# CASE NUMBER:

99-404

KY. PUBLIC SERVICE COMMISSION AS OF : 10/22/99

INDEX FOR CASE: 99-404
ESTILL COUNTY WATER DISTRICT #1
Construct, Finance, Rates; 278.023



IN THE MATTER OF THE APPLICATION OF ESTILL COUNTY WATER DISTRICT NO. 1 OF ESTILL COUNTY, KENTUCKY, FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT, FINANCE AND INCREASE REATES PURSUANT TO KRS 278.023

SEQ	ENTRY
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NBR DATE

REMARKS

0001 09/22/99 Application.

0002 10/01/99 Acknowledgement letter.

0003 10/22/99 Final Order granting certificate, financing, tariff due 11/22/99.



# COMMONWEALTH OF KENTUCKY PUBLIC SERVICE COMMISSION

730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

### CERTIFICATE OF SERVICE

RE: Case No. 99-404

ESTILL COUNTY WATER DISTRICT #1

I, Stephanie Bell, Secretary of the Public Service Commission, hereby certify that the enclosed attested copy of the Commission's Order in the above case was served upon the following by U.S. Mail on October 22, 1999.

See attached parties of record.

Secretary of the Commission

SB/sh Enclosure 'Mr. Thomas G. Fern
State Director
Rural Development
771 Corporate Drive, Suite 200
Lexington, KY. 40503 5477

Mr. Thomas H. Coffey, Rural Development 95 South Laurel Road, Suite A London, KY. 40744

Ms. Pam Cox Office Manager Estill County Water District No. 1 76 Cedar Grove Road Irvine, KY. 40336

Mr. Don Sexton PEH Engineers, Inc. 1525 Bull Lea Road, Suite 100 Lexington, KY. 40511

Honorable Garrett T. Fowles Attorney at Law 114 North Thirst Street Richmond, KY. 40475

Honorable W. Randall Jones Attorney at Law Rubin & Hays First Trust Centre 200 South Fifth Street Louisville, KY. 40202

# COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF ESTILL COUNTY WATER	)		
DISTRICT NO. 1 OF ESTILL COUNTY, KENTUCKY,	)		
FOR A CERTIFICATE OF PUBLIC CONVENIENCE	)		
AND NECESSITY TO CONSTRUCT, FINANCE AND	)	CASE NO.	99-404
INCREASE RATES PURSUANT TO KRS 278.023	)		•
	)		

### ORDER

On September 22, 1999, Estill County Water District No. 1 ("Estill District No. 1") submitted an application for a Certificate of Public Convenience and Necessity to construct a \$3,398,800 waterworks improvement project, for approval of its plan of financing for this project, and for adjustments to its water service rates. This project will provide new service to 284 additional customers. Project funding is a \$975,000 bond issue to be purchased pursuant to an agreement with the U. S. Department of Agriculture's Rural Development ("RD"), a \$900,000 grant from the RD, a \$985,000 Community Development Block Grant ("CDBG"), a \$450,000 Appalachian Regional Commission ("ARC") grant, and an \$88,800 contribution from the Applicant.

Estill District No. 1's application was made pursuant to KRS 278.023, which requires the Commission to accept agreements between water utilities and the U. S. Department of Agriculture or the U. S. Department of Housing and Urban Development and to issue the necessary orders to implement the terms of such agreements within 30 days of

satisfactory completion of the minimum filing requirements. Given that minimum filing requirements were met in this case on September 22, 1999, KRS 278.023 does not grant the Commission any discretionary authority to modify or reject any portion of this agreement.

### IT IS THEREFORE ORDERED that:

- Estill District No. 1 is hereby granted a Certificate of Public Convenience and Necessity for the proposed construction project.
  - 2. Estill District No. 1's proposed plan of financing with RD is accepted.
  - 3. Estill District No. 1 is authorized to issue bonds not to exceed \$975,000.
- 4. Estill District No. 1 shall file a copy of the "as-built" drawings and a certified statement that the construction has been satisfactorily completed in accordance with the contract plans and specifications within 60 days of the substantial completion of the construction certificated herein.
- 5. The rates set out in Appendix A, which is attached hereto and incorporated herein, are the rates approved for service rendered on and after the date of this Order.
- 6. Estill District No. 1 shall submit its revised tariff setting out the rates in Appendix A within 30 days of the date of this Order.
- 7. Three years from the effective date of this Order Estill District No. 1 shall file an income statement, along with any pro forma adjustments, in sufficient detail to demonstrate that the rates approved herein are sufficient to meet its operating expenses and annual debt service requirements.

### APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 99-404 DATED October 22, 1999.

The following rates and charges are prescribed for the customers in the area served by Estill County Water District. All other rates and charges not specifically mentioned herein shall remain the same as those in effect under the authority of this Commission prior to the effective date of this Order.

### **MONTHLY SURCHARGE**

Cobb Hill User Surcharge

\$4.81

Nothing contained herein shall be deemed a warranty of the Commonwealth of Kentucky, or any agency thereof, of the financing herein accepted.

Done at Frankfort, Kentucky, this 22nd day of October, 1999.

By the Commission

ATTEST:

Executive Director



# COMMONWEALTH OF KENTUCKY PUBLIC SERVICE COMMISSION

730 SCHENKEL LANE POST OFFICE BOX 615 FRANKFORT, KY. 40602 (502) 564-3940

October 1, 1999

To: All parties of record

RE: Case No. 99-404

ESTILL COUNTY WATER DISTRICT #1

(Construct, Finance, Rates; 278.023)

This letter is to acknowledge receipt of initial application in the above case. The application was date-stamped received September 22, 1999 and has been assigned Case No. 99-404. In all future correspondence or filings in connection with this case, please reference the above case number.

If you need further assistance, please contact my staff at 502/564-3940.

Sincerely, Stokal Ber

Stephanie Bell

Secretary of the Commission

Mr. Thomas G. Fern State Director Rural Development 771 Corporate Drive, Suite 200 Lexington, KY. 40503 5477

Mr. Thomas H. Coffey, Rural Development 95 South Laurel Road, Suite A London, KY. 40744

Ms. Pam Cox Office Manager Estill County Water District No. 1 76 Cedar Grove Road Irvine, KY. 40336

Mr. Don Sexton PEH Engineers, Inc. 1525 Bull Lea Road, Suite 100 Lexington, KY. 40511

Honorable Garrett T. Fowles Attorney at Law 114 North Thirst Street Richmond, KY. 40475

Honorable W. Randall Jones Attorney at Law Rubin & Hays First Trust Centre 200 South Fifth Street Louisville, KY. 40202

# ubin & Hays

First Trust Centre, 200 South Fifth Street, Louisville, Kentucky 40202-3236 Telephone (502) 569-7525 Telefax (502) 569-7555 Email: rh@rubinhays.com

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

OF COUNSEL WM. CARL FUST

PARALEGAL MARY M. EMBRY

September 21, 1999



Ms. Helen C. Helton **Executive Director Public Service Commission** P.O. Box 615 Frankfort, Kentucky 40602

Re:

Estill County Water District No. 1

CASE 901-404

Dear Ms. Helton:

Enclosed please find the original and ten (10) copies of the Application of the Estill County Water District No. 1 for a Certificate of Public Convenience and Necessity to construct, finance and increase rates pursuant to KRS 278.023.

Also enclosed are eleven (11) copies of the exhibits required pursuant to 807 KAR 5.069, with the exception of the Preliminary and Final Engineering Reports, of which two copies are enclosed.

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

Sincerely,

Rubin & Hays

WRJ:jkm **Enclosures** 

cc: Distribution List

F:\DOC\WRJ\ESTILL.WD\2000\PSC\HELTON.LTR

### **DISTRIBUTION LIST**

Account No. 166.0000

Re: Estill County Water District No. 1 Waterworks and Sewer Revenue Bonds, Series 2000, in the amount of \$975,000

Mr. Thomas G. Fern State Director Rural Development 771 Corporate Drive, Suite 200 Lexington, Kentucky 40503-5477

Lexington, Kentucky 40503-5477

Mr. Thomas H. Coffey, Jr. Rural Development 95 South Laurel Road, Suite A London, Kentucky 40744

Ms. Pam Cox, Office Manager Estill County Water District No. 1 76 Cedar Grove Road

Irvine, Kentucky 40336

Mr. Don Sexton
PEH Engineers, Inc.
1525 Bull Lea Road, Suite 100
Lexington, Kentucky 40511

Garrett T. Fowles, Esq.
Attorney at Law

114 North Third Street Richmond, Kentucky 40475

W. Randall Jones, Esq. Rubin & Hays First Trust Centre

200 South Fifth Street Louisville, Kentucky 40202 Telephone: (606) 224-7336

Fax: (606) 224-7425

Telephone: (606) 864-2172 Fax: (606) 878-7717

Telephone: (606) 723-3795

Fax: (606) 726-9083

Telephone: (606) 225-8500 Fax: (606) 225-8501

Telephone: (606) 624-9111 Fax: (606) 624-3367

Telephone: (502) 569-7525

Fax: (502) 569-7555

RECEIVED

### COMMONWEALTH OF KENTUCKY

SEP 2 2 1999

### BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF ESTILL COUNTY WATER	)
DISTRICT NO. 1 OF ESTILL COUNTY, KENTUCKY,	)
FOR A CERTIFICATE OF PUBLIC CONVENIENCE	) CASE NO. 99-404
AND NECESSITY TO CONSTRUCT, FINANCE	)
AND INCREASE RATES PURSUANT TO KRS 278.023.	)

### APPLICATION

This Application of the Estill County Water District No. 1 ("Applicant") of Estill County, Kentucky, respectfully shows:

- 1. That Applicant is a water district of Estill County, Kentucky, created and existing under and by virtue of Chapter 74 of the Kentucky Revised Statutes.
  - 2. That the post office address of Applicant is:

Estill County Water District No. 1 c/o Mr. Roy L. Embs, Chairman 76 Cedar Grove Road Irvine, Kentucky 40336

- 3. That Applicant, pursuant to the provisions of KRS 278.020 and 278.023, seeks (i) a Certificate of Public Convenience and Necessity, permitting Applicant to construct a waterworks construction project, consisting of extensions, additions, and improvements (the "Project") to the existing waterworks system of Applicant; (ii) an Order approving increased rates; and (iii) approval of the proposed plan of financing said Project.
- 4. The project consists of the installation of approximately 45.7 miles of 3, 4 and 6 inch water lines with appurtenances, a new river crossing, two 80,000 gallon water storage tanks, two new booster pump stations, renovation of an existing pump station, and radio telemetry systems to serve customers in the northern and western sections of Estill County and the Cobhill area.
- 5. That Applicant proposes to finance the construction of the Project through (i) the issuance of \$975,000 of its Waterworks and Sewer Revenue Bonds, (ii) a Rural Development ("RD") Grant in the amount of \$900,000, (iii) a Community Development Block Grant ("CDBG") in the

amount of \$985,000, (iv) an Appalachian Regional Commission ("ARC") Grant in the amount of \$450,000, and (v) an Applicant contribution in the amount of \$88,800. Applicant has a commitment from the RD to purchase said \$975,000 of bonds maturing over a 40-year period, at an interest rate of not exceeding 4.50% per annum, as set out in the RD Letter of Conditions filed herewith as an Exhibit.

- 6. That Applicant does not contemplate having the Project constructed with any deviation from minimum construction standards of this Public Service Commission.
- 7. That Applicant files herewith the following Exhibits pursuant to 807 KAR 5:069 in support of this Application:
  - A. Copy of RD Letter of Conditions.
  - B. Copy of RD Letter of Concurrence in Bid Award.
  - C. Copy of Preliminary and Final Engineering Reports.
  - D. Certified statement from the Chairman of Applicant, based upon statements of the Engineers for Applicant, concerning the following:
    - (1) The proposed plans and specifications for the Project have been designed to meet the minimum construction and operating requirements set out in 807 KAR 5:066 Section 4(3) and (4); Section 5(1); Sections 6 and 7; Section 8(1) through (3); Section 9(1) and Section 10;
    - (2) All other state approvals or permits have already been obtained;
    - (3) The proposed rates of Applicant shall produce the total revenue requirements set out in the engineering reports; and
    - (4) Setting out the dates when it is anticipated that construction will begin and end.
- 8. That Applicant has arranged for the publication, prior to or at the same time this Application is filed, of a Notice of Proposed Rate Increase pursuant to Section 4 of 807 KAR 5:069, in the Citizen Voice and Times, which is the newspaper of general circulation in Applicant's service area and in Estill County, Kentucky. Said Notice sets out the current rates and the proposed rates of Applicant and a short description of the Project. A copy of said Notice is filed herewith as an Exhibit.
- 9. That the foregoing constitutes the documents necessary to obtain the approval of the Public Service Commission in accordance with Section 278.023 of the Kentucky Revised Statutes

and in accordance with the "Minimum Filing Requirements" specified in 807 KAR 5:069, Section 3.

WHEREFORE, Applicant, the Estill County Water District No. 1, asks that the Public Service Commission of the Commonwealth of Kentucky grant to Applicant the following:

- a. A Certificate of Public Convenience and Necessity permitting Applicant to construct a waterworks project consisting of extensions, additions, and improvements to the existing waterworks system of Applicant.
- b. An Order approving the financing arrangements made by Applicant, viz., the issuance of (i) \$975,000 of Estill County Water District No. 1 Waterworks and Sewer Revenue Bonds at an interest rate of not exceeding 4.50% per annum, (ii) an RD Grant in the amount of \$900,000, (iii) a CDBG Grant in the amount of \$985,000, (iv) and ARC Grant in the Amount of \$450,000, and (v) an Applicant contribution in the amount of \$88,800.
- c. An Order approving the proposed increased rates as set out in Section 22 of the RD Letter of Conditions filed herewith as an Exhibit.

ESTILL COUNTY WATER DISTRICT NO. 1

Chairman

**Board of Water Commissioners** 

W. Randall Jones, Esq.

Rubin & Hays

Counsel for Applicant

First Trust Centre

200 South Fifth Street

Louisville, Kentucky 40202

(502) 569-7534

COMMONWEALTH OF KENTUCKY	)
	) SS:
COUNTY OF ESTILL	)

The undersigned, Roy L. Embs, being duly sworn, deposes and states that he is the Chairman of the Board of Commissioners of the Estill County Water District No. 1 of Estill County, Kentucky, Applicant, in the above proceedings; that he has read the foregoing Application and has noted the contents thereof; that the same is true of his own knowledge, except as to matters which are therein stated on information or belief, and as to those matters, he believes same to be true.

IN TESTIMONY WHEREOF, witness the signature of the undersigned on this September 10, 1999.

Roy L. Embs, Chairman Estill County Water District No. 1

Subscribed and sworn to before me by Roy L. Embs, Chairman of the Board of Commissioners of the Estill County Water District No. 1, on this September / O, 1999.

My Commission expires: ///3/2000

Notary Public







August 20, 1998

Mr. Roy Lee Embs Chairman, Estill County Water District 76 Cedar Grove Road Irvine, Kentucky 40336

Dear Mr. Embs:

This letter establishes conditions which must be understood and agreed to by you before further consideration may be given to the application. The (loan and/or grant) will be administered on behalf of the Rural Utilities Service (RUS) by the State and Area office staff of USDA. Rural Development. Any changes in project cost, source of funds, scope of services or any other significant changes in the project or applicant must be reported to and approved by USDA, Rural Development, by written amendment to this letter. Any changes not approved by Rural Development shall be cause for discontinuing processing of the application. It should also be understood that Rural Development is under no obligation to provide additional funds to meet an overrun in construction costs.

This letter is not to be considered as loan and/or grant approval or as a representation as to the availability of funds. The docket may be completed on the basis of a RUS loan not to exceed \$975,000, a RUS grant not to exceed \$900,000, an Appalachian Regional Commission (ARC) grant \$450,000, a Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG) of \$985,000 and a cash contribution from the applicant in the amount of \$22,000.

If Rural Development makes the loan, you may make a written request that the interest rate be the lower of the rate in effect at the time of loan approval or the time of loan closing. If you do not request the lower of the two interest rates, the interest rate charged will be the rate in effect at the time of loan approval. The loan will be considered approved on the date a signed copy of Form RD 1940-1, "Request for Obligation of Funds," is mailed to you. If you want the lower of the two rates, your written request should be submitted to Rural Development as soon as practical. In order to avoid possible delays in loan closing, such a request should ordinarily be submitted at least 30 days before loan closing.

Please complete and return the attached Form RD 1942-46, "Letter of Intent to Meet Conditions," if you desire that further consideration be given to your application.

The "Letter of Intent to Meet Conditions" must be executed within three weeks from the date of this letter or it becomes invalid unless a time extension is granted by Rural Development.

If the conditions set forth in this letter are not met within 240 days from the date hereof, Rural Development reserves the right to discontinue the processing of the application.

In signing Form RD 1942-46, you are agreeing to complete the following as expeditiously as possible:

### 1. Number of Users and Their Contribution:

There shall be 471 existing sewer users and 2,917 water users, of which 2,633 are existing users and 284 are new users contributing \$66,800 in connection fees toward the cost of the project. The connection fees will be collected prior to advertising for construction bids and will be placed in the construction account at loan pre-closing, unless spent for authorized purposes prior to loan pre-closing. The Rural Development Manager will review and authenticate the number of users and amount of connection fees prior to advertising for construction bids.

### 1a. Grant Agreement:

Attached is a copy of RUS Bulletin 1780-12, "Water and Waste System Grant Agreement," for your review. You will be required to execute a completed form at the time of grant closing.

### 1b. <u>Drug-Free Work Place</u>:

Prior to grant approval, the Water District will be required to execute Form AD-1049, "Certification Regarding Drug-Free Workplace Requirements (Grants) Alternative I - For Grantees Other Than Individuals."

### 2. Repayment Period:

The loan will be scheduled for repayment over a period not to exceed 40 years from the date of the bond. Principal payment will not be deferred for a period in excess of two (2) years from the date of the bond. Payments will be in accordance with applicable KRS which requires interest to be paid semi-annually (February 1st and August 1st) and principal will be due on or before the first of February. Rural Development may require the Water District to adopt a supplemental payment agreement providing for monthly payments of principal and interest so long as the bond is held or insured by RUS. Monthly payments will be approximate amortized installments.

Rural Development encourages the use of the Preauthorized Debit (PAD) payment process, which authorizes the electronic withdrawal of funds from your bank account on the exact installment payment due date (contact the Rural Development Manager for further information).

### 3. Funded Depreciation Reserve Account:

The Water District will be required to deposit \$455.00 per month into a "Funded Depreciation Reserve Account". The monthly deposits are for the life of the loan.

The required deposits to the Reserve Account are in addition to the requirements of the Water District's prior bond resolutions.

The annual deposit to the Reserve Account are required to commence the first full fiscal year after the facility becomes operational.

### 4. Security Requirements:

A combined pledge of gross water and sewer revenues will be provided in the Bond Resolution. Bonds shall rank on a parity with existing bonds, if possible. If this is not possible, the bond will be subordinate and junior to the existing bonds, in which case the Water District will be required to abrogate its right to issue additional bonds ranking on a parity with the existing bonds, so long as any unpaid indebtedness remains on this bond issue.

### 5. Land Rights and Real Property:

The Water District will be required to furnish satisfactory title, easements, etc., necessary to install, maintain and operate the facility to serve the intended users. The pipelines will be on private rights-of-way where feasible. Easements and options are to be secured prior to advertising for construction bids.

### 6. Organization:

The Water District will be legally organized under applicable KRS which will permit them to perform this service, borrow and repay money.

### 7. Business Operations:

The Water District will be required to operate the system under a well-established set of resolutions, rules and regulations. A budget must be established annually and adopted by the Water District after review by Rural Development. At no later than loan pre-closing, the Water District will be required to furnish a prior approved management plan to include, as a minimum, provisions for management, maintenance, meter reading, miscellaneous services, billing, collecting, bookkeeping, making and delivering required reports and audits.

### 8. Accounts, Records and Audits:

The Water District will be required to maintain adequate records and accounts and submit statistical and financial reports, quarterly and annually, in accordance with subsection 1780.47 of RUS Instruction 1780 and RUS Staff Instruction 1780-4, a copy of which is enclosed. The enclosed audit booklet will be used as a guide for preparation of audits. The Water District will be required to establish and maintain separate accounts for each system. Annual audits, budgets, and reports will be submitted to Rural Development showing separate accounts. The Water District shall be required to submit a copy of its audit agreement for review and approval prior to pre-closing the loan. The Water District shall obtain the assistance of its accountant to establish the Water District's accounting system. Rural Development approval of the accounting system is required.

### 9. Accomplish Audits for Years in Which Federal Financial Assistance is Received:

The Water District will accomplish audits in accordance with OMB Circular A-133, during the years in which federal funds are received. The Water District will provide copies of the audits to the Area Office and the appropriate Federal cognizant agency as designated by OMB Circular A-133.

### 10. Insurance and Bonding:

The following insurance and bonding will be required:

- A. Adequate Liability and Property Damage Insurance including vehicular coverage, if applicable, must be obtained and maintained by the Water District. The Water District should obtain amounts of coverage as recommended by its attorney, consulting engineer and/or insurance provider.
- B. Worker's Compensation The Water District will carry worker's compensation insurance for employees in accordance with applicable state laws.
- C. Fidelity Bond The Water District will provide Fidelity Bond Coverage for all persons who have access to funds. Coverage may be provided either for all individual positions or persons, or through "blanket" coverage providing protection for all appropriate employees and/or officials. The amount of coverage required for all RUS loans is \$148,000.
- D. Real Property Insurance The Water District will obtain and maintain adequate fire and extended coverage on all structures including major items of equipment or machinery located in the structures. The amounts of coverage should be based on recommendations obtained by the Water District from its attorney, consulting engineer and/or insurance provider. Subsurface lift stations do not have to be covered except for the value of electrical and pumping equipment therein.
- E. Flood Insurance The Water District will obtain and maintain adequate coverage on any facilities located in a special flood and mudslide prone areas.

### 11. Planning and Performing Development:

- A. The engineer should not be authorized to commence work on final plans and specifications until a determination has been made that the project can be planned and constructed within the estimated cost shown in paragraph "20" of this letter. The engineer may then proceed to develop final plans and specifications to be completed no later than 210 days from this date, and prepare bid documents. The Rural Development Manager is prepared to furnish the necessary guide for him to follow so as to keep the project plans and documents within our guidelines and requirements. The project should not be advertised for construction bids until all easements and enforceable options have been obtained, and total funds are committed or available for the project.
- B. The following documents will be submitted to Rural Development for review and must be concurred in by Rural Development prior to advertisement for construction bids:
  - 1. Final plans, specifications and bid documents.
  - 2. Applicant's letter on efforts to encourage small business and minority-owned business participation.
  - 3. Legal Service Agreements.
  - 4. Engineering Agreements.

Revision in these documents will be subject to Rural Development concurrence. Any agreements, contracts, etc. not reviewed and approved by Rural Development will not be eligible for payment from project funds or revenues from facilities financed by this Agency.

Prior to receipt of an authorization to advertise for construction bids, the Water District will obtain advance clearance from Bond Counsel regarding compliance with KRS 424 pertaining to publishing of the advertisement for construction bids in local newspapers and the period of time the notice is required to be published.

### 12. Compliance with Section 504 of the Rehabilitation Act of 1973:

The Water District will be required to comply with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), in order to make sure no handicapped individual, solely by reason of their handicap, is excluded from participation in the use of the water system, be denied the benefits of the water system, or be subjected to discrimination.

### 13. Closing Instructions:

The Office of General Counsel, our Regional Attorney, will be required to write closing instructions in connection with this loan. Conditions listed therein must be met by the Water District.

### 14. Compliance with Special Laws and Regulations:

The Water District will be required to conform with any and all state and local laws and regulations affecting this type project.

### 15. System Operator:

The Water District is reminded that the system operator must have an Operator's Certificate issued by the State.

### 16. Prior to Pre-Closing the Loan, the Water District will be Required to Adopt:

- A. Form RD 1942-47, "Association Loan Resolution (Public Body)."
- B. Form RD 400-1, "Equal Opportunity Agreement."
- C. Form RD 400-4, "Assurance Agreement."
- D. Form AD-1047, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters Primary Covered Transaction."
- E. Form RD 1910-11, "Applicant Certification Federal Collection Policies for Consumer or Commercial Debts."
- F. FmHA Instruction 1940-Q, Exhibit A-1, "Certification for Contracts, Grants and Loans."

The Water District must offer the opportunity for all residents in the service area to become users of the facilities regardless of race, creed, color, religion, sex, national origin, marital status, physical or mental handicap or level of income.

### 17. <u>Refinancing and Graduation Requirements</u>:

The Water District is reminded that if at any time it shall appear to the Government that the Water District is able to refinance the amount of the RUS indebtedness then outstanding, in whole or in part, by obtaining a loan from commercial sources at reasonable rates and terms, upon the request of the Government, the Water District will apply for and accept such loan in sufficient amount to repay the Government.

### 18. <u>Commercial Interim Financing</u>:

The Water District will be required to use commercial interim financing for the project during construction for the RUS loan portion of the financing, if available at reasonable rates and terms.

Before the loan is closed, the Water District will be required to provide Rural Development with statements from the contractor, engineer and attorneys that they have been paid to date in accordance with their contract or other agreements and, in the case of the contractor, that he has paid his suppliers and sub-contractors.

### 19. Disbursement of Project Funds:

A construction account for the purpose of disbursement of project funds (RUS) will be established by the Water District prior to start of construction. The position of officials entrusted with the receipt and disbursement of RUS project funds will be covered by a "Fidelity Bond," with USDA-Rural Development as Co-Obligee, in the amount of construction funds on hand at any one time during the construction phase.

During construction, the Water District shall disburse project funds in a manner consistent with subsection 1780.76 (e) of RUS Instruction 1780. Form RD 1924-18, "Partial Payment Estimate," or similar form approved by Rural Development, shall be used for the purpose of documenting periodic construction estimates, and shall be submitted to Rural Development for review and acceptance. Prior to disbursement of funds by the Water District, the Board of Directors shall review and approve each payment estimate. All bills and vouchers must be approved by Rural Development prior to payment by the Water District.

Form RD 440-11, "Estimate of Funds Needed for 30-Day Period Commencing \_\_\_\_\_\_," will be prepared by the Water District and submitted to Rural Development in order that a periodic advance of federal cash may be requested.

Monthly audits of the Water District's construction account records shall be made by Rural Development.

### 20. <u>Cost of Facility</u>:

### Breakdown of Costs:

Development		\$ 2,672,800
Land and Rights		30,000
Legal and Administrativ	e	72,000
Engineering		328,000
Interest		70,000
Contingencies		226,000
<b>3</b>	TOTAL.	\$ 3,398,800

### Financing:

RUS Loan		\$	975,000
RUS Grant			900,000
HUD-CDBG			985,000
ARC Grant			450,000
<b>Applicant Contribution</b>			88,800
* *	TOTAL	\$ 3	,398,800

### 21. Use of Remaining Project Funds:

The applicant contribution shall be considered as the first funds expended. After providing for all authorized costs, any remaining project funds will be considered to be RUS/ARC/CDBG grant funds and refunded in proportion to participation in the project. If the amount of unused grant funds exceeds the grants, that part would be RUS loan funds.

### 22. Rates and Charges:

Rates and charges for facilities and services rendered by the Water District must be at least adequate to meet cost of maintaining, repairing and operating the water and sewer systems and meeting required principal and interest payments and the required deposits to debt service and/or depreciation reserve.

Water rates will be at least: 5/8" x 3/4" Meter Size

First	2,000	gallons @ \$	10.28 - Minimum Bill.
Next	3,000	gailons @\$	4.89 - per 1,000 gallons.
Next	5,000	gallons @\$	4.74 - per 1,000 gallons.
All Over	10,000	gallons @\$	3.24 - per 1,000 gallons.

Water rates will be at least: 1" Meter Size

```
First 5,000 gallons @ $ 24.95 - Minimum Bill.

Next 5,000 gallons @ $ 4.74 - per 1,000 gallons.

All Over 10,000 gallons @ $ 3.24 - per 1,000 gallons.
```

Water rates will be at least: 2" Meter Size

First	16,000	gallons @ \$	68.09 - Minimum Bill.
All Over	16,000	gallons @\$	3.24 - per 1,000 gallons.

Sewer rates will be at least:

Minimum Bill - \$13.00 for first 2,000 gallons. All Over 2,000 gallons @ \$ 6.50 - per 1,000 gallons.

Bulk Loading Station - \$3.52 per 1,000 gallons. Bulk Meter Sales to Powells Valley Water District - \$1.91 per 1,000 gallons.

### 23. Water Purchase Contract:

The Water District will submit a Water Purchase Contract for approval by Rural Development before advertising for construction bids. If the contract is not on Form RD 442-30, "Water Purchase Contract," the contract will require approval by our Regional Attorney. The contract must meet the requirements of subsection 1780.62 of RUS Instruction 1780.

### 24. Commitment of HUD, ARC Grants and Cash Contribution:

This Letter of Conditions is issued contingent upon a firm commitment being in effect prior to advertising for construction bids for the HUD Grant in the amount of \$985,000, for the ARC Grant in the amount of \$450,000 and for the cash contribution from the applicant in the amount of \$22,000.

### 25. Floodplain Construction:

The Water District will be required to pass and adopt a Resolution or amend its By-Laws whereby the Water District will deny any water service to any future customer wishing to build on or develop property located within a designated floodplain. If a customer or developer requests service for construction in a designated floodplain, the customer or developer must provide evidence and a justification for approval by the Water District and Rural Development officials that there are no other alternatives to construction or development within the designated floodplain. The community must be a participant in the National Flood Insurance Program (NFIP) and the customer or developer must obtain the required permits prior to the tap on restrictions being waived.

### 26. Final Approval Conditions:

Final approval of this loan will depend on your willingness, with the assistance of all your co-workers, to meet the conditions of this letter in an orderly and systematic manner. Then too, final approval will depend on funds being available.

In accordance with the intent of Congress as expressed in the FY 1998 Appropriations Act, recipients of Water and Waste assistance provided by the Rural Utilities Service are encouraged, in expending the assistance, to purchase only American-made equipment and products.

If you desire to proceed with your application, the Rural Development Manager will allot a reasonable portion of his time to provide guidance in application processing.

Sincerely

State Director

Rural Development

THOMAS G!. FÈRN

### **Enclosures**

cc: Rural Development Manager - London, Kentucky

Community Development Manager - Richmond, Kentucky

Bluegrass ADD - Lexington, Kentucky

Mike Moreland - Irvine, Kentucky Huret Fawles

Rubin and Hays - Louisville, Kentucky

PEH Engineers, Inc. - Lexington, Kentucky

PSC - ATTN: Claude Rhorer - Frankfort, Kentucky



Rural Development 771 Corporate Drive, Suita 200 Lexington, KY 40503-5477 (606) 224-7336 TTY (606) 224-7422

September 13, 1999

Mr. Roy Lee Embs, Chairman Estill County Water District 76 Cedar Grove Road Irvine, Kentucky 40336

Re: Letter of Conditions Dated August 20, 1998

Dear Mr. Embs:

This letter shall serve as Amendment No. 1 to your Letter of Conditions dated August 29, 1998. The purpose of the amendment is to revise the proposed water rates to include a monthly surcharge to the users served by the proposed Cob Hill Water Project.

Paragraph numbered "22" is revised to read as follows:

### "23. Rates and Charges:

Rates and charges for facilities and services rendered by the Water District must be at least adequate to meet cost of maintaining, repairing and operating the water and sewer systems and meeting required principal and interest payments and the required deposits to debt service and/or depreciation reserve.

Water rates will be at least: 5/8" X 3/4" Meter Size

First 2,000 gallons @ \$ 10.28 - Minimum Bill.

Next 3,000 gallons @ \$ 4.89 - per 1,000 gallons.

Next 5,000 gallons @ \$ 4.74 - per 1,000 gallons.

All Over 10,000 gallons @ \$ 3.24 - per 1,000 gallons.

Water rates will be at least: 1" Meter Size

First 5,000 gallons @ \$ 24.95 - Minimum Bill.

Next 5,000 gallons @ \$ 4.74 - per 1,000 gallons.

All Over 10,000 gallons @ \$ 3.24 - per 1,000 gallons.

Water rates will be at least: 2" Meter Size

First 16,000 gallons @ \$ 68.09 - Minimum Bill.
All Over 16,000 gallons @ \$ 3.24 - per 1,000 gallons.

### Estill County Water District

Page 2

Bulk Loading Station - \$3.52 per 1,000. Bulk Meter Sales to Powell's Valley Water District - \$1.91 per 1,000 gallons. Cobb Hill Users Surcharge - \$4.81 Flat Fee

Sewer rates will be at least:

First 2,000 gallons @ \$ 13.00 - Minimum Bill.

All Over 2,000 gallons @ \$ 6.50 - per 1,000 gallons."

All other provisions of the referenced Letter of Conditions remain in full force and unchanged.

Sincerely,

THOMAS G. FERN

State Director
Rural Development

ce: Rural Development Manager - London, Kentucky

Community Development Manager - Richmond, Kentucky

Bluegrass ADD - Lexington, Kentucky

Mike Moreland - Irvine, Kentucky

Rubin and Hays - Louisville, Kentucky

PEH Engineers, Inc. - Lexington, Kentucky

PSC - ATTN



September 14, 1999

SUBJECT:

**Estill County Water District** 

Concurrence in Contract Award

TO:

Rural Development Manager

London, Kentucky

Based on the bids received and the recommendation of the consulting engineer, Rural Development concurs in the award of the follow subject contracts to the respective low bidders:

Contract 11 & 12 - Waterline Extensions to G&W Construction

Contract 11, in the amount of \$609,948.32

Contract 12, in the amount of \$896,251.74

Contract 13 – Elevated Water Storage Tank to Aaron Construction Contract 13, in the amount of \$207,866.00

If you have any questions, please call Jo Ann Clark at (606)224-7348.

Rural Development

cc:

PEH Engineers, Inc.

Lexington, Kentucky

√ Rubin and Hays

Louisville, Kentucky

# CERTIFICATE OF CHAIRMAN OF ESTILL COUNTY WATER DISTRICT NO. 1, AS TO STATEMENT REQUIRED BY SECTION 3(2)(D) OF 807 KAR 5:069

I, Roy L. Embs, hereby certify that I am the duly qualified and acting Chairman of the Estill County District No. 1 of Estill County, Kentucky, and that said District is in the process of arranging to finance the construction of extensions, additions and improvements to the existing waterworks system of the District (the "Project"), in cooperation with PEH Engineers, Lexington, Kentucky, the Engineers for the District (the "Engineers").

Based on information furnished to me by said Engineers for the District, I hereby certify as follows:

- 1. That the proposed plans and specifications for the Project have been designed to meet the minimum construction and operating requirements set out in 807 KAR 5:066 Section 4(3) and (4); Section 5(1); Sections 6 and 7; Section 8(1) through (3); Section 9(1) and Section 10.
  - 2. That all other state approvals and/or permits have already been obtained.
- 3. That the rates proposed by the District in its current Application filed with the Public Service Commission of Kentucky are contemplated to produce total revenue requirements set out in the Engineering Reports prepared by such Engineers and filed with the Public Service Commission.
- 4. That it is now contemplated that construction of the Project will begin on or about October 1, 1999, and will end on or about July 1, 2000.

IN TESTIMONY WHEREOF, witness my signature this September 10, 1999.

Chairman

Estill County Water District No. 1

STATE OF KENTUCKY

)SS

COUNTY OF ESTILL

Subscribed and sworn to before me by Roy L. Embs, Chairman of the Board of Commissioners of the Estill County Water District No. 1, on this September 10, 1999.

Notary Public

In and For Said State and County

(Seal of Notary)

### NOTICE OF PROPOSED RATE INCREASE

In accordance with the requirements of the Public Service Commission of the Commonwealth of Kentucky as set out in 807 KAR 5:069, Section 4, notice is hereby given to the customers of the Estill County Water District No. 1 of Estill County, Kentucky, of an increase to the District's rate schedule as set forth herein.

The proposed rate increase is required by the United States Department of Agriculture, acting by and through Rural Development ("RD"), in connection with a loan by RD to the District in the amount of \$975,000 to be evidenced by the issuance by the District of its Waterworks and Sewer Revenue Bonds in such amount, which RD has agreed to purchase provided the District meets certain conditions of RD, including increasing water rates as set forth below:

### **Current Monthly Water Rates**

### 5/8" x 3/4" Meter:

First 2,000 gallons	\$10.28 minimum bill
Next 3,000 gallons	4.89 per 1,000 gallons
Next 5,000 gallons	4.74 per 1,000 gallons
All over 10,000 gallons	3.24 per 1,000 gallons

### 1" Meter:

First 5,000 gallons	\$24.95 minimum bill
Next 5,000 gallons	4.74 per 1,000 gallons
All over 10,000 gallons	3.24 per 1,000 gallons

### 2" Meter:

First 16,000 gallons	\$68.09 minimum bill
All over 16,000 gallons	3.24 per 1,000 gallons

Bulk Loading Station	\$3.52 per 1,000 gallons
Bulk Meter Sales to Powells Valley Water District	\$1.91 per 1,000 gallons

### **Current Monthly Sewer Rates**

First 2,000 gallons	\$13.00 minimum bill
All over 2,000 gallons	6.50 per 1,000 gallons

### **Proposed Monthly Water Rates**

### 5/8" x 3/4" Meter:

First 2,000 gallons	\$10.28 minimum bill
Next 3,000 gallons	4.89 per 1,000 gallons
Next 5,000 gallons	4.74 per 1,000 gallons
All over 10,000 gallons	3.24 per 1,000 gallons

### 1" Meter:

First 5,000 gallons	\$24.95 minimum bill
Next 5,000 gallons	4.74 per 1,000 gallons
All over 10,000 gallons	3.24 per 1,000 gallons

### 2" Meter:

First 16,000 gallons	\$68.09 minimum bill
All over 16,000 gallons	3.24 per 1,000 gallons

# Monthly Surcharge to Cobhill customers (in addition to existing rates)

	•
Bulk Loading Station	\$3.52 per 1,000 gallons
Bulk Meter Sales to Powells Valley Water District	\$1.91 per 1,000 gallons

### **Proposed Monthly Sewer Rates**

First 2,000 gallons	\$13.00 minimum bill
All over 2,000 gallons	6.50 per 1,000 gallons

The RD loan proceeds will be used in conjunction with a contribution from the District in the minimum amount of \$88,800, an RD Grant in the amount of \$900,000, a CDBG Grant in the amount of \$985,000, and an ARC Grant in the amount of \$450,000 to finance the cost of extensions, additions and improvements to the existing waterworks system of the District, consisting of the installation of approximately 45.7 miles of 3, 4 and 6 inch water lines with appurtenances, a new river crossing, two 80,000 gallon water storage tanks, two new booster pump stations, renovation of an existing pump station, and radio telemetry systems to serve customers in the northern and western sections of Estill County and the Cobhill area.

Signed: Roy L. Embs, Chairman
Estill County Water District No. 1

\$4.81

# AFFIDAVIT OF PUBLICATION OF NOTICE OF PROPOSED RATE INCREASE

I,	, hereby certify that I am
circulation which is County, Kentucky, a requirements of Sec publications required by the Estill County	and Times, that said newspaper is the newspaper having the largest bona fide published in the City of Irvine, Kentucky, and which is published in Estill and that said newspaper is the newspaper published in said County meeting the ctions 424.110 and 424.120 of the Kentucky Revised Statutes for official to be made by said County and for official publications required to be made Water District No. 1, there being no newspaper meeting such requirements within the boundaries of said District.
	the attached copy of a Notice of Proposed Rate Increase is a true copy of said in said newspaper on September 23, 1999.
IN TESTIMO	ONY WHEREOF, witness my signature this day of September, 1999.
	CITIZEN VOICE AND TIMES
	By
Subscribed a	nd sworn to before me on this day of September, 1999.
My Commis	sion expires:
	Notary Public Estill County, Kentucky

(Seal of Notary)

RECEIVED

SEP 2 2 1999

PUBLIC SERVICE COMMISSION

# FINAL ENGINEERING REPORT

for

### PHASE 6/ COB HILL WATER PROJECT WATER PROJECT ESTILL COUNTY, KENTUCKY

for

# ESTILL COUNTY WATER DISTRICT IRVINE, KENTUCKY

August, 1999

Prepared by:

PEH Engineers, Inc. 1525 Bull Lea Road, Suite 100 Lexington, Kentucky 40511 DONALD SEXTON SE

### 1. PURPOSE OF THE REPORT:

The purpose of this report is to define the project, compare the bids received to the estimated construction cost and review the project budget.

### 2. SCOPE OF THE PROJECT:

The project was bid a three separate contracts:

Contract 11: Consists of extending existing water lines to homes located throughout Estill County not currently being provided potable water service. Also included in this contract is a new 12" river crossing replacing the existing inadequate 6" line and adding a telemetry system to two existing tanks and one existing pumping station..

**Contract 12:** Consists of constructing a new water system to serve the homes located in the Cob Hill Area of the county.

**Contract 13:** Consists of constructing a new water storage tank, pumping station and telemetry system in the Cob Hill Area.

### 3. CONSTRUCTION BIDS:

The Engineer's final opinion of probable construction cost was as follows:

Contract 11	\$ 848,655.00
Contract 12	\$ 1,191,565.00
Contract 13	\$ 225,000.00

Total Estimated Construction Cost \$ 2,265,220.00

The lowest bids received were as follows:

Contract 11 - G. & W. Construction	\$ 609,948.32
Contract 12 - G. & W. Construction	\$ 896,251.74
Contract 13 - Aaron Contractors	\$ 207,866.00

Total Projected Construction Cost \$ 1,714,066.06

### 4. PROJECT COSTS:

The total opinion of probable project costs based on the bids, which consists of both construction and non-construction items is presented as follows:

Construction Cost	\$ 1,714,066.00
Basic Engineering	127,184.00
Preliminary Engineering Report	40,000.00
Resident Observation	66,600.00
Additional Services	50,000.00
Geotechnical	3,500.00
Archaeological	2,000.00
Easements and Property	30,000.00
Legal and Admin.	20,000.00
Other	<u>50,000.00</u>

Total (less contingencies) \$2,103,350.00

### 5. AVAILABLE PROJECT FUNDING:

Available project funding is as follows:

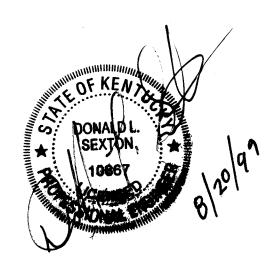
CDBG Grant	3	985,000
RECD Grant		900,000
RECD Loan		975,000
ARC Grant		450,000
Applicant - User Connection Fe	es	22,000

Total Funds Available \$ 3,332,000

This leaves approximately \$1,228,650 available for contingencies. It is anticipitated that any excess funds can be utilized by change orders to extend service into the Knob Lick Area as well as other system improvements. An additional \$300,000 of state funds have been approved for the Knob Lick Area as well.



Preliminary
Engineering Report
for
Water System
Improvements

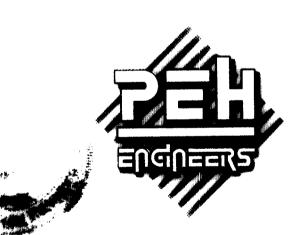


# **Estill County Water District**

October 1997

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☐ Services



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EXHIBITS .	DESCRIPTION
1	Water System Improvements



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#### 1. PURPOSE OF REPORT

This report describes the scope of the proposed project and presents the general background data used in its planning and development. Design criteria and financial data, including a rate analysis, are presented and discussed.

#### 2. GENERAL BACKGROUND DATA

The Estill County Water District (ECWD) authorized PEH Engineers in August 1992 to investigate the feasibility of designing water system improvements and extensions to rural Estill County. Citizens in the proposed new water service area have expressed considerable interest to the County Judge Executive and the Water Commissioners. The concerns focused on the need for a safe, reliable source of potable water in areas presently served by wells, springs, and cisterns. PEH was also asked to maintain or improve the level of service to existing customers in the vicinity of the extensions. The next step in accomplishing the goals set forth by the ECWD is the construction of Phase VI.

In August 1995, a Rural Development (RD) Preapplication, prepared by PEH, was filed by the ECWD, with a revision being filed in June, 1997 Exhibit 1 in the Appendix shows the location of the proposed improvements project. The Kentucky State Clearinghouse comments have been received and there are no conflicts with the State's goals, plans or objectives.

#### 3. EXISTING SYSTEM

The Estill County Water District (ECWD) was first formed in 1960 to provide water service to rural Estill County. Since its beginning, the District has developed into one of the largest and more experienced rural water suppliers in the state. The Commissioners endeavor to provide quality water service to their customers at a reasonable and economical rate. On a daily basis, the system is run and operated by a staff of well trained, conscientious and highly motivated individuals. The ECWD water system is regulated by the Kentucky Department for Environmental Protection and the Public Service Commission and is subject to meeting state and federal regulations.

The ECWD purchases all of its water from the City of Irvine (Irvine Municipal Utilities - IMU) through two (2) master meters. IMU's raw water supply is drawn from the Kentucky River and its treatment plant has a capacity of 2 million gallons per day. IMU has enough unused water treatment capacity to accommodate the improvements to the Estill County Water District system. The average demand by the new customers will be 42,000 gallons per day.

The system consists of two (2) major service areas separated by the Kentucky River. These two areas are the South of the Kentucky River area (SKRSA) and the North of the Kentucky River area (NKRSA). The SKRSA was constructed during phases I and II of the development of the ECWD. This part of the system includes 1 - 155,000 gallon standpipe at Wisemantown, 1 - 200,000 gallons standpipe at Winston, 1 - 112,000 gallons standpipe at Sandhill, 1 - 108,000 gallons standpipe and 1 - 116,000 gallons standpipe at Barnes Mountain (Phase V), 1 - 120 gallon per minute (gpm) booster pumping station at Pea Ridge, 1 - 150 gpm booster pumping station at Sandhill, 1 - 100 gpm temporary pumping station at the northwest end of West Irvine, 1 - 200 gallons per minute and 1 - 75 gallons per minute booster station at Barnes Mountain (Phase V), and approximately 19,000' of 2" pipe, 39,990' of 3" pipe, 100,750' of 4" pipe, 225,330' of 6" pipe, and 19,000' of 8" pipe. The temporary pumping station is manually operated, while the rest are radio telemetry controlled.

The construction Phases III and IV were located in the NKRSA. This part of the system includes 1 - 200,000 gallons standpipe at Iron Mountain, 1 - 113,000 gallons standpipe at Palmer, 1 - 150 gpm booster pumping station at Dry Branch, 1 - 50 gpm booster pump station at Ivory Hill and approximately 16,000' of 2" pipe, 90,000' of 3" pipe, 190,000' of 4" pipe, 100,000' of 6" pipe, and 2,000' of 8" pipe. Both the Dry Branch and Ivory Hill pumping stations are radio telemetry controlled.

The Phase 5 Water System Water System Improvements includes 23 miles of 8", 6" and 4' water main. The improvements portion of project includes two 100,000 gallons storage tanks, two booster pumping stations and office/maintenance building and is funded with a loan in amount of \$505,00 from RD and grants in amount of \$676,500 from RD, \$300,000 from ARC and \$685,200 CDBG. As of January 1996, interim financing has been obtained from Kentucky Rural water and the project is under construction. A total of 240 customers will initially served by this extension.

#### 4. SCOPE OF PROJECT

This Phase VI project was separate into two project areas, both for ease of description and also to shown the separate funding allocation. The Phase 6 Original portion of the project will expand water service to the northern and western sections of Estill County. The Cobhill Area expansion portion will serve the eastern portion of the county.

#### Phase 6 Original:

The proposed Phase 6 Original Water expansion portion of the project consists of basically 18.3 miles of 6", 4" and 3" PVC water main, 500 feet of river crossing pipe, renovation to a pump station and a radio telemetry system. A total of 148 new customers will initially be served by these extensions. The proposed extensions and customers are as follows:

<b>Location</b>	Pipe Diameter	Length (feet)	Potential Customers
Lily Ferry Road	4"	7,200	11
Iron -Work Road	4"	4,224	12
Burton-William Road	3"	5,800	5
Noland Creek Rd.	4"	5,500	12
Lock Rd.	4"	3,300	3
Wiseman Crossing Rd.	4"	3,600	10
Dry Ridge Road	6"	10,000	6
Ky. 52 /Richmond Rd	4"	2,500	4
Hoyes Fork Rd.	6"	2,500	11
Nolan Blackburn Road	4"	5,000	9
Walton Road .	4"	5,800	14
Ky. 499	. 6"	- 6,200	7
Ky. Hwy. 52	6"	3,700	*
Stacey Lane	4"	2,000	5
Little Doe Creek Rd.	4"	5,000	10

Redlick Rd.	4"	6,200	5
Macedonia Cem. Rd.	4"	6,800	8
Kissey Branch Road	3"	10,000	16
Kentucky River crossing	8"	1,450	
TOTALS		96,774	148
* These are reconnections, no	t new customers	101,050	. 2

#### **COBHILL AREA:**

The Proposed Cobhill Area expansion portion consists of basically 27.4 miles of 6", 4" and 3" PVC water main. In order to serve the Cobhill Area, two 80,000 gallons storage tanks and two booster pumping stations will be built. This portion of the project will serve 207 addition customers while extending water to the Episcopal Diocese "The Cathedral Domain" conference center, a 460,000 gallons yearly water user in northern Lee County near Crystal, Kentucky. The proposed extensions and customers are as follow:

<b>Location</b>	Pipe Diameter	Length (feet)	Potential <u>Customers</u>
Miller Creek Road	4"	26,325	38
Texola Road	3"	13,200	19
Ky. 52 (Ky. 1182 to the	6"	32,000	38
Cathedral Domain Center			
Fitchburg	4"	19,000	25
Cobhill Road	6"	15,500	55
	4"	5,500	
•	3"	6,000	
Cobhill-Furance Road	4"	27,000	32
<b>Booster Pumping Station</b>	2 Ea.		
Water Storage Tank	2 Ea.		
TOTALS		144,525	207

#### **PEH Engineers**

#### 5. **ESTIMATED WATER USAGE**

Presently, ECWD serves 2563 customers of which approximately 96% are residential. The average monthly water usage by 2459 existing residential customers as determined by billings for the 12 month period between January 1996 and December 1996 was 10,461,167 gallons (142 gpcpd). The average monthly water usage for the entire ECWD was 11,587,500 gallons (151 gpcpd), not including unaccounted for water. Average monthly demand per residential customer (5/8" X 3/4" meter) calculates to 4,250 gallons.

The Bluegrass Area Development District plan recommends that the District be served by the IMU water treatment plant. The rated 24 hour capacity of the IMU plant is 2.0 million gallons and the average daily production in 1996 was 1.122 MG with a peak day production of 1.527 MG. The ECWD currently has a water purchase contract with the IMU and may purchase up to 20 million gallons per month. This contract was amended in 1991 and also extended the terms until the year 2030.

#### 6. **DESIGN CRITERIA**

#### A. **Hydraulic Considerations**

Hydraulic calculations are based on the Hazen and Williams formula with a "C" value of 140 for PVC pipe and 130 for ductile iron pipe. The economy of polyvinyl chloride (PVC) pipe has caused it to be the predominant material for rural water system pipelines. The relatively high flow coefficient of C = 140 is common value for PVC water systems and is, therefore, used in the design of this system. The same is true of C = 130 for ductile iron.

Peak flows for determining line sizes are calculated using the relationship between demand per customer and total customers shown in the figures for Maximum Domestic Demand. The class 3 curve was utilized in determining the maximum domestic demand for the proposed extensions. These values have proven to be slightly conservative in practice, but since their use leaves room for expansion, they are considered valid for design purposes. Additional future capacity is insured by a minimum of five (5) gallons per minute into each dead end line.

Line sizes are designed to maintain a minimum of 30 pounds per square inch (psi) at the service meter during peak flows.

Fire protection capacity is not designed into the system. Hydrants are normally for blow-off purposes. Service meters, valves, and other appurtenances are designed for basically rural-domestic water supply service only.

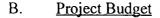
#### B. Construction Considerations

The pipeline will be constructed on private easement, some state and county rights-of-way. Estill County is underlain by shale and limestone formations. Based upon previous construction projects and the District's construction experience, the determination was made that, at the proposed construction sites, rock removal would be required. Estimates are based on current bid prices in similar terrain.

#### 7. FINANCIAL

#### A. Construction and Project Costs

Construction and project cost estimates are presented in Tables 1 and 2 of the Appendix. Estimated construction and project costs are respectively \$2,672,812 and \$3,398,817 Construction cost estimates are based on current bid prices for similar projects.



This project was divided into 2 separate project areas in the beginning of this report, both for ease of description and also to shown the separate funding allocations. A HUD Community Development Block Grant (HUD CDBG) is available to fund the Cobhill Area extensions, and an Appalachian Regional Commission (ARC) grant is available for funding the Phase 6 Original extensions. A Summary of the proposed funding is as follows:

	<u>Ph 6</u>	Original	<u>Co</u>	bhill Area	<u>Total</u>
RD Grant	\$	692,076	\$	713,888	\$ 1,405,963
RD Loan		230,691		237,962	468,654
CDBG		0		985,000	985,000
ARC		450,000		0	450,000
Local Contribution		10,000		12,000	22,000
Tapping Fees		41,300	_	25,900	67,200
Total Estimated	\$	1,424,067	\$	1,974,750	\$ 3,398,817

#### C. Rate Analysis

A rate analysis along with the existing and projected operation and maintenance costs and debt service requirements in being developed and will be submitted in the Summary / Addendum. This analysis will include a statement regarding the income necessary to meet estimated obligations for both the existing and proposed system and, if required, a rate increase will be proposed.

#### 8. <u>SUMMARY AND CONCLUSIONS</u>

The County Water Expansion, Phase VI (includes Cobhill) Project is to consist of improvements to the existing Estill County Water District public water supply system. The improvements will make it possible to extend service to additional customers currently requesting service as money becomes available.

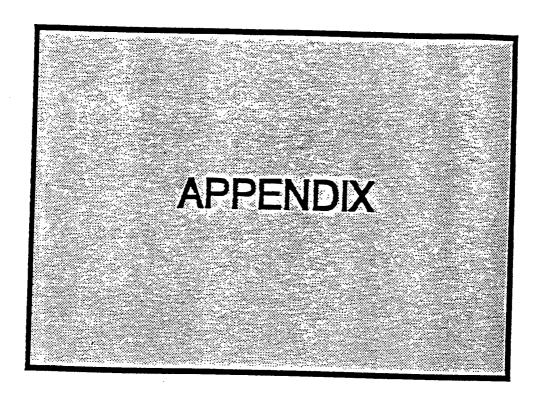
Recommended financing for the project is an RD loan in the amount of \$468,654 a RD grant of \$1,405,963 along with \$67,200 from tap fees.

Signed:

PEH Engineers 620 Euclid Avenue P.O. Box 22738

Lexington, Kentucky 40522

Don Sexton, P.E.



SUMMARY/ADDENDUM

#### SUMMARY/ADDENDUM

TO

#### PRELIMINARY ENGINEERING REPORT

Dated October, 1997

**FOR** 

Estill County Water District
(Name of Water Facility Project)

#### COMBINED WATER AND SEWERAGE SYSTEM

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

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

#### I. GENERAL

- A. <u>Area to be Served:</u> In addition to this summary, the applicant/engineer should submit a project map of the service area showing the following:
  - 1. Existing Facilities Location and Size.
  - 2. Proposed Facilities Location and Size.
  - 3. New User Location Also attach a list of new users, by road.
  - 4. Breakout of project cost for each branch line.

# II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM

1	True Cond Filton (Innovative / Alternative)
1. 2.	Type Sand Filter (Innovative / Alternative)  Method of Sludge Disposal Haul out
۷.	Method of Studge Disposal Hauf out
3.	Cost per 1,000 gallons if sewage treatment is contracted:  \$
4.	Date Constructed 1991-1992
Trea	tment Capacity of Sewage Treatment Plant 210,000 gpd
Туре	e of Sewage Collector System (Describe) Innovative / Alternative
20, 2	ber and Capacity of Sewage Lift Stations 8 - 146, 884, 100, 20, 180, 20, 30 gpm  (s) Constructed 1991-1992
20, 2	
20, 2  Date  Sewa	(s) Constructed 1991-1992
Date Sewa	(s) Constructed 1991-1992  age Collection System:  al Feet of Collector Lines, by size: 6" 20,097, 8" 4,327,

#### III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

A.	Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract, if applicable.				
	The City of Irvine (Irvine Municipal Utilities - IMU) provides an adequate treated water supply to the to the Estill County Water District (ECWD).				
	Cost of Purchased Water: \$ 1.45 per 1,000 gallon				
B.	Water Storage:				
	Type: Ground Storage Tank Elevated Tank Standpipe X Other				
	Number of Storage Structures 7				
	Total Storage Volume Capacity 1,001,000 gallons				
	Date Storage Tank(s) Constructed 1970 to present				
C.	Water Distribution System:				
	Pipe Material PVC, and Cast Iron				
	Lineal Feet of Pipe: 2" <u>35,000</u> 2-1/2" 3" <u>136,700</u> 4" <u>317,250</u>				
	6" <u>351,450</u> 8" <u>21,500</u> 10"				
	Date (s) Water Lines Constructed 1969 to present  Number and Capacity of Pump Station(s) Seven (7) Total: 1 - 200 gpm, 2 - 150 gpm, 1 - 120 gpm, 1 - 100 gpm, 1 - 75 gpm, 1 - 50 gpm				
D.	Condition of Existing Water System:				
	Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to texture years.				
	The existing system is in fairly good condition and well maintained.  The unaccounted for water line loss was 20% in 1996.				

# IV. <u>EXISTING LONG-TERM INDEBTEDNESS</u>

## A. List Bonds and Notes:

<u>Date</u>	Principal Balance	Interest Rate	Bond or Note Holder	Amount on Deposit in Reserve Acct
19 <u>64</u> Issue	\$97,000	5%	<u>GECC</u>	\$
19 <u>76</u> Issue	\$ 253,000	5%	<u>GECC</u>	\$
19 <u>84</u> Issue	\$ 234,000	7.9%	GECC	\$
19 <u>91</u> Issue A	\$ <u>506,000</u>	<u>5%</u>	RD	\$
19 <u>91</u> Issue B	\$82,000	5%	RD	\$
19 <u>91</u> Issue	\$ <u>444,000</u>	<u>5%</u>	RD	\$Total
19 <u>96</u> Issue	\$_505,000	5.6 %	RD	\$ <u>\$43,794</u>

# B. Type Bond:

<u>Date</u>	<u>Water</u>	Sewer	Water / Sev	ver*	<u>Other</u>
19 <u>64</u> Issue	<u>X</u>	<u>-</u>	%	<u>%</u>	
19 <u>76</u> Issue 19 <u>84</u> Issue	<u>X</u> <u>X</u>		<u>%</u> %	<u>%</u> <u>%</u>	
19 <u>91</u> Issue A			<u>%</u> %	<u>%</u> %	
19 <u>91</u> Issue 19 <u>96</u> Issue	X	<u>X</u>	<u>%</u> %	<u>%</u> %	

<sup>\*</sup>If a combined issue, show attributable portion to each system.

## V. <u>LAND AND RIGHTS - EXISTING SYSTEM(S)</u>

Number of Water and/or Sewer Treatment Plant Sites	1
Number of Pump Sites	7
Number of Other Sites	7
Total Acreage	Unknown
Purchase Price	\$ Unknown

## VI. NUMBER OF EXISTING USERS

	Sewer Users	<b>:</b> :		
	Residential	(In Town)*	362	
	Residential/	Farmers (Out of Town)*		
	Non-Reside	ntial/Commercial(In Town)	75	
	Non-Reside	ntial/Commercial(Out of Town)		
	Total	,	437	
	Number of	Total Potential Users		
	Living in the	e Service Area	Unknown	
	_			
		R CONNECTION FEES FOR EA	.CH SIZE WA	TER METER
CONN	<u>IECTION</u>			
Meter 5/8"x 3 3/4-Inc	3/4" \$	* gal	_	
1-Inch	ch \$		lone	
1-Inch 1½-Inc 2-Inch		* gal	<u>lons</u> lons	
1½-Inc 2-Inch 3-Inch	<u>\$</u> \$	* gal * gal * gal	lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch	\$ \$ \$	* gal * gal * gal * gal * gal	lons lons lons	
1½-Inc 2-Inch 3-Inch	\$ \$ \$	* gal * gal * gal * gal * gal	lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch	\$ \$ \$	* gal * gal * gal * gal * gal	lons lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch	\$ \$ \$ \$	* gal * gal * gal * gal * gal	lons lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch * at ac	\$ \$ \$ \$	* gal * gal * gal * gal * gal * gal	lons lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch * at ac	\$ \$ \$ tual cost  Rates (Existi	* gal	lons lons lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch * at ac Sewer Percen	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	* gal	lons lons lons lons	
1½-Inc 2-Inch 3-Inch 4-Inch 6-Inch * at ac Sewer Percen Other:	\$ \$ \$ tual cost  Rates (Existing of water (Sewer charge)	* gal	lons lons lons lons ge \$	

VII.

PROPOSED OPERATING BUDGET - EXISTING SEWER S (1st Full Year of Operation) Year End	
(1st Full Year of Operation) Year End	1990
A. Operating Income: 0.0% Annual Inflation	
Sewer Revenue Disconnect/Reconnect/Late Charge Fees	\$170,614
Other (Describe) Miscellaneous Service Revenues	
Less Allowances and Deductions	
Total Operating Income	\$170,614
B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners	)
Operation Expense Pumping Expense	\$32,756
Sewer Treatment Expense  Maintenance Expense	\$4,069
Customer Accounts Expense	
Administrative and General Expense	\$15,740
. Total Operating Expenses	. \$52,565
Net Operating Income	\$118,049
C. Non-Operating Income:	
Interest on Deposits	
Other (Identify)	\$1,314
Total Non-Operating Income	\$1,314
D. Net Income	\$119,363
E. Debt Repayment:	
RD Interest	\$23,359
RD Principal Non-RD Interest	\$5,000
Non-RD Principal	
Total Debt Repayment	. \$28,359
F. Balance Available for Coverage	
and Depreciation	\$91,004
G. Required Coverage @ 20%	\$5,672
H. Surplus (Deficit)	\$85,332

VIII.

IX.

#### **ECWD PHASE 6**

ANALYSIS OF ACTUAL SEWER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD (January 1, 1996 to December 31, 1996)

#### **ESTILL COUNTY WATER DISTRICT**

Sep-97

Residential	Water	Water		No. of Users		Average		
	Usage	)	Usage R	R	Average	Rate	R	
	0	1,000	298,676	544	549	\$13.00	\$7,072.00	
	1,000 -	2,000	1,200,738	791	1,518	\$13.00	\$10,283.00	
	2,000 -	3,000	1,936,120	776	2,495	\$16.22	\$12,584.78	
	3,000 -	4,000	2,644,765	755	3,503	\$22.77	\$17,190.97	
	4,000 -	5,000	2,639,309	589	4,481	\$29.13	\$17,155.51	
	5,000 -	6,000	2,350,450	430	5,466	\$35.53	\$15,277.93	
100	6,000 -	7,000	1,308,990	203	6,448	\$41.91	\$8,508.44	
	7,000 -	8,000	694,750	93	7,470	\$48.56	\$4,515.88	
5.5	8,000 -	9,000	384,270	45	8,539	\$55.51	\$2,497.76	
	9,000 -	10,000	245,640	26	9,448	\$61.41	\$1,596.66	
	10,000	11,000	219,670		10,460		\$1,427.86	
	11,000 -	12,000	240,680	21	11,461	\$74.50	\$1,564.42	
	12,000 -	13,000	98,140	8.	12,268	\$79.74	\$637.91	
	13,000 -	14,000	27,010	2	13,505	\$87.78	\$175.57	
	14,000 -	15,000	42,410		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\$91.89	\$275.67	
	<sup>°</sup> 15,000 -	16,000	31,410	2	15,705	\$102.08	\$204.17	
	16,000 -	17,000	0	4.1	16,500		\$0.00	
	17,000 -	18,000	34,770	2	17,385	\$113.00	\$226.01	
	18,000 -	to the second se	55,700	3	18,567		\$362.05	
	19,000 -	20,000	0		19,500	\$126.75	\$0.00	
27.0	20,000 -	and the same of th	90,400	4	22,600			
	25,000 -	30,000	0		27,500	\$178.75	\$0.00	
	30,000 -		34,600	······································	34,600			
	35,000 -	40,000	109,750	3	36,583	\$237.79	\$713.38	
2.2	40,000 -	45,000	0		42,500		\$0.00	
	45,000 -	50,000	46,140	1	46,140	\$299.91	\$299.91	
	50,000 -	55,000	155,660	To the company of the control of the	51,887	The state of the s	\$1,011.79	
	55,000 -	60,000	117,840	2	58,920	\$382.98	\$765.96	
	60,000 -	65,000	124,970		62,485	\$406.15	\$812.31	
	65,000 -	70,000	200,910	3	66,970	\$435.31	\$1,305.92	
	70,000 -	75,000	73,840		73,840		\$479.96	
	75,000 -	80,000	77,500	1	77,500	\$503.75	\$503.75	
	80,000 -	85,000	84,670		84,670		\$550.36	
	85,000 -	90,000	344,550	4	86,138	\$559.89	\$2,239.58	
	90,000 -	100,000	96,300	1	96,300		\$625.95	
	>	100,000	418,990	3	139,663	\$907.81	\$2,723.44	
	тот	TALS:	16,429,618	4,344			\$114,401.33	

IX.

#### **ECWD PHASE 6**

ANALYSIS OF ACTUAL SEWER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD (January 1, 1996 to December 1, 1996)

#### **ESTILL COUNTY WATER DISTRICT**

Sep-97

Commercial	Water		Usage			Average	Income	
	Usag	je	С	C C		Rate	С	
	0.4	1,000	62,250	· November, and our state of the colors of the color of t	465	\$13.00	\$1,742.00	
	1,000 -	2,000	146,432	104	1,408	\$13.00	\$1,352.00	
	2,000 -	3,000	202,140	***************************************	2,496	\$16.22	\$1,313.91	
	3,000 -	4,000	266,770	74	3,605	\$23.43	\$1,734.01	
	4,000 -	The second se	519,082		4,399	\$28.59	\$3,374.03	
	5,000 -	6,000	499,478	92	5,429	\$35.29	\$3,246.61	
	6,000 -	7,000	335,348	52	6,449	\$41.92	\$2,179.76	
	7,000 -	8,000	296,634	39	7,606	\$49.44	\$1,928.12	
	8,000 -	and the second section is a second second second	128,880		8,592	\$55.85	\$837.72	
	9,000 -	10,000	161,500	17	9,500	\$61.75	\$1,049.75	
	10,000 -	the state of the s	92,880	9-	10,320	\$67.08	\$603.72	
	11,000 -	12,000	139,980	12	11,665	\$75.82	\$909.87	
	12,000 -		49,930	4	12,483	\$81.14	\$324.55	
	13,000 -	14,000	81,120	6	13,520	\$87.88	\$527.28	
		15,000	115,700	Contraction of the Contraction o	14,463	\$94.01	\$752.05	
	15,000 -	16,000	33,110	2	16,555	\$107.61	\$215.22	
	16,000 -	NEW STREET, ST	83,730	5	16,746	the second second second second	\$544.25	
	17,000 -	18,000	17,620	1	17,620	\$114.53	\$114.53	
	18,000 -	19,000	92,190	diameter and the second se	18,438	\$119.85	\$599.24	
	19,000 -	20,000	115,950	6	19,325	\$125.61	\$753.68	
	20,000 -		252,140	11%	manufacture and the same of th	\$148.99	\$1,638.91	
	25,000 -	30,000	27,500	1	27,500	\$178.75	\$178.75	
	30,000 - 7	· · · · · · · · · · · · · · · · · · ·	1,007,190		32,490	\$211.19	\$6,546.74	
	35,000 -	40,000	848,210	22	38,555	\$250.61	\$5,513.37	
	40,000 -	45,000	1,236,396	28	44,157	\$287.02	\$8,036.57	
	45,000 -	50,000	95,106	2	47,553	\$309.09	\$618.19	
	50,000 -	THE RESERVE OF THE PARTY OF THE	548,080	10	54 808	\$356.25	\$3,562.52	
	55,000 -	60,000	57,500	1	57,500	\$373.75	\$373.75	
<u> 2 </u>	60,000 -	65,000	572,860	9	63,651	\$413.73 -	\$3,723.59	
	65,000 -	70,000	67,555	1	67,555	\$439.11	\$439.11	
	-70,000 =	75,000			72,500	\$471.25	\$0.00	
	75,000 -	80,000	227,620	3	75,873	\$493.18	\$1,479.53	
<u> </u>	80,000 -	85,000	. 0		82,500	<b>\$</b> 536.25	\$0.00	
	85,000 -	90,000	0		87,500	\$568.75	\$0.00	
	90,000 -	100,000		91,23	95,000	\$617.50	\$0,00	
	>	100,000	127,800	1	127,800	\$830.70	\$830.70	
	TO	TALS:	8,153,261	900			\$56,213.29	

## **Monthly Averages**

<u>Usage</u>	<u>Bill</u>	<u>Customers</u>		<u>Usage</u>	Billings	<u>Income</u>
3,782	\$24.58	362	Residential Totals	16,429,618	4,344	\$114,401.33
9,059	\$58.88	<u>75</u>	Commercial Totals	8,153,261	900	<u>\$56,213.29</u>
		437	Grand Totals	24,582,879	5,244	\$170,614.62

#### X. NUMBER OF EXISTING USERS

#### A. Water Users:

Residential (In Town)*	0
Residential/Farmers (Out of Town)*	2405
Non-Residential/Commercial(In Town)	0
Non-Residential/Commercial(Out/Town)	100
Total	2505
Number of Phase 5 Residential Users	146
Number of Total Potential Users	
Living in the Service Area	<u>Unknown</u>

\*NOTE: R

Residential/Farmer Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving

individual rural residences and farmers.

## XI. CURRENT WATER CONNECTION FEES FOR EACH SIZE METER CONNECTION

Meter Size	Connection Fees	Minimum Water Usage for Each Size Meter
5/8"x 3/4"	\$ 350	1,000 gallons
3/4-Inch_	\$ 350	1.000 gallons
1-Inch	\$ 350	<u>1,000 gallons</u>
1½-Inch_	<b>\$</b> 350	1,000 gallons
2-Inch	\$ 350	<u>1,000 gallons</u>
3-Inch	\$ N/A	1,000 gallons
4-Inch	\$ N/A	<u>1,000 gallons</u>
6-Inch	\$ N/A	1,000 gallons

#### XII. WATER RATES - EXISTING SYSTEM

#### **Existing Rate Schedule:**

First <u>2,000</u> Gallons @ <u>\$ 10.28</u> Minimum.

Next <u>3,000</u> Gallons @ <u>\$ 4.89</u> Per 1,000 Gallons.

Next <u>5,000</u> Gallons @ <u>\$ 4.74</u> Per 1,000 Gallons.

All Over 10,000 Gallons @ \$ 3.24 Per 1,000 Gallons.

Date this rate went into effect: July 15, 1994

#### Minimum Bills

Meter Size	<u>Gallons</u>	<u>Amount</u>
5/8" x 3/4"	2,000	\$10.28
1"	5,000	\$24.95
2"	16,000	\$68.09

**Bulk Loading Station** 

\$3.52 per 1,000 gallons

Bulk Meter Sales to Powell

County Water District

\$1.91 per 1,000 gallons

#### Existing Sewer Rate Schedule:

	User	Debt Service	Combined
Minimum Bill	<u>Charge</u>	<u>Charge</u>	Rate
(2,000 gallons)	\$10.06	\$2.94	\$13.00
Charge for every			
1,000 gallons	\$ 5.03	\$1.47	\$ 6.50

Form for filing Rate Schedules	For ESTILL COUNTY, KE	NTUCKY
	Community, Town	or City
	P.S.C. NO. 2	,
	Original SHEET NO.	. 4
ESTILL COUNTY WATER DISTRICT NO.	1 CANCELLING P.S.C. NO.	
Name of Issuing Corporation	First RevisedSHEET NO.	
CLASSIFICA	TION OF SERVICE	
		RATE
		PER UNIT
Monthly Rates		
First 2,000 gallons \$	10.18 (Minimum Bill)	
Next 3,000 gallons	4.84 per 1,000 gallons	
Next 5,000 gallons Over 10,000 gallons	4.69 per 1,000 gallons 3.19 per 1,000 gallons	
Minimum Bills	,	
Meter Size Ga	llons Amount	
5/8 inch X 3/4 inch	2,000 \$ 10.18	
	5,000 \ 24.70 6,000 67.29	
2 Inch	0,000 07.29	
Bulk Loading Station \$ 3	3.47 per 1,000 gallons	
Bulk Water Sales to Powell County Water District \$ 1		
10W421 004H2, W4441 11541144	1,000 gallons	
Connection Charges		
5/8 X 3/4 inch \$ 3	50	
All Other Act	ual Cost of Installation	
" હ		
ATE OF ISSUE 6/7/93	DATE EFFECTIVE 6/15/	93
SSUED BY Name of Officer	TITLE Archie McIntosh, C	hairman
	of the Public Service Comm	

XXX.	OPERATING BUDGET - EXISTING WATER SYSTEM (1st Full Year of Operation) Year Ending	1996
	A. Operating Income: 0.0% Annual Inflation	
	Water Sales Disconnect/Reconnect/Late Charge Fees Other (Describe)	\$675,664
	Less Allowances and Deductions	
	Total Operating Income	\$680,464
	B. Operation and Maintenance Expenses:     (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)	
	Source of Supply Expense	\$297,412
	Pumping Expense	\$115,000
	Water Treatment Expense	\$0
	Transmission and Distribution Expense	\$15,415
	Customer Accounts Expense	\$23,928
	Administrative and General Expense	\$52,929
	Total Operating Expenses	\$504,684
	Net Operating Income	\$175,780
	Net Operating Income	\$175,780
	C. Non-Operating Income:	
	C. Non-Operating Income:  Interest on Deposits	\$175,780 \$10,000 \$0
	C. Non-Operating Income:	\$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal	\$10,000 \$0 \$10,000
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income	\$10,000 \$0 \$10,000 \$185,780
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment	\$10,000 \$0 \$10,000 \$185,780
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment  F. Balance Available for Coverage and	\$10,000 \$0 \$10,000 \$185,780
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment	\$10,000 \$0 \$10,000 \$185,780
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment  F. Balance Available for Coverage and	\$10,000 \$0 \$10,000 \$185,780
	C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment  F. Balance Available for Coverage and Depreciation	\$10,000 \$0 \$10,000 \$185,780 \$88,808 \$96,972 \$17,762

ECWD PHASE 6

ANALYSIS OF ACTUAL WATER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD
(January 1,1996 to December 31, 1996)

#### **ESTILL COUNTY WATER DISTRICT**

Sep-97

Meter Size	Water		Usag	е	Total	No. of U	Jsers		Average		Income
	Usage		R	С	Usage	R	С	Average	Rate	R	С
5/8" x 3/4"	-	1,000	1,151,854	136,202	1,288,056	2,554	302	451	\$10.28	\$26,255.1	
				336,160			220	A AND DESCRIPTION OF THE PARTY		\$54,627.9	
	2,000 -	3,000	11,202,954	283,969	11,486,923	4,458	113 72	2,513 3.498	\$12.79	\$57,017.8 \$84,163.2	
	3,000 -		16,722,654		16,978,534	4,782	The state of the same of	AND DESCRIPTION OF THE PARTY OF	and the second second second		Carment Address of the Assessment Carment Carment
	4,000 -	5,000	17,979,170	309,080	18,288,250	4,015	70	4,478 5,469	\$22.40 \$27.17	\$89,936.0 \$69,555.2	
	5,000			278,919			ALL CALLS AND AND ADDRESS OF THE PARTY OF TH			Contract Con	
	6,000 -	7,000	11,505,460	179,470	11,684,930	1,779	28	6,466	\$31.90	\$56,750.1	
	7,000 -	The San San Control of the San Street,	8,972,080		9,128,866		21	7,464	\$36.63	The same of the sa	The second secon
	8,000 -	9,000	5,558,288	127,870	5,686,158	656	15	8,474	\$41.42	\$27,171.5	
	9,000 -	10,000	3,833,336		4,014,064		. 19				
ŀ	10,000 -	11,000	2,895,060	104,500	2,999,560	274	10	10,562	\$50.47	\$13,828.7	
	11,000	12,000		115,660		197	10,	And the same of the same of the same of	\$53.76	Property and a second	AND THE PROPERTY OF THE PARTY O
	12,000 -	13,000	1,459,260	86,940	1,546,200	117	7	12,469	\$56.65	\$6,628.0	
			1,168,480			86		13,578			
	14,000 -	15,000	997,480	143,650	1,141,130	69	10	14,445	\$63.05	\$4,350.4	
ļ.	15,000 -	16,000	928,070	78,660	1,006,730	60	- 5	THE RESIDENCE OF THE PARTY OF T	\$66.43		
ł	16,000 -	17,000	561,850	116,230	678,080	34	7	16,539	\$69.83	\$2,374.2	
i	17,000 -	18,000	420,650	70,230	490,880		character de statement en	17,531		\$1,753.2	
	18,000 -	19,000	480,920	73,510	554,430	26	4	18,481	\$76.13	\$1,979.3	
	19,000 -	20,000	412,870	115,970			6	and the same of th			1 \$478.26
	20,000 -	25,000	1,127,530	393,940	1,521,470	51	18	22,050	\$87.69	\$4,472.1	
	25,000 -				1,074,280						<b>0</b> \$1,266.00
	30,000 -	35,000	256,700	196,830	453,530	8	6	32,395	\$121.21	\$969.6	
	35,000		343,386		764,436		11				1 \$1,540.99
1	40,000 -	45,000	166,320	165,980	332,300	4	4	41,538	\$150.83	\$603.3	
	45,000	50,000	147,050	47,500	194,550		1	48,638	Court Management of the Court o		2 \$173.84
l	50,000 -	55,000	408,420		408,420	8	· Description	51,053	\$181.66	\$1,453.2	
<u>H</u>	× 55,000 -	60,000			169,980	3		56,600			9 \$0.00
	60,000 -	65,000	184,420		184,420	3		51,053	\$215.42	\$646.2	
	65,000 -	70,000				. 2		56,600	\$236.55	\$473.1	
	70,000 -	75,000	70,620		70,620	1	**********	70,620	\$245.06	\$245.0	
	75,000 -	80,000	77,500	77,500	155,000	The residence of the Contract		77,500	\$267.35	\$267.3	
l l	80,000 -	200,000	605,470	2,879,730	3,485,200	4	18	159,985	\$534.60	\$2,138.4	
	200,000	,000,000	179	2,344,000	2,344,000		-) ( 10	234,400	\$775.71	\$0.0	0 \$7,757.10
	St Average Monti	ubtotal	115,088,214	10,129,204	125,217,418	28,755	1,064			\$597,025.2 \$20.7	
	Average Month		4,002	9,520							

Matas Siza	Water		Linna		Total	Total No. of Users			Average Income		70
Meter Size			Usago R	С	Usage	R	C	Average	Rate	R	C
	Usag	le	Λ	<u> </u>	Usage		<del></del>	Average	ivare		<u> </u>
1"	-	1,000	1,623		1,623	3		451	\$10.28	\$30.84	\$0.00
	1,000 -			10,980	10,980		E	1,373	\$10.28	\$0.00	\$82.24
	2,000 -	3,000		6,630	6,630		3	3 2,210	\$11.31	\$0.00	\$33.93
	3,000 -	12,000		11,160	11,160		- 1	11,160	\$52.41	\$0.00	\$52,41
	12,000 -	13,000	12,250		12,250	1		12,250	\$55.94	\$55.94	\$0.00
	13,000	25,000	44,250		44,250	2		22,125	\$87.94	\$175.88	\$0.00
	25,000 -	30,000	56,160	25,860	82,020	2	1	27,340	\$104.83	\$209.66	\$104.83
	30,000 -	35,000	96,810	165,670	262,480	3		32,810	\$122.55	\$367.65	\$612.75
	35,000 -	40,000	296,140	149,364	445,504	8	4	37,125	\$136.54	\$1,092.32	\$546.16
	40,000 -	45,000		169,370	169,370			42,343	\$153.44	\$0.00	A CONTRACTOR OF THE PARTY OF TH
	45,000 -	50,000	94,110	286,320	380,430	2	6	47,554	\$170.32	\$340.64	\$1,021.92
	50,000 -	55,000	259,720	104,250	363,970	5	- 2	51,996	\$184.72	\$923.60	\$369.44
	55,000 -	60,000	234,640	289,330	523,970	4	5	58,219	\$204.88	\$819.52	\$1,024.40
	60,000 -	65,000	185,480	440,060	625,540	3	7	62,554	\$218.92	\$656.76	\$1,532.44
	65,000 -	70,000	133,780		133,780	2		66,890	\$232.97	\$465.94	\$0.00
	70,000	75,000	185,480		185,480	2		72,575	\$251.39	\$502.78	\$0.00
	75,000 -	80,000		157,020	157,020		2	2 78,510	\$270.62	\$0.00	\$541.24
ł	80,000 -	85,000	84,670		84,670	-1		-84,670	\$290.58	\$290.58	\$0.00
	85,000 -	90,000	344,550		344,550	4		86,138	\$295.34	\$1,181.36	\$0.00
ļ	90,000 -	100,000	96,300		96,300	. 1		96,300	\$328.26	\$328.26	\$0.00
	100,000 -	200,000	254,340		254,340	2		127,170	\$428.28	\$856.56	\$0.00
		Subtotal	2,380,303	1,816,014	4,196,317	45	48	3		\$8.298.29	\$6,535.52
	Average Mon		2,555,565	1,010,014	4,750,077	40	-	•		\$184.41	\$136.16
	Average Mont		52,896	37,834						<b>—</b>	*

XIV.

# ECWD PHASE 6 ANALYSIS OF ACTUAL WATER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD (January 1,1996 to December 31, 1996)

**ESTILL COUNTY WATER DISTRICT** 

Sep-97

Meter Size	Water		Total Us	Total Usage		Total No. of Users		Average		Income	
	Usa	ge	R	С	Usage	R C		Rate	R	C	
2"	_	1,000	4,570		4,570	9	508	\$10.28	\$92.52	\$0.00	
-	1.000 -	2.000	4.500		4.500	3	1.500	\$10.28	\$30.84	\$0.00	
	2.000 -	3.000	2,500		2,500	1	2,500	\$12.73	\$12.73	\$0.00	
	3.000 -	4 000	10.300	3.800		3	1 3,525	\$17.74	\$53.22	\$17.74	
	4.000 -	5.000	9,200	9,900	19.100	2	2 4.775	\$23.85	\$47.70	\$47.70	
	5.000 -	6.000	38 200	10,400			2 5,400		\$187.95	\$53.70	
	6.000 -	7,000	32,390	25,912	58,302	5	4 6.478	\$31.96	\$159.80	\$127.84	
	7,000 -		30 500		68.100		5 7 567				
	8,000 -	9.000	17,000	16,900	33,900	2	2 8,475	\$41.42	\$82.84	\$82.84	
	9,000 -	10,000		9.400	9.400		1 9,400		\$0.00	\$45.81	
	10,000 -	12,000	22,700	23,700	46,400	2	2 11,600	\$53.83	\$107.66	\$107.66	
	12,000			12.400	12,400		1 12,400			\$56.43	
	13,000 -	14,000	13,650	13,650	27,300	1	1 13,650	\$60.48	\$60.48	\$60.48	
	14,000 -	15,000	14,500		14.500	200-1	14,500		\$63.23	\$0.00	
	15,000 -	16,000	······································	16,000	16.000		1 16,000	\$68.09	\$0.00	\$68.09	
	16,000 -	17,000		16,900	16,900		1 16,900		\$0.00	\$71.01	
	17,000 -	18,000	34,500	and the booking against Francisco and all the last	34,500	2	17,250	\$72.14	\$144.28	\$0.00	
	18,000 -	19,000	36,600	18,800	55,400	2	1 18.467			\$76.08	
	19,000 -	25,000	115,530	162,600	278,130	5	7 23,178	\$91.35	\$456.75	\$639.45	
	25,000 -	30,000	54,800	195,500	250,300	2	7 27.811	\$106.36	\$212.72	\$744.52	
	30,000 -	35,000		422,800	422,800		13 32,523	\$121.62	\$0.00	\$1,581.06	
	35,000 -	40,000	38,227	229,542	267,769	1	6 38,253	\$140.19	\$140.19	\$841.14	
	40,000 -	45,000		253,680	253,680		6 42,280	\$153.24	\$0.00	\$919.44	
	45,000 -	50,000	140,200	140,100	280,300	3	3 46,717	\$167.61	\$502.83	\$502.83	
	50,000 -	55,000		154,500	154,500		3 51,500	\$183.11	\$0.00	\$549.33	
	- 55,000	65,000		63,000	63,000	77 T	1 63,000	\$220.37	\$0.00	\$220.37	
	65,000 -	70,000		69,800	69,800		1 69,800	\$242.40	\$0.00	\$242.40	
	70,000 -	75,000		70,600	70,600	Y	70,600	\$244.99	\$0.00	\$244.99	
	75,000 -	200,000	418,300	1,394,330	1,812,630	3	10 139,433	\$468.01	\$1,404.03	\$4,680.10	
	200,000	1,000,000	429,800	1,074,500 -	1,504,300	2	5 214,900	\$712.53	\$1,425.06	\$3,562.65	
		Subtotal	1,467,967	4,446,314	5,914,281	60	87		\$5,485.47	\$15,729.26	
	Average Mon Average Mont		24,466	51,107					\$91.42	\$180.80	

Meter Size	Water	Total Us	age	Total	No. of U	Jsers		Average	Incon	ne
	Usage	R	С	Usage	R	C	Average	Rate	R	C
3" Powell Valley	- 40000 - 200000		407000	~~~				\$10.28	\$0.00	\$0.00
Valley	200000 - 1000000		- 237,000	237,000			1 237,000	\$350.00	<b>\$0.00</b> \$0.00	\$350.00 \$0.00
	Subtotal	0	237,000	237,000	0		1		\$0.00	\$350.00
	Average Monthly Bill Average Monthly Usage	0	237,000						\$0.00	\$350.00

		Total U	sage	Total	No. of	Jsers		Average	. Inc	come
		R	С	Usage	R	С	Average	Rate	R	С
	Subtotals	118,936,484	16,628,532	135,565,016	28,860	1,200			\$610,809.03	\$64,855.80
TOTALS			135,565,016			30,060				\$675,664.83

# FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM XV. A. Sewage Treatment: 1. Method of Sludge Disposal\_\_\_\_\_ 2. 3. Cost per 1,000 gallons if sewage treatment is contracted: 4. Date Constructed B. Treatment Capacity of Sewage Treatment Plant\_\_\_\_\_ C. Type of Sewage Collector System (Describe)\_\_\_\_\_ D. Number and Capacity of Sewage Lift Stations\_\_\_\_\_ E. Sewage Collection System: Lineal Feet of Collector Lines, by size: 6"\_\_\_\_\_, 12", Larger\_\_\_\_ XVI. LAND AND RIGHTS - PROPOSED SEWER SYSTEM Number of Treatment Plant Sites Number of Pump Sites Number of Other Sites

Total Acreage Purchase Price

## XVII. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

	A.	Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.
		The Estill County Water District will continue to purchase its water from the City of Irvine at the rates listed on Page 2 of this Summary/Addendum.
	B.	Water Storage:
		Type: Ground Storage Tank Elevated Tank Standpipe _X Other Number of Storage Structures _2 Total Storage Volume Capacity 160,000 gallons
	C.	Water Distribution System:
		Pipe Material PVC & Ductile Iron  Lineal Feet of Pipe: 2" Diameter 0 3" 35,000 4" 135,580 6" 95.600  8" 1,450 10" 0 12" 0
		Number and Capacity of Pump Station(s) Three (3) Total: 1 Pump Station renovation, 1 - 200 gmp, 1 - 100 gpm
XVIII.	LAND	AND RIGHTS - PROPOSED WATER SYSTEM
	Number Number Total	er of Treatment Plant Sites  er of Pump Sites  er of Tank Sites  Acreage  se Price

#### XIX. NUMBER OF NEW SEWER USERS

Residential (In Town)*	
Residential/Farmers (Out of Town)*	
Non-Residential/Commercial(In Town)	
Non-Residential/Commercial(Out of Town)	
Total	
Number of Total Potential Users	
Living in the Service Area	

\*NOTE: Residential/Farmer Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences and farmers.

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

Meter Size	Connection Fees	Minimum Water Usage for Each Size Meter
5/8"x 3/4"	\$	gallons
3/4-Inch	<u>\$</u>	gallons
1-Inch	<u>\$</u>	gallons
1½-Inch_	\$	gallons
2-Inch	\$	gallons
3-Inch	<u>\$</u>	gallons
4-Inch	\$	gallons
6-Inch	<u>\$</u>	gallons

#### XXI. NUMBER OF NEW WATER USERS

#### A. Water Users:

Residential (In Town)*	0
Residential/Farmers (Out of Town)*	
Phase 6 Original	148
Cobhill Area	207
Non-Residential/Commercial(In Town)	0
Non-Residential/Commercial(Out/Town)	0
Total	355
Number of Total Potential Users	
Living in the Service Area	Unknown

\*NOTE: Residential/Farmer Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences and farmers.

#### XXII. PROPOSED WATER CONNECTION FEES FOR EACH SIZE METER CONNECTION

Meter Size	Connection Fees	Minimum Water Usage for Each Size Meter
5/8"x 3/4"	\$*	gallons
3/4-Inch	\$	gallons
1-Inch	\$	gallons
1½-Inch_	\$	gallons
2-Inch	\$	gallons
3-Inch	<u>\$</u>	gallons
4-Inch	\$	gallons
6-Inch	\$	gallons

<sup>\*</sup> Unchanged, see page 6 of this Summary/Addendum.

# XXIII. SEWER RATES - PROPOSED

		te Schedule without R f water bill %.	Minimum Charge \$
			or bill)
	Proposed Ra	te Schedule: (Without	t RD Grant)
	First	Gallons @ \$	Minimum.
		Gallons @ \$	
		_ Gallons @ \$	
	applicant/eng RD grant in t	gineer desires, there is	out RD grant, must be completed for each grant. If the no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must
	applicant/eng RD grant in t be completed	gineer desires, there is he Table below. How	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must
•	applicant/eng RD grant in t be completed Recommend	gineer desires, there is the Table below. Howeld prior to Table (B).  ded Rate Schedule with the state of water bill%	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must
	applicant/eng RD grant in the complete.  Recommend Percentage Cother (If characters)	gineer desires, there is the Table below. Howeld prior to Table (B).  ded Rate Schedule with the state of water bill%	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  er bill)
•	RD grant in the complete Recommend R	gineer desires, there is the Table below. Howeld prior to Table (B).  ded Rate Schedule with the same of water bill% arge not based on water bill ded Rate Schedule: (Water Schedule: (W	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  er bill)  With RD Grant)
	RD grant in the complete of the commendation o	gineer desires, there is the Table below. Howeld prior to Table (B).  led Rate Schedule with the few that the second water bill% arge not based on water bill arge schedule: (Warden Callons @ \$	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  . Minimum Charge \$ er bill)  //ith RD Grant)  Minimum.
•	applicant/eng RD grant in the complete.  Recommend Percentage of Other (If characterists Recommend First Next	gineer desires, there is the Table below. Howeld prior to Table (B).  ded Rate Schedule with the few that the	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  er bill)  //ith RD Grant)  Minimum. Per 1,000 Gallons.
	RD grant in the complete of th	gineer desires, there is the Table below. Howeld prior to Table (B).  led Rate Schedule with arge not based on water bill% are not based on wa	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  Minimum Charge \$  With RD Grant)  Minimum.  Per 1,000 Gallons.  Per 1,000 Gallons.
	applicant/eng RD grant in the complete of the	gineer desires, there is the Table below. Howeld prior to Table (B).  ded Rate Schedule with the few the second prior to Table (Control of Water bill	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  er bill)  //ith RD Grant)  Minimum.  Per 1,000 Gallons.  Per 1,000 Gallons.  Per 1,000 Gallons.  Per 1,000 Gallons.
	Recommend  Recommend  Recommend  Percentage of Other (If charmed If Charmed I	gineer desires, there is the Table below. Howeld prior to Table (B).  led Rate Schedule with arge not based on water bill% are not based on wa	no objection to recommending a proposed rate with an estimated ever, the preparer should remember that the Table (A) above must the RD Grant:  Minimum Charge \$  er bill)  With RD Grant)  Minimum.  Per 1,000 Gallons.  Per 1,000 Gallons.

If more than one rate, use additional sheets.

#### XXIV. WATER RATES - PROPOSED SYSTEM

#### **Funding Options:**

Projected rates are separated between the Existing & Phase 6 Original portion and the Cobhill portion.

- 1. RD Loan Only (\$3,275,667 @ 5%)
- 2. RD Loan (\$2,324,617 @ 5%) & CDBG (\$985,000)
- 3. RD Loan (\$1,162,308 @ 5%), RD Grant 50% (\$1,162,309) & CDBG (\$985,000)
- 4. RD Loan (\$937,308 @ %5), RD Grant (\$937,309), ARC Grant (\$450,000) & CDBG (\$985,000)
- 5. RD Loan (\$468,654 @ 5%), RD Grant 75% (\$1,405,963), ARC Grant (\$450,000) & CDBG (\$985,000)

#### A. Funding Option 1 - Proposed Rate Schedule

#### Exist. & Ph 6

	Original	Cobhill	
First <u>2,000</u>	Gallons @ \$ 10.90	\$ 41.74	Minimum.
Next <u>3,000</u>	Gallons @ \$ 5.18	\$ 19.85	Per 1,000 Gallons.
Next <u>5,000</u>	Gallons @ \$ 5.02	\$ 19.24	Per 1,000 Gallons.
Next	Gallons @ \$	<u>\$</u>	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Over_10,000	Gallons @ \$ 3.43	\$ 13.15	Per 1,000 Gallons.

#### Funding Option 2 - Proposed Rate Schedule

#### Exist. & Ph 6

	Original	Cobhill	
First <u>2,000</u>	Gallons @ \$ 10.90	\$ 25.19	Minimum.
Next <u>3,000</u>	Gallons @ \$ 5.18	<u>\$ 11.98</u>	Per 1,000 Gallons.
Next <u>5,000</u>	Gallons @ \$ 5.02	<u>\$ 11.61</u>	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Over_10,000	Gallons @ \$ 3.43	\$ 7.93	Per 1,000 Gallons.

The above proposed rate without RD grant must be completed for each grant.

If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RD grant in the table below. <u>However</u>, the preparer should remember that Table "A" above must be completed prior to Table "B" below.

#### B. Funding Option 3 - Proposed Rate Schedule

	Exist. & Ph	5	
	Original	Cobhill	
First <u>2,000</u>	Gallons @ \$ 10.28_	\$ 16.96	Minimum.
Next <u>3,000</u>	Gallons @ \$ 4.89	\$ 8.07	Per 1,000 Gallons.
Next <u>5,000</u>	Gallons @ \$ 4.74	\$ 7.82	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Over_10,000	Gallons @ \$ 3.24	\$ 5.81	Per 1,000 Gallons.

#### Funding Option 4 - Proposed Rate Schedule

	Exist. & Ph 6		
•	Original	Cobhill	
First <u>2,000</u>	Gallons @ \$ 10.28	<u>\$ 16.96</u>	Minimum.
Next <u>3,000</u>	Gallons @ \$ 4.89	\$ 8.07	Per 1,000 Gallons.
Next _ <u>5,000</u>	Gallons @ \$ 4.74	<u>\$ 7.82</u>	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Over <u>10,000</u>	Gallons @ \$ 3.24	<u>\$ 5.81</u>	Per 1,000 Gallons.

## Funding Option 5 - Recommended Rate Schedule

	Exist. & Ph 6		
	Original	Cobhill	
First <u>2,000</u>	Gallons @ \$ 10.28	\$ 12.96	Minimum.
Next <u>3,000</u>	Gallons @ \$ 4.89	\$ 6.06	Per 1,000 Gallons.
Next <u>5,000</u>	Gallons @ \$ 4.74	\$ 5.88	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Next	Gallons @ \$	\$	Per 1,000 Gallons.
Over_10,000	Gallons @ \$ 3.24	\$ 4.02	Per 1,000 Gallons.

If more than one rate, use additional sheets.

XXV.	PROPOSED OPERATING BUDGET - EXISTING SEWER SYSTEM (1st Full Year of Operation) Year Ending 1998							
	A. Operating Income: 3.0% Annual Inflation							
	Sewer Revenue Disconnect/Reconnect/Late Charge Fees Other (Describe) Miscellaneous Service Revenues	\$181,150						
	Less Allowances and Deductions							
	Total Operating Income	\$181,150						
	B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)							
	Operation Expense Pumping Expense	\$34,721						
	Sewer Treatment Expense Maintenance Expense	\$4,313						
	Customer Accounts Expense Administrative and General Expense	\$16,685						
	Total Operating Expenses	\$55,719						
	Net Operating Income	\$125,431						
	C. Non-Operating Income:							
•	Interest on Deposits Other (Identify)	\$1,800						
	Total Non-Operating Income	\$1,800						
	D. Net Income	\$127,231						
	E. Debt Repayment:							
	RD Interest RD Principal Non-RD Interest Non-RD Principal	\$23,359 \$5,000						
	Total Debt Repayment	\$28,359						
	F. Balance Available for Coverage and Depreciation	\$98,872						
	G. Required Coverage @ 20%	\$5,672						
	H. Surplus (Deficit)	\$93,200						

XXVI.

#### **ECWD PHASE 6**

ANALYSIS OF ACTUAL SEWER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD (January 1, 1998 to December 31, 1998)

#### ESTILL COUNTY WATER DISTRICT

Sep-97

Residenti	Water Usage	`	Usage R	o. of Users R	S Average	Average Rate	Income R
		1,000	200 676	EÄÄ	E40	<b>#43.00</b>	#7.070.00
1,000	<u>, , , , , , , , , , , , , , , , , , , </u>	2,000	298,676 1,200,738	544 791	549 1,518	\$13.00 \$13.00	\$7,072.00
2.000		3,000	1,200,736		2,495	\$16.22	\$10,283.00 \$12,584.78
3,000		4,000	3,355,874	958	2, <del>49</del> 5 3,503	\$22.77	\$12,364.76 \$21,813.18
4.000			3,548,952		3,505 4,481		\$23,068.19
5,000		6,000	2,350,450	430	5,466	\$35.53	and the same of th
6,000		7.000	1,308,990		6,448		\$15,277.93
7,000		8,000	694,750	93	7,470	\$48.56	\$8,508,44 \$4,515.88
8:000		9.000	384,750		8.539		\$4,515.66 \$2,497.76
9,000		10,000	245,640	26	9,448	\$61.41	
10.000		11,000			10,460		\$1,596.66 \$1,427.86
11,000		12,000	240,680	21	11,461	\$74.50	\$1,424.60 \$1,564.42
12.000		- 13,000 - 13,000	98.140		12,268		\$1,564.42 \$637.91
13,000		14,000	27,010	2	13,505	\$87.78	\$175.57
14,000		15,000	42,410		14,137		\$175.57 \$275.67
15,000		16.000	31,410	2	15,705	\$102.08	\$275.07 \$204.17
16,000		17,000	01,410		16,500		\$0.00
17,000		18,000	34,770	2	17,385	\$113.00	\$226.01
18,000		19.000		3		\$120.68	
19,000		20,000	00,700		19,500	\$126.75	\$0.00
20,000		25,000	90.400	Δ	22,600		
25,000		30,000	0		27,500	\$178.75	\$0.00
30.000		35,000	34,600	1		\$224.90	\$224.90
35,000	The state of the s	40,000	109,750	3	36,583	\$237.79	\$713.38
40,000		45,000	0			\$276.25	\$0.00
45,000		50,000	46,140	1	46,140	\$299.91	\$299.91
50,000		55,000	155,660	3	51.887		\$1,011.79
55,000	And the second second second second second	60,000	117,840	2	58,920	\$382.98	\$765.96
60,000	3 -	65,000	124,970		62,485		\$812.31
65,000	the second secon	70,000	200,910	3	66,970	\$435.31	\$1,305.92
70,000		75,000	73,840		73,840		\$479.96
75,000		80,000	77,500	1	77,500	\$503.75	\$503.75
80,000	),	85,000	84,670	<b>4</b> 1	84,670		\$550.36
85,000		90,000	344,550	4	86,138	\$559.89	\$2,239.58
90,000		100,000	96,300	1	96,300	\$625.95	\$625.95
	. >	100,000	418,990	3	139,663	\$907.81	\$2,723.44
	<b>TAT</b>		40.050.050				
	TOTALS:		18,050,370	4,750			\$124,936.21

XXVI.

#### **ECWD PHASE 6**

ANALYSIS OF ACTUAL SEWER USAGE - INCOME - EXISTING SYSTEM - 12 MONTH PERIOD (January 1, 1998 to December 1, 1998)

#### **ESTILL COUNTY WATER DISTRICT**

Sep-97

Commerci	Water		Usage	o. of Users		Average	Income
	Usage		С	С	Average	Rate	С
100		1,000	62,250		465		\$1,742.00
	000 -	2,000	146,432	104	1,408	\$13.00	\$1,352.00
	000 -	3,000	202,140	******	2,496	And Alaka	\$1,313.91
	000 -	4,000	266,770	74	3,605	\$23.43	\$1,734.01
	000	5,000	519,082		4,399	And the second of the second o	
	000 -	6,000	499,478	92	5,429	\$35.29	\$3,246.61
	000 - ,	7,000	335,348		6,449		\$2,179.76
	000 -	8,000	296,634	39	7,606	\$49.44	\$1,928.12
	000	9,000	128,880		8,592		\$837.72
L	000 -	10,000	161,500	17	9,500	\$61.75	\$1,049.75
	000 -	11,000	92,880		10,320	THE RESERVE THE PARTY OF THE PA	
11,0		12,000	139,980	12	11,665	\$75.82	\$909.87
	000	13,000	49,930		12,483		\$324.55
13,0		14,000	81,120		13,520	\$87.88	\$527.28
	000 -	15,000			14,463		
15,0		16,000	33,110	2	16,555	\$107.61	\$215.22
	000 -	17,000	83,730			\$108.85	
	000 -	18,000	17,620		17,620	\$114.53	\$114.53
	000	19,000	92,190	<u> </u>		\$119.85	
19,0		20,000	115,950	6	19,325	\$125.61	\$753.68
20.		25,000	252,140			\$148.99	
25,0 30,0		30,000	27,500	1 31	27,500	\$178.75	\$178.75 \$6,546.74
35.0		CLALAR BARTACHOLOGICAL CONTRACTOR	1,007,190 848,210	22	32,490	\$211.19 \$250.61	\$5,513.37
40:		40,000 45,000			36,333 44,157		
45,0		50,000	95,106	<u>, 20                                    </u>	47,553	\$309.09	\$618.19
45,		55,000			54.808		
55,0 55,0		60,000	57,500	1	57,500	\$373.75	\$3,302.32 \$373.75
60.		65,000		-	63,651	\$413.73	
65,0		70,000	67,555	1	67,555	\$439.11	\$439.11
	000 -	75,000		•	72,500		\$0.00
75,0		80,000	227,620	3	75,873	\$493.18	\$1,479.53
75, 80,		85,000	020,020		82,500	\$536.25	\$1,479.55
85,0 85,0		90,000	0		87,500	\$568.75	\$0.00
90.		100.000	0		95,000		·
90,	. >	100,000	127,800	1	127,800	\$830.70	\$830.70
	- /	100,000	127,000		127,000	ψ030.70	Ψ030.10
	TOTALS:		8,153,261	900			\$56,213.29

<u>Usage</u>	<u>Bill</u>	<u>Customer</u>		<u>Usage</u>	<u>Billings</u>	Income
3,800	\$24.70	396	Residential Totals	18,050,370	4,750	\$124,936.21
9,059	\$58.88	<u>75</u>	Commercial Totals	<u>8,153,261</u>	900	<b>\$56,213.29</b>
to a sign document		471	Grand Totals	26,203,631	5,650	\$181,149.51

XXVII. PROPOSED OPERATING BUDGET - EXISTING WA (1st Full Year of Operation)	Year Ending	1998
A. Operating Income: 3.0% Annual Inflation		
Water Sales		\$712,744
Disconnect/Reconnect/Late Charge Fees Other (Describe)		\$4,800
Less Allowances and Deductions		
Total Operating Income		\$717,544
B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribe National Association of Regulatory Utility Commis	d by ssioners)	
Source of Supply Expense	_	\$314,746
Pumping Expense	<del>-</del>	\$129,114
Water Treatment Expense		\$0
Transmission and Distribution Expense	_	\$17,307
Customer Accounts Expense		\$26,865 \$59,425
Administrative and General Expense	_	\$33,423
Total Operating Expenses	<u> </u>	\$547,457
Net Operating Income		\$170,087
C. Non-Operating Income:		
Interest on Deposits		\$15,000
Other (Identify)		\$0
Total Non-Operating Income	_	\$15,000
D. Net Income	<u> </u>	\$185,087
E. Debt Repayment:		
RD Interest		
RD Principal	_	
Non-RD Interest		
Non-RD Principal	_	
Total Debt Repayment	<u> </u>	\$116,786
F. Balance Available for Coverage and		
Depreciation	<u> </u>	\$68,301
G. Required Coverage @ 20%	_	\$23,357
H. Surplus (Deficit)		\$44,944

XXVIII.

# ECWD PHASE 6 FORECAST OF WATER USAGE - INCOME - PROPOSED SYSTEM - EXISTING USERS (January 1, 1998 TO December 31,1998)

ESTILL COUNTY WATER DISTRICT

Meter Size	Water	Usag	e	Total	No. of	Users		Average	Incon	ne
1	Usage	R	С	Usage	R	С	Average	Rate	R	c
	l			×						
5/8" x 3/4"	- 1,000	1,151,854	136,202	1,288,056	2,554	302	451	\$10.28	\$26,255.12	\$3,104.56
	1,000 - 2,000		336,160	8,455,952	5,314	220	1,528	\$10.28	\$54,627.92	
	2,000 - 3,000	11,202,954	283,969	11,486,923	4,458	113	2,513	\$12.79	\$57,017.82	\$1,445.27
	3,000 - 4,000	Contract to the second of the	255,880	18,560,914	5,233	72	3,499	\$17.60	\$92,100.80	\$1,267.20
	4,000 - 5,000	23,805,048	309,080	24,114,128	5,316	70	4,478	\$22.40	\$119,078.40	\$1,568.00
		14,000,640		14,279,559		-51		\$27.17		
	6,000 - 7,000	11,505,460	179,470	11,684,930	1,779	28	6,466	\$31.90	\$56,750.10	\$893.20
	7,000 - 8,000			9,128,866		21	CONTRACTOR OF THE PARTY OF THE	\$36.63	\$44,029.26	
l l	8,000 - 9,000	5,558,288	127,870	5,686,158	656	15	8,474	\$41.42	\$27,171.52	\$621.30
	9,000 - 10,000				403		9,512	\$46.34	\$18,675.02	
1	10,000 - 11,000	2,895,060	104,500	2,999,560	274	10	10,562	\$50.47	\$13,828.78	\$504.70
	11,000 - 12,000			2,396,160	197	10	11,576	\$53.76	\$10,590.72	
1	12,000 - 13,000		86,940	1,546,200	117	7	12,469	\$56.65	\$6,628.05	\$396.55
1	13,000 - 14,000			1,289,920		CONTRACTOR AND AND ADDRESS OF THE PARTY.	13,578	\$60,24	\$5,180.64	\$542.16
ĺ	14,000 - 15,000	997,480	143,650	1,141,130	69	10	14,445	\$63.05	\$4,350.45	\$630.50
1	15,000 - 16,000				60	5		\$66.43		
į .	16,000 - 17,000	561,850	116,230	678,080	34	7	16,539	\$69.83	\$2,374.22	\$488.81
1	17,000 - 18,000		70,230	490,880	. 24	4	17,531	\$73.05	\$1,753.20	
	18,000 - 19,000	480,920	73,510	554,430	26	4	18,481	\$76.13	\$1,979.38	\$304.52
	19,000 - 20,000			528,840		- 6		\$79.71		\$478.26
	20,000 - 25,000		393,940	1,521,470	51	18	22,050	\$87.69	\$4,472.19	\$1,578.42
	25,000 - 30,000			1,074,280		12	27,546	\$105.50	\$2,848.50	
į	30,000 - 35,000		196,830	453,530	8	6	32,395	\$121.21	\$969.68	\$727.26
	35,000 - 40,000					11			\$1,260.81	
	40,000 - 45,000	166,320	165,980	332,300	4	4	41,538	\$150.83	\$603.32	\$603.32
	45,000 - 50,000		47,500	194,550	. 3	. 1	48,638	\$173,84		\$173.84
1	50,000 - 55,000			408,420	8		51,053	\$181.66	\$1,453.28	\$0.00
ł	55,000 - 60,000			169,980	CONTRACTOR OF THE PROPERTY OF		56,660		\$599.49	
I	60,000 - 65,000			184,420	3 2		61,473	\$215.42	\$646.26	\$0.00
l	65,000 70,000			135,990			67,995	\$236.55		\$0.00
1	70,000 - 75,000 75,000 - 80,000		777 777	70,620	1	7	70,620 77,500	\$245.06 \$267.35	\$245.06 \$267.35	\$0.00 \$267:35
1	80.000 - 80.000 80.000 - 200.000		77,500	155,000		incomments was produced to setting				COMPANIES OF THE PROPERTY OF
I	200,000 - 1,000,000		2,879,730	3,485,200 2,344,000	4	18	159,985 234,400	\$534.60 \$775.71	\$2,138.40	\$9,622.80 \$7,757.10
<u> </u>	Z00,000 - 1,000,000		2,344,000	2,344,000	Constitution (Constitution)	* - 10 ·	234,400	<b>⊅//3:/</b> /18	<b>3</b> 0,00	0F.1C1,1¢
	Subtotal	122,496,472	10,129,204	132,625,676	30,507	1,064			\$634,105.27	\$42,241.02
1	Average Monthly Bill	, ,	- >, · <b>, ·</b>		,,,,,,,	.,			\$20.79	\$39.70
l	Average Monthly Usage	4,015	9,520						¥===,7	<b>******</b>

Meter Size	Water		Usage	•	Total	No. of L	isers		Average	Incon	ne
	Usage		R	С	Usage	R	Ç	Average	Rate	R	С
						_					
1"		1,000	1,623		1,623	3	principa necessarian <del>o n</del> ec	451	\$10.28	\$30.84	\$0.00
	1,000 -	Contract of the second	100	10,980	10,980				\$10.28	\$0.00	\$82.24
	2,000 -	3,000	A STREET SAFERS AND STREET AND SOURCE STREET, SAFERS AND STREET, SAFER	6,630	6,630	6.467 (NACCOMMONSON TO A \$1000 C.			\$11.31	\$0.00	\$33.93
	3,000	12,000		11,160	11,160			11,160	\$52.41	and the comment of the party of	\$52.41
	12,000 -	13,000	12,250		12,250	1		12,250	\$55.94	\$55.94	\$0.00
	13,000 -	25,000	44,250		44,250	2 :		Miles Comment of the Comment of		\$175.88	\$0.00
	25,000 -	30,000	55,160	25,860	81,020	2		1 27,340	\$104.83	\$209.66	\$104.83
	30,000 -	35,000	96,810	165,670	262,480	3		32,810	\$122.55	\$367.65	\$612.75
	35,000 -	40,000	296,140	149,364	445,504	8	4	37,125	\$136.54	\$1,092.32	\$546.16
	40,000	45,000		169,370	169,370			42,343	\$153.44	\$0.00	\$613.76
	45,000 -	50,000	94,110	286,320	380,430	2	(	47,554	\$170.32	\$340.64	\$1,021.92
	50,000 -	55,000	259,720	104,250	363,970	5		2 51,996	\$184.72	\$923.60	\$369.44
	55,000 -	60,000	234,640	289,330	523,970	4		5 58,219	\$204.88	\$819.52	\$1,024.40
	60,000 -	65,000	185,460	440,060	625,520	3		62,552	\$218.92	\$656.76	\$1,532.44
	65,000 -	70,000	133,780		133,780	2		66,890	\$232.97	\$465.94	\$0.00
	70,000 -	75,000	145,150		145,150	2		72,575	\$251.39	\$502.78	\$0,00
1	75,000 -	80,000		157,020	157,020			78,510	\$270.62	\$0.00	\$541.24
	80,000 -	85,000	84,670		84,670	1		84,670	\$290.58	\$290.58	\$0.00
	85,000 -	90,000	344,550	***************************************	344,550	4	~ 1101000000000000000000000000000000000	86,138	\$295.34	\$1,181.36	\$0.00
	90,000 -	100,000	96.300		96,300	1		96,300	\$328,26	\$328,26	\$0.00
,	100,000 -	200,000	254,340	CONTRACTOR CONTRACTOR CONTRACTOR	254,340	2		127,170	\$428.28	\$856.56	\$0.00
						<del></del>					
	S	ubtotal	2,338,953	1,816,014	4,154,967	45	48	3		\$8,298.29	\$6,535.52
	<b>Average Mont</b>	hly Bill		·	•					\$184.41	\$136.16
	Average Month	ily Usage	51,977	37,834							

XXVIII.

# ECWD PHASE 6 FORECAST OF WATER USAGE - INCOME - PROPOSED SYSTEM - EXISTING USERS (January 1, 1998 TO December 31,1998)

ESTILL COUNTY WATER DISTRICT

Meter Size	Wate	er	Total Us	age	Total	No. of U	sers		Average	Incon	ne
	Usag	е	R	С	Usage	R	С	Average	Rate	R	С
2"		1,000	4,570		4,570	9		508	\$10.28	\$92.52	\$0.00
-	1.000		4 500		4,500	3		1.500	\$10.28	\$30.84	
	2,000 -	3,000	2,500		2,500	1		2,500	\$12.73	\$12.73	\$0.00
	3,000 -	4,000	10,300	3,800	14,100	- 3	,==	1 3,525		\$53.22	\$17.74
	4,000 -	5,000	9,200	9,900	19,100	2		2 4,775	\$23.85	\$47.70	\$47.70
	5,000	6,000	38,200	10,400	48,600	7		2 5,400	\$26.85	\$187.95	\$53.70
	6,000 -	7,000	32,390	25,912	58,302	5		4 6,478	\$31.96	\$159.80	\$127.84
	7,000 -	8,000	30,500	37,600	68,100	4		5 7,567	\$37.12	\$148.48	\$185.60
	8,000 -	9,000	17,000	16,900	33,900	2		2 8,475	\$41.42	\$82.84	\$82.84
	9,000 -	10,000		9,400	9,400			1 9,400	\$45.81	\$0.00	\$45.81
	10,000 -	12,000	22,700	23,700	46,400	2		2 11,600	\$53.83	\$107.66	\$107.66
	12,000 -			12,400	12,400			1 12,400	\$56.43	\$0.00	<b>\$</b> 56.43
	13,000 -	14,000	13,650	13,650	27,300	1		1 13,650	\$60.48	\$60.48	\$60.48
	14,000 -	with the contract of the contr	14,500		14,500	1				\$63.23	\$0.00
	15,000 -	16,000		16,000	16,000			1 16,000	\$68.09	\$0.00	\$68.09
	16,000 -	17,000		16,900	16,900			1 16,900	<b>\$7,1.01</b>	\$0.00	\$71.01
	17,000 -	18,000	34,500		34,500	2		17,250	\$72.14	\$144.28	\$0.00
	18,000	19,000		18,800	55,400	2		1 18,467		\$152.16	\$76.08
	19,000 -	25,000	115,530	162,600	278,130	5		7 23,178	\$91.35	\$456.75	\$639.45
	25,000 -		54,800	195,500		2				\$212.72	
	30,000 -	35,000	***************************************	422,800	422,800		1		\$121.62	\$0.00	\$1,581.06
	35,000		38,227	229,542		1	***********	6 38,253		\$140.19	\$841.14
	40,000 -	45,000		253,680	253,680			6 42,280	\$153.24	\$0.00	\$919.44
		50,000	140,200	140,100		3		3 46,717		\$502.83	\$502.83
	50,000 -	55,000		154,500	154,500			3 51,500	\$183.11	\$0.00	\$549.33
	55,000 -			63,000	63,000			63,000	\$220.37		\$220.37
	65,000 -	70,000		69,800	69,800			1 69,800	\$242.40	\$0.00	\$242.40
	70,000 -		440.000	70,600		CONTRACTOR AND ADDRESS OF THE PARTY OF THE P		70,600		\$0.00	\$244.99
	75,000 -	200,000	418,300 429,800	1,394,330	1,812,630	3	1		\$468.01 -> \$712.53	\$1,404.03 \$1.425.06	\$4,680.10 \$3,562.65
<del></del>	200,000 -	1,000,000	4×4;000	1,074,000		·		J 214,900	₹.Ψ/ 1Z.33	- <b>31;42</b> 3:00	<b></b>
	s	ubtotal	1,467,967	4.446.314	5,914,281	60	8	7		\$5.485.47	\$15,729.26
	Average Mon		,	, ,	.,,		•			\$91.42	\$180.80
	Average Mont		24,466	51,107							

Meter Size	Water		Total Usa	ige	Total	No. of	Users		Average	Income	9
ļ	Usage	F	₹	С	Usage	R	С	Average	Rate	R	С
3"											
Powell		000							\$10.28	\$0.00	\$0.00
Valley	40000 - 200	000		237000	237,000			237,000	\$350.00	\$0.00	\$350.00
	200000 - 1000	000			0					\$0.00	\$0.00
	Subtota	at	0	237,000	237,000	0		I		\$0.00	\$350.00
	Average Monthly Bi	itl								\$0.00	\$350.00
	Average Monthly Us	age	0	237,000							

		Total Usage		Total No. of Users		Average		Incor	Income	
		Ř	C	Usage	R	С	Average	Rate	R	С
	Subtotals	126,303,392	16,628,532	142,931,924	30,612	1,200			\$647,889.03	\$64,855.80
TOTALS			142,931,924			31,812				\$712,744.83

XXX.

#### ECWD PHASE 6

FORECAST OF WATER USAGE - INCOME - PROPOSED SYSTEM - NEW USERS January 1, 1998 to December 31, 1998 (PH 6 ORIGINAL)

#### **ESTILL COUNTY WATER DISTRICT**

Meter Size	Water	Usage		Total	No. of	Users		Average	Income	
	Usage	R	С	Usage	R	С	Average	Rate	R	С
5/8" x 3/4"	- 1,000 1,000 - 2,000		0	0	0		0 500 0 1.500	\$10.28 \$10.28	\$0.00 \$0.00	\$0.00 \$0.00
	2,000 - 3,000		0	<u> </u>	0	# /#TO PROCESSION TO SELECT TO SELEC	0 2,500	\$10.20	\$0.00 \$0.00	\$0.00 \$0.00
	3.000 - 4.000		. 0	Ö	Ö		0 3,500	\$17.62	\$0.00	\$0.00
	4.000 - 5.000		0	6,005,256	1,416 *		0 4,241	\$21.24	\$30,075.84	\$0.00
	5,000 6,000			0,000,200	0			\$27.32	\$0.00	\$0.00
	6,000 - 7,000		0	0	0		0 6,500	\$32.06	\$0,00	\$0.00
	7,000 8,000		0	0	0		0 7.500	\$36,80		\$0.00
	8,000 - 9,000	0	0	0	0		0 8,500	\$41.54	\$0.00	\$0.00
	9,000 10,000	0	0	0	. 0		0 9,500	\$46.28	\$0.00	\$0.00
	10,000 - 11,000		0	0	0		0 10,500	\$50.27	\$0.00	\$0.00
	11,000 - 12,000		0	0	. 0		011,500	\$53.51	\$0.00	\$0,00
	12,000 - 13,000		0	0	0		0 12,500	\$56.75	\$0.00	\$0.00
NA	13,000 : 14,000					~~~~~			\$0.00	CONTRACTOR TO SECURITION OF SE
	14,000 - 15,000		0	0	0		0 14,500	\$63.23	\$0.00	\$0.00
	15 000 - 16 000		0	THE RESIDENCE OF THE PARTY OF T	T o		0 15,500			\$0.00
	16,000 - 17,000		0	0	0		0 16,500 0 17,500	<b>\$</b> 69.71	\$0.00	\$0.00
	17,000 - 18,000			0					\$0.00	
	18,000 - 19,000 19,000 <b>20,000</b>		0 0	0	0		0 18,500 0 19,500	\$76.19 \$79.43	\$0.00 \$0.00	\$0.00 \$0.00
	20.000 - 25.000		0	0	. u		0 19,500	\$79,43 \$89.15	\$0.00 \$0.00	\$0.00 \$0.00
	25,000 - 30,000		THE RESERVE OF THE PARTY OF THE		0.			\$105.35		\$0.00 \$0.00
	30,000 - 35,000		0	0	0		0 32,500	\$103.55 \$121.55	\$0.00 \$0.00	\$0.00 \$0.00
	35,000 - 40,000		0		Ō			\$137.75		\$0.00
	40,000 - 45,000	and the second s	0	0	0	ASSESSED OF BUILDING	0 42,500	\$153.95	\$0.00	\$0.00
	45,000 - 50,000		0	0	0			PROPERTY OF THE PROPERTY OF TH	\$0.00	\$0.00
	50,000 - 55,000	0	0	0	0		0 52,500	\$186.35	\$0.00	\$0.00
	55,000 - 60,000	0	0	0	0			\$202.55	\$0.00	
	60,000 - 65,000		0	0	0		0 62,500	\$218.75	\$0.00	\$0.00
		- F. O	0	0	0		0 67,500	\$234,95	\$0.00	\$0.00
	70,000 - 75,000	0	0	0	0		0 72,500	\$251.15	\$0.00	\$0.00
	75,000 - 80,000	RECOGNITIONS - THE SECRETARY PROPERTY OF THE P	0	0	Statement and sold of the trans	the second section of the second	Charles and the same of the sa	\$267.35	Charles and the second	\$0.00
	80,000 - 200,000	0	0	0	0		0 140,000	\$469.85	\$0.00	\$0.00
L	200,000 - 1,000,000	0	0	0	0 .		0 600,000	\$1,960.25	\$0.00	\$0.00
	Subtotal Average Monthly Bill	6,005,256	0	6,005,256	1,416		0		\$30,075.84 \$21.24	\$0.00 \$0.00
	Average Monthly Usage	4,241	0						¥41.47	<b>40.00</b>

<sup>•</sup> Number of users based upon 80% of potential customers actually tapping into the new water line.

XXIX.	PROPOSED OPERATION (1st Full Year of Operation )	NG BUDGET - PROPOSED V iion)	VATER SYSTEM - N Year Ending	
	A. Operating Income:	3.0% Annual Inflation 5.0% RD Loan	\$1,372,767	
	Water Sales Disconnect/Reconne Other (Describe)	ect/Late Charge Fees		\$30,076
	Less Allo	wances and Deductions	_	<del></del>
	Total Operating Inco	me	<u> </u>	\$30,076
		tenance Expenses: System of Accounts prescribed n of Regulatory Utility Commis		
	Source of Supply Ex	pense		\$14,913
	Pumping Expense		_	\$5,767
	Water Treatment Ex			\$0 \$773
	Transmission and D Customer Accounts		_	\$1,200
	Administrative and G			\$2,654
	Total Operating Exp	enses		\$25,307
	Net Operating Incom	ne		\$4,769
	C. Non-Operating Incom	me:		
	Interest on Deposits Other (Identify)	,		\$0
	Total Non-Operating	Income	_	\$0
	D. Net Income			\$4,769
	E. Debt Repayment:			
	RD Interest RD Principal Non-RD Interest Non-RD Principal			
	Total Debt Repayme	ent		\$81,383
	F. Balance Available for Depreciation	or Coverage and	· · · · · · · · · · · · · · · · · · ·	-\$76,614
	G. Required Coverage	@ 20%		\$16,277
	H. Surplus (Deficit)			-\$92,891

XXXII.

# ECWD PHASE 6 FORECAST OF WATER USAGE - INCOME - PROPOSED SYSTEM - NEW USERS January 1, 1998 to December 31,1998 (COBHILL AREA)

#### **ESTILL COUNTY WATER DISTRICT**

Meter Size	Water		Usage		Total	No. of U	sers		Average	Income	e
	Usage		R	С	Usage	R	С	Average	Rate	R	С
5/8" x 3/4"	-	1,000	0	0	0	0	C		\$10.28	\$0.00	\$0.00
	1,000 -	2,000	0	, 0	0	. 0	C	1,500	\$10.28	\$0.00	the second second
	2,000 -	3,000	0	0	0	0	C		\$12.73	\$0.00	\$0.00
1	3,000 -	4,000	0	. 0	. 0	0	C		\$17.62	\$0.00	The second second
	4,000 -	5,000	8,396,280	0	8,396,280	1,992 *	C		\$21,11	\$42,051.12	\$0.00
1	5,000 -	6,000	0	- 0	0	0	C		\$27,32		***
	6,000 -	7,000	0	0	0	0	C		\$32.06	\$0.00	\$0.00
	7,000 -	8,000	0	0	0	0	Ċ	7,500	\$36.80	\$0.00	\$0.00
1	8,000 -	9,000	0	0	0	0	C		\$41.54	\$0.00	\$0.00
	9,000 -	10,000	0	Ö	0	0		9,500	\$46.28	\$0.00	\$0,00
	10,000 -	11,000	0	0	0	0	C		\$50.27	\$0.00	\$0.00
	11,000 -	12,000		. 0		0	Č	11,500	\$53.51	\$0.00	\$0.00
) ;	12,000 -	13,000	0	0	0	0	C	12,500	\$56.75	\$0.00	\$0.00
	13,000 -	14,000	0	0	- 0	.0	0	13,500	\$59,99	\$0.00	\$0,00
	14,000 -	15,000	0	0	0	0	C	14,500	\$63.23	\$0.00	\$0.00
	15.000 -	16,000	0.	. 0	0	Ō	C	15,500	\$66.47	\$0.00	\$0.00
	16,000 -	17,000	0	0	0	0	C	16,500	\$69.71	\$0.00	\$0.00
	17.000 -	18 000	0	0	0	0	(	17.500	\$72.95	\$0.00	\$0.00
	18,000 -	19,000	0	0	0	0	C	Access to the second se	\$76.19	\$0.00	\$0.00
	19,000 -	20,000	0 *	0	- / 0	0	777		\$79.43	\$0.00	->-\$0.00
	20,000 -	25,000	0	0	0	0	(	22 500	\$89.15	\$0.00	\$0.00
į l	25,000 -	30,000	0	O.	0	0		27.500	\$105.35		\$0.00
	30,000 -	35,000	0	0	0	0	C		\$121.55	\$0.00	\$0.00
ļ .	35,000 -	40,000	0.		. 01	0			\$137.75	\$0.00	\$0.00
i l	40,000 -	45,000	0	0	0	0	(	42,500	\$153.95	\$0.00	\$0.00
	45,000 -	50,000	0	0	0.	0		47.500	\$170,15	\$0.00	\$0.00
	50,000 -	55,000	0	0	0	0	C		\$186,35	\$0.00	\$0.00
	55,000 -	60 000	0 '	0	ō.		′ (	57,500	\$202.55	\$0.00	\$0.00
li l	60,000 -	65,000	0	0	0	0	C		\$218.75	\$0.00	\$0.00
	65,000	70,000	0	0	-0	. 0	(	67,500	\$234.95	\$0.00	\$0.00
1	70,000 -	75,000	0	0	0	0	(		\$251.15	\$0.00	\$0.00
]	75,000	80 000	Ö	0	O.	0					\$0.00
	80.000 -	200,000	0	0	0	0	(	AND AND THE PARTY AND	\$469.85	\$0.00	\$0.00
	200,000 -		0			0			********		\$0.00
		Subtotal	0.200.200		0.200.200	4.002	-	`		£42.0E4.42	\$0.00
	Augran 44-		8,396,280	0	8,396,280	1,992	C	,		\$42,051.12	
	Average Mo Average Mor		4,215	0						\$21.11	\$0.00

<sup>•</sup> Number of users based upon 80% of potential customers actually tapping into the new water line.

		ING BUDGET - PROPOSED		
(18	st Full Year of Opera	tion)	Year Ending	1998
٨	Operating Income:	3.0% Annual Inflation		
A.	Operating Income:	5.0% RD Loan	\$951,850	
		CDBG	\$985,000	
	Water Sales	CDBG	Ψ505,000	\$42,051
		ect/Late Charge Fees		Ψ42,001
	Other (Describe)	cortate only of cos		
	Other (Describe)		destantin	
	Less Allo	wances and Deductions		*
	Total Operating Inco	amo		\$42,051
	Total Operating inco	ome		\$42,03T
B.	Operation and Main	tenance Expenses:		
		System of Accounts prescribe	ed by	
		n of Regulatory Utility Commi		
	Source of Supply Ex	xpense		\$20,859
	Pumping Expense	•		\$8,065
	Water Treatment Ex	rpense		\$0
•	Transmission and D	Distribution Expense		\$1,081
	<b>Customer Accounts</b>	•	***	\$1,678
	Administrative and (	General Expense	_	\$3,712
•	Total Operating Exp	penses	<u>.</u>	\$35,395
	Net Operating Incor	me		\$6,656
•	No a Consenting of the se		_	
C.	Non-Operating Inco	ome:		
	Interest on Deposits	5		
	Other (Identify)	•	_	\$0
			_	
	Total Non-Operating	a Income		
		gincome		\$0
D.				
D.		· · · · · · · · · · · · · · · · · · ·	 	\$6,656
	Net Income			
	Net Income Debt Repayment:			
	Net Income			
E.	Net Income	ent		\$6,656
E.	Net Income	ent		\$6,656 \$56,430
E.	Net Income	ent		\$6,656 \$56,430
E.	Net Income	ent		\$6,656 \$56,430 -\$49,774
E.	Net Income	ent		\$6,656 \$56,430
E. F.	Net Income	ent		\$6,656 \$56,430 -\$49,774 \$11,286

XXXIV PROPO	OSED OPERATII	NG BUDGET - PROPOSED		
(1st Fu	II Year of Operati	on)	Year Ending	1998
A. Ope	rating Income:	3.0% Annual Inflation	<b>6000 202</b>	
		5.0% RD Loan	\$686,383	
10/04	er Sales	RD Grant 50%	\$686,384	\$30,076
		ct/Late Charge Fees	<del></del>	Ψ30,070
	er (Describe)	Circate Charge I ecs	<del></del>	·
Oun	ci (Describe)		_	
	Less Allov	vances and Deductions		<del></del>
Tota	al Operating Inco	me	<u> </u>	\$30,076
D. One	ration and Maint	onence Eynences		
		enance Expenses: system of Accounts prescribe	ad by	
		of Regulatory Utility Commi		
Nat	ional Association	Torregulatory outling commit	obionicio)	
Sou	rce of Supply Ex	nenco		\$14,913
	nping Expense	perise	<del></del>	\$5,767
	er Treatment Ex	nense	<del></del>	\$0
	•	stribution Expense	_	\$773
	tomer Accounts		<del></del> -	\$1,200
	ninistrative and G			\$2,654
•				
Tota	al Operating Expe	enses		\$25,307
•				<del></del>
Net		ie	<del></del>	\$4,769
		ie	<del></del>	
C. Nor	Operating Incom	ie	<del></del>	
C. Nor	Operating Incom n-Operating Incor	ie	<del></del>	
C. Nor	Operating Incom	ie	<del></del>	\$4,769
C. Nor Inte Oth	Operating Incom n-Operating Incor	ne:	<del></del>	\$4,769
C. Nor Inte Oth Tota	Operating Income Properating Income Properation Inc	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota	Operating Income Properating Income Properation Inc	ne:		<b>\$4,769</b>
C. Nor Inte Oth Tota D. Net	Operating Income Properating Income Properation Inc	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det	Operating Income A-Operating Inc	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det	Operating Income a-Operating Income Income Income Income Income Interest Interest	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det RD RD	Operating Income a-Operating Income Income Income Income Income Interest Principal	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor	Operating Income a-Operating Income Income Income Income Interest Principal Income Income Interest Principal Income Interest Inte	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor	Operating Income a-Operating Income Income Income Income Income Interest Principal	ne: Income		\$4,769 \$0 \$0
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor	Operating Income Apperating Income Income Income Income Interest Principal IncRD Principal	ne: Income		\$4,769 \$0 \$0 \$4,769
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor Nor	Operating Income a-Operating Income Income Income Income Interest Principal IncRD Interest Income Incom	ne: Income		\$4,769 \$0 \$0 \$4,769
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor Nor Tota F. Bala	Operating Income a-Operating Income Income Income Income Interest Principal In-RD Interest Interest Interest Interest Interest Interest Interest Interest Interest Income	ne: Income ent		\$4,769 \$0 \$4,769 \$40,692
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor Nor Tota F. Bala	Operating Income a-Operating Income Income Income Income Interest Principal In-RD Interest Interest Interest Interest Interest Interest Interest Interest Interest Income	ne: Income		\$4,769 \$0 \$4,769 \$40,692
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor Nor Tota F. Bala	Operating Income a-Operating Income Income Income Income Interest Principal In-RD Interest Interest Interest Interest Interest Interest Interest Interest Interest Income	Income ent		\$4,769 \$0 \$4,769 \$40,692
C. Nor Inte Oth Tota D. Net E. Det RD RD Nor Nor Tota F. Bala Dep G. Rec	Operating Income an Operating Income Income Income Income Interest Principal In-RD Interest Interest Interest Interest Income In	Income ent		\$4,769 \$0 \$4,769 \$40,692 -\$35,923

## Funding Option 3 & 4

	ING BUDGET - PROPOSED WA		
(1st Full Year of Opera	tion)	Year Ending	1998
A. Operating Income:	3.0% Annual Inflation		
	5.0% RD Loan	\$475,925	
	CDBG (\$985,000) &	¢4 400 005	
Water Sales	RD Grant 50%	\$1,460,925	\$42,051
	ect/Late Charge Fees		<b>412,001</b>
Other (Describe)	· ·		
Less Allo	wances and Deductions		
Total Operating Inco	ome		\$42,051
D. On anation and Maio			
B. Operation and Main (Based on Uniform)	tenance Expenses: System of Accounts prescribed t	٦V	
•	n of Regulatory Utility Commissi		
		·	
Source of Supply Ex	rpense		\$20,859
Pumping Expense			\$8,065
Water Treatment Ex		_	\$0 \$1,081
Transmission and D Customer Accounts		_	\$1,678
· Administrative and (			\$3,712
Total Operating Exp	penses		\$35,395
Net Operating Incor	me		\$6,656
C. Non-Operating Inco	me:		
Interest on Denseits			
Interest on Deposits Other (Identify)			\$0
Other (identity)			
Total Non-Operating	g Income	_	\$0
D. Net Income		<u> </u>	\$6,656
E. Debt Repayment:			
RD Interest			
RD Principal			
Non-RD Interest		-	
Non-RD Principal			
Total Debt Repaym	ent		\$28,215
F. Balance Available for	or Coverage and		
			-\$21,559
O. Barrillar I Orice	@ 200/		¢E 642
G. Required Coverage	: @ 20%		\$5,643
H. Surplus (Deficit)			-\$27,202
The second secon			

A. Operating Income: 3.0% Annual Inflation 5.0% RD Loan \$461,383  ARC (\$450,000) & \$911,384  Water Sales	(1st Full Year of Operat	NG BUDGET - PROPOSED W.	Year Ending	1998
Solid   Spans   Span	(15t) un real el operal			
## ARC (\$450,000) & ## \$911,384    Water Sales   \$30,07	A. Operating Income:	3.0% Annual Inflation		
RD Grant 50% \$911,384  Water Sales Disconnect/Reconnect/Late Charge Fees Other (Describe)  Less Allowances and Deductions  Total Operating Income \$30,07  B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,99 Pumping Expense \$5,76 Water Treatment Expense \$7,76 Customer Accounts Expense \$1,20 Administrative and General Expense \$2,66  Total Operating Expenses \$25,30  Net Operating Income \$44,70  C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income \$4,70  E. Debt Repayment:  RD Interest RD Principal Non-RD Principal Total Debt Repayment \$27,30  F. Balance Available for Coverage and		5.0% RD Loan	\$461,383	
RD Grant 50% \$911,384  Water Sales Disconnect/Reconnect/Late Charge Fees Other (Describe)  Less Allowances and Deductions  Total Operating Income \$30,07  B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,99 Pumping Expense \$5,76 Water Treatment Expense \$7,76 Customer Accounts Expense \$1,20 Administrative and General Expense \$2,66  Total Operating Expenses \$25,30  Net Operating Income \$44,70  C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income \$4,70  E. Debt Repayment:  RD Interest RD Principal Non-RD Principal Total Debt Repayment \$27,30  F. Balance Available for Coverage and		ARC (\$450,000) &		
Disconnect/Reconnect/Late Charge Fees Other (Describe)  Less Allowances and Deductions  Total Operating Income		RD Grant 50%	\$911,384	
Other (Describe)  Less Allowances and Deductions  Total Operating Income				\$30,076
Less Allowances and Deductions  Total Operating Income		ect/Late Charge Fees		
Total Operating Income	Other (Describe)			
B. Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,9° Pumping Expense \$5,7° Water Treatment Expense \$5,7° Customer Accounts Expense \$1,20° Administrative and General Expense \$1,20° Administrative and General Expense \$2,6°  Total Operating Expenses \$25,3° Net Operating Income \$4,7° C. Non-Operating Income: Interest on Deposits Other (Identify) \$5 Total Non-Operating Income \$4,7° E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,3° F. Balance Available for Coverage and	Less Allo	wances and Deductions		
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,9° Pumping Expense \$5,7° Water Treatment Expense \$5,7° Water Treatment Expense \$5,7° Customer Accounts Expense \$1,2° Administrative and General Expense \$2,6°  Total Operating Expenses \$25,3° Net Operating Income \$4,7° C. Non-Operating Income:  Interest on Deposits Other (Identify) \$5 Total Non-Operating Income \$4,7° E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,3° F. Balance Available for Coverage and	Total Operating Inco	ome		\$30,076
(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,9° Pumping Expense \$5,7° Water Treatment Expense \$5,7° Water Treatment Expense \$5,7° Customer Accounts Expense \$1,2° Administrative and General Expense \$2,6°  Total Operating Expenses \$25,3° Net Operating Income \$4,7° C. Non-Operating Income:  Interest on Deposits Other (Identify) \$5 Total Non-Operating Income \$4,7° E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,3° F. Balance Available for Coverage and				
National Association of Regulatory Utility Commissioners)  Source of Supply Expense \$14,99 Pumping Expense \$5,76 Water Treatment Expense \$5,77 Water Treatment Expense \$1,20 Customer Accounts Expense \$1,20 Administrative and General Expense \$2,66  Total Operating Expenses \$25,30 Net Operating Income \$4,76  C. Non-Operating Income:  Interest on Deposits Other (Identify) \$5 Other (Identify) \$5 Check Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,36 F. Balance Available for Coverage and			*****	
Source of Supply Expense \$114,97 Pumping Expense \$5,76 Water Treatment Expense \$5,77 Customer Accounts Expense \$1,20 Administrative and General Expense \$2,66  Total Operating Expenses \$25,30 Net Operating Income \$4,76  C. Non-Operating Income: Interest on Deposits Other (Identify) \$5 Total Non-Operating Income \$4,76  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,36  F. Balance Available for Coverage and				
Pumping Expense         \$5,76           Water Treatment Expense         \$           Transmission and Distribution Expense         \$77           Customer Accounts Expense         \$1,20           Administrative and General Expense         \$2,60           Total Operating Expenses         \$25,30           Net Operating Income         \$4,76           C. Non-Operating Income:         Interest on Deposits           Other (Identify)         \$           Total Non-Operating Income         \$4,70           E. Debt Repayment:         \$4,70           E. Debt Repayment:         \$4,70           RD Interest RD Principal Non-RD Interest Non-RD Interest Non-RD Principal         \$27,30           Total Debt Repayment         \$27,30           F. Balance Available for Coverage and	National Association	n of Regulatory Utility Commissi	oners)	
Pumping Expense         \$5,76           Water Treatment Expense         \$           Transmission and Distribution Expense         \$77           Customer Accounts Expense         \$1,20           Administrative and General Expense         \$2,60           Total Operating Expenses         \$25,30           Net Operating Income         \$4,76           C. Non-Operating Income:         Interest on Deposits           Other (Identify)         \$           Total Non-Operating Income         \$4,70           E. Debt Repayment:         \$4,70           E. Debt Repayment:         \$4,70           RD Interest RD Principal Non-RD Interest Non-RD Interest Non-RD Principal         \$27,30           Total Debt Repayment         \$27,30           F. Balance Available for Coverage and	Savesa of Symphy Ev			¢14 012
Water Treatment Expense         \$77           Transmission and Distribution Expense         \$77           Customer Accounts Expense         \$1,20           Administrative and General Expense         \$2,65           Total Operating Expenses         \$25,30           Net Operating Income         \$4,76           C. Non-Operating Income:         \$4,76           Interest on Deposits         \$50           Other (Identify)         \$50           Total Non-Operating Income         \$4,70           E. Debt Repayment:         \$4,70           E. Debt Repayment:         \$4,70           RD Interest RD Principal Non-RD Interest Non-RD Principal         \$50           Total Debt Repayment         \$27,30           F. Balance Available for Coverage and		pense		
Transmission and Distribution Expense         \$77           Customer Accounts Expense         \$1,20           Administrative and General Expense         \$2,66           Total Operating Expenses         \$25,30           Net Operating Income         \$4,76           C. Non-Operating Income:         Interest on Deposits Other (Identify)           Total Non-Operating Income         \$4,76           D. Net Income         \$4,76           E. Debt Repayment:         \$4,76           RD Interest RD Principal Non-RD Interest Non-RD Principal         \$2,73           Total Debt Repayment         \$27,3           F. Balance Available for Coverage and         \$27,3		mense		\$0
Customer Accounts Expense         \$1,20           Administrative and General Expense         \$2,68           Total Operating Expenses         \$25,30           Net Operating Income         \$4,70           C. Non-Operating Income:         Interest on Deposits           Other (Identify)         5           Total Non-Operating Income         \$4,70           E. Debt Repayment:         \$4,70           E. Debt Repayment:         \$4,70           RD Interest RD Principal Non-RD Interest Non-RD Interest Non-RD Principal         \$27,30           Total Debt Repayment         \$27,30           F. Balance Available for Coverage and         \$27,30			_	\$773
Administrative and General Expense   \$2,65     Total Operating Expenses   \$25,30     Net Operating Income   \$4,76     C. Non-Operating Income:       Interest on Deposits Other (Identify)   \$5     Total Non-Operating Income   \$4,76     D. Net Income   \$4,76     E. Debt Repayment:       RD Interest   RD Principal         Non-RD Interest         Non-RD Principal         Total Debt Repayment   \$27,36     F. Balance Available for Coverage and		•	<del></del>	\$1,200
Net Operating Income . \$4,76  C. Non-Operating Income:  Interest on Deposits Other (Identify)				\$2,654
Net Operating Income . \$4,76  C. Non-Operating Income:  Interest on Deposits Other (Identify)				***
C. Non-Operating Income:  Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income  Stantom  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment  Total Debt Repayment  \$27,38  F. Balance Available for Coverage and	Total Operating Exp	enses	· · · · · · · · · · · · · · · · · · ·	\$25,307
Interest on Deposits Other (Identify)  Total Non-Operating Income  D. Net Income	Net Operating Incon	ne	· · · · · · · · · · · · · · · · · · ·	\$4,769
Other (Identify)  Total Non-Operating Income  D. Net Income	C. Non-Operating Incom	me:		
Other (Identify)  Total Non-Operating Income  D. Net Income	Interest on Denosits			
Total Non-Operating Income  D. Net Income \$4,76  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal Total Debt Repayment \$27,35  F. Balance Available for Coverage and		•		\$0
D. Net Income \$4,70  E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment \$27,30  F. Balance Available for Coverage and				
E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment \$27,38  F. Balance Available for Coverage and	Total Non-Operating	Income	<u></u>	\$0
E. Debt Repayment:  RD Interest RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment \$27,38  F. Balance Available for Coverage and	D. Net Income			\$4,769
RD Interest RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment	D. Net moonie			<b>V</b> -1,1 00
RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment \$27,38  F. Balance Available for Coverage and	E. Debt Repayment:			
RD Principal Non-RD Interest Non-RD Principal  Total Debt Repayment \$27,38  F. Balance Available for Coverage and	RD Interest			
Non-RD Interest Non-RD Principal  Total Debt Repayment			<del></del>	
Total Debt Repayment	•			
F. Balance Available for Coverage and	Non-RD Principal			
F. Balance Available for Coverage and	Total Debt Renavme	ent		\$27.353
	Total Dobt Nopayin	·····		7-1,000
Depreciation	F. Balance Available for	or Coverage and		
	Depreciation			-\$22,584
G. Required Coverage @ 20% \$5,4	G. Required Coverage	@ 20%		\$5,471
		-	_	
H. Surplus (Deficit)	H. Surplus (Deficit)			-\$28,054

## Funding Op n 5

XXXVII PROPOSED OPERATING	G BUDGET - PROPOSED W	ATER SYSTEM - N	IEW USERS
(1st Full Year of Operatio		Year Ending	1998
	3.0% Annual Inflation 5.0% RD Loan	\$230,691	
	ARC (\$450,000) &	•	
Water Sales	RD Grant 75%	\$1,142,076	\$30,076
Disconnect/Reconnect	t/Late Charge Fees		Ψου,υτο
Other (Describe)			
Less Allowa	ances and Deductions		
Total Operating Incom	ne	<u> </u>	\$30,076
B. Operation and Mainter	nance Expenses: stem of Accounts prescribed	by	
	of Regulatory Utility Commiss		
Source of Supply Expe	ense		\$14,913
Pumping Expense Water Treatment Expe	anco	_	\$5,767 \$0
Transmission and Dis			\$773
Customer Accounts E			\$1,200
Administrative and Ge		_	\$2,654
Total Operating Exper	nses	<u> </u>	\$25,307
Net Operating Income			\$4,769
C. Non-Operating Incom-	e:		
Interest on Deposits			
Other (Identify)		_	\$0
Total Non-Operating I	ncome		\$0
D. Net Income		<u>-</u>	\$4,769
E. Debt Repayment:			
RD Interest			
RD Principal		_	
Non-RD Interest			
Non-RD Principal			
Total Debt Repaymer	nt	· · · · · · · · · · · · · · · · · · ·	<u>\$13,676</u>
F. Balance Available for			
Depreciation		·····	-\$8,907
G. Required Coverage @	② 20%	_	\$2,735
H. Surplus (Deficit)			-\$11,642

XXXVIII.		ING BUDGET - PROPOS		
	(1st Full Year of Opera	ation)	Year Ending _	1998
	A. Operating Income:	3.0% Annual Inflation		
	7. Operating moonie.	5.0% RD Loan	\$237,962	
		CDBG (\$985,000	)) &	
		RD Grant 75%	\$1,698,888	
	Water Sales			\$42,051
		nect/Late Charge Fees		···
	Other (Describe)		_	
	Less Alle	owances and Deductions	_	
	Total Operating Inc	ome		\$42,051
	B. Occupitant and Mate			
	B. Operation and Mair	ntenance Expenses: System of Accounts preso	rihad hv	
		on of Regulatory Utility Cor		
	radona / locolado	on or regulatory ounty ou	, , , , , , , , , , , , , , , , , , ,	
	Source of Supply E	xpense		\$20,859
	Pumping Expense			\$8,065
	Water Treatment E	xpense		\$0
		Distribution Expense	_	\$1,081
	Customer Accounts			\$1,678
•	Administrative and	General Expense	-	\$3,712
	Total Operating Ex	penses	<u> </u>	\$35,395
	Net Operating Inco	me		\$6,656
	C. Non-Operating Inco	ome:		
	Interest on Deposit	•		
	Other (Identify)		_	\$0
	, ,,		_	
	Total Non-Operating	ig Income	_	\$0
	D. Net Income			\$6,656
	E. Debt Repayment:			
	RD Interest			
	RD Principal		_	
	Non-RD Interest			
	Non-RD Principal		_	
	Total Debt Repayn	nent		\$14,107
	E Palance Available	for Coverage and		
	F. Balance Available Depreciation	ior Coverage and		-\$7,452
	Doprodation		_	77,102
	G. Required Coverage	e @ 20%	_	\$2,821
	H. Surplus (Deficit)			-\$10,273
			-	

XXXILX. ESTIMATED PROJECT COST- SEV	VER SYST	<u>EM</u>			
(Round to nearest \$100)	COLLECTION		TREATMENT		
	EPA Eligible	Non-EPA Eligible	EPA Eligible	Non- EPA Eligible	Total
Development	\$	\$	\$	\$	\$
Land and Rights					
Legal				·	
Engineering					
Interest					
Contingencies					
Initial O&M					
Other					
TOTAL	\$	\$	\$	\$	\$
			,		
XL. PROPOSED PROJECT FUNDING- SEWER (Round to nearest \$100)					
Applicant - User Connection Fees	\$	\$	\$	\$	\$
Other Applicant Contribution					
RD Financial Assistance					
Other (Specify)					
Other (Specify)					

Other (Specify)

Other (Specify)

TOTAL

#### XLIII. ESTIMATED PROJECT COST - WATER

Development:	
Cohill	<u>1,445,730</u>
Ph 6 Original	1,227,082
Subtotal	\$ 2,672,812
Land and Rights	30,000
Administrative and Legal	72,000
Engineering	<u> 189,770</u>
Resident Inspection	88,203
Additional Engineering	50,000
Miscellaneous	70,000
Contingencies	226,032
Total	\$ 3,398,817

### XLII. ESTIMATED PROJECT FUNDING - WATER

A summary of the proposed funding is as follows:

FUNDING OPTION 1		Cobhill Area	<u>Ph 6</u> Original	<u>Total</u>
RD Grant	0%	\$0	\$0	\$0
RD Loan	100%	\$1,902,900	\$1,372,767	\$3,275,667
CDBG		\$0	\$0	\$0
ARC		\$0	\$0	\$0
Tap Fees	@ \$350	\$59,850	\$41,300	\$101,150
Local Contribution	Subtotals	\$12,000 <b>\$1,974,750</b>	\$10,000 <b>\$1,424,06</b> 7	\$22,000 <b>\$3,398,81</b> 7
FUNDING OPTION 2		Cobhill Area	<u>Ph 6</u> <u>Original</u>	<u>Total</u>
RD Grant	` 0%	\$0	\$0	\$0
RD Loan	100%	\$951,850	\$1,372,767	\$2,324,617
CDBG		\$985,000	\$0	\$985,000
ARC		\$0	\$0	\$0
Tap Fees	@ \$350	\$25,900	\$41,300	\$67,200
Local Contribution		\$12,000	\$10,000	\$22,000
	Subtotals	\$1,974,750	\$1,424,067	\$3,398,817

FUNDING OPTION 3  RD Grant RD Loan CDBG ARC Tap Fees Local Contribution	50% 50% @ \$350 Subtotals	Cobhill Area \$475,925 \$475,925 \$985,000 \$0 \$25,900 \$10,000 \$1,974,750	Ph 6 Original \$686,384 \$686,383 \$0 \$0 \$41,300 \$10,000 \$1,424,067	Total \$1,162,309 \$1,162,308 \$985,000 \$0 \$67,200 \$20,000 \$3,398,817
FUNDING OPTION 4  RD Grant RD Loan CDBG ARC Tap Fees Local Contribution	50% 50% @ \$350 Subtotals	Cobhill Area \$475,925 \$475,925 \$985,000 \$0 \$25,900 \$12,000 \$1,974,750	Ph 6 Original \$461,384 \$461,383 \$0 \$450,000 \$41,300 \$10,000 \$1,424,067	Total \$937,309 \$937,308 \$985,000 \$450,000 \$67,200 \$22,000 \$3,398,817
Recommended FUNDING OPTION 5 RD Grant RD Loan CDBG ARC Tap Fees Local Contribution	Funding 75% 25%  @ \$350	Cobhill Area \$713,888 \$237,962 \$985,000 \$0 \$25,900 \$12,000	Ph 6 Original \$692,076 \$230,691 \$0 \$450,000 \$41,300	Total \$1,405,963 \$468,654 \$985,000 \$450,000 \$67,200

\$1,424,067

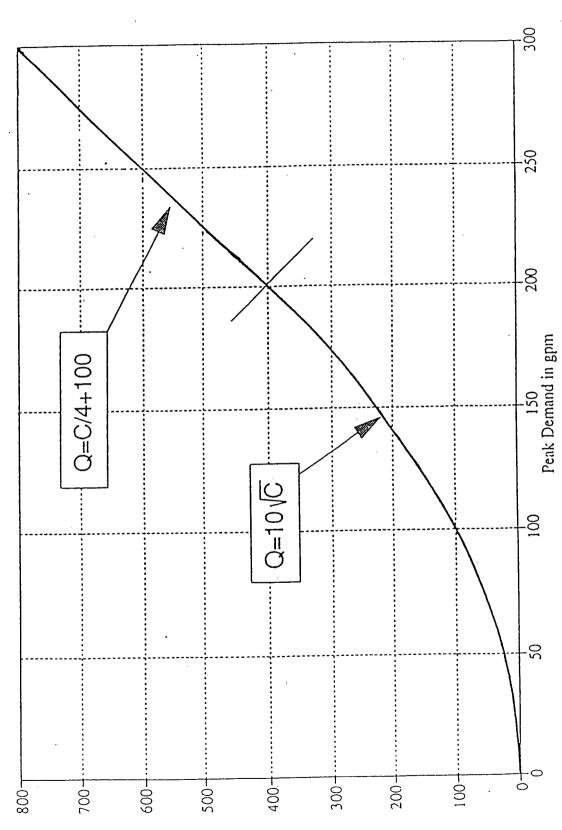
\$3,398,817

\$1,974,750

Subtotals

FIGURES

Peak Demands vs Number of Customers



Projected Customers in Project

Figure No. 1

TABLES



TABLE 1 a

ESTILL COUNTY WATER DISTRICT ECWD- PHASE 6 ORIGINAL PROJECT

#### ESTIMATED PROJECT COSTS:

NO.	ITEM	QUANITY	UNIT	UNIT PRICE	TOTAL
WATE	ER LINE CONSTRUCTION	· · · · · · · · · · · · · · · · · · ·			
1	8" Ductile Iron River Crossing Pipe	500	L.F.	\$150.00	\$75,000.00
2	8" PVC Pipe	950	L.F.	\$14.00	\$13,300.00
3	6" PVC Pipe	22,400	L.F.	\$6.40	\$143,360.00
4	4" PVC Pipe	57,124	L.F.	\$5.70	\$325,606.80
<sup>'</sup> 5	3" PVC Pipe	15,800	L.F.	\$4.60	\$72,680.00
6	Valves	60	EA.	\$380.00	\$22,800.00
7	Road Bore	800	L.F.	\$50.00	\$40,000.00
8	Customer Services	148	EA.	\$430.00	\$63,640.00
9	Reconnect Services	20	EA.	\$500.00	\$10,000.00
10	Service Line	7,400	L.F.	\$3.00	\$22,200.00
11	Blowoffs	40	EA.	\$1,200.00	\$48,000.00
12	Stream Crossing	950	L.F.	\$30.00	\$28,500.00
13	Pavement Repair	3,340	L.F.	\$20.00	\$66,800.00
14	Driveway Repair	1,340	EA.	\$5.00	\$6,700.00
15	Tie- ins	30	L.F.	\$1.210.00	\$36,300.00
	al Water Line Construction:				\$974.886.80
	STATION CONSTRUCTION				,
16	Pump Station Renovation	l	LS	\$60,000.00	\$60,000.00
RADI	O TELEMETRY				
17	Telemetering	1	LS	\$192.200.00	\$192,200.00
	TOTAL CONSTRUCTION COSTS				\$1,227,086.80

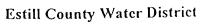


TABLE 1 b

ESTILL COUNTY WATER DISTRICT ECWD- COBHILL PROJECT PROJECT

<b>ESTIMATE</b>	DPROIFO	2T2OO T

NO.	ITEM	QUANITY	UNIT	UNIT PRICE	TOTAL
WAT	ER LINE CONSTRUCTION				
1	6" Ductile Iron River Crossing Pipe	330	L.F.	\$100.00	\$33,000.00
2	6" PVC Pipe	73,200	L.F.	\$6.40	\$468,480.00
3	4" PVC Pipe	51,500	L.F.	\$5.70	\$293,550.00
4	3" PVC Pipe	19,200	L.F.	\$4.60	\$88,320.00
5	Valves	40	EA.	\$380.00	\$15,200.00
6	Road Bore	400	L.F.	\$50.00	\$20,000.00
7	Customer Services	207	EA.	\$430.00	\$89,010.00
8	Service Line	11,000	L.F.	\$3.00	\$33,000.00
9	Blowoffs	12	EA.	\$1,200.00	\$14,400.00
10	Stream Crossing	250	L.F.	\$30.00	\$7,500.00
11	Pavement Repair	1,230	L.F.	\$20.00	\$24,600.00
12	Driveway Repair	1,250	EA.	\$5.00	\$6,250.00
13	Tie- ins	2	L.F.	\$1,210.00	\$2,420.00
Subto	stal Water Line Construction:				\$1,095,730.00
WAT	ER TANK CONSTRUCTION				
14	80,000 Gallon Storage Tank	1	LS	\$115,000.00	\$115,000.00
15	80,000 Gallon Storage Tank	1	LS	\$115.000.00	\$115.000.00
Subto	otal Water Tank Construction:				\$230.000.00
PUM	P STATION CONSTRUCTION				
16	200 GPM Pump Station	l	LS	\$65.000.00	\$65,000.00
17	100 GPM Pump Station	1	LS	\$55,000.00	\$55.000.00
Subto	otal Pump Station Construction:				\$120.000.00
	TOTAL CONSTRUCTION COSTS	Ç-			\$1,445,730.00



TABLE 2

	TOTAL COSTS
Construction : Cobhill Area Ph 6 Original	\$1,445,730 1,227,082
SUBTOTAL:	\$2,672,812
Basic Engineering	189,770
Resident Inspection	88,203
Preliminary Engineering	20,000
Geo-Tech/Survey	20,000
Additional Engineering	50,000
Acquisition	30,000
Interest	25,000
Legal Service	20,000
Administration	52,000
Planning	5,000
Contingencies	226,032
TOTAL PROJECT COSTS:	\$3,398,817

