### **Big Sandy Water District**

18200 State Route 3, Catlettsburg, Kentucky 41129

606 - 928 - 2075

April 20, 2012

RECEIVED

Jeff Derouen
Executive Director
KY Public Service Commission
PO Box 615
Frankfort, KY 40602

APR 2 4 2012
PUBLIC SERVICE
COMMISSION

**RE:** Application for an Adjustment in Rates Pursuant to the Alternative Rate Filling Procedure for Small Utilities

Big Sandy Water District ("Big Sandy") is submitting its application requesting Commission approval of its increase in water rates pursuant to the Alternative Rate Filing Procedure for Small Utilities ("ARF"). Attached is the completed "ARF Application" and the revised tariffs. A copy of this application and related filings has been sent to the Office of the Attorney General, State Capitol Building, Suite 118, Frankfort, KY 40601.

Sincerely,

James Blanton, Manager Big Sandy Water District

James Blandon

**Enclosure** 

#### SUBMIT ORIGINAL AND FIVE ADDITIONAL COPIES, UNLESS FILING ELECTRONICALLY

# APPLICATION FOR RATE ADJUSTMENT



	BEFORE THE PUBLIC SERVICE COMMISSION	APR	2 4 2012
	For Small Utilities Pursuant to 807 KAR 5:076 (Alternative Rate Filing)	UBLIC	SERVIC MISSION
,	Big Sandy Water District (Name of utility)		· · · · · · · · · · · · · · · · · · ·
protect	18200 State Route 3 (Business Malling Address - Number and Street or P.O. Box)		
	Catlettsburg. Kentucky 41129 (Business Malling Address - City. State. and Zip)		
<u></u>	(606) 928 - 2075 (Telephone Number)		n-controller, pr
	BASIC INFORMATION  E, TITLE, ADDRESS, TELEPHONE NUMBER <u>and</u> E-MAIL ADDRESS of the person to whom connunications concerning this application should be directed:	rresponde	ence or
	18200 State Route 3 (Address - Number and Street or P.O. Box)		
	Catlettsburg, Kentucky 41129  (Address-City, State, Zip)		
	(606) 928 - 2075 (Telephone Number)		
	bdistrict@windstream.net  (Email Address)		
	(For each statement below, the Applicant should check either "YES" or "NO".)	YES	NO
1. a.	In its immediate past calendar year of operation, Applicant had \$5,000,000 or less in gross annual revenue.	7	
b.	Applicant operates two or more divisions that provide different types of utility service. In its immediate past calendar year of operation, Applicant had \$5,000,000 or less in gross annual revenue from the division for which a rate adjustment is sought.		Ø
2. a.	Applicant has filed an annual report with the Public Service Commission for the past year.	V	
b.	Applicant has filed an annual report with the Public Service Commission for the two previous years.	<b>7</b>	
3、	Applicant's records are kept separate from other commonly-owned enterprises.	<b>7</b>	П

			YES	NO
4.	a.	Applicant is a corporation. A certified copy of its articles of incorporation and all amendments are attached to this application or were filed with the Public Service Commission in Case No		Ø
	b.	Applicant is a limited liability company. A certified copy of its articles of organization and all amendments are attached to this application or were filed with the Public Service Commission in Case No		V
	C.	Applicant is a limited partnership. A certified copy of its limited partnership agreement and all amendments thereto are attached to this application or were filed with the Public Service Commission in Case No		✓
	ď.	Applicant is a sole proprietorship or partnership.		<b>V</b>
	e.	Applicant is a water district organized pursuant to KRS Chapter 74.	V	
	f.	Applicant is a water association organized pursuant to KRS Chapter 273.		<b>V</b>
5.	a.	A paper copy of this application has been mailed to Office of Rate Intervention, Office of Attorney General, 1024 Capital Center Drive, Suite 200, Frankfort, Kentucky 40601-8204.	<b>7</b>	
	b.	An electronic copy of this application has been electronically mailed to Office of Rate Intervention, Office of Attorney General at rateintervention@ag.ky.gov.		Ø
6.	a.	Applicant has 20 or fewer customers or is a sewer utility and has mailed written notice of the proposed rate adjustment to each of its customers no later than the date this application was filed with the Public Service Commission. A copy of this notice is attached to this application. (Attach a copy of customer notice.)		7
	b.	Applicant has more than 20 customers, is not a sewer utility, and has included written notice of the proposed rate adjustment with customer bills that were mailed by the date on which the application was filed. A copy of this notice is attached to this application. (Attach a copy of customer notice.)		<b>V</b>
	C.	Applicant has more than 20 customers, is not a sewer utility, and has made arrangements to publish notice once a week for three (3) consecutive weeks in a prominent manner in a newspaper of general circulation in its service area, the first publication having been made by the date on which this Application was filed. A copy of this notice is attached to this application. (Attach a copy of customer notice.)	<b>7</b>	
7.		Applicant requires a rate adjustment for the reasons set forth in the attachment entitled "Reasons for Application." (Attach completed "Reasons for Application" Attachment.)	<b>V</b>	

		YES	NO
8.	Applicant proposes to charge the rates that are set forth in the attachment entitled "Current and Proposed Rates." (Attach completed "Current and Proposed Rates" Attachment.)	<b>V</b>	
9.	Applicant proposes to use its annual report for the immediate past year as the test period to determine the reasonableness of its proposed rates. This annual report is for the 12 months ending December 31,2010	<b>7</b>	
10.	Applicant has reason to believe that some of the revenue and expense items set forth in its most recent annual report have or will change and proposes to adjust the test period amount of these items to reflect these changes. A statement of the test period amount, expected changes, and reasons for each expected change is set forth in the attachment "Statement of Adjusted Operations." (Attach a completed copy of appropriate "Statement of Adjusted Operations" Attachment and any invoices, letters, contracts, receipts or other documents that support the expected change in costs.)		
11.	Based upon test period operations, and considering any known and measurable adjustments, Applicant requires additional revenues of \$\frac{250.499}{250.499}\$ and total revenues from service rates of \$\frac{2.386.988}{2.386.988}\$. The manner in which these amounts were calculated is set forth in "Revenue Requirement Calculation" Attachment. (Attach a completed "Revenue Requirement Calculation" Attachment.)	<b>7</b>	
12.	As of the <b>date of the filing of this application</b> , Applicant had <u>4.644</u> customers.	<b>V</b>	
13.	A billing analysis of Applicant's current and proposed rates is attached to this application. (Attach a completed "Billing Analysis" Attachment.)	$\checkmark$	
14.	Applicant's depreciation schedule of utility plant in service is attached. (Attach a schedule that shows per account group: the asset's original cost, accumulated depreciation balance as of the end of the test period, the useful lives assigned to each asset and resulting depreciation expense.)	<b>✓</b>	
15. a.	Applicant has outstanding evidences of indebtedness, such as mortgage agreements, promissory notes, or bonds.	$\square$	
þ.	Applicant has attached to this application a copy of each outstanding evidence of indebtedness (e.g., mortgage agreement, promissory note, bond resolution).		<b>V</b>
c.	Applicant has attached an amortization schedule for each outstanding evidence of indebtedness.	$\checkmark$	

		YES	ИО					
16. a.	Applicant is not required to file state and federal tax returns.	7						
b.	Applicant is required to file state and federal tax returns.		<b>V</b>					
C.	c. Applicant's most recent state and federal tax returns are attached to this Application.  (Attach a copy of returns.)							
17.	Approximately 62% (Insert dollar amount or percentage of total utility plant) of Applicant's total utility plant was recovered through the sale of real estate lots or other contributions.	<b>7</b>						
	I am authorized by the Applicant to sign and file this application on the Applicant's behompleted this application, and to the best of my knowledge all the information contation and its attachments is true and correct.							
	Signed <u>Lambs Lolan Haw</u> Officer of the Company/Authorized Repr	resentativ	<u></u>					
	Title MANAGER							
	Date <u>04/20/12</u>							
COMI	MONWEALTH OF KENTUCKY							
COUN	TY OF BOYD							
behali	Before me appeared <u>JAMES BLANTON</u> , who after being duly swo e had read and completed this application, that he/she is authorized to sign and file this of the Applicant, and that to the best of his/her knowledge all the information contation and its attachments is true and correct.	applicat	ion on					
	Notary Public		**************************************					
	My commission expires: 03/08/1	6						

# LIST OF ATTACHMENTS (Indicate all documents submitted by checking box)

	Applicant's Articles of Incorporation, Articles of Organization, or Limited Partnership Agreement.
	All amendments to Applicant's Articles of Incorporation, Articles of Organization, or Limited Partnership Agreement.
✓	Customer Notice of Proposed Rate Adjustment
V	"Reasons for Application" Attachment
<b>√</b>	"Current and Proposed Rates" Attachment
✓	"Statement of Adjusted Operations" Attachment
<b>V</b>	"Revenue Requirements Calculation" Attachment
<b>V</b>	"Billing Analysis" Attachment
<b>V</b>	Depreciation Schedule
<b>V</b>	Outstanding Debt Instruments (i.e., Bond Resolutions, Mortgages, Promissory Notes, Amortization Schedules.)
	State Tax Return
	Federal Tax Return

#### **CUSTOMER NOTICE**

Big Sandy Water District has applied to the Public Service Commission for an adjustment of rates in the total amount of \$2,387,005 on an annual basis, which is an increase of \$250,516 or approximately 11.73 percent over normalized revenues from water sales of \$2,136,489.

The estimated amount of the total increase per customer class/meter size is:

Requested Increase						
	Percentage					
\$	171,815	68.6%				
	1,083	0.4%				
	144	0.1%				
	1,421	0 6%				
	8,627	3 4%				
	56,791	22 7%				
	5,342	2.1%				
	5,375	2.1%				
\$	250,598	100.0%				
	- No. of the Contract of the C	Dollar \$ 171,815 1,083 144 1,421 8,627 56,791 5,342 5,375				

The comparison of the present and proposed rates of the Big Sandy Water District is as follows:

			5/8 x3/4	Inch M	leter						
		E	xisting	Proposed		Diff	erences				
			Rates		Rates	\$		%			
FIRST	2,000	\$	17 38	\$	20.86	\$	3 48	20 02%			
NEXT	8,000	\$	6 79	\$	6 58	\$	(0.21)	-3.09%			
NEXT	20,000	\$	5.66	\$	6 17	\$	0.51	9.01%			
NEXT	20,000	\$	4.90	\$	5 78	\$	0.88	17 96%			
ALL OVER	50,000	\$	4.14	\$	4 90	\$	0.76	18 36%			
1 Inch Meter											
		E	Existing		Proposed		erences				
			Rates		Rates	\$		%			
FIRST	10,000	\$	71.70	\$	73 50	\$	1 80	2 51%			
NEXT	20,000	\$	5 66	\$	6.17	\$	0 51	9 01%			
NEXT	20,000	\$	4 90	\$	5 78	\$	0 88	17 96%			
OVER	50,000	\$	4 14	\$	4 90	\$	0 76	18 36%			
			1 1/2 I	nch Me	eter						
		E	Existing		roposed	Differences					
		Rates			Rates	\$		%			
FIRST	30,000	\$	184 90	\$	196 90	\$	12 00	6.49%			
NEXT	20,000	\$	4.90	\$	5 78	\$	0 88	17 96%			
OVER	50,000	\$	4.14	\$	4 90	\$	0 76	18 36%			

2 Inch Meter

			- 111	011 11101	U1			
Existing		F	Proposed	Diff	erences			
			Rates Rates				\$	%
FIRST	50,000	\$	282 90	\$	312.50	\$	29 60	10 46%
OVER	50,000	\$	4.14	\$	4 90	\$	0 76	18 36%
			3 In	ch Met	er			
		E	Existing	F	Proposed	Diff	erences	
			Rates		Rates	-	\$	%
FIRST	100,000	\$	489.90	\$	557.50	\$	67 60	13.80%
OVER	100,000	\$	4 14	\$	4 90	\$	0.76	18 36%
			4 In	ch Met	ег			
		Existing Proposed				Diff	erences	
			Rates		Rates		\$	%
FIRST	200,000	\$	903.90	\$	1,047.50	\$	143 60	15 89%
OVER	200,000	\$	4 14	\$	4 90	\$	0 76	18 36%
			WHO	DLESA	LE			
		E	Existing	F	Proposed	Diff	erences	
	Rates				Rates		\$	%
OVERLAND DEVELO	OPMENT:							
MONTHLY SE	MONTHLY SERVICE FEE				N/A		N/A	N/A
RATE PER 1,000 GALLONS			1 87	\$	4 41	\$	2 54	135 83%
CANNONSBURG W	ATER DIST .							
RATE PER 1,000 GALLONS			2 53	\$	4 41	\$	1 88	74 31%
			-					

#### IMPACT ON AVERAGE CUSTOMER BILL

Average Bill

		Existing Gallons Rates		Proposed		Increase			
Meter Size	Gallons				Rates	\$		%	
5/8X3/4 Inch	3,890	\$	30.21	\$	33 30	\$	3 08	10 2%	
1 Inch	15,781	\$	155.36	\$	164.70	\$	9 34	6 0%	
1 1/2 Inch	9,208	\$	184 90	\$	196.90	\$	12 00	6 5%	
2 Inch	2,344	\$	282.90	\$	312 50	\$	29 60	10 5%	
3 Inch	148,257	\$	689 68	\$	793 96	\$	104 28	15 1%	
4 Inch	1,156,922	\$	4,865.56	\$	5,736 42	\$	870 86	17 9%	

The rates contained in this notice are the rates proposed by the Big Sandy Water District; however, the Public Service Commission may order rates to be charged that differ from the proposed rates contained in this notice.

Any corporation, association, or person with a substantial interest in the matter may submit a written request to intervene to the Public Service Commission at the address shown below. Copies of the application may be obtained at no charge by contacting Big Sandy Water District at the address below. Any person may examine the rate application and any other filings at the offices of Big Sandy Water District or the Public Service Commission.

Big Sandy Water District 18200 State Route 3 Catlettsburg, Kentucky 41129

Telephone: 606-928-2075

Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602 Telephone: 502-564-3940

Persons may also view and download a copy of the rate application through the Public Service Commission's website at psc.ky.gov.

#### **REASONS FOR APPLICATION**

(In the space below list all reasons why the Applicant requires a rate adjustment. Describe any event or occurrence of significance that may affect the Applicant's present or future financial condition, including but not limited to excessive water line losses, regulatory changes, major repairs, planned construction, and increases in wholesale water costs.)

The proposed increase in the rates and charges is necessary for Big Sandy Water District ("Big Sandy") to meet continuing demand for adequate service. It has been approximately 17 years since Big Sandy last requested and received a general increase in its base water rates in Case No. 9156. An increase in its rates is essential for Big Sandy to maintain a reasonable level of service, to meet the expanding needs of its service area, and to cover its debt service requirements.
The cost-of-service study produces a $36.82$ percent increase in the minimum bill for the $5/8 \times 3/4$ Inch meter. Big Sandy believes that an increase of this magnitude could result in rate shock to its ratepayers. For this reason, Big Sandy is proposing rates that produce a $20$ percent minimum bill for the $5/8 \times 3/4$ inch meter to gradually move towards the cost-of-service study.

		5/8 x3/4 In	ch N						
		Existing Proposed Differences							
		Rates		Rates		\$	%		
FIRST 2,000	\$	17.38	\$	20 86	\$	3.48	20.02%		
NEXT 8,000	\$	6.79	\$	6 58	\$	(0 21)	-3 09%		
NEXT 20,000	\$	5 66	\$	6.17	\$	0 51	9 01%		
NEXT 20,000	\$	4.90	\$	5.78	\$	0 88	17 96%		
ALL OVER 50,000	\$	4.14	\$	4.90	\$	0.76	18.36%		
		1 Inch 1	viete			marer.			
		Existing		Proposed		Differences	07		
FIDOT 10.000		Rates		Rates		\$ 100	%		
FIRST 10,000	\$	71 70	\$	73 50	\$	1 80	2 51%		
NEXT 20,000	\$	5 66	\$	6 17	\$	0.51	9 01%		
NEXT 20,000	\$	4.90	\$	5 78	\$	0.88	17 96%		
OVER 50,000	\$	4.14 1 1/2 Inch	\$	4.90	\$	0.76	18.36%		
			1 IVIE			Differences			
		Existing Rates		Proposed Rates		Dinerences \$	%		
FIRST 30,000	\$	184.90	\$	196 90	\$	12 00	6 49%		
NEXT 20,000	у \$	4.90	\$	5.78	\$	0 88	17.96%		
OVER 50,000	\$	4.14	\$	4.90	\$	0.76	18.36%		
OVER CO,000	Ψ_	2 Inch 1					70.0078		
		Existing	VICEC	Proposed		Differences			
		Rates		Rates		\$	%		
FIRST 50,000	\$	282 90	\$	312.50	\$	29.60	10 46%		
OVER 50,000	\$	4.14	\$	4.90	\$	0.76	18.36%		
	<del></del>	3 Inch I							
		Existing		Proposed		Differences			
		Rates	Rates			\$	%		
FIRST 100,000	\$	489 90	\$	557 50	\$	67 60	13 80%		
OVER 100,000	\$	4.14	\$	4.90	\$	0.76	18.36%		
		4 Inch I	_	r					
		Existing		Proposed		Differences			
		Rates		Rates		. \$	%		
FIRST 200,000	\$	903 90	\$	1,047 50	\$	143 60	15 89%		
OVER 200,000	\$	4.14	\$	4.90	\$	0.76	18.36%		
WHOLESALE									
Existing Proposed Differences									
		Rates		Rates		\$	%		
OVERLAND DEVELOPMENT.									
MONTHLY SERVICE FEE	\$	547 75		N/A		N/A	N/A		
RATE PER 1,000 GALLONS	\$	1.87	\$	4 41	\$	2.54	135 83%		
CANNONSBURG WATER DISTRIC									
RATE PER 1,000 GALLONS	\$	2.53	\$	4.41	\$	1.88	74.31%		

#### ARF FORM 1 - ATTACHMENT SAO-S - SEPTEMBER 2011

		2010 Annual Report		Differences	Adj Ref.		Pro Forma Operations
Operating Revenues:		Aillidal Nepolt		Dilierences	1/61.		Operations
Revenue - Metered Water Sales	\$	2,104,849	\$	31,640	(a)	\$	2,136,489
Operating Expenses:		211011010	<u> </u>	01,010	(4)	Ψ	2,100,700
Operation & Maintenance:							
Salaries & Wages - Employees	\$	309,202	\$	6,349	(b)	\$	315,551
Salaries & Wages - Commissioners	7	30,000	•	0	(-/	*	30,000
Employee Pension & Benefits		124,033		24,957	(c)		148,990
Purchased Water		795,787		(10,629)	(d)		785,158
Purchased Power		61,674		, o	` '		61,674
Materials & Supplies		115,746		(37,614)	(e)		78,132
Contractual Services - Accounting		4,620		) o	` ,		4,620
Contractual Services - Legal		4,188		0			4,188
Contractual Services - Water Testing		4,978		0			4,978
Contractual Services - Other		26,580		(3,090)	(f)		23,490
Transportation		26,673		0			26,673
Insurance		19,103		(5,399)	(g)		13,704
Advertising		190		0			190
Bad Debt Expense		8,680		0			8,680
Miscellaneous		52,568		0			52,568
Total Operation & Maintenance	\$	1,584,022	\$	(25,426)		\$	1,558,596
Depreciation		393,195		(388)	(h)		392,807
Taxes Other Than Income:							
Payroll Taxes		28,771		(4,632)	(i)		24,139
Utility Operating Expenses	\$	2,005,988	\$	(30,446)		\$	1,975,542
Net Utility Operating Income	\$	98,861	\$	62,086		\$	160,947
Other Income & Deductions:							
Interest Income		3,409		0			3,409
Net Income Available for Debt Service	\$	102,270	\$	62,086		\$	164,356
			-				

(a) Revenue from Water Sales: This adjustment reflects the results of Commission Staff's billing analysis and the current tariffed rate

	Customers	Gallons	 Revenue
Normalized Revenue Water Sales	4,644	298,578,500	\$ 2,136,489
Annual Report Totals	4,474	288,465,000	2,104,849
Difference	170	10,113,500	\$ 31,640

(b) Salaries & Wages: This adjustment reflects the 2011 wages applied to the hours worked during the 2010 test period.

		2010	2010 Hours	P	ro Forma		
Position Title	R	egular	(	Overtime	Overtime	Salaries	
Manager	\$	22 00	\$	33 00	208 00	\$	52,184
Assistant Manager	\$	19 41	\$	29 12	226 00		46,566
Meter Reader/Operator	\$	16.24	\$	24 36	206 50		38.484
Office Manager	\$	17.50	\$	26 25	151 50		40,027
Clerk	\$	12 50	\$	18 75	0 00		25,750
Laborer	\$	10.50	\$	15 75	315 50		26,599
Meter Reader	\$	13.50	\$	20.25	218 50		32.235
Meter Reader/Operator	\$	15 74	\$	23 61	72 50		34,136
Clerk	\$	9.50	\$	14 25	0 00		19,570
Totals						\$	315,551
Pro Forma Salaries & Wages - Employees Less: Reported Salaries & Wages - Employees						\$	315,551 309,202
Pro Forma Adjustment						\$	6,349

(c) Employee Pension and Benefits: This adjustment reflects: (1) the current employer retirement contribution rate: (2) the proforma salaries and wages; and (3) the current employee insurance premiums

	Pro Forma Employee Pension and Benefits											
Position Title	Emp Health Insurance		Er	Emp Contrib 1.5%		Dental MO Premium		18.9%		Totals		
Manager	\$	16,644	\$	(783)	\$	781	\$	9,863	\$	26,505		
Assistant Manager		16,092		(698)		678		8,801		24.873		
Meter Reader/Operator		16.644		(577)		537		7.273		23,877		
Office Manager		0		0		0		7.565		7,565		
Clerk		7,620		(386)		0		4,867		12.101		
Laborer		6,060		(399)		396		5,027		11.084		
Meter Reader		18.996		(484)		603		6.092		25,207		
Meter Reader/Operator		11,328		(512)		510		6,452		17.778		
Clerk		0		0		0		00		0		
Totals	\$	93,384	\$	(3,839)	\$	3,505	\$	55,940	\$	148,990		

Pro Forma Employee Pension & Benefits	\$ 148.990
Less: Reported Employee Pension & Benefits	124,033
Pro Forma Adjustment	\$ 24,957

(d) <u>Purchased Water</u>: Big Sandy's test-period non-revenue water exceeds the Commission's allowable limit of 15 percent This adjustment reflects the 15 percent limitation and the current wholesale rates being charged to Big Sandy

	Test-Period Water - Gallons per Invoices									
Month	Cannonsburg WD	City of Kenova	Rattlesnake Ridge WD	Louisa Water Company	Total					
· IAIOUITI					1 U(d)					
Jan-10	3,377,300	23,342,000	425.290	6,491,100	33,635.690					
Feb-10	5.867.000	22,260,000	384,160	6.231.600	34,742,760					
Mar-10	4,811.800	20.182,000	323,150	6.390.700	31,707,650					
Apr-10	3,287,400	20.847.000	381,390	5,959,000	30.474,790					
May-10	4,016,000	18,836,000	356.000	6,672,820	29.880.820					
Jun-10	4.279,900	16,080,000	443.680	7.289.800	28,093,380					
Jul-10	4.283.600	20,740,000	588,320	8.177.600	33,789,520					
Aug-10	4,033,700	19.571.000	247,090	7,782.300	31.634,090					
Sep-10	4,906,400	21,454.000	497,090	7,314,700	34.172.190					
Oct-10	3,530,100	18,616,000	591.800	7,130,703	29,868.603					
Nov-10	4.120,800	19,869,000	368,900	7.405.400	31,764,100					
Dec-10	4,686,700	16,381,000	522,800	9,958,600	31,549,100					
Annual Totals	51,200,700	238,178,000	5,129,670	86,804,323	381,312,693					

•			•		na Aujustinents
	Unaccounted	for Water Loss Percer	<u>itage</u>		
Water Produced/Purchased					381,312,693.00
Water Sales - Staff's Billing Analysis					298,578,500 00
Waler Treatment Plant					20.000 00
System Flushing					859,000 00
Fire Department					245,000 00
•					•
Other					353,000.00
Total Water Sold and Used					300,055,500.00
Unaccounted for Water Loss - Gallons					81,257,193.00
Percentage of Unaccounted for Water Loss					21.310%
Percentage Water Loss in Excess of 15 Percent					6.310%
reiterlage water Loss in Excess of 101 ertern	<b>.</b>	7 m . m . l .	*181 4		0,01078
	<u>Determination of</u>	f Pro Forma Purchased	<u>i Water</u>		
Pro Forma Water Sales					298,578,500
Add: System Flushing, Fire Department, and Other	٢				1,457,000
Subtotal					300,035,500
Divided by: 15% Non-revenue Water Reciprocal					0.85
Allowable Purchases - Gallons					352,982,941
Allowable Fulcitases - Gallotis		<b></b>			302,302,341
	Cannonsburg	City of	Rattlesnake	Louisa Water	
	WD	Kenova	Ridge WD	Company	Total
Test-Period Purchases	51,200,700	238,178,000	5,129,670	86.804.323	381,312,693
Divided by: Water Produced/Purchased	381,312,693	381,312,693	381,312,693	381,312,693	381,312,693
Percentage of Purchases	13.427%	62.463%	1.345%	22.765%	100.000%
Percentage of Purchases	13.42176	02,40370	1.04070	22.10076	100.000%
Allowable Purchases/Production	352,982,941	352,982,941	352,982,941	352.982.941	352,982,941
Multiplied by: Percentage of Purchases	13.427%	62.463%	1.345%	22.765%	100.000%
Allowable Purchases	47,395,019	220,483,734	4,747,621	80,356,567	352,982,941
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tall to the Color of Color Color	0.070	m 4 700 m	0.000 #	0 =00 0	
Wholesale Rates per 1,000 Gall. \$		\$ 1790 \$	2 960 \$	2.520 \$	
Multiplied by: Allowable Purchases x		x 220,483.734 x	4,747.621 x	80,356.567 x	352,982.941
Total Allowable Purchases \$	173,940	\$ 394,666 \$	14,053 \$	202,499 \$	785,158
Less: Actual Test-period Expense				X	795.787
Less: Actual Test-period Expense				X	
Less: Actual Test-period Expense Pro Forma Adjustment			A CONTRACTOR OF THE CONTRACTOR	<u>x</u> \$	
Pro Forma Adjustment				-	
Pro Forma Adjustment  (e) Materials & Supplies: This adjustment remove				-	(10,629)
Pro Forma Adjustment		t were incorrectly expens Descript		-	
Pro Forma Adjustment  (e) Materials & Supplies: This adjustment removes Invoice Date Vendor				-	(10,629) Amount
(e) Materials & Supplies: This adjustment remove Invoice Date Vendor O6/17/10 Consolidated Pip & St.	ıpply	Descript Meter Installations		\$	Amount (2,472)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St.	r ipply ipply	Descript Meter Installations Meter Installations		\$	Amount (2,472) (2,110)
(e) Materials & Supplies: This adjustment remorns Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St.	r pply pply	Descript Meter Installations Meter Installations Meter Installations		\$	Amount (2,472) (2,110) (3,621)
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(e) Materials & Supplies: This adjustment remorns invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St.	ripply ripply ripply ripply ripply	Descript Meter Installations Meter Installations Meter Installations		\$	Amount (2,472) (2,110) (3,621)
(e) Materials & Supplies: This adjustment remorns invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St.	ripply ripply ripply ripply ripply	Descript Meter Installations Meter Installations Meter Installations Meter Installations		\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St.	ripply ripply ripply ripply ripply	Descript Meter Installations	ions	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies	ripply ripply ripply ripply ripply ripply	Descript Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Moter Installations Mole for Service Lit	nes	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116)
(e) Materials & Supplies: This adjustment remorninvoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies 07/19/10 Neptune Equipment C	ripply ripply ripply ripply ripply ripply ripply ripply ripply	Descript Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Moter Installations Moter Foreign Control Automated Meter Foreign Meter Installations Moter Foreign Meter Installations Meter I	nes Leading Equip	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies 07/19/10 Neptune Equipment CO9/23/10 Neptune Equipment CO	ipply ipply ipply ipply ipply ipply ipply ipply ompany ompany	Descript Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Meter Installations Moter Installations Moter For Service Litt Automated Meter For	nes leading Equip leading Equip	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920)
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(e) Materials & Supplies: This adjustment remore Invoice Date Vendor O6/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies 07/19/10 Neptune Equipment C 09/23/10 Neptune Equipment C 10/11/10 Neptune Equipment C 06/15/10 Cannonsburg Water D 02/09/10 CI Thornburg 02/15/10 CI Thornburg	rpply rpply rpply rpply rpply rpply rpply ompany ompany ompany	Descript Meter Installations Mole for Service Lin Automated Meter R Automated Meter R Automated Meter R 28 Setters Check Valve 4" Meter	nes leading Equip leading Equip	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920) (5,804) (2,800) (330) (1,319)
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(e) Materials & Supplies: This adjustment remore Invoice Date Vendor O6/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies O7/19/10 Neptune Equipment CO9/23/10 Neptune Equipment CO9/23/10 Neptune Equipment CO6/15/10 Cannonsburg Water CO2/09/10 CI Thornburg O2/15/10 CI Thornburg O2/25/10 CI Thornburg	rpply rpply rpply rpply rpply rpply rpply ompany ompany ompany	Descript Meter Installations Mole for Service Lin Automated Meter R Automated Meter R Automated Meter R 28 Setters Check Valve 4" Meter	nes leading Equip leading Equip	\$	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920) (5,804) (2,800) (330) (1,319) (1,008)
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(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 IT Technologies 07/19/10 Neptune Equipment CO9/23/10 Neptune Equipment CO9/23/10 Neptune Equipment CO6/15/10 Cannonsburg Water CO6/15/10 CI Thornburg 02/09/10 CI Thornburg 02/25/10 CI Thornburg Total Capital Expenditures  (f) Contractual Services - Other: This adjustment Invoice Date Vendor 02/01/10 Neptune Equipment CO1/01/10 Neptune Equipment CO2/01/10 Neptune Equipme	rpply rpply rpply rpply rpply rpply ompany ompany ompany oistrict	Meter Installations Mole for Service Li Automated Meter R Automated Meter R Automated Meter R 28 Setters Check Valve 4" Meter 4" Meter  was that were incorrectly Descript Automated Meter R	expensed in the test prices  eading Equip  eading Equip	speriod.	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920) (5,804) (2,800) (330) (1,319) (1,008) (37,614)  Amount (3,090)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies 07/19/10 Neptune Equipment CO9/23/10 Neptune Equipment CO9/23/10 Neptune Equipment CO6/15/10 Cannonsburg Water CO2/09/10 CI Thornburg 02/15/10 CI Thornburg 02/25/10 CI Thornburg Total Capital Expenditures  (f) Contractual Services - Other: This adjustment Invoice Date Vendor 02/01/10 Neptune Equipment CO2/01/10 Neptune Equipme	rpply rpply rpply rpply rpply rpply ompany ompany ompany oistrict	Meter Installations Mole for Service Li Automated Meter R Automated Meter R Automated Meter R 28 Setters Check Valve 4" Meter 4" Meter  was that were incorrectly Descript Automated Meter R	expensed in the test prices  eading Equip  eading Equip	speriod.	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920) (5,804) (2,800) (330) (1,319) (1,008) (37,614)  Amount (3,090)
(e) Materials & Supplies: This adjustment remore Invoice Date Vendor 06/17/10 Consolidated Pip & St. 06/01/10 Consolidated Pip & St. 08/04/10 Consolidated Pip & St. 09/01/10 Consolidated Pip & St. 12/21/09 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 03/10/10 Consolidated Pip & St. 01/20/10 IT Technologies 07/19/10 Neptune Equipment CO9/23/10 Neptune Equipment CO9/23/10 Neptune Equipment CO6/15/10 Cannonsburg Water CO6/15/10 CI Thornburg 02/09/10 CI Thornburg 02/25/10 CI Thornburg 02/25/10 CI Thornburg Total Capital Expenditures  (f) Contractual Services - Other: This adjustment Invoice Date Vendor 02/01/10 Neptune Equipment CO6/11/10 Neptune Equipment CO6	rpply rpply rpply rpply rpply rpply ompany ompany ompany oistrict	Meter Installations Mole for Service Li Automated Meter R Automated Meter R Automated Meter R 28 Setters Check Valve 4" Meter 4" Meter  was that were incorrectly Descript Automated Meter R	expensed in the test prices  eading Equip  eading Equip	speriod.	Amount (2,472) (2,110) (3,621) (4,480) (3,121) (2,820) (4,116) (2,693) (920) (5,804) (2,800) (330) (1,319) (1,008) (37,614)  Amount (3,090)  Amount 13,704 19,103

28,771

(4,632)

(h) <u>Depreciation</u>: This adjustment reflects: (1) a full-year of depreciation for items capitalized in 2010; (2) tems fully depreciated as of December 31. 2010; (3) depreciating items that were incorrectly expensed; (4) depreciation for a new river crossing to the City of Kenova; and (5) depreciation for the new main meters that will zone the system to assist in reducing non-revenue water to the allowable limit of 15 percent

Α	account	Depreciation		UPIS		Accumulated Depreciation	[	Pro Forma Depreciation
No.	Title	Lives		12/31/10		12/31/10		Expense
303 00	Land		\$	25,529	\$	0	\$	0
304 00	Structures & Improvements	10		64,512		61,397		3,115
311 00	Pumping Equipment	50		292,307		105,120		5,846
330 00	Distribution Reservoir	50		1,223,302		451,488		24,466
331 00	Transmission & Distribution	50		9.077,248		2,634,801		181,545
333 00	Pipe Acces	50		3,855,964		1,053,815		77,119
334.00	Meters/Installations	20		1,171,436		571,667		58,572
335 00	Hydrants	30		227.402		19,910		7,580
340 00	Office Equipment	10		36,077		36,077		0
341 00	Transportation Equipment	5		52,218		5,222		10,444
343 00	Tools/Equipment	5		46,120		46,120		0
345 00	Backhoe/Equipment	5		74.003		74,003		0
346 00	Communication	5		6,014		6,014		0
347 00	Other Equipment	5		11,484		11,484		0
348 00	Telemetry Equipment	20		154,543		154,543		0
349 00	Digital Mapping	5		14,583		14,583		Ō
304 20	Office Building	10		57,018		53,062		3,956
340 00	Computers	5		81,825		78,538		3,287
345 10	Trencher	5		0,,520		0,000		0,237
0-0 10	FIGHTOR	•	\$	16,471,585	\$	5,377,844	\$	375.930
Canital Evpenditur	res Expensed in Test-Period:		•				•	
Capital Experience	Meter Installations	20		21,424				1,071
	Check Valve	30		330				11
	Automated Meter Reading Equip	5		9,417				1,883
	Mole for Service Lines	20		4,116				206
	4" Meters	20		2,327				116
Pact Tact Parind	Capital Expenditures:	20		2,02.				
Pusi-rest renda (	River Crossing - City of Kenova	50		117,000				2,340
	30 Main Meter with Bypass - Zone System	20		225,000				11,250
Pro Forma Depred	***		\$	16,509,199			S	392,807
	epreciation Expense		<u></u>	10,000,100	:		Ψ	393,195
							\$	(388)
Pro Forma Adjustr	nen						Ψ	(300)
(i) Payroli Taxes: T	his adjustment applies the payroll tax rate to the norr	nalized salaries ar	ıd wa	ges expense				
	•					Pro Forma		FICA
Position Title						Payroll		7.65%
Manager					\$	52,184	\$	3.992
Assistant Manage	г					46.566		3,562
Meter Reader/Ope						38,484		2,944
Office Manager						40,027		3.062
Clerk						25.750		1,970
Laborer						26,599		2,035
Meter Reader						32,235		2,466
Meter Reader/Ope	erator					34,136		2.611
Clerk						19,570		1,497
Pro Forma Totals					\$	315,551	\$	24,139
Pro Forma Payroll T	axes						\$	24.139

Less: Test Period Payroll Taxes

Pro Forma Adjustment

Revenue Requirement

		verage bt Service		Coverage		Maximum				
Debt Service Coverage - RD	\$	124,227	` x '	0.2	• =	\$	24,845			
Debt Service Coverage - KIA & KRWA	\$	241,621	X	0.1	=	·	24,162			
Total Coverage						\$	49,007			
Total Average Debt Service							365,848			
Add: Pro Forma Operating Expenses							1,558,596			
Depreciation							392,807			
Taxes Other Than Income							24,139			
Total Revenue Requirement						\$	2,390,397			
Less: Other Income & Deductions							3,409			
Revenue Requirement from Operations						\$	2,386,988			
Less: Other Operating Revenues							0			
Revenue Requirement from Water Sales						\$	2,386,988			
Less: Pro Forma Revenue - Water Sales							2,136,489			
Requested Increase						\$	250,499			
Percentage Increase							11.725%			
	Cash Fl	ow								
Total Revenue Requirement						\$	2,390,397			
Less: Operating Expenses							1,975,542			
Net Operating Income						\$	414,855			
Add: Depreciation & Amortization							392,807			
Sub-total						\$	807,662			
Less: Debt Service							365,848			
Net Cash Flow						\$	441,814			

# ARF FORM 1 - ATTACHMENT RR-OR - SEPTEMBER 2011 Summary of Long-Term Debt Amortization Schedules

		2012	2013		2014	 Totals
RD 91-07	\$	67,093	\$ 67,490	\$	67,320	\$ 201,903
RD 91-10		27,423	28,040		27,613	83,076
RD 91-11		28,920	 29,583		29,200	 87,703
Subtotal RD		123,436	125,113		124,133	 372,682
KIA C89-16		101,001	 70,293		19,824	191,118
KRWA 2001		65,846	64,915		66,776	197,537
KRWA 2004		48,242	48,369		46,422	143,033
KRWA 2007		54,410	69,412		69,354	 193,176
Subtotal KIA & KRWA		269,499	 252,989	***************************************	202,376	724,864
Totals	\$	392,935	\$ 378,102	\$	326,509	\$ 1,097,546
RD Average Debt Service						\$ 124,227
KIA & KRWA Average Debt Servic	ice					 241,621
Average Debt Service						\$ 365,848

RD 91-07

Maturity			1	nteres	st			ΟL	utstanding
Date	F	rincipal	Rate	Rate Expense Anni		Annual		Balance	
Balance Outs	tanding	)						\$	992,500
2010	\$	22,500	4 500%	\$	44,663	\$	67, 163	\$	970,000
2011		23,500	4 500%		43,650		67,150	\$	946,500
2012		24,500	4 500%		42,593		67,093	\$	922,000
2013		26,000	4 500%		41,490		67,490	\$	896,000
2014		27,000	4 500%		40,320		67,320	\$	869,000
2015		28,500	4 500%		39,105		67,605	\$	840,500
2016		30,000	4.500%		37,823		67,823	\$	810,500
Totals	\$	182,000		\$	289,644	\$	471,644		

#### RD 91-10

Maturity			ı	nteres	st				Οι	utstanding
Date	P	rincipal	Rate	Rate Expense		xpense		Annual		3alance
Balance Outs	tanding		,						\$	437,000
2010	\$	8,000	4 500%	\$	19,665		\$	27,665	\$	429,000
2011		8,500	4.500%		19,305			27,805	\$	420,500
2012		8,500	4 500%		18,923			27,423	\$	412,000
2013		9,500	4 500%		18,540			28,040	\$	402,500
2014		9,500	4 500%		18,113			27,613	\$	393,000
2015		10,000	4 500%		17,685			27,685	\$	383,000
2016		10,500	4 500%		17,235			27,735	\$	372,500
Totals	\$	64,500		\$	129,466		\$	193,966		

#### RD 91-11

Maturity		Interest					Outstanding		
Date	P	rincipal	Rate	Expense			Annual	I	Balance
Balance Outs	tanding							\$	490,500
2010	\$	7,000	4 500%	\$	22,073		\$ 29,073	\$	483,500
2011		7,500	4 500%		21,758		29,258	\$	476,000
2012		7,500	4 500%		21,420		28,920	\$	468,500
2013		8,500	4 500%		21,083		29,583	\$	460,000
2014		8,500	4 500%		20,700		29,200	\$	451,500
2015		9,000	4 500%		20,318		29,318	\$	442,500
2016		9,000	4 500%		19,913		28,913	\$	433,500
Totals	\$	57,000		\$	147,265		\$ 204,265		

334,598

#### IZIA COO 46

				KIA C89-16	3					
Maturity Date	Principal	I Rate	nteres	st xpense		Sinking Fund		Annual		utstanding Balance
Balance Outs		Nate		xpense	-	Fullu		Annual	\$	760,012
2010 2011 2012 2013 2014	\$ 10,000 10,000 172,506 367,506 200,000	5 000% 5 000% 5 000% 5 000%	\$	39,638 39,275 38,838 29,794 10,500	\$	51,295 51,812 (110,343) (327,007) (190,676)	\$	100,933 101,087 101,001 70,293 19,824	\$ \$ \$ \$ \$	750,012 750,012 740,012 567,506 200,000
2015	0	5 000%		0		0		0	\$ \$	-
2016 Totals	\$ 760,012	5 000%	\$	0 158,045		0	\$	0 393,138	Ф	-
Totals	<del>\$ 700,012</del>	:	<u></u>	100,040			<u>+</u>	333,130		
			ı	KRWA 200	1					
Maturity Date	Principal			nterest xpense			De	bt Service Annual		utstanding Balance
Balance Outs	·····	1	-	Apense				, and an	\$	266,000
2010	\$ 32,000		\$	32,220			\$	64,220	\$	234,000
2011	31,000		Ψ	31,497			Ψ	62,497	\$	203,000
2012	37,000			28,846				65,846	\$	166,000
2013	38,000			26,915				64,915	\$	128,000
2014	42,000			24,776				66,776	\$	86,000
2015	43,000			22,428				65,428	\$	43,000
2016	43,000			20,052				63,052	\$	· <del>-</del>
Totals	\$ 266,000		\$	186,734			\$	452,734		
		·		/D)8/8 200	A					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		KRWA 200	4					
Maturity			ı	nterest			De	bt Service	Oi	utstanding
Date	Principal	į	E	xpense				Annual		Balance
Balance Outst	~								\$	172,000
2010	\$ 23,000		\$	25,824			\$	48,824	\$	149,000
2011	23,000			25,049				48,049	\$	126,000
2012	24,000			24,242				48,242	\$	102,000
2013	25,000			23,369				48,369	\$	77,000
2014	24,000			22,422				46,422	\$	53,000
2015	26,000			21,392				47,392	\$	27,000
2016	27,000	1	-	20,300				47,300	\$	-
Totala	e 472 000		er e	400 000			C.	224 500		

162,598

Totals

172,000

#### ARF FORM 1 - ATTACHMENT RR-OR - SEPTEMBER 2011 Long-Term Debt Amortization Schedules

#### KRWA 2007

Maturity				Interest	-	bt Service	utstanding
Date	F	rincipal	E	Expense		Annual	Balance
Balance Outs	tanding	)					\$ 241,990
2010	\$	34,494	\$	34,947	\$	69,441	\$ 207,496
2011		20,496		33,849		54,345	\$ 187,000
2012		22,000		32,410		54,410	\$ 165,000
2013		38,500		30,912		69,412	\$ 126,500
2014		40,000		29,354		69,354	\$ 86,500
2015		42,500		27,734		70,234	\$ 44,000
2016		44,000		26,013		70,013	\$ -
Totals	\$	241,990	\$	215,219	\$	457,209	

					5/8X3/4 INCH	MET						
					FIRST		NEXT	NEXT	NEXT	ALL OVER		
		USAGE	BILLS	GALLONS	2,000		8,000	20,000	20,000	50,000	TO	
	FIRST	2,000	15,053	14,635,400	14,635,400							14,635,400
	NEXT	8,000	36,273	159,110,300	72,546,000		86,564,300					159,110,300
	NEXT	20,000	1,913	27,175,100	3,826,000		15,304,000	8,045,100				27,175,100
	NEXT	20,000	98	3,472,800	196,000		784,000	1,960,000	532,800			3,472,800
Α.	ALL OVER	50,000	30	3,210,600	60,000		240,000	600,000	600,000	1,710,600		3,210,600
		-	53,367	207,604,200	91,263,400		102,892,300	10,605,100	1,132,800	1,710,600		207,604,200
				EXISTIN	IG RATES					TED RATES		
			BILLS	GALLONS	RATE		REVENUE	BILLS	GALLONS	RATE		REVENUE
	FIRST	2,000	53,367	91,263,400	\$ 17.38	\$	927,518.46	53,367	91,263,400			1,113,235.62
	NEXT	8,000		102,892,300			698,638.72		102,892,300			677,031.33
	NEXT	20,000		10,605,100			60,024.87		10,605,100			65,433.47
	NEXT	20,000		1,132,800			5,550.72		1,132,800			6,547.58
	ALL OVER	50,000		1,710,600	\$ 4.14		7,081.88		1,710,600	•		8,381.94
	T	OTAL	53,367	207,604,200			1,698,814.65	53,367	207,604,200		<b>\$</b>	1,870,629.95
					1 INCH ME	ETER						
					FIRST		NEXT	NEXT	NEXT		~~~	T 0.1
		USAGE	BILLS	GALLONS	10,000		20,000	20,000	50,000		10	TAL 171,700
	FIRST	10,000	70	171,700	171,700							716,900
	NEXT	20,000	41	716,900	410,000		306,900	440.000				628,600
1	NEXT	20,000	17	628,600	170,000		340,000	118,600	400.000			660,600
	OVER	50,000	10	660,600	100,000		200,000	200,000	160,600			000,000
II.		-		0.477.000	054 700		846,900	318,600	160,600			2,177,800
			138	2,177,800	851,700		046,000	310,000		STED RATE	<u> </u>	
		1			VG RATES		55757175	BILLS	GALLONS	RATE	<u> </u>	REVENUE
			BILLS	GALLONS	RATE		REVENUE	138			0 \$	10,143.00
	FIRST	10,000	138	851,700			9,894.60	11	846,900			5,225.37
	NEXT	20,000		846,900			4,793.45	EE .	318,600	*		1,841.5
	NEXT	20,000		318,600			1,561.14 664.88		160,600	•		786.9
	OVER	50,000		160,600	\$ 4.14		004.00		100,000	, ψ -1.0	•	, 50.0
			400	0.477.000		\$	16,914.08	138	2,177,800	<u> </u>	\$	17,996.82
II	T	OTAL	138	2,177,800		Φ	10,814.00	130	۵,۱۱۱,۵۵۷	,	Ψ	.,,000,02

				1 1/2 INCH M						
				FIRST	NEXT	OVER			тота	
	USAGE	BILLS	GALLONS	20,000	30,000	50,000			TOTA	110,500
FIRST	30,000	12	110,500	110,500						110,500
NEXT	20,000	0	0	0	0	_				0
OVER	50,000	0	0	0	0	0				١
	,									
		12	110,500	110,500	0	0	0			110,500
		12	EXISTING				REQUESTE	RATES		
	_	60.16	GALLONS	RATE	REVENUE	BILLS	GALLONS	RATE	RI	EVENUE
		BILLS	110,500 S		\$ 2,218.80	12	110,500 \$	196.90	\$	2,362.80
FIRST	30,000	12	000,011		0.00		0 \$	5.78		0.00
NEXT	20,000		0 3	•	0.00		0 \$	4.90		0.00
OVER	50,000		0 ,	μ	3.33					
T	OTAL	12	110,500		\$ 2,218.80	12	110,500		\$	2,362.80
1 1	JIAL L	1 4-		2 INCH ME						
				FIRST	OVER					
	USAGE	BILLS	GALLONS	50,000	50,000				TOT	
FIRST	50,000	48	112,500	112,500						112,500
OVER	50,000	0	0	0	0					0
OVER	30,000	•								
							0			112,500
		48	112,500	112,500	0	0	REQUESTE	DOTES		112,000
				G RATES				RATE		EVENUE
	ľ	BILLS	GALLONS	RATE	REVENUE	BILLS	GALLÓNS			15,000.00
FIRST	50,000	48	112,500		\$ 13,579.20	48	112,500 \$ 0 \$	4.90	ψ	0.00
OVER	50,000		0	\$ 4.14	0.00		υφ	4.50		3.00
			140.500		\$ 13,579.20	48	112,500		\$	15,000.00
7	OTAL	48	112,500		\$ 13,579.20	JL40	112,000			/ - 1

					3 INCH MET					
					FIRST	OVER			τ	OTAL
		10405	BILLS	GALLONS	100,000	100,000				718,500
		JSAGE	37	718,500	718,500					8,325,200
FIRS		100,000	24	8,325,200	2,400,000	5,925,200				0,323,200
OVE	ER	100,000	24	0,525,200	2,100,000	,				U
										9,043,700
		****	61	9,043,700	3,118,500	5,925,200	0	0 REQUESTI	DDATES	0,010,700
				EXISTING	RATES				RATE	REVENUE
		<b> </b>	BILLS	GALLONS	RATE	REVENUE	BILLS	GALLONS	\$557.50	
		400,000	61	3,118,500 \$	489.90	\$ 29,883.90	61	3,118,500	<del>4.90</del>	29,033.4
FIR		100,000	01	5,925,200		24,530.33		5,925,200	4.90	23,000.4
VO	ER	100,000		G,OLG,III						
							61	9,043,700	-	\$ 63,040.9
	TOT	-A1	61	9,043,700		\$ 54,414.23	61	3,043,700		
					4 INCH ME	TERS				
					FIRST	OVER				TOTAL
		USAGE	BILLS	GALLONS	200,000	200,000				2,427,30
E) E	RST	200,000	42	2,427,300	2,427,300					66,988,00
	/ER	200,000	18	66,988,000	3,600,000	63,388,000				,
O v	/ L 1 \	200,000								
						00.000.000	0	0		69,415,30
		-	60	69,415,300	6,027,300	63,388,000			TED RATES	
				EXISTIN	G RATES		BULLO	GALLONS	RATE	REVENUE
		i i	BILLS	GALLONS	RATE	REVENUE	BILLS	6,027,300	\$1,047.50	
El	RST	200,000	60		\$ 903.90		60	63,388,000	, ,	310,601.
	VER	200,000	-	63,388,000	\$ 4.14	262,426.32		03,366,000	φ 4.00	0.
0,	VER	200,000		0		0.00		U		
							60	69,415,300		\$ 373,451.2
	το	TAL	60	69,415,300		\$ 316,660.32		03,413,000		
					WHOLE	SALE		DEOUES	TED RATES	
				EXISTIN	IG RATES		-:::0	GALLONS	RATE	REVENUE
			BILLS	GALLONS	RATE	REVENUE	BILLS	GALLUNG	10.11	
OVERLAND DE	VELOP	MENT.					11			\$ -
OVEKLAND DE		ERVICE FEE	24	. 0	\$ 545.75			7,273,000	\$ 4.41	32,073
IVION	DED 4 0	00 GALLONS	1	7,273,000	\$ 1.87				• *	32,073
KAILI		OU GALLONO		7,273,000		26,698.51		7,273,000	=	
					:			2,841,500	\$ 4.41	12,531
CANNONSBUR						7,189.00				

	CALCUL	ATION OF W	VATER RATE	S		
	TOTAL	FIRST 2,000	NEXT 8,000	NEXT 20,000	NEXT 20,000	OVER 50,000
FROM BILLING ANALYSIS:						
COMMODITY PERCENTS	100.00%	31.80%	36.19%	4.50%	0.96%	26.55%
ACTUAL COMMODITY SALES	288,464,000	91,736,700	104,401,700	12,981,600	2,768,300	76,575,700
PEAK DEMAND WEIGHTED FACTOR		2	1.75	1.5	1.25	1
PEAK DEMAND WEIGHTED SALES	465,684,850	183,473,400	182,702,975	19,472,400	3,460,375	76,575,700
DEMAND PERCENTS	100.00%	39.40%	39.23%	4.18%	0.74%	16.44%
0011100171400070	2000 000	2501.00=				
COMMODITY COSTS	\$820,826	\$261,037	\$297,076	\$36,939	\$7,877	\$217,897
]						
DEMAND COSTS	\$813,599	\$320,547	\$319,201	\$34,020	\$6,046	\$133,786
CUSTOMER COSTS	\$707,930	\$707,930				
TOTAL COSTS	\$2,342,355	\$1,289,514	\$616,276	\$70,959	\$13,923	\$351,682
DIVIDE BY BILLS/GALLONS		53,686	104,401,700	12,981,600	2,768,300	76,575,700
CALCULATED RATES		\$24.02	\$5.90	\$5.47	\$5.03	\$4.59
		FIRST 2,000	NEXT 8,000	NEXT 20,000	NEXT 20,000	OVER 50,000

BIG SANDY WATER DISTRICT										
WATER PURCHASED AND SOLD										
Total Produced	381,312,693									
Fire Department and Sewer	245,000	0.0006								
System Use	1,232,000	0.0032								
Line Loss	101,767,193	0.2669								
Bulk Sales	•	0.0000								
Retail Sales	267,954,000	0.7027								
Wholesale Sales	10,114,500	0.0265								
Total	381,312,693	1.00								

		BIG SAND	Y WATER	DISTRICT					
		INC	H MILE RA	TIO	······································	May blacked works or market had been a substituted as			
	Ţ	otal System Jointly Used							
Size	Feet	Miles	Inch Miles	Feet	Miles	Inch Miles			
12		2.09	25.08	1800	2.09	25.08			
8		27.58	220.64	-	6.50	52.00			
6		118.20	709.20	•	-	0 00			
4		71.20	284 80	-		0.00			
3		189.00	567.00		-	0.00			
2		9.50	19.00	-	-	0.00			
1		2.20	2.20	•	-	0.00			
3/4"		3.75	2.81	-	-	0.00			
Total	_	423.52	1830.73	-	_	77.08			
Inch Mile R	tatio	0.0421							

BIG SAND	Y WATER DISTRICT	
WHOLESALE A	ALLOCATION FACTORS	
		Factor
Line Loss Percentage *		0.1500
Plant Use Percentage		0.0032
Allowable Line Loss & Plant Use	0.1500 + 0.0032	0.1532
Production Multiplier	1/1-0.0032	1.0032
Inch Mile Ratio	77.08 / 1830.73	0.0421
Wholesale Share of Line Loss	0.0421 * 0.1500	0.0063
Joint Share Line Loss / Plant Use	0 0063 + 0.0032	0.0095
Wholesale Production Multiplier	1/1-0.0095	1.0096
Production Allocation Factor	10,114,500/278,068.500 * (1 0096/1 0032)	0 0366
Pipeline Transmission Factor	10.114.500/278.068,500 * 0.0421	0.0015
Use Factor	10,114,500/278,068,500	0.0364

**************************************				
	BIG SA	NDY I	WATER DISTRICT	
	***************************************			
	WHOLESAI	E AL	LOCATION FACTORS	
				Factor
Line Loss Percentage		ļ	Amount Allowable by PSC	0.1500
Plant Use Percentage		<u> </u>		0.0032
Allowable Line Loss & Plant Use	0.1500 + 0.0032	=	Line Loss % + Plant Use %	0.1532
Production Multiplier	1/1-0.0032	=	1/(1 - Plant Use %)	1.0032
Inch Mile Ratio	77.08 / 1830.73	=	Total Jointly Used Inch Miles / Total Inch Miles	0.0421
Wholesale Share of Line Loss	0.0421 * 0.1500	=	Inch Mile Ratio X Line Loss %	0.0063
Joint Share Line Loss / Plant Use	0.0063 + 0.0032	=	Wholesale Share of Line Loss + Plant Use %	0.0095
Wholesale Production Multiplier	1/1-0.0095	=	1/1 - Joint Share Line Loss / Plant Use)	1.0096
Production Allocation Factor	10,114,500/278.068.500 * (1.0096/1.0032)	=	(Sales to Wholesale customers / Total Water Sold) [Wholesale Production Multiplier / Production Multiplier)	0.0366
Pipeline Transmission Factor	10,114.500/278.068.500 ° 0.0421	=	(Sales to Wholesale customers / Total Water Sold) * Inch Mile Ratio	0.0015
Use Factor	10,114,500/278,068,500	_ =	Sales to Wholesale Customers / Total Water Sold	0.0364

BIG S.	AND	Y WATER D	IST	RICT			
ALLO	CAT	ION OF EXF	ΈN	ISES			
Expense		Total	1	umping and Freatment	Transmission and Distribution		Customer
Purchased Power *	\$	61,674	\$	61,674	dia Diombation		Oustorner
Purchased Water *	Ψ	785,158	1 4	785,158		<del> </del>	Microsophianus, confidence Medicinal cons
Employee Salaries	<del> </del>	315,551	<u> </u>	87,382	59,516	<del> </del> -	168,654
Employee Pension & Benefits	+	148,991	<del> </del>	48,368	28,210	<del> </del>	72,413
Materials & Supplies (Meters)	1	78,132				<del> </del>	78,132
Advertising	<u> </u>	190		M. (a. ) A.		i	190
Bad Debts Expense	<del>†</del> -	8,680	<del> </del>	*******************************	***************************************	İ	8,680
Contractual Services - Other	1	23,490				<u> </u>	23,490
Contractual Services - Water Testing *	<u> </u>	4,978	İ	4,978		<u> </u>	
Subtotal Less Commodity*	\$	575,034	\$	135,750	\$ 87,726	\$	351,558
Percentage				0 2361	0.1526		0.6114
Administrative and General							
Commissioners Salaries		30,000		7,082	4,577		18,341
Contractual Services - Accounting		4,620		1,091	705		2,825
Contractual Services - Legal	<u> </u>	4,188	<u> </u>	989	639		2,560
Insurance		13,704		3,235	2,091		8,378
Miscellaneous		52,568		12,410	8,020		32,138
Transportation Expense	1	26,673		6,297	4,069	<u> </u>	16,307
Payroll Taxes		24,139	<u> </u>	5,699	3,683		14,758
Subtotal	\$	1,582,736	\$	1,024,362	\$ 111,508	\$	446,866
Depreciation	\$	392,807	\$	92,731	\$ 59,926	\$	240,150
Debt Service plus Coverage	\$	414,855	\$	97,936	\$ 63,289	\$	253,630
Total Expenses	\$	2,390,398	\$	1,215,029	\$ 234,723	\$	940,647
*Commodity Costs designated by (*)						·	· · · · · · · · · · · · · · · · · · ·

BIG	SANE	Y WATER	DISTRICT			****	
	WHO	DLESALE F	RATE	الله عنامت الله		******************************	
Expense		Total	Allocation Factor		nount to		ate to olesale
Commodity			der ter Johnston prik Status, in de gene yng wengeleinen tref tref sid tresteld frieddisch deren V tre	der Sell-Labert / Berson I			
Purchased Power & Water	\$	846,832	0.0364	\$	30,803		3.0454
Water Testing	\$_	4,978	0.0364	\$	181		0.0179
Operation and Maintenance		***************************************				•	
Pumping and Treatment		172,552	0.0366		6,316		0.6245
Transmission and Distribution		111,508	0.0015		171	tana sarata akada asalaman da asara	0.0169
Customer		446,866			· · · · · · · · · · · · · · · · · · ·		pada 184 San Turiya alaya kasala va masa 1844 Saya sana
Depreciation							nderen de de mariera de la decembra de la compansa
Pumping and Treatment		92,731	0.0366	No spile	3,395		0.3356
Transmission and Distribution		59,926	0.0015		92		0.0091
Customer		240,150	angalang ng dipulakan dipulakan personal angalan serengah dipulakan dipulaka				
Debt Service							ستراوية والمتعددة
Pumping and Treatment		97,936	0.0366		3,585		0.3544
Transmission and Distribution		63,289	0.0015		97		0.0096
Customer		253,630					
Total Expenses	\$ 2	2,390,398		\$	44,639		******
Less: Interest Income		3,409	0.0015	\$	5	Table Service Service Services	0.0005
Wholesale Rate	2	2,386,989		\$	44,634	\$	4.41

#### **Outstanding Debt Instruments**

Listed below are the outstanding debt issuances of the Big Sandy Water District. See the listed cases for loan agreements. Amortization schedules are attached.

RD Loan 91-07 in the principal amount of \$1,214,000, Interest Rate 4.5 percent per annum, Term of 40 Years. Case No. 93-332, In the Matter of the Application of Big Sandy Water District of Boyd, Carter and Lawrence Counties, Kentucky, for a Certificate of Public Convenience and Necessity to Construct and Finance Pursuant to the Provisions of Section 278.023 of the Kentucky Revised Statutes (Ky. PSC Sep. 4, 1993).

RD Loan 91-10 in in the principal amount of \$495,000, Interest Rate 4.5 percent per annum, Term of 40 Years. Case No. 2000-191, In the Matter of the Application of the Big Sandy Water District to Issue Securities in the Approximate Principal Amount of \$495,000 for the Purpose of Replacing Certain Outstanding Revenue Bonds of the Lawrence County Water District Being Assumed by the Big Sandy Water District Pursuant to the Provisions of KRS 278.3000 and 807 KAR 5:001 (Ky. PSC June 20, 2000).

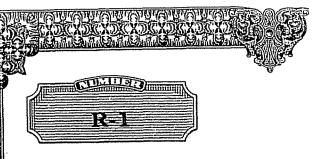
RD Loan 91-11 in the principal amount of \$527,000, Interest Rate 4.5 percent per annum, Term of 40 Years. Case No. 2001-00232, The Application of Big Sandy Water District for A Certificate of Public Convenience and Necessity to Construct and Finance Pursuant to the Provisions Of KRS 278.023 (Ky. PSC Aug. 22, 2001).

KIA C89-16 The Kentucky Infrastructure Authority on behalf of 27 water utilities applied for retroactive authority to issue evidences of indebtedness, which the Commission denied. Case No. 2005-00058, Kentucky Infrastructure Authority's Joint Application on Behalf of Certain Water Districts for Authority to Borrow Funds to Refinance Certain Indebtedness to the Kentucky Infrastructure Authority (Ky. PSC Aug. 26, 2005).

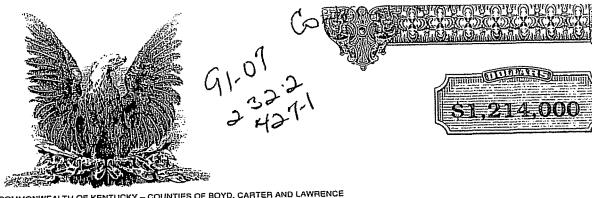
KRWA 2001 in in the principal amount of \$793,000, Interest Rate between 4.15 percent and 5.525 percent per annum. Case No. 2001-00178, The Application of the Big Sandy Water District for A Certificate of Public Convenience and Necessity to Construct an Improvements Project and to Issue Securities in the Approximate Principal Amount of \$822,000 for the Purpose of Financing Said Project and Refunding Certain Outstanding Revenue Bonds of the District Pursuant to the Provisions of KRS 278.020, 278.300 and 807 KAR 5:001

KRWA 2004 in the principal amount of \$732,000, Interest Rates varying from 3.12 percent to 4.62 percent. Case No. 2005-00230, Application of the Big Sandy Water District for A Certificate of Public Convenience and Necessity to Construct and Finance an Improvements Project Pursuant to KRS 278.020 and 278.300 (Ky. PSC Aug. 11, 2005).

KRWA 2007 in the principal amount of \$931,000, Interest Rates varying from 3.85 percent to 4.3 percent. Case No. 2007-00014, Application of the Big Sandy Water District for an Order Approving the Issuance of Securities Pursuant to KRS 278.300 (Ky. PSC April 3, 2007).



CHARACTER CHARACTER CHARACTER



UNITED STATES OF AMERICA - COMMONWEALTH OF KENTUCKY - COUNTIES OF BOYD, CARTER AND LAWRENCE

### BIG SANDY WATER DISTRICT

WATERWORKS REVENUE BONDS OF 1993 INTEREST RATE: 4.50%

KNOW ALL MEN BY THESE PRESENTS. That the Big Sandy Water District (the "District"), acting by and through its Board of Commissioners (the "Commission"), a public body corporate in Boyd. Carter an Lawrence Counties, Kentucky, for value received, hereby promises to pay to UNITED STATES OF AMERICA - FARMERS HOME ADMINISTRATION, 771 Corporate Drive, Suite 200, Lexington, Kentucky 40503-547, the registered owner hereof, or to its registered assigns, solely from the fund hereinafter identified, the sum of

### ONE MILLION TWO HUNDRED FOURTEEN THOUSAND DOLLARS (\$1,214,000),

Year	anuary, in years and installin Principal	Year	Principal	Year	Principa
	\$11,500	2009	\$21,000	2025	\$40,00
1996		2010	22,500	2023	42,00
1997	11,500		23,500	2024	44,00
1996	12,500	2011		2025	46.50
1999	13,000	2012	24,500	2026	48.50
2000	13,500	2013	26,000		51.00
2001	14.500	2014	27,098	2027	
	15,000	2015	28,500	2028	53,50
5005	16.000	2016	30,000	2029	56,50
2003		2017	31,500	2030	59,0
2004	16,500		33.000	2031	62.00
2005	17,500	2018		2032	65,5
2006	18,500	2019	34,500		69,5
2007	19,000	2020	36,500	2033	05,5
	•	2004	70 000		

2021

20,500 and in like manner, solely from said fund, to pay interest on the balance of said principal sum from time to time remaining unpaid, at the interest Rate specified above, someonually on the first days of January and July in each year, beginning with the first January or July after the date of this Bond, until said sum is paid, except as the provisions hereinalter set forth with respect to prepayment may be and become applicable hereto, both principal and interest being payable, without deduction for exchange or collection charges, in lawful money of the United States of America, at the address of the registered owner shown on the registration book of the District.

38,000

This Bond is issued by the District under and in full compliance with the Constitution and Statutes of the Commonwealth of Kentucky, including Chapters 58, 74 and 106 of the Kentucky Rovised Statutes (collectively the \*Act"), and pursuant to a duly adopted Bond Resolution of the District authorizing same (the "Current Bond Resolution"), to which Current Bond Resolution reference is hereby made for a description of the nature and extent of the security thereby created, the rights and limitations of rights of the registered owner of this Bond, and the rights, obligations and duties

of the District, for the purpose of linancing the cost (not otherwise provided) of the construction of extensions, additions and improvements to the existing waterworks system of the District (said existing waterworks system, together with said extensions, additions and improvements, being hereinalter referred to as the "System").

This Bond is issued subject to the vosted rights and priorities in layor of the outstanding loan from the Kentucky infrastructure Authority (II "KIA Loan") to the District.

This Bond ranks on a parity as to security and source of payment with the outstanding Big Sandy Water District Waterworks Revenue Bonds 1989, dated March 6, 1991 (the "Prior Bonds"), authorized by a Resolution adopted by the Commission of the District on December 11, 1989 (if "Prior Bond Resolution").

This Bond has been issued in full compliance with the Current Bond Ordinance and the Prior Bond Resolution; and this Bond, together wi said Prior Bonds, and any bonds ranking on a parity therewith that may be issued and outstanding under the conditions and restrictions of the Current Bond Resolution and Prior Bond Resolution, are and will continue to be payable from and secured by a pledge of the gross revenues to I derived from the operation of said System, which revenues shall be sufficient to pay the principal of and interest on the Prior Bonds, this Bond a any additional bonds ranking on a parity therewith, as may be issued and outstanding under the conditions and restrictions set out in said Curre Bond Resolution and the Prior Bond Resolution, as and when the same become due and payable, and a sufficient portion of which revenues sh be set aside in a fund for that purpose and identified as the "Big Sandy Water District Waterworks Bond and Interest Sinking Fund", created in sa Prior Band Resolution.

FURTHER PROVISIONS OF THIS BOND ARE SET FORTH ON THE REVERSE HEREOF.

It is hereby certilled, recited and declared that all acts, conditions and things required to exist, happen and be performed precedent to and the issuance of this Bond, do exist, have happened and have been performed in due time, form and manner as required by law, and that the fa amount of this Bond, together with all other obligations of the District, does not exceed any limit prescribed by the Constitution or Statutes of t Commonwealth of Kentucky.

IN WITNESS WHEREOF said Big Sandy Water District, by its Board of Commissioners, has caused this Bond to be executed by its Charma ils corporate seal to be hereunto allixed, and attested by its Secretary, on the date of this Bond, which is

est:		BIG SANDY WATER DISTRICT Boyd, Carter and Lawrence Counties, Kentucky
Secre	olary	ByChairman



UNITED STATES OF AMERICA COMMONWEALTH OF KENTUCKY





#### REGISTERED



# BIG SANDY WATER DISTRICT

WATERWORKS REVENUE BOND, SERIES 2000 INTEREST RATE: 4.50% PRINCIPAL AMOUNT \$495.000

KNOW ALL MEN BY THESE PRESENTS: That the Big Sandy Water District (the "District"), acting by and through its Board of Commissioners (the "Commissioner"), a water district created pursuant to Chapter 74 of the Kentucky Revised Statutes, for value received, hereby promises to pay to UNITED STATES OF AMERICA, acting by and through the U.S. DEPARTMENT OF AGRICULTURE, 771 Corporate Drive, Suite 200, Lexington, Kentucky 40503-5477, the Registered Owner hereol, or to its registered assigns, solely from the fund hereinafter identified, the sum of

### FOUR HUNDRED NINETY-FIVE THOUSAND DOLLARS (\$495,000)

on the first day of January, in years and installments as follows:

i the lifst day of Jar	luary, in years an	a iusiammente as iono.	1131		
Payment Due	Principal	Payment Due	Principal	Payment Due	Principal
	Payment	January 1.	Paymen1	January I.	Payment
January L	S5,500	2014	\$ 9.500	2027	\$17,000
2001		2015	10.000	2028	18,000
2002	<del>5,5</del> 00	2015	10,500	2029	18,500
2003	<del></del>	2017	11,000	2030	19,500
2084	6,000		11.500	2031	20,500
2005	6,500	2018	12.000	2032	21,000
5009	0.500	2019		2033	.23,000
2007	7,800	2020	12,500	White 2034 62	223,500
2008	<del>7;500</del>	1/1/1/2021	13,000	2035//	25,000
2000	<del>7,500</del>	2022	13,500	2036	1/1/25 500
2010	8,000	2023	14,500	Will morrill	11/100 000
2011	8,500	2024	15,000///	11111120311111	20,000
2012	8,500	2025	(5 15,500 <i>′///</i> )	. 973 396	Win Mill
		2026	16,500	Galliella Fly	
2012	9,500	2000	16.500	Millette Ma	MAGAM

and in like manner, solely from said fund, to pay interest on the balance of said principal sum from time to time remaining unpaid, at the interest Rate specified above, semiannually on the first days of January and July in each year, beginning with the first January or July after the date of this Bond, until said sum is paid, except as the provisions hereinafter set forth with respect to prepayment may be and become applicable hereto, both principal

and interest being payable, without deduction for exchange or collection charges, in lawful money of the United States of America, at the address of the Registered Owner shown on the registration book of the District.

This Bond is issued by the District under and in full compliance with the Constitution and Statutes of the Commonwealth of Kentucky, including Chapters 58 and 74 of the Kentucky Revised Statutes (collectively the "Act"), and pursuant to a duly adopted Bond Resolution of the District authorizing same (the "Bond Resolution"), to which Bond Resolution reference is hereby made for a description of the nature and extent of the security thereby created, the rights and limitations of rights of the Registered Owner of this Bond, and the rights, obligations and duties of the District, for the purpose of replacing and substituting this Bond for the outstanding Lawrence County Water District, for the purpose of replacing and substituting this Bond for the outstanding Lawrence County Water District, for the purpose by the District of the waterworks system of Lawrence County "LCWD Bonds") in connection with the purchase by the District of the waterworks system of Lawrence County "Lawrence County".

## Walst District (the LOWD Sysiem) [FURTHER PROVISIONS OF THIS BOND ARE SET FORTH ON THE REVERSE HEREOF]

It is hereby conflied, recited and declared that all acts conditions and things required to exist, happen and be performed precedent to and in the issuance of this Bondy do exist, have happened and have been performed for the lime from and marrier as required by law, and that the face amount of this Bond, together with all other obligations of the District does not exceed any limit prescribed by the Constitution or Statutes of the Commonwealth of Kentucky.

IN WITNESS WHEREOF said Big Sandy Water District, by its Commission, has caused this Bond to be executed by its Chairman, its corporate seal to be hereunto affixed, and attested by its Secretary, on the date of this Bond, which is

**BIG SANDY WATER DISTRICT** 

Attest:		
Allest.	Secretary	
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	場合へのという。	# J

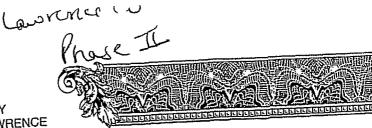


Ву: .	Chairman
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232-5

UNITED STATES OF AMERICA COMMONWEALTH OF KENTUCKY COUNTIES OF BOYD, CARTER AND LAWRENCE





## BIG SANDY WATER DISTRICT WATERWORKS REVENUE BOND, SERIES 2001

Interest Rate: 4.50%



\$527.000



KNOW ALL PERSONS BY THESE PRESENTS: That the Big Sandy Water District (the "District"), acting by and through its Board of Commissioners (the "Commissioners (the "Com KNOW ALL PERSONS BY THESE PRESENTS: That the Big Sandy Water District (the "District"), acting by and through its Board of Commissioners (the "Commission"), a public body corporate in Boyd, Carler at Lawrence Counties, Kentucky, for value received, hereby promises to pay to the UNITED STATES OF AMERICA, acting by and through the U.S. DEPARTMENT OF AGRICULTURE, 771 Corporate Drive, Suite 200, Lexingle Market Market Counties, Kentucky, for value received, hereby promises to pay to the UNITED STATES OF AMERICA, acting by and through the U.S. DEPARTMENT OF AGRICULTURE, 771 Corporate Drive, Suite 200, Lexingle Market Marke Kentucky 40503-5477, the Registered Owner hereof, or to its registered assigns, as hereinalter provided, solely from the fund hereinalter identified, the sum of

# FIVE HUNDRED TWENTY-SEVEN THOUSAND DOLLARS (\$527,000)

Payment Due January L 2004 2005 2006 2007 2008 2010 2010 2011 2012 2013 2014 2015	Pancipani Paymeni \$5,500 \$,500 \$,000 \$,000 \$,000 \$,000 7,000 7,500 7,500 8,500 8,500 9,000	nd installments as it Payment Due January 1. 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2027 2027	Principal Payment \$10,000 10,000 10,500 11,000 11,500 12,000 12,500 13,000 14,000 14,500 14,500 15,500	Payment Due January I 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039	Principal Payment \$17,000 18,000 18,500 19,500 20,500 21,500 22,500 24,000 25,000 26,000
	9,000 ( 9,000 (	2023 2023 100	16,500		m (ro.), time (å tyne

and interest being payable, without deduction for exchange or collection charges, in lawful money of the Unite States of America, at the address of the Registered Owner shown on the registration book of the District.

This Bond is issued by the District under and in full compliance with the Constitution and Statutes of It Commonwealth of Kentucky, including Chapters 58 and 74 of the Kentucky Revised Statutes (collectively to "Act"), and pursuant to a duly adopted Bond Resolution of the District authorizing same (the "Current Bond Resolution"), to which Current Bond Resolution reference is hereby made for a description of the nature at Resolution"), to which Current Bond Resolution reference is hereby made for a description of the nature at extent of the security thereby created, the rights and limitations of rights of the Registered Owner of this Bor and the rights, obligations and duties of the District, for the purpose of financing the cost (not otherwighted) of the construction of extensions and duties and extensions and duties are districted to the construction of extensions and duties are districted to the construction of extensions and duties are districted to the construction of extensions and duties are districted to the construction of extensions and duties are districted to the construction of extensions and duties are districted to the construction of extensions and duties are districted to the construction of the constru and the rights, obligations and duties of the district, for the purpose of financing the cost (not offered) provided) of the construction of extensions, additions and improvements to the existing waterworks system the District (said existing waterworks system, together with said extensions, additions and improvements, bei hereinafter referred to as the "System").

(FURTHER PROVISIONS OF THIS BOND ARE SET FORTH ON THE REVERSE HEREOF) It is hereby certified, recited and declared that all acts, conditions and things required to exist, happen a of this Bond, together with all of he Constitution or Statutes of t of Commissioners, has caused ( led, and altested by its Secretary, the date of this Bo

and in like manner, solely from sa light, to pay terms on the balance of said spincipal um to remaining unpaid, at the interest Riple Secilled to the date of this Bond wall said sum is paid year, beginning with the first January or July after the date of this Bond wall said sum is paid year, beginning with the first January or July after the date of this Bond wall said sum is paid. provisions hereinafter set loth with respect to prepayment may be and become applicable hereto, both principal

BIG SANDY WATER DISTRICT Boyd, Carter and Lawrence Counties, Kentucky

a.s		
Atlest:	Secretary	
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Chalman

#### Kentucky Infrastructure Authority

**IONTHLY PAYMENT SCHEDULE Big Sandy Water District** 

Loan Amount 790,000.00 **Principal** C89-18 Service Sinking Not Total Balançe Payment Date Principal Coupon interest Debt Service Fee Fund Payment Remaining 3,330,21 3,746,68 128.33 4,683,17 8,558.38 767,083.33 1/1/2009 416.67 3.000% 3.000% 3,330.21 3,748.88 128.33 4,683.17 8,558.38 766,666.67 2/1/2009 416.67 128.33 3.000% 3,330.21 3,746.88 4,683,17 8,558.38 786,250.00 3/1/2009 416.67 3.000% 3,330.21 3,746.68 128.33 4,683,17 6,558.38 4/1/2009 416.67 765,833.33 5/1/2009 416.67 3.000% 3,330.21 3,748.88 128.33 4,683.17 8,558.38 765,416.67 4,683.17 128.33 416.67 3.000% 3,330.21 3,746.88 8,558.38 765,000.00 6/1/2009 7/1/2009 8,523.90 833.33 3.500% 3,317.71 4.151.04 127.50 4,245,36 764,166.67 8/1/2009 833.33 3,500% 3,317.71 4,151.04 127.50 4,245,36 8,523.90 763,333.33 9/1/2009 833.33 3.500% 3,317.71 4.151.04 127.50 4,245.36 8.523.90 782,500.00 10/1/2009 833.33 3,500% 3,317.71 4,151.04 127.50 4,245,36 8,523.90 781,666.67 8,523.90 4.151.04 127,50 833.33 3.500% 3,317.71 4,245.36 760,833.33 11/1/2009 3.500% 3,317.71 4,151,04 127.50 4.245.36 8,523.90 760,000.00 12/1/2009 833.33 1/1/2010 **EE.EES** 3 500% 3,317.71 4,151.04 127.50 4,245.36 8,523.90 759,166.67 3.500% 3,317.71 4,151.04 127.50 4,245.36 8,523.90 758,333.33 2/1/2010 833.33 4,151.D4 127.50 8,523.90 3/1/2010 833.33 3.500% 3,317.71 4,245.36 757,500.00 4,151.04 127.50 4/1/2010 833.33 3.500% 3,317.71 4.245.36 8,523.00 756,666.67 3.500% 4,151.04 127.50 4,245.36 5/1/2010 833.33 3,317.71 8,523.90 755,833.33 8/1/2010 833.33 3.500% 3,317.71 4,151,04 127.50 4,245.36 8,523.90 755,000.00 833.33 3.750% 125.83 4,303.84 7/1/2010 3,288.54 4,121.88 8,551.55 754,186.67 3.750% 4.121.88 125.83 4,303,84 8/1/2010 833.33 3.288.54 8,551,65 753,333.33 633.33 3.750% 4,121.88 125.83 3,288.54 4,303.84 8,551.55 752,500.00 9/1/2010 833.33 3.750% 125.83 10/1/2010 3.288.54 4,121.88 4,303.84 8,551.55 751,856.67 833.33 11/1/2010 3.750% 3,288.54 4,121.88 125.83 4,303.84 8,551.55 750,833,33 12/1/2010 833.33 3.750% 3.288.54 4,121.88 125.83 4.303.84 8,551.55 750,000.00 1/1/2011 833.33 125.83 4,303.84 3.750% 3,288.54 4,121.88 8,551.55 749,166.67 2/1/2011 3.750% 125.83 4,303.84 833.33 3,258.54 4,121.88 8,551.55 748,333.33 3/1/2011 833.33 3.750% 3,288.54 4,121.88 125.83 4,303.84 8,551.55 747,500.00 4/1/2011 833.33 3.750% 3,288.54 4,121,88 125.83 4,303.84 8,551,55 746,668.67 5/1/2011 833.33 3.750% 3,288.54 4,121.88 125.83 4,303.84 8,551.55 745,833.33 6/1/2011 833 33 3.750% 3,288.54 4,121.68 125,83 4,303.64 8,551.55 745,000.00 3,257.29 124.17 7/1/2011 833.33 5.000% 4,090.63 4.331.44 8,546,23 744,166.67 8/1/2011 833,33 5.000% 3,257.29 4,090,63 124.17 4.331,44 8,548.23 743,333.33 9/1/2011 833.33 5.000% 3,257.29 4,090.63 124.17 4,331.44 8,546.23 742,500.00 10/1/2011 833,33 5.000% 3,257.29 4,090.63 124.17 4,331.44 8,546.23 741,668.67 5.000% 124.17 11/1/2011 833,33 4,090.63 4,331.44 3,257.29 8,546.23 740,833.33 5.000% 12/1/2011 633.33 3,257.29 4,090.63 124.17 4,331,44 8,546.23 740,000.00 1/1/2012 833.33 5.000% 4,090.63 124.17 4,331,44 8,546.23 3,257.29 739,166,67 2/1/2012 833.33 5.000% 3,257,29 4,090,63 124.17 4.331.44 8,546.23 738,333.33 3/1/2012 833.33 5.000% 3,257.29 4,090.63 124.17 4,331.44 8,546.23 737,500.00 4/1/2012 833,33 5.000% 3,257,29 4.090.63 124,17 4.331.44 8.545.23 735,665.67 5/1/2012 833,33 5.000% 4.090.63 3,257.29 124.17 4,331.44 8,548.23 735.833.33 6/1/2012 833.33 5.000% 3.257.29 4,090.63 124.17 4,331.44 8,546.23 735,000.00 7/1/2012 -22,721.83 27,916,67 5.250% 3,215,63 31,132.29 122.50 8,532.87 707,083.33 8/1/2012 27,916.67 5.250% 3,215.63 31,132.29 122.50 -22,721.93 8,532.87 B79,156.67 9/1/2012 27,916.67 5.250% 3,215.63 31,132.29 122.50 -22,721.93 8,532.87 651,250.00 10/1/2012 27,918.B7 5.250% 3,215.63 31,132.20 122.50 -22,721.93 8,532.87 623,333.93 11/1/2012 27,916,67 5.250% 3,215.63 31,132.29 122.50 -22,721.93 8,532.67 595,416.67 12/1/2012 27,916.67 5.250% 3,215.63 31,132,29 122,60 -22,721.93 6,532.67 567,500.00 1/1/2013 122.50 27,916.67 5.250% 31,132.29 3,215.53 -22,721,93 8,532.87 539,583.33 2/1/2013 27,916,67 5.250% 3,215,63 31,132.29 122.50 -22,721.93 8,532.87 511,866.67 3/1/2013 5.250% 31,132,29 122,50 -22,721.93 27,916.67 3,215.63 8,532.87 483,750.00 4/1/2013 122.50 27,916.67 5.250% 3,215,63 31,132.29 -22,721.93 8,532.87 455,833.33 122.50 5/1/2013 5.250% 31,132.29 -22,721 83 8,532.87 427,916.67 27,916.67 3,215.63

### Kentucky Infrastructure Authority

#### MONTHLY PAYMENT SCHEDULE

Big Sandy Water	r District					Loar	Amount	790,000,00
C89-16 Payment Dale	Principal	Coupon	Interest	Debt Service	Service Fee	Sinking Fund	Net Total Payment	Principal Balance Remaining
6/1/2013	27,916,67	5.250%	3,215.63	31,132,29	122.50	-22,721.93	8,532.87	400,000.00
7/1/2013	33,333.33	5.250%	1,750.00	35,083,33	66.67	-31,779.26	3,370.74	366,666.67
8/1/2013	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	333,333.33
9/1/2013	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3.370.74	300,000.00
10/1/2013	33,333,33	5.250%	1,750.00	35.083.33	66.67	-31,779.26	3,370.74	266,666.67
11/1/2013	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	239,333.33
12/1/2013	\$8.88E,88	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	200,000.00
1/1/2014	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779,26	3,370.74	166,666.67
2/1/2014	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779,26	3,370.74	133,333.33
3/1/2014	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	100,00000
4/1/2014	33,333,33	5.250%	1,750.00	35,063.33	66-67	-31,779.26	3,370.74	66,666.67
5/1/2014	33,333,33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	33,333.33
6/1/2014	33,333.33	5.250%	1,750.00	35,083.33	66.67	-31,779.26	3,370.74	0.00
TOTAL	790,000.00		379,337.50	1,169,337.50	14,600.00	-220,364.46	963,573.04	

#### KENTUCKY KURAL WATER FINANCE CORPORATION FLEXIBLE TERM FINANCE PROGRAM, SERIES 2001 A

Borrower: Big Sandy Water District
Dated Date: 06/27/01

\$ Le18,000

23271.

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l'ayment			Trustca	11	liscal
Date	Principal	Interest	l'ees	Total	'Totul
06/27/01			200.00	10 600 70	60,635.22
01/01/02	16,000.00	24,239,72	950.00	40,583.72	60,630.22
07/01/02	0.00	20,051.50	0.00	20,051.50	
01/01/05	16,000.00 Pd	20,051.50	350.00	96,401.50	56,121.00
07/01/03	0.00	19,719.50	0.00	19,719.50	
01/01/04	19,000.00	19,719.50	350.00	49,069.00	58,394.75
07/01/04	0.00	19,325.25	0.00	19,325.25	
01/01/05	18,000.00	19,325,25	350,00	37,675.25	56,627.00
07/01/05	0,00	18,951.75	0,00	18,951.75	
01/01/06	23,000.00	18,931.76	350.00	42,501,73	60,776,25
07/01/06	0.00	18,474.50	0.00	18,474,50	
01/01/07	25,000.00	18,474.50	350.00	49,824.50	61,717.75
07/01/07	0.00	17,893.25	0.00	17,893.25	
01/01/08	31,000,00	17.895.25	350.00	49,243,23	66,410.75
07/01/08	0.00	17,172.50	0.00	17,172.50	
01/01/09	28,000.00	17,172.50	330.00	45,922.50	62,044.00
07/01/09	0.00	16,521,50	0.00	16,521.50	
01/01/10	52,000,00	16,521.50	500.00	48,871.50	64,569.00
07/01/10	0.00	15,697.50	0.00	15,697,50	
01/01/11	31,000,00	15,697.50	350.00	47,047.BO	G1,94G.75
07/01/11	0.00	14,899.25	.0.00	14,899.25	
01/01/12	37,000.00	14,899,29	350.00	52,249.25	66,195.79
07/01/12	0.00	13.94G.50	0.00	13,946.50	,
01/01/13	38,000.00	13,94G.50	550.00	62,296,50	65,264,50
07/01/13	0.00	12,968.00	0.00	12,968.00	
	42,000,00	12,968.00	850.00	55.318.00	67,125.75
01/01/14		11,807.75	0.00	11,807.75	4.1.22.10
07/01/14	0.00		350.00		65,777.63
01/01/15	43,000.00	11,807.75	0.00	95,157.75	52111103
07/01/15	0.00	10,619.88		10,619.88	C7 401 99
01/01/16	45,000.00	10,610.88	350.00	63,969.88	63,401.88
07/01/16	0.00	9,452,00	0.00	9,432.00	en and on
01/01/17	48,000.00	9,452.00	950.00	87,782.00	63,888.00
07/01/17	0,00	8,10G.00	0.00	8,106.00	07 107 10
01/01/18	51,000,00	8,106.00	350.00	39,456.00	66,103.19
07/01/18	0.00	6,697.13	0.00	6,697.13	
01/01/19	54,000.00	6,697.13	350.00	61,047.13	66,25251
07/01/19	0.00	5,205.5B	0.00	5,205.38	
01/01/20	57,000.00	5,205.38	350,00	62,555.18	C(,181,13
07/01/20	DO,03	3,630,75	0.00	3,630.70	
01/01/21	58,000.00	3,630.75	930.00	G1,980.70	64,118.00
07/01/21	0.00	2,137.25	0.00	2,197.26	
01/01/22	48,000.00	2,197.25	350.00	60,487.25	51,3HB.50
07/01/22	0.00	101.20	0.00	901,25	
01/01/23	30,000,00	901.25	350.00	36,231.25	30,201.25
07/01/23	0.00	0.00	0.00	0.00	
Totals	795,000.00	552,570.50	7,700.00	1,353,250.50	

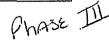
7/1-1/2 2/2-7/2	Monthly Principal	Monthly Interest	Sinking Fund
2/2-7/2	•		
2/2-7/2	•		
		3,461.96	5,747.67
	1,333.33	3,341.92	4,675.25
8/2-1/5	1,355.33	3,341.92	4,675,25
2/3-7/8	1,583.93	3,286.58	4,869.92
8/9-1/4	1,589:35	3,286.58	4,869.92
2/4-7/4	1,500.00	3,220.88	4,720.88
8/4-1/5	1,500.00	3,220.88	4,720.88
2/5-7/5	1,916.67	3,158.63	5,075.29
8/6-1/6	1,1111.67 -	3,158.63	5,075.29
2/6-7/6	2,089.35	3,079.08	5,162.42
8/6-1/7	2,089.33	3,079.08	5,162.42
2/7-7/7	2,589.33	2,982.21	п,569.54 -
8/7-1/8	2,585,95	2,982.21	5,565.54
2/8-7/8	2,333.35	z,8G2.08	5,195.42
8/8-1/9	2,333.33	2,862.08	5,195.42
2/9-7/0	2,666.67	2,753.58	5,420.25
8/9-1/10	2,666.67	2,759.98	5,420.25
2/10-7/10	2,085.33	2,616.23	5,199.58
8/10-1/11	2,589.33	2,616.25	5,199.58
2/11-7/11	3,089,33	2,485.21	5,566.54
8/11-1/12	3,089.33	2,483.21	5,566.54
2/12-7/12	3,166,67	2,324,42	5,491.08
8/12-1/15	5,166,67	2,924.42	3,491.08
2/13-7/13	3,500,00	2,161.35	5,661.99
8/13-1/14	3,500.00	2,161.93	5,661.53
2/14-7/14	9,583.33	1,967.96	5,551.29
8/14-1/15	3,583.33	1.967.96	5,551.29
2/15-7/15	3,585.33	1.769.98	5,953.51
8/19-1/16	3,583.53	1.769.98	5,353.31
2/16-7/16	4,000.00	1,572.00	5,572.00
8/16-1/17	4,000,00	1,572,00	5,572.00
2/17-7/17	4,250.00	1,351.00	5,601.00
8/17-1/18	4,250,00	1,331.00	5,601.00
2/18-7/18	4,500.00	1,116.19	5,616.19
8/18-1/19	4,500.00	1,116.19	5,616.19
2/19-7/19	4,760.00	867.56	5,617.56
8/19-1-20	4.750.00	867,56	5,617,56
2/20-7/20	4.835.35	605.13	5,438.4G
8/20-1/21	4.833.33	605.13	5,438,46
2/21-7/21	4,000,00	356.21	4,356.21
8/21-1/22	4,000,00	356.21	4,556,21
2/22-7/22	2,910.67	150.21	3,066.88
8/22-1/23	2,510.67 2,910.67	150.21	3,066,48
2/23-7/25	0.00	0.00	0.00
2/23-7/23	0.00	0.00	0.00
	793,000.00	552,530.30	1,845,550.50

refisences

#### KENTUCKY RURAL WATER FINANCE CORPORATION FLEXIBLE TERM FINANCE PROGRAM SERIES 2004 D

Big Sandy Water District 10/19/04 Bonower; Dated Date:

Borrowet Payment Schedule



Payment		Interest	1	Trustee		Fiecal
Date	Principal	Rate	Interest	Fees	Total	Total
	Lincopa	7,44,0	I INCLUSE	1,122	Lutes )	1 10121
10/19/04						
01/01/05	25,000.00	3,1236	9,979.97		34,979.97	
07/01/05	0.00		14,579.95	350.00	14,929,95	49,909,92
01/01/06	29,000.00	1.12%	14,579.95	***************************************	43,579.95	77,000,02
07/01/06	0.00		14,127.55	350.00	14,477.55	58,057,50
01/01/07	20,000.00	3,1256	14,127.55	222.44	34,127,55	
07/01/07	0.00	*****	13,815.55	350.00	14,165.55	48,293.10
01/01/03	20,000.00	3.22%	13.815.55		33,815.55	.,
07/01/08	0.00		13,493.55	350.00	13,843.55	47,659.10
01/01/09	23,000.00	3.37%	13,493.55		36,493.55	
07/01/09	0.00		13,106.00	350.00	13,456.00	49,949,55
01/01/10	23,000.00	3.17%	13,106.00		36,106.00	
07/01/10	0.00		12,718.45	150.00	13,069.45	49,174.45
01/01/11	23,00(100	3.37%	12,718.45		35,718.45	
07/01/11	0.00		12,330.90	350.00	12,680.90	48,399.35
01/01/12	24,000.00	3.50%	12,330.90		36,330.90	
07/01/12	0.00		11,710.90	350.00	12,260.90	48,591.80
01/01/13	25,000.00	3.625	11,910.90		36,910.90	
07/01/13	0.00		11,458.40	350.00	11,808.40	48,719.30
01/01/14	24,000.00	4.12%	11,458.40		35,458.40	
117/01/14	0.00		10,964.00	350.00	11,314.00	46,772.40
01/01/15	26,000.00	4,1246	10,964.00		36,964.00	
07/01/15	0.00		10,428.49	350.00	10,77B.40	47,742.40
01/101/16	27,000.00	4.1255	10,428.40		37,426.40	
07/01/16	0.00		9,872.20	350.00	10,222.20	47,650.60
01/01/17	27,000.00	4.12%	9,872.20		36,572.20	
07/01/17	0.00		9,316.00	350.00	9,666.00	46,538.20
01/01/18	28,000.00	4.12%	9,316.00		37,316.00	
07/01/18	0.90		8,739.20	350.00	9,089.20	46,405.20
01/01/19	23,000.00	4.12%	8,739.20	****	31,739.20	
07/01/19	0.00		8,265.40	350.00	8,G15.40	40,354.60
01/01/20 07/01/20	25,000.00 0.00	4.1254	8,265.40	****	33,265.40	
01/01/21	25,000.00	4000	7,750.40	350.00	8,100.40	41,365.60
07/01/21	0.00	4.25%	7,750.40	350.00	32,750.40	10.710.00
01/01/22	31,000.00	4.25%	7,219.15 7,219.15	331400	7,569.15 38,219.15	40,319.55
07/01/22	0.00	7.4379		15000		47 4mm FF
01/01/23			6,560.40	350.00	6,910.49	45,129.55
07/01/23	33,000.00	4.62%	6,560.40	35000	39,560.40	15 700 50
	0.00		5,798.10	350.00	6,148.10	45,708.50
01/01/24	35,000.00	4.62%	5,798.10		40,798.10	
07/01/24 01/01/25	0.00 00.000,8E	4.62%	4,989.60	350.00	5,339.60	46,137.70
07/01/25	38,304,300	4.6356	4,989.60	160~	42,989.60	47.451.40
01/01/26	40,000.00	4.625%	4,111.80 4,111.80	150.00	4,461.80	47,451.40
07/01/26	90,000.00	7.0279	3,187.80	350.00	44,111.80 3,537.80	47,649.60
01/01/27	42,000.00	4.62%	3,187.80	32400	45,187.80	41,047,00
07/01/27	0.00	7.027#	2,217.60	350.00	75,107.50 7,567.60	47,755.40
01/01/28	44.000.00	4,62%	2,217.60	22400	45,217.60	77,123,40
07/01/28	0.00	7,0278	1,201.20	350.00	1,551.20	47,768.B0
01/01/29	52,000.00	4.62%	1,201.20	22000	53,201,20	77,100.00
01/ 01/ 23	14mmin	4.0479	1,401,40		23,241.23	53,201,20
						للهدالاعبادا
Totals	732,000.00		446,304,97	8,400.00	1,186,704.97	
. 7,	127,21117			0,100.00	C100110-137	
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E PROGRAM SE	RIES 2004 D			
M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				M.
			Phase -	
			A Allera	
	Monthly	Monthly	Total Monthly Sinking Fund	$\mathcal{L}_{\mathcal{L}}}}}}}}}}$
	Principal	Interest	Payments	1
			•	eg seri
12/4-1/5	12,500,00	4,969.99	17,469.99	er.
2/5-7/5	2,416.67	2,429.99	4,846.66	
8/5-1/6	2,416.67	2,429.99	4,846.66	
2/6-7/6	1,666.67	2,354.59	4,/121.26	
8/6-1/7	1,666.67	2,354.59 2,302.59	4,021.26	
2/7-7/7 8/7-1/8	1,666.67 1,666.67	2,102.59	3,969.26 3,969.26	
2/8-7/8	1,916.67	2,248.93	4,165.59	
8/8-1/9	1,916.67	2,248.93	4,165.59	
2/9-7/9	1,916.67	2,184.33	1,101.00	
8/9-1/111	1,916.67	2,184,33	4,101.00	
2/10-7/10	1,916.67	2,119.74	4,036.41	
8/10-1/11 2/11-7/11	1,916.67 2,000.00	2,119.74 2,055.15	4,036.41 4,035.15	
8/11-1/12	2,000.00	2,055.15	4,055.15	
2/12-7/12	2083.33	1,785.15	4,058.48	
8/12-1/13	2,083.33	1,985.15	4,068.48	
2/13-7/13	2,000.00	1,909.73	3,909.73	
8/13-1/14	2,000.00	1,909.73	3,909.73	
2/14-7/14 8/14-1/15	2,166.67 2,166.67	1,827.33 1,827.33	3,994.00 3,994.00	
2/15-7/15	2,250.00	1,738.07	3,988.07	
8/15-1/16	2,250.00	1,738.07	3,988.07	
2/16-7/16	2,250.00	1,645.37	3,695.37	
8/16-1/17	2,250.00	1,645.37	3,895.37	
2/17-7/17	2,333.33	1,552.67	7,0 268,0	
8/17-1/18 2/18-7/18	2,333.33	1,55267	3,886.00	
8/18-1/19	1,916.67 1,916.67	1,456.53 1,456.53	3,373.20 3,373.20	
2/19-7/19	2,083.33	1,377.57	3,460.90	
6/19-1-20	2,083.33	1,377.57	3,460.90	
2/20-7/20	2,083.33	1,291.73	3,375.07	
8/20-1/21	2,083.33	1,291.73	3,375.07	
2/21-7/21	2,583.33	1,203.19	3,786.53	
8/21-1/22	2,583.33	1,203.19	3,786.53	
2/22-7/22	2,750.00	1,093.40	3,843.40	
8/22-1/23 2/23-7/23	2,750.00 2,916.67	1,093.40 966.35	3,943.40 3,883.02	
8/23-1/24	1,916.67	966.35	3,883.02	
2/24-7/24	3,165.67	831.60	3,998.27	
8/24-1/25	3,166.67	831.60	3,99R.27	
2/25-7/25	3,333.33	685.30	4,01B.63	
8/25-1/26	3,313.33	685.30	4,018.63	
2/26-7/26 8/26-1/27	3,500.00	531.30	4,031.30	
8/26-1/27 2/27-7/27	3,500.00 3,666.67	531.30 369.60	4,031.30 4,036.27	1
8/27-1/28	3,665.67	369.60	4,036.27	
2/28-7/28	4,333.33	200.20	4,533.53	
8/28-1/29	4,333.33	200.20	4,533.53	
	·			
	722 000 00	11/30107	1.70.504.57	
	732,000.00	446,304.97	1,178,304.97	
				i

### KRWFC Flexible Term Program Series 2007 A Sinking Fund Payment Schedule

Borrower: Big Sandy Water District Closing Date: 01/30/07

	Monthly	Monthly	Total Monthly Sinking Fund
	Principal	Interest	Payments
	rincipal	Interest	rayments
3/7-7/7	2,480 00	3,870.05	6,350.06
8/7-1/8	3,100 00	3,207 23	6,307 23
2/8-7/8	2,666.67	3,102.61	S,769 27
8/8-1/9	2,666 67	3,102.61	5,769 27
2/9-7/9	2,833 33	2,994-61	5,827 94
8/9-1/10	2,833 33	2,994 61	5,827.94
2/10-7/10	2,916 67	2,879 86	5,796 52
B/10-1/11	2,916 67	2,879 86	5,796 52
2/11-7/11	3,000 00	2,761.73	5,761 73
B/11-1/12	3,000 00	2,761.73	5,761 73
2/12-7/12	3,166-67	2,640 23	5,806 90
8/12-1/13	3,166 67	2,640 23	5,806 90
2/13-7/13	3,250 00	2,511 98	5,761 98
8/13-1/14	3,250.00	2,511 98	5,761 98
2/14-7/14	3,416 67	2,380 36	5,797-02
8/14-1/15	3,416 67	2,380 36	5,797.02
2/15-7/15	3,666-67	2,241 9B	5,908 65
8/15-1/16	3,666.67	2,241.98	5,908 65
2/16-7/16	3,666 67	2,093 48	5,760 15
8/16-1/17	3,666-67	2,093 48	5,760 15
2/17-7/17	3,833 33	1,944.98	5,778.31
8/17-1/18	3,833 33	1,944 98	5,778 31
2/18-7/18	4,000 00	1,789.73	5,789 73
B/1B-1/19	4,000 00	1,789 73	5,789.73
2/19-7/19	4,166 67	1,627.73	5,794.40
8/19-1-20	4,166 67	1,627 73	5,794 40
2/20-7/20	4,333.33	1,458 98	5,792.31
8/20-1/21	4,333.33	1,458 98	5,792 31
2/21-7/21	4,500 00	1,283.48	5,783 4B
8/21-1/22	4,500 00	1,283 48	5,783 48
2/22-7/22	4,666 67	1,101 23	5,767 90
8/22-1/23	4,666 67	1,101 23	5,767- <del>9</del> 0
2/23-7/23	4,916 67	906 40	5,823 06
8/23-1/24	4,916 67	906 40	5,B23 06
2/24-7/24	5,083.33	694 98	5,778 31
8/24-1/25	5,083 33	694 98	5,778 31
2/25-7/25	5,333 33	476 40	5,809.73
8/25-1/26	5,333 33	476 40	5,809 73
2/26-7/26	5,583 33	247 06	5,830 40
B/26-1/27	5,583 33	247.06	5,830 40
		460 5 17 16	1 201 0 2 2 2
	931,000.00	460,247.10	1,391,247.10

#### BIG SANDY WATER DISTRICT MEMORANDUM

TO:

Mark Frost, KY Public Service Commission-Rates & Tariffs

FROM:

Jimmy Blanton

SUBJECT:

Surcharge for Water Losses/Leak Detection

DATE:

March 9, 2012

SME NO:

12007

The Big Sandy Water District Board of Directors at their March 1, 2012 Regular Meeting directed the Manager and Sisler-Maggard Engineering, PLLC to prepare contract documents (bids) to install 30-35 mainline meters.

The meters (with bypasses) will allow the District staff to isolate their 356 mile system into manageable segments to allow them to find and eliminate system leaks. Of course their goal is to achieve less then 12% water loss.

As the Public Service Commission is aware, the BSWD purchases water from the City of Kenova, West Virginia, the City of Louisa, Cannonsburg Water District and Rattlesnake Ridge Water District. As the Commission is also aware, the purchase price for water from the entities continues to go up unabated. Subsequently the economic impact on BSWD continues to grow.

The BSWD has obtained a short term "line of credit" for \$250,000 from Town Square Bank for this project. This project is estimated to cost in the \$225,000 range. We intend to bid material and bid labor in separate contracts.

Your acknowledgement and acquiescence will be appreciated.

lames H. Blanton

James H. Blanton

Manager