2005	50,191
2006	54,628
2007	28,254
	<u>\$ 180,415</u>

#### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

#### NOTE F - LONG-TERM DEBT (Continued)

The bond ordinance agreement requires the following monthly distribution:

First: One-sixth of the next semi-annual interest payment is

to be transferred to the bond and interest redemption

fund.

Second: One-twelfth of the succeeding bond maturity is to be

transferred to the bond and interest redemption fund.

Third: Twenty percent of the net revenues, after deduction

of 1 and 2 is to be transferred to a bond sinking fund

until a reserve of \$44,000 is created.

Fourth: Ten percent of the net revenue, after deduction of 1,

2 and 3 is to be transferred to a depreciation fund

until it accumulates \$15,000.

Fifth: The remaining revenue is to be transferred into the

operation and maintenance fund.

For the year ended December 31, 2002, the District did not comply with the first and second requirements of the bond ordinance. The District did not make some monthly transfers timely; however, the District did make all required transfers by year end. The District was able to meet fully its bond obligations of October 1, 2002. For the year ended December 31, 2003, the District made all monthly transfers timely.

#### NOTE G - CONTRIBUTIONS IN AID OF CONSTRUCTION

From time to time, developers and prospective users have constructed and paid for line or other water extensions and donated these additions to the Agency. These additions, recorded at cost provided by the developers as contributions in aid of construction, are depreciated over their estimated useful lives using the straight-line method. Contributions in aid of construction also include government grant contributions for original plant facilities, which are depreciated in the same manner. Tap-on fees collected from new customers are recorded as contributions in aid of construction, as well as, customer surcharges to fund plant extensions and upgrades.

Contributions in aid of construction for the years ended December 31, 2003 and 2002 consists of the following:

		2003	
	Beginning Balance	Additions	Total
Prior period balance Tap-on fees Contributions from developers Surcharges for capital projects Grant contributions	\$ 2,047,972 402,740 130,812 215,070 450,000	\$ 0 10,663 0 73,442	\$ 2,047,972 413,403 130,812 288,512 450,000
	\$ 3,246,594	<u>\$ 84,105</u>	\$ 3,330,699

# WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

NOTE G - CONTRIBUTIONS IN AID OF CONSTRUCTION (Continued)

	*************************	2002	
	Beginning Balance	Additions	Total
Prior period balance	\$ 2,047,972	\$ 0	\$ 2,047,972
Tap-on fees	388,820	13,920	402,740
Contributions from developers	129,562	1,250	130,812
Surcharges for capital projects	139,725	75,345	215,070
Grant contributions	450,000	0	450,000
	<u>\$ 3,156,079</u>	<u>\$ 90,515</u>	\$ 3,246,594

#### NOTE H - CUSTOMER ADVANCES FOR CONSTRUCTION

In accordance with Public Service Commission (PSC) guidelines, the District records contributions in aid of construction from developers net of amounts due to developers for potential tap-on additions. As additional tap-ons are requested, developers are reimbursed an amount determined according to PSC guidelines per tap-on. The reimbursement period is for ten years. At the end of the ten-year period, any advances remaining are recorded as contribution in aid of construction.

For the periods ended December 31, 2003 and 2002, customer advances for construction consist of the following:

	2003	2002
Balance, Beginning of Year	\$ 42,875	\$ 46,270
Contributions	0	0
Refunds to developers	(5,175)	(3,395)
Balance, End of Year	<u>\$ 37,700</u>	<u>\$ 42,875</u>

#### **NOTE I - PENSION PLAN**

The District employees participate in the County Employees Retirement System (CERS). CERS is a cost-sharing, multi-employer public employee retirement system, which provides retirement, disability, and death benefits to members of the plan. Benefits and contribution rates are established by state statute. Kentucky Retirement Systems issues a publicly available financial report that includes financial statements and required supplementary information for CERS. Requests for a copy of the report should be made in writing and submitted to Kentucky Retirement Systems, Perimeter Park West, 1260 Louisville Road, Louisville, Kentucky 40601.

#### WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

#### **NOTE I - PENSION PLAN (Continued)**

The Board of Trustees of the Kentucky Retirement System has established contribution rates for the Agency. The employees contribute 5% of gross earnings and the employer contributed 7.34% for July thru December of 2003 6.34% for July of 2002 thru June of 2003, 6.41% July of 2001 thru June of 2002, and 7.17% for January thru June of 2001 of the employee's gross earnings. Contributions to the Plan for the years ended December 31, 2003 and 2002 and 2001 are as follows:

	2003	2002	2001
Employee District	\$ 5,765 7,897	\$ 5,610 7,152	\$ 5,449 7,392
	<u>\$ 13,662</u>	<u>\$ 12,762</u>	\$ 12,841

#### NOTE J - SUPPLEMENTAL DISCLOSURES REGARDING STATEMENT OF CASH FLOWS

#### **Accounting Policy**

For purposes of the statement of cash flows, cash and cash equivalents include all highly liquid debt instruments with maturities of three months or less.

#### Supplemental Disclosure of Cash Flow Information

There were no income taxes paid in 2003 and 2002.

Interest expense paid in 2003 and 2002 totaled \$25,593 and \$32,201, respectively.

Cash and cash equivalents for the years ended December 31, 2003 and 2002 consist of:

	2003	2002
Sinking Funds Depreciation sinking fund Bond sinking fund Bond and interest redemption fund	\$ 15,172 44,493 14,274	\$ 16,327 47,733 20,602
Cash	\$ 73,939	<u>\$ 84,662</u>
Tower construction account Cash on hand Paducah Bank – O & M account Cash – water surcharge Working funds – revenue account	10,771 250 6,990 17,738 59,574	60,242 250 2,075 13,821 20,238
Cash and Cash Equivalents	\$ 95,323 \$ 169,262	\$ 96,626 \$ 181,288

# WEST MCCRACKEN COUNTY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS

#### **NOTE K - CONCENTRATION**

The District purchases all water from the City of Paducah Water Works. Loss of this supplier would significantly affect the District's ability to supply water to its customers. The organization is currently developing contingency plans with other suppliers should the need arise.



#### WEST MCCRACKEN COUNTY WATER DISTRICT INSURANCE IN FORCE **December 31, 2003**

Multiple Peril Policy Property Liability	\$1,000,000 1,000/500/500, aggregate of \$3,000,000
Fidelity Bond	
Cindy Davis, Bookkeeping	\$150,000
Benny Heady, Commissioner	\$150,000
Sheila Mansfield, Customer Accounts	\$150,000
Gary Jackson, Commissioner	\$150,000
Howard Pulley, Commissioner	\$150,000
Workmen's Compensation	Statutory
Crime	\$150,000
Automobile	
Liability	\$1,000,000
PIP	\$10,000
Uninsured and underinsured motorist	\$60,000
Comprehensive	ACV, less \$250 deductible
Collision	ACV, less \$250 deductible

\$1,000,000 Flood



# REPORT ON COMPLIANCE AND ON INTERNAL CONTROL OVER FINANCIAL REPORTING BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

Board of Commissioners West McCracken County Water District West Paducah, Kentucky

We have audited the financial statements of West McCracken County Water District as of and for the years ended December 31, 2003 and 2002, and have issued our report thereon dated February 13, 2004. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

#### **Compliance**

As part of obtaining reasonable assurance about whether West McCracken County Water District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grants, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance that are required to be reported under *Government Auditing Standards*.

#### **Internal Control Over Compliance**

In planning and performing our audit, we considered West McCracken County Water District's internal control over financial reporting in order to determine our auditing procedures for the purpose of expressing our opinion on the financial statements and not to provide assurance on the internal control over financial reporting. Our consideration of the internal control over financial reporting would not necessarily disclose all matters in the internal control over financial reporting that might be material weaknesses. A material weakness is a condition in which the design or operation of one or more of the internal control components does not reduce to a relatively low level the risk that misstatements in amounts that would be material in relation to the financial statements being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions. We noted no matters involving the internal control over financial reporting and its operation that we consider to be material weaknesses.

This report is intended solely for the information and use of the audit committee, management, and others within the organization and federal awarding agencies and pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.

Kemper CPA Group LLP Paducah, Kentucky

Kemper CPA Group LLP

218 North 5th Street Paducah, KY 42001

Phone: (270)443-4400 Fax: (270)443-0963

February 13, 2004

kempercpa.com

West McCracken County Water District For The Period 8/1/04-8/31/04

Profit & Loss Statement

Sale Of Water Fire Service Charge Penalties Misc Service Revenues Int. & Dividend Income Sewer Fees School Tax Payable Tap on Fees Surcharge Subtotal Loan Advance Total Revenue		dget 1,000.00 25.00 633.00 1,091.00 1,500.00 860.00 860.00 82,789.00 2,789.00 882.00 882.00	Variance 158.23 0.00 66.00 (145.77) 51.35 34.89 8.17 (332.26) (332.26) (332.26) 154.56	Actual Ac	000.000.0000000000000000000000000000000	Variance (8,493.12) 0.00 927.86 498.19 (435.69) 103.70 243.49 277.34 980.00 372.49 (5,605.74) (5,605.74) (5,605.74)		8udget 417,000.00 5,084.00 4,000.00 12,000.00 7,880.00 5111,072.00 7,856.00 7,856.00 7,856.00 7,856.00	Variance (8,336.89) 0.00 1,014.43 563.19 (581.46) 155.05 225.51 480.00 263.80 (6,937.99) (6,937.99) (6,937.99) (6,937.99)
School Tax Payable Bond Interest Bond Principal Service Connections Capitalized Expense Water Main Extensions Tower Painting Notes Payable Constr.	1,576,39 0.00 0.00 2,506.00 0.00 15,000,00	1,500.00 0.00 3,750.00 15,000.00 15,000.00	(1,366.65)	3,100.00 3,100.00 0.00 13,179.64 27,959.29 0.00 8,419.00 43,500.00 116,262.31		6,459.64 (6,790.71) (6,790.71) 8,419.00 6,793.31	3,100.00 13,179.84 30,465.29 0.00 8,419.00 137,060,65	3,100,00 7,680,00 38,500,00 0.00 58,500,00 0.00 132,236,00	6,00 6,499,64 (8,034.71) 0.00 8,419,00 4,824,66

	Current Period Actual Bu	d 9	Variance	Last Month Year To Date Actual Budget	ar To Date Budget	Variance	Year To Date Actual	a Budget	Variance
Purchasad Water Electric/Pumps Tower, Telem., Pumps Meter, Mains, Ser., Hyd. Office Maint, Util., Bill Salaries Transportation Exp Audit Legal Chemicals Analysis & Testing Meter Reading	Operation & Maintenance E 29,500.25 29,000.00 477.65 375.00 182.95 708.00 1,864.70 1,958.00 2,925.95 2,833.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Maintenance 29,000.00 375.00 167.00 708.00 9,868.00 2,833.00 0.00 416.00 0.00 150.00 150.00 200.00 733.00	665.12) (665.12) (665.12) (93.30) (27.41) 0.00 (27.41) (27.41) (27.41) (27.41) (27.41) (27.41) (27.41) (27.41) (27.41)	151,193,25 2,486.46 3,282.47 7,879.24 16,728.26 70,900.44 12,138,22 4,538.16 5,200.00 5,200.00 5,200.00 67.50 302,780.36	2,625.00 1,169.00 4,956.00 70,408.00 70,408.00 1,125.00 1,125.00 4,200.00 400.00 400.00 400.00 4956.00 4956.00	193.25 (138.54) 2,113.47 2,923.22 3,022.26 492.44 922.58 (63.16) 1,000.00 4,50 (151.32) 0.00	180,693.50 2,964.14 3,465.45 7,922.10 18,592.96 79,772.36 23,946.53 2,588.99 12,138.22 4,926.75 5,200.00 67.50 1,295.50 349,866.08	180,000.00 3,000.00 1,336.00 5,864.00 15,864.00 22,931.00 1,475.00 4,200.00 4,200.00 1,160.00 339,311.00	693.50 (35.86) 2,129.45 2,258.10 2,928.96 (503.64) 1,113.99 1,13.99 1,598.75 1,000.00 4.50 (64.51) 135.50 10,666.08
Suprotal Total Expenses Net Income (Loss)	67,884,08 (5,457,34)		7,646,94, 1,283,69,	419,042,67	402,047.00	16,995.67 (22,601.41)	486,926.73	471,547.00 39,525.00	16,378,73 (21,317.72)

# Bank Account Summary

	Current Mo.	Previous Mo.		Loan
N. & O	663.90		Tower	S
Water Surcharde	5,642.48	15,111,39		ì
Revenue	57,714.98	41,986.15	Total Loan	
Deprec, Sinking Funds	25,782.04			
Bond Sinking Fund	44,739,66		Notes -	
Bond & Interest Fund	39,618,88			
Tower Construction	2.505.91	2,505.25		
Total Bank Accounts	176,887.85	170,714,45	जे किया त	

# Loan Summary

Loan Amount 1/1/2004 8/3//2004 er 320,000.00 180,414.63 132,307.8(	l Loan 320,000.00 180,414.63 132,307.86
Tower	Total Loan

	Variance	14,445.00 <u>0.00</u> 14,445.00	58,396.08 0.00 0.00 0.00 0.00 88,396.08
2		0.00	0.00 0.00 0.00 0.00 0.00
2 0 2 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year To Date Actual Budget	14,445.00 0.00 14,445.00	58,396.08 0.00 0.00 0.00 0.00 0.00
	Variance	6,240.00 0.00 6,240.00	33,950.63 0.00 0.00 0.00 0.00 33,950.63
કા		0.00	00.00
Profit & Loss Statement Summary of Line Extensions	Last Month Year To Date Actual Budget	6,240.00 0.00 6,240.00	33,950.63 0.00 0.00 0.00 0.00 0.00
Profit & Loss Statement Summary of Line Extens	Variance	8,205.00 0.00 8,205.00	24,445.45 0.00 0.00 0.00 24,445.45
	d e	0.00	00.00
West McCracken County Water District For The Period 8/1/04-8/31/04	Current Period Actual Bu	Revenue 8,205.00 <u>0.00</u> 8,205.00	Expenses 24,445.45 0.00 0.00 0.00 24,446.45
West McCracken ( For The Period		Tap on Fees Loan Total	Engineering Materials Contractor Services Loan Payment Total



#### RESOLUTION

RESOLUTION OF THE WEST MCCRACKEN COUNTY WATER DISTRICT APPROVING AND AUTHORIZING AN ASSISTANCE AGREEMENT WITH THE KENTUCKY RURAL WATER FINANCE CORPORATION FOR THE PURPOSE OF FINANCING A CONSTRUCTION PROJECT OF THE DISTRICT

WHEREAS, the Board of Commissioners ("Governing Authority") of the West McCracken County Water District (the "District") has previously determined that it is in the public interest to refinance and currently refund its outstanding West McCracken County Water District Waterworks Revenue Bonds of 1967, dated October 1, 1967, in the original principal amount of \$745,000 (the "Prior Bonds"), in order for the District to obtain substantial interest cost savings, which Prior Bonds were issued by the District to make improvements and extensions to the District's water system (the "System"); and

WHEREAS, the District desires the Kentucky Rural Water Finance Corporation (the "Corporation") to act as its agency and instrumentality for the purpose of refinancing and currently refunding the outstanding Prior Bonds and has made an application to the Corporation therefore; and

WHEREAS, the Governing Authority has previously determined that it is in the public interest to make improvements and extensions to the District's System; and

WHEREAS, the District desires the Corporation to act as its agency and instrumentality for the purpose of providing monies to finance the cost of said improvements and extensions consisting of 2 miles of 10" PVC water main extensions, 1.5 miles of 8" and 6" PVC water line extensions, and 11.7 miles of 6" PVC water main extensions, with appurtenances (the "Project") and has made an application to the Corporation therefore; and

WHEREAS, in order to obtain such monies, the District is required to enter into an Assistance Agreement with the Corporation; and

NOW, THEREFORE, BE IT RESOLVED by the Governing Authority of the West McCracken County Water District, as follows:

1. Authorization of Assistance Agreement and the Obligations Thereunder. For the purpose of paying the costs, not otherwise provided, of financing the Project and the refinancing and current refunding of the Prior Bonds, the District hereby authorizes and approves the issuance of its obligations pursuant to the Assistance Agreement in the aggregate principal amount of \$950,000 (subject to adjustment plus or minus ten percent (10%)) [the "Obligations"], which amount as adjusted shall be the maximum amount of such Obligations to be outstanding at any one time under the Assistance Agreement, issued as fully registered Obligations, in said maturities and terms as more fully provided for in the Assistance Agreement. The Obligations shall bear interest at such rates and shall be payable in such amounts and at such times as specified in the Assistance Agreement, all as agreed upon by the District and the Corporation.

- 2. Approval and Authorization of Execution of Assistance Agreement. The Assistance Agreement by and between the District and the Corporation in the respective form attached to this Resolution, is hereby approved, subject to such minor changes, changes of dates, insertions or omissions as may be approved by the Chairman, such approval to be conclusively evidenced by the execution of said Assistance Agreement, in order to effectuate the purposes of this Resolution; and the Chairman, or any other officer of the District, is hereby authorized to execute and acknowledge same for and on behalf of the District; and the Secretary is authorized to attest same and to affix thereto the corporate seal of the District. The Assistance Agreement is hereby ordered to be filed in the office of the Secretary with this Resolution in the official records of the District.
- 3. Disbursement of Proceeds of Obligations. The District's officers, employees and agents are authorized to carry out the procedures specified in the Assistance Agreement for the financing of the Project and for the payment from time to time of the costs and related expenses associated therewith.
- 4. Revenues of the Project. The revenues of the System are determined to be sufficient to pay the principal of and interest on the Obligations, as the same become due and payable; and said revenues, pursuant to the terms of the Assistance Agreement, are hereby pledged to secure all such payments, and in addition, for such other purposes as are more fully specified in the Assistance Agreement.
- 5. Chairman and Other District Officials to Take Any Other Necessary Action. Pursuant to the Constitution and Laws of the Commonwealth of Kentucky, the Chairman, the Treasurer, the Secretary and all other appropriate officials of the District are hereby authorized and directed to file any and all applications necessary to obtain approval of the issuance of the Obligations from the Kentucky Public Service Commission and to take any and all further action and to execute and deliver all other documents as may be reasonably necessary to effect the issuance and delivery of the Obligations and the Assistance Agreement.
- 6. Severability Clause. If any section, paragraph, clause or provision of this Resolution shall be ruled by any court of competent jurisdiction to be invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the remaining provisions hereof.
- 7. Captions of Clauses. The captions of this Resolution are for convenience only and are not to be construed as part of this Resolution nor as defining or limiting in any way the scope or intent of the provisions hereof.
- 8. Provisions in Conflict Repealed. All resolutions and orders, or parts thereof, in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.
- 9. Effective Date of Resolution. This Resolution shall take effect from and after its adoption and approval.

Adopted on August 16, 2004.

WEST MCCRACKEN COUNTY WATER DISTRICT

hairman

Attest:

By Secretary

CERTIFICATE

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the West McCracken County Water District; that the foregoing is a full, true and correct copy of a Resolution adopted by the Governing Authority of the West McCracken County Water District at a meeting duly held on August 16, 2004; that said official action appears as a matter of public record in the official records or Journal of the Governing Authority; that said meeting was held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.823; that a quorum was present at said meeting; that said official action has not been medified, amended, revoked or repealed and is now in full force and effect.

IN TESTIMONY WHEREOF, witness my signature this 16th day of August, 2004.

#### \$15,160,000

Kentucky Rural Water Finance Corporation Flexible Term Finance Program Series 2004 D

#### **Total Issue Sources And Uses**

Dated 10/01/2004 | Delivered 10/19/2004

	West McCracken New Money	West McCracken Refunding	Summary
Sources Of Funds			
Per Amount of Bonds	\$818,000.00	\$82,000.00	5900,000,00
Reoffering Premium	and the second of the second o	981 <i>A</i> 2	981,42
Accrued Interest from 10/01/2004 to 10/19/2004	1,612 35	125.46	1,737.81
Transfers from Prior Issue DSR Funds	* * * * * * * * * * * * * * * * * * * *	49,000,00	40,000.00
Total Sources	\$819,612,35	5123 <sub>7</sub> 106.98	\$942,719.23
Uses Of Funds			
Original Issue Discount (OID)	2,627.46	•	2,627,46
Total Underwriter's Discount (0.719%)	5,879,27	589.26	6,467,53
Costs of Issuance	15,039.39	1,635,61	16,675.00
Gross Bond Insurance Premium	3,855.26	269.03	4,124.29
Deposit to Debt Service Fund	1,612,35	125,46	1,737,91
Deposit to Project Construction Fund	750,000 00		750,000.00
Deposit to Current Refunding Fund	•	119,346.52	119,346,52
Deposit to Secondary Purpose Fund	40,000.00	•	40,000,00
Rounding Autount	599.62	1,141.00	1,740.62
Total Uses	\$819,612.35	\$123,706,98	\$942,719.23

NO.892 P.3/9

#### SEP.29.2004

\$15,160,000

Kentucky Rural Water Finance Corporation Flexible Term Finance Program Series 2004 D

#### Aggregate Debt Service

Principal	Interest	Total P+
•	•	•
30,000.00	28,504.50	58,504.50
32,000.00	33,348.60	65,348.60
32,000 00	32,369.40	64,369.40
36,000.00	31,311.00	67,311.00
36,000 00	30,146 40	65,146.40
38,000.00	28,921.70	66,921,70
38,000.00	27,663.90	65,663.90
40,000.00	26,347.00	66,347.00
42,000.00	24,911.40	66,911.40
42,000.00	23,311.20	65,311,20
44,000 00	21,565.40	65,565.40
46,000.00	19,738.40	65,738.40
48,000 00	17,830.20	65,830.20
50,000.00	15,840.80	65 <b>,</b> 840.8¢
52,000,00	13,770.20	65,770,20
54,000.00	11,618.40	65,618,40
56,000.00	9,349.00	65,349,00
58,000 00	6,960.70	64,960,70
62,000,00	4,332,00	66,332.00
64,000.00	1,459,20	65,459.20
00,000,0002	\$409,299.40	\$1,309,299.40
	32,000.00 32,000.00 36,000.00 36,000.00 38,000.00 38,000.00 40,000.00 42,000.00 42,000.00 44,000.00 48,000.00 50,000.00 54,000.00 54,000.00 58,000.00 58,000.00 64,000.00	32,000.00       33,348.60         32,000.00       32,369.40         36,000.00       31,311.00         36,000.00       30,146.40         38,000.00       28,921.70         38,000.00       27,663.90         40,000.00       26,347.00         42,000.00       24,911.40         42,000.00       23,311.20         44,000.00       19,738.40         48,000.00       17,830.20         50,000.00       13,770.20         54,000.00       11,618.40         56,000.00       9,349.00         58,000.00       6,960.70         62,000.00       1,459.20

#### \$15,160,000

Kentucky Rural Water Finance Corporation Flexible Term Finance Program Series 2004 D

#### **Aggregate Debt Service**

	West McCracker) New	West McCracken	
DATE	Money	Refunding	TOTAL
12/30/2005	30,811.30	27,693.20	58,504.50
12/30/2006	36,063.40	29,285.20	65,348.60
12/30/2007	<b>35,941</b> 00	28,428,40	64,369.40
12/30/2008	67,311 00	-	67,311 00
12/30/2009	66,146 40	E.	66,146.40
12/30/2010	66,921 70	~	66,921.70
12/30/2011	<b>6</b> 5,663.90		65,663 90
12/30/2012	66,347.00	•	66,347 00
12/30/2013	66,911.40	•	66,911 40
12/30/2014	65,311 20	n	65,311.20
12/30/2015	55,565.40		65,565,40
12/30/2016	55,738,40	•	65,738.40
12/30/2017	65,830.20	•	65,830.20
12/30/2018	65,840 80	•	63,840.80
12/30/2019	65,770.20	•	55,770.20
12/30/2020	65,618.40	•	55,618.40
12/30/2021	65,349 00	•	65,349 00
12/30/2022	64,960.70	•	64,960.70
12/30/2023	66,332.00	•	66,332.00
12/30/2024	65,459 20	•	65,459.20
Total	\$1,223,892.60	\$85,406,80	\$1,309,299.40

Aggregate | 9/29/2004 : 5:45 PM

NO.892. P.5/9

#### \$818,000

West McCracken Water District Kentucky Rural Water Finance Corporation Flexible Term Finance Program

#### Sources & Uses

Dated 10/01/2004 | Delivered 10/19/2004

So	irces	Of	Fı	ınds

Par Amount of Bonds	\$818,000.00
Accrued Interest from 10/01/2004 to 10/19/2004	1,612,35
Total Sources	\$819,612.35
Uses Of Funds	
Original Issue Discount (OID)	2,627.46
Total Underwriter's Discount (0.719%)	5,873.27
Costs of Issuance	15,039.39
Gross Bond Insurance Premium (31.5 bp)	3,855.26
Deposit to Dobt Service Fund	1,612.35
Deposit to Project Construction Fund	750,000.00
Deposit to Secondary Purpose Fund	40,000,00
Rounding Amount	599.62
Total Uses	\$819,612.35

Series 2004 D | West McCracken New Money | 9/29/2004 | 3:38 PM

#### \$818,000

West McCracken Water District Kentucky Rural Water Finance Corporation Flexible Term Finance Program

#### **Debt Service Schedule**

Date	Principal	Coupon	Interest	Total P+I
12/30/2004	-	je-	•	
12/30/2005	4,000.00	3.060%	26,811.30	30,811.30
12/30/2006	4,000.00	3.060%	32,063.40	36,063.40
12/30/2007	4,000,00	3 060%	31,941.00	35,941.00
12/30/2008	36,000.00	3.160%	31,311,00	67,311.00
12/30/2009	36,000.00	3 310%	30,146.40	66,146.40
12/30/2010	38,000,00	3.310%	28,921.70	66,921.70
12/30/2011	38,000.00	3.310%	27,663.90	65,663.90
12/30/2012	40,000.00	3.440%	26,347.00	66,347.00
12/30/2013	42,000,00	3.560%	24,911.40	66,911,40
12/30/2014	42,000.00	4.050%	23,311,20	65,311.20
12/30/2015	44,000,00	4.060%	21,565.40	65,565.40
12/30/2016	46,000.00	4.060%	19,738,40	65,738.40
12/30/2017	48,000.00	4.050%	17,830,20	65,830.20
12/30/2018	50,000.00	4.060%	15,840.80	65,840.86
12/30/2019	52,000,00	4.060%	13,770,20	65,770.20
12/30/2020	54,000.00	4.050%	11,618.40	65,618.40
12/30/2021	56,000.00	4.190%	9,349.00	65,349,00
12/30/2022	58,000.00	4.190%	6,960.70	64,960.70
12/30/2023	62,000.00	4.560%	4,332.00	66,332.00
12/30/2024	64,000.00	4.560%	1,459.20	65,459.20
Total	5818,000.00	-	\$405,892.60	\$1,223,892.60
corned Interest from 1 lond Year Dollars	0/01/200 <del>4 to 10/19/2</del> 004			1,612.3: \$9,872.6' 12.069 Year
Average Coupon				4.1112763%
Not Interest Cost (NIC)				4.1974306%
True Interest Cost (TIC)		MA		4.20001339
3 and Yield for Arbitrag				4.2817:83%
All Inclusive Cost (AIC				4.5256632%
RS Form 8038 Net Interest Cost				A STREETERN
Weighted Average Mah				4.1765663% 11.949 Years
verkinen waerage Man	MITTA			11.949 1030

Series 2004 D. | West McCracken New Money | 9/29/2004 | 3:35 PM

#### \$82,000

West McCracken Water District Kentucky Rural Water Finance Corporation Flexible Term Finance Program

#### Sources & Uses

Dated 10/01/2004 | Delivered 10/19/2004

-	
Sources	Of Funds

Par Amount of Bonds	****		\$82,000,00
Reoffering Premium	•		981.42
Accrued Interest from 10/01/2004 to 10/19/2004			125.46
Transfers from Prior Isaue DSR Funds	and in the finance and included an included and included		40,000 00
Total Sources			\$123,106,88
Uses Of Funds			
Total Underwriter's Discount (0.719%)		77.	589 26
Costs of Issuance		of a garagement was of season and the state of the state	1,635.61
Gross Bond Insurance Premium (31.5 bp)			269.03
Deposit to Debt Service Fund		and upon the seather ( )	125,46
Deposit to Current Refunding Fund			119,346,52
Rounding Amount	of place decisions — 1 decision decision 1 decision de	THE COLUMN TWO IS NOT	1,141.00
Total Uses			\$123,106,88

Series 2004 O | West McCracken Refunding | 9/29/2004 | 3:37 PM

#### \$82,000

West McCracken Water District Kentucky Rural Water Finance Corporation Flexible Term Finance Program

#### **Debt Service Schedule**

Date	Principal	Coupon	Interest	Total P+
12/30/2004	•		•	
12/30/2005	26,000,00	3.060%	1,693.20	27,693.20
12/30/2006	28,000.00	3.060%	1,285 20	29,285,20
12/30/2007	28,000,00	3.060%	428 40	28,428.40
Total	\$82,000.00		\$3,406.80	\$85,406.80
Yield Statistics				
Accrued Interest from 10/01/	/2004 to 10/19/2004			125,46
Bond Year Dollars				\$111,33
Average Life				1.358 Years
Average Coupon	** · · · · · · · · · · · · · · · · · ·		in the second second second	3,0600000%
Net Interest Cost (NIC)				2.7077605%
True Interest Cost (TIC)				2,6839553%
Bond Yield for Arbitrage Pur	moses		• • •	4.2817183%
All Inclusive Cost (AIC)	t see to see a see	ena e une	A 12 James and the department of the state	4.5468927%
IRS Form 8038				
Net Interest Cost				2.1115882%
Weighted Average Majurity				1,313 Years

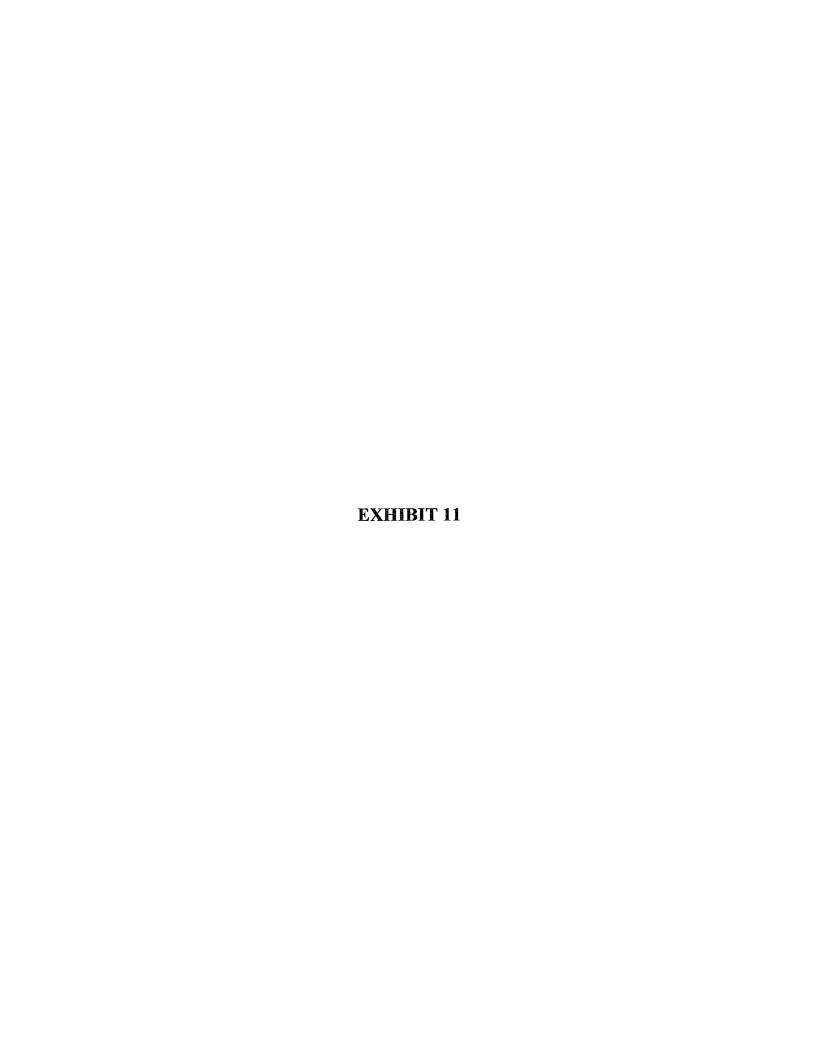
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#### \$82,000

West McCracken Water District Kentucky Rural Water Finance Corporation Flexible Term Finance Program

### **Debt Service Comparison**

Date	Total P+I	Net New D/S	Old Net D/S	Savings
12/30/2004			VIG Net Dig	- Javnigs
12/30/2005	27,693.20	27,693.20	47 720 00	17.000.00
12/30/2006	29,285.20	29,285 20	42,720.00	15,026,80
12/30/2007	28,428,40	28,428.40	42,200.00 42,640.00	12,914.80
Total	\$85,406,80	\$85,406.80	\$127,560.00	14,211.60 \$42,153.20
PV Analysis Sumn GrossDeht Service Savir				MacControl Value Supplementarion del Supplemento de America de
Otors Dept Selvice Savit	ngs			42,153.20
Net PV Cashflow Saving	39 @ 4 547%(AIC)			36,423.25
Release of DSR				(40,000.00)
Centingency or Roundin	g Amount	· • • • • • • • • • • • • • • • • • • •		1,141,00
Net Benefit		a recommendation of the contract of the contra	18 Marie de Caración de Caraci	\$3,294,20
Net PV Benefit / \$118,	000 Refunded Principal			n. n. 104.
Net PV Benefit / \$82,0	000 Refunding Principal			3: 940%
(33)		The state of the s		45.963%
Refunding Bond In	formation	44.	7-AN 19-20-18-18-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	
Refinding Dated Date	<del>-</del> 4			10/01/2004
Refunding Delivery Date	)			10/19/2004



#### **Total Project Cost Summary**

#### **Costs**

Construction Costs		\$	723,083.00
5% Contingency			36,000.00
Engineering			70,617.00
Resident Inspection			7,000.00
New Bond Costs			36,100.00
1968 Bond Payoff			158,100.00
•	<b>Total Project Costs</b>	\$1	,030,900.00

#### **Sources**

Engineering Paid to Date by District	\$	58,396.00
October 1, 2004 Bond Payment		40,100.00
KRWFC Funds		900,000.00
District General Revenue Funds		32,404.00
Total Sources	\$1	,030,900.00



#### ENGINEERING SERVICE CONTRACT

THIS	S AGREEMENT,	made and entered int	to this 21	day of	June	, 2004, between	the WEST
McC	RACKEN WATE	ER DISTRICT, (herei	nafter called	the "WM	WD"), and CIV	TL DESIGN GRO	OUP, INC.
(here	inafter called the	"ENGINEER").					

#### WITNESSETH

THAT WHEREAS, the WMWD intends to construct a water main extension along with appurtenances necessitated within its District Boundaries, (hereinafter called the "PROJECT"); and

WHEREAS, professional engineering services are required in the design and construction of the project; and

WHEREAS, the Engineer has in its employ, persons experienced in the above-mentioned areas of expertise;

NOW THEREFORE, WMWD and the Engineer, in consideration of the mutual covenants hereinafter set forth, agree as follows:

#### 1. PROJECT DESCRIPTION

The project consists of the design of approximately 90,000 linear feet of six and ten inch water main. The project scope is outlined in Appendix "A".

#### 2. SERVICES TO BE PROVIDED

#### 2.1. DESIGN AND SURVEY SERVICES

Services to be provided under this contract are as outlined in the attached Appendix A.

#### 2.2. GENERAL ENGINEERING DURING CONSTRUCTION

During construction of the Project, the Engineer shall furnish the WMWD the following services:

- 2.2.1. Assist in correct interpretation of the drawings, specifications, and contract documents.
- 2.2.2. Furnish periodic general engineering inspection of the Project to determine if construction generally conforms to the drawings, specifications, and contract documents; notify the WMWD and inform the contractor of defects and deficiencies observed for correction; and observe and report to the WMWD the progress and quality of the work.
- 2.2.3. Check shop drawings of the Contractor for general conformity with the documents and design criteria.
- 2.2.4. Provide as-built drawings showing departure from design drawings and incorporating resident inspector's and contractor's notes described in 2.3.3.

#### 2.3. CONSTRUCTION OBSERVATION

The Engineer shall furnish resident construction at the request of the WMWD. Duties of the resident shall include but not limited to the following:

- 2.3.1. On-Site interpretation of the drawings, specifications, and contract documents.
- 2.3.2. Closer representation of the Engineer and WMWD at the construction site, thus providing for more detailed observance of the construction work, Contractor's performance, and all testing required per plans and specification.
- 2.3.3. Recording authorized changes made during construction.
- 2.3.4. Recording discrepancies where noted.

#### 3. DUTIES OF WMWD

- 3.1. Provide necessary information concerning requirements for the Project.
- 3.2. Furnish the Engineer all valuable information pertinent to the site and design of the Project, including previous reports, plans, and specifications, if any.
- 3.3. Advertise for, receive, and open proposals from bidders at the appointed time and place, and pay all costs incidental thereto.
- 3.4. Provide legal, fiscal, real estate appraisal and accounting services as may be required for the Project.
- 3.5. Promptly notify the Engineer if WMWD obtains knowledge of any difficulty concerning the Project.
- 3.6. Furnish the Engineer with any known design and construction standards he may require the Engineer to follow in preparation of the contract documents.
- 3.7. Acquire all rights of way and easements necessary for construction of the Project.
- 3.8. Provide for whatever level of public involvement may be desired.

#### 4. COMPENSATION

4.1. SURVEY - \$21,728.40

4.2. DESIGN - \$48,888.90

- 4.3. EASEMENTS Drawings to be provided at \$40 per drawing as required.
- 4.4. RESIDENT INSPECTION to be provided at \$38 per hour as required.

TOTAL - \$70,617.30

- 4.5. Compensation for engineering services for Design and Survey Services shall be payable in progress billings no more frequent than monthly with both parties agreeing to a percentage completion for each billing stage.
- 4.6. In the event there are additions to the project scope, compensation payable to the Engineer shall be determined on the basis of Engineer's hourly rate schedule, cost plus fixed fee or lump sum, whichever method may be mutually agreed to by WMWD and the Engineer prior to effecting the change.
- 4.7. In the event of termination under Paragraph 5.0, compensation due the Engineer shall include the full amount due for all work completed prior to termination and an appropriate percentage of the work in progress at the time of termination as mutually agreed to by WMWD and the Engineer.

#### 5. TERMINATION

The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.

#### 6. REUSE OF DOCUMENTS

All documents including drawings and specifications prepared by the Engineer pursuant to this Agreement are instruments of service in respect of the Project. The completed plans and specifications for the project will become the property of WMWD. Their future use on any subsequent related projects will be for reference only.

#### 7. INDEMNIFICATION

As part of the consideration of this agreement, it is expressly agreed and understood that the Engineer shall at all times indemnify and save WMWD harmless from any and all loss or damage which may be sustained by WMWD by reason of any negligent act or omission committed by the Engineer and/or its employees and agents, in the performance of its work hereunder. Additionally, the Engineer shall indemnify and save WMWD harmless from any and all claims, demands, and causes of action arising either directly or indirectly from any of such negligent act or omission including, but not limited to claims by third parties for property damage or personal injury. Notwithstanding, the foregoing provisions, in the event loss or damage incurred by WMWD or claims, demands, or causes of action asserted against WMWD attributable, in part, to the negligence shall have such rights and remedies as provided by law. Said indemnification shall also include reimbursement to WMWD for any attorney fees and court costs incurred by WMWD by reason of making a claim for loss or damage or by reason of the assertion of any claims, demands, or causes of action against it, provided, however, that in the event such attorney fees and costs of WMWD are reimbursed or paid by any insurance carrier, the foregoing provision shall not apply.

#### 8. DISPUTE RESOLUTION

In an effort to resolve any conflicts that arise during or following completion of the project, WMWD and the Engineer agree that all disputes between them, arising out of or relating to disagreement, shall be submitted to nonbonding mediation unless the parties mutually agree otherwise.

#### 9. STANDARD OF CARE

Services provided by the Engineer under this agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances in the same or similar locality.

#### 10. SUCCESSION

WMWD and the Engineer bind themselves and their successors and assigns to the other party to this agreement and the assigns of such other party, in respect of all covenants of this agreement.

IN WITNESS THEREOF, the parties have caused this agreement to be duly executed.

WEST McCRACKEN WATER DISTRICT

ATTESTED:

ATTESTED:

#### APPENDIX "A"

Project Scope: The project entails the survey, design, testing and as-built drawings for proposed waterline extensions along Bethel Church Road, Magruder Road, Biggs Road, Childress Road, Gholson Road, West Airport Drive, Mayfield-Metropolis Road, and Bobo Road. Total linear feet of the project entails approximately 90,535 linear feet. Proposed extensions are shown on the enclosed map.

#### Design Services include:

- 1) Topographic survey of the proposed areas.
- 2) Design of the proposed extensions, including hydraulic calculations, submitting for Kentucky Division of Water approval, construction documents, technical specifications and design drawings.
- 3) General Engineering as described in section 2.2.
- 4) Testing and certification of the new extensions.
- 5) Providing "As-Built" drawings to the district.

#### Design Services do not include:

- 1) Encroachment permits for McCracken County, Commonwealth of Kentucky, or Railroad right-of-way encroachments.
- 2) Resident Inspection this service to be provided as requested by WMWD at \$38 per hour.
- 3) Easements Easement drawings to be provided as requested at \$40 per drawing.



