# RECEIVED

MAY 1 8 2018



BRIAN CUMBO
ATTORNEY AT LAW

PUBLIC SERVICE COMMISSION

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ADMITTED IN KY AND WV

May 15, 2018

Public Service Commission P.O. Box 615 Frankfort, KY 40602

RE: Martin County Water District PSC Case No. 2016-00142

To Whom It May Concern:

Enclosed please find original and six (6) copies of Martin Water District's Response to MCCC's Second Request for Information and Response to PSC's Post Hearing Request dated May 1, 2018 regarding the above matter.

Thank you for your attention to this matter.

Very truly yours.

**BRIAN CUMBO** 

BC/ld Enclosure

## **RECEIVED**

### COMMONWEALTH OF KENTUCKY

MAY 1 8 2018

PUBLIC SERVICE COMMISSION

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

INVESTIGATION OF THE OPERATING	)	
CAPACITY OF MARTIN COUNTY WATER	)	CASE NO. 2016-00142
DISTRICT PURSUANT TO KRS 278.280	j	

# MARTIN COUNTY WATER DISTRICT'S RESPONSE TO PSC'S POST HEARING REQUEST FOR INFORMATION DATED MAY 1, 2018

### CERTIFICATE OF SERVICE

Public Service Commission P.O. Box 615 Frankfort, KY 40602 brittany.koenig@ky.gov

Hon. Mary Varson Cromer Appalachian Citizens' Law Center, Inc. 317 Main Street Whitesburg, KY 41858 mary@appalachianlawcenter.org

Hon. M. Todd Osterioh Hon. James Wilson Gardner Sturgill, Turner, Barker & Moloney, PLLC 333 West Vine Street, Ste. 1400 Lexington, KY 40507 tosterloh@sturgillturner.com jameswilsongardner@gmail.com

**BRIAN CUMBO** 

1. Provide each Monthly Water Use Report for the period of February 1, 2016 through April 30, 2018. Each report should include water loss due to flushing. Martin District should continue to file these reports with the Commission every month.

RESPONSE: See attached Exhibit #1.

2. Provide each memorandum or other correspondence between Martin District and the Kentucky Rural Water Association for the period of February 1, 2018 through April 30, 2018. This request is a continuing request.

RESPONSE: None

3. For the period beginning March 1, 2018, to the present, by month, provide the amount of coal severance funds received by Martin County. This is a continuing request.

RESPONSE: The Martin County Fiscal court did not receive any coal severance grants, nor did they pass through any coal severance grants to the Martin County Water District during the period of March 1, 2018 through April 30, 2018.

4. By month, for the period beginning March 1, 2018, to the present, provide the amount of coal severance funds allocated by Martin County to Martin District. Also describe how those funds, if any, were received and used. This is a continuing request.

RESPONSE: See answer to #3.

5. State whether Martin District's commissioners have completed the water district commissioner training as required by KRS 74.020(b) and provide the date(s) of the training and the hours of training accrued for each commissioner. For commissioners that have not completed the training, provide an explanation for why the training was not completed and when and if the commissioner plans to complete the training.

RESPONSE: Jaryd Crum did not attend due to illness. John Horn did not attend one day due to work demands. They will complete training as soon as it is provided.

6. Provide an update with regard to the negotiations with the Prestonsburg City's Utilities Commission ("PCUC") for the lease and use of the Honey Branch Tank. Include any correspondence between PCUC and Martin District as well as any agreements or draft agreements.

RESPONSE: See attached Exhibit #2.

7. State whether Martin District has provided water to the United States Penitentiary, Big Sandy and the Honey Branch Tank for the period of time from March 1, 2018 until present. Provide the number of gallons per month, if any, Martin District pumped to the United States Penitentiary, Big Sandy, and the Honey Brank Tank, if any.

RESPONSE: See attached Exhibit #3.

8. Provide an update regarding any past-due amounts that Martin District owes PCUC for purchased water. For the period of time from March 1, 2018 until the present, provide the: a) amount of water purchased; b) amounts paid to PCUC; c) the amount of any past-due accounts to PCUC; and d) the status of the municipal lien that PCUC has filed against Martin District.

RESPONSE: a) None; b) None; c) PCUC claims it to be \$83,145.75; d) unresolved.

9. Provide an overview of efforts to implement recommendations from Bluewater Kentucky report issued on January 14, 2018. Specifically, discuss those designated as high priority by Bluewater Kentucky.

RESPONSE: Those efforts are ongoing, and currently being managed on a triage basis. Many have already been implemented, or are in the process of being implemented, as time and funds permit.

As to those which are high priority:

### Finance/Accounting/Rates

- 1. Rate increase & surcharge have been implemented. Progress is being steadily made on reducing accounts payable. For example, in April, the District revenues exceeded billing by approximately \$20,000.00.
- 2. Done.
- 3. Not yet begun.
- 4. Ongoing.
- 5. Done.

### Capital Improvement/Asset Management

- 1. Not yet done.
- 2. This process is ongoing, and several applications have been submitted.
- 3 Ongoing
- 4. This project should be going to bid this month.

### Water Treatment and Delivery

- 1. Done.
- 2. Ongoing.

### Water Loss, Metering/Billing

- 1. Not yet.
- 2. Ongoing.
- 10. Provide an update of efforts to pursue grants and low-interest loans for critical capital projects.

RESPONSE: See Exhibit #4. An application is currently being prepared for improvements on new Route 3.

11. Provide a status update of the Abandoned Mine Land grants.

RESPONSE: Going to bid this month.

12. The Bluewater Kentucky contract terminates June 1, 208. Will Martin District renew or extend the contract?

RESPONSE: Renew.

### **VERIFICATION**

I, Greg Scott, of the Martin County Water District, hereby verify that the responses and exhibits attached hereto are true and correct to the best of my knowledge.

STATE OF KENTUCKY)

COUNTY OF MARTIN)

SUBSCRIBED, SWORN and ACKNOWLEDGED before me by Greg Scott this 14

// 2018. My Commission Expires: 9-/8-18

# EXHIBIT #1

Water Ut	ility:	Martin C	ounty Wa	ater Dist	rict			
Year:	2016	2016		Revised				
LINE#	ITEM						GALLONS (Omit 000's)	%
1		RODUCED	or PURCH	ASED			(011111 000 3)	70
2	Water Prod		OI T OILOIL	TOLD .			696.292	99
3	Water Purc						10.341	1
4			TOTAL	PRODUC	ED AND PU	RCHASED	706.633	
	WATER SO	OLD						
5	Residential						197.826	89
6	Commercia	al					0.000	
7	Industrial						0.000	
8	Bulk Loadir	ng Stations					0.000	
9	Wholesale						0.000	
10	Other Sales	s (explain)	Honey Bra	nch			24.011	11
11	1				TOTAL WAT	TER SOLD	221.837	31
12					AL WATER N		484.796	
40		A CONTRACTOR OF THE PARTY OF TH	ISOLD WA		)		5.004	-
13			eatment Pla	ant	Cation at a d		5.631	
14	Wastewate	CALL TO CALL THE CONTROL OF THE CALL TH			Estimated		0.000	
15 16	System Flu				Estimated Estimated		30.050 3.725	
17	Fire Depart Other (exp				Estimated		0.000	
				TOTAL U	NSOLD WA	TER USED	39.406	6
	DDEAKD	DIAME OF M	MATER LOS	<u></u>				
18	Tank Over	A CONTRACT OF THE PARTY OF THE	ATER LOS		Estimated		0.000	0
19	Line Break				Estimated		186.774	
20	Other Loss				LStimated		258.616	
				TOTAL U	NSOLD WA	TER LOST	445.390	63
•	"OTHER L	OSS" FLO	W RATE C	ALCULATI			050.00	1
21	1					Other Loss"		
22 23	-			k1.	umber of Day	Other Loss"		
24	1		Other Loss		1,000's gallor			1
25			Other Loss		oss" per Mir			
		7)	. 2		-	WHO S		
		Ken	TUCKU					

			Monthly	vvater	USE RE	port		
Water Utili	ty:	Martin C	ounty Wa	ater Distr	ict			
or the Mo	onth of:	January				Year:	2016	
							GALLONS	
LINE#	ITEM						(Omit 000's)	%
1		RODUCED	or PURCH	ASED				
2	Water Prod						58.557	96%
3	Water Purc	cnased	TOTAL	PROPUG	ED AND DI	JRCHASED	2.528	4%
4			IOIAL	PRODUCI	ED AND PO	JKCHASED	61.085	
_	WATER S		i	i	1	1	1	
5	Residentia						19.109	92%
6	Commercia	al					0.000	0%
7	Industrial	Ct-t'						0%
8 9	Wholesale	ng Stations						0%
10	The second secon	es (explain)	Honou Pro	nob Industr	ol Dork		1.697	0% 8%
10	Other Sale	(explain)	попеу Бга	nen maasu	airaik		1.697	070
11					TOTAL WA	ATER SOLD	20.806	34%
12						NOT SOLD		66%
40		OWN OF UN	California de la companya del companya de la companya del companya de la companya		1		0.500	40/
13 14	Wastewate	or Water Tr	eatment Pia	ant			0.503	1%
15	System Flu	C. A. A. C. SERVINIE				Estimated	0.000 2.500	0% 4%
16	Fire Depar					Estimated	0.350	1%
17	Other (exp				-	Estimated	0.000	0%
	оптог (охр					Louinatou	0.000	070
				TOTAL U	SOLD WA	ATER USED	3.353	5%
	DDEAKD	OWN OF W	ATEDIOS	<u></u>				
18	Tank Over		AIER LUS				0.000	0%
19	Line Break						21.926	36%
20	Other Loss						15.000	25%
				1	OTAL W	ATER LOST	36.926	60%
	"OTHER I	OSS" FLO	W DATE C	ALCIII ATI	ON:			
21	OTTIER E	.555 110	TO THE OF	LOULAIN		'Other Loss"	15.000	
22						'Other Loss"		
23				Nu		ays in Period		
24		"	Other Loss"			ons per Day)		
25						inute (GPM)		
		Ken	tucky DLED SPIRITY	<u> </u>				
		This form	approved b	y: EPPC/D	EP/DOW,	KY PSC, KR	RWA	

Revised: January 10, 2007

	1	lont	hly Wate	er Use F	Report	1	1
Nater Utili	ty:	Martin County Water	District				
For the Mo	onth of:	February			Year:	2016	
LINE#	ITEM					GALLONS (Omit 000's)	%
1	WATER P	RODUCED or PURCHASE	D				
2	Water Pro	duced				56.058	96%
3	Water Pure	chased	Kermit Wat	er		2.430	49
4			TOTAL	PRODUCI	D AND PURCHAS	58.488	
	WATER S	OLD					
5	Residentia	l				14.629	95%
6	Commerci	al				0.000	0%
7	Industrial						0%
8	Bulk Loadi	ng Stations					0%
9	Wholesale						09
10	Other Sale	s (explain)	Honey Bran	nch		0.769	5%
11					TOTAL WATER SO	LD 15.398	26%
12					L WATER NOT SC		
			HOED				
13		OWN OF UNSOLD WATER or Water Treatment Plant	USED			0.482	! 19
14	Wastewate					0.402	0%
15	System Flu	The state of the s			Estima	ted 2.500	
16	Fire Depar				Estima		
17	Other (exp				Estima		0%
	ound (oxp						-
		1		TOTAL UN	ISOLD WATER US	SED 3.232	69
	BREAKD	OWN OF WATER LOST					
18	Tank Over		_			0.000	
19	Line Break				Estima		
20	Other Loss	5	١		Estima	ted 24.602	42%
				1	OTAL WATER LO	<b>OST</b> 39.858	68%
	TOTUED I	OCCUPI ON DATE CALC	III ATION				1
21	OTHER	OSS" FLOW RATE CALC	ULATION:		"Other Lo	oss" 24.602	,
22					% "Other Lo		
23	-			Nu	mber of Days in Pe		
24	l		Other Loss"		,000's gallons per D	(CATALANDA)	
25	1		Outer Loss		oss" per Minute (Gl		
20				Outor E	oce per minate (e.		
		Kentuc Kunbridled SP	ky'	-			
		This form approve					

	1		0010		- u.u. u	onthly V	1	1	
	+				istrict	v Water D	Martin Count	ility	Water Uti
	6	2016	Year:			y water b	March		For the M
		0.411.0310							
	0/	GALLONS						ITEM	INIT #
	%	(Omit 000's)				DCHACED	PRODUCED or PU	ITEM	LINE#
95%		59.366				KCHASED		Water Pro	2
5%		2.823						Water Pur	3
- 0,	_	62.189	PURCHASED	ED AND P	PRODUC	TOTAL	I	Water Fur	4
	_						SOLD	WATER S	
829		17.597						Residentia	5
0%	)	0.000					ial	Commerci	6
09	-						line Otetine	Industrial	7
09 09							ling Stations	Wholesale	8
189	3	3.858		rial Park	nch Indus	Honey Bra	es (explain)		9 10
	-								
349		21.455	WATER SOLD		TO.				11
669	+	40.734	ER NOT SOLD	AL WATER	101			-	12
	1		1	1	SED		OWN OF UNSOLE		
19		0.469				nt Plant	/or Water Treatme		13
0% 5%		0.000 3.000	Estimated					Wastewate	14 15
09		0.250	Estimated					System Floring System Fire Department	16
09		0.250	Estimated					Other (exp	17
69	9	3.719	WATER USED	NSOLD W	TOTAL I				
						LOST	OOWN OF WATER	BDEAKD	
09		0.000	1	I	1	LUST		Tank Over	18
239		14.500	Estimated					Line Break	19
369		22.515	Estimated					Other Loss	20
609	5	37.015	WATER LOST	TOTAL W					
	1								
	1				ATION:	TE CALCUL	LOSS" FLOW RA	"OTHER I	
			"Other Loss"					1	21
			% "Other Loss" Days in Period		, ,			-	22
			pallons per Day)		9	"Other Loss"			24
			r Minute (GPM)			-			25
					2	LICKY D SPIRIT	Kenti		

	1	Mo	nthly Water	Use Re	port	ī		ĺ
Vater Util	lity:	Martin County Water	r District					
		_						
or the M	onth of:	April				Year:	2016	
							04110110	
INIT #	ITEM						GALLONS	
INE#	ITEM						(Omit 000's)	%
1		PRODUCED or PURCHAS	ED					
2	Water Pro						57.406	99%
3 4	Water Pu	ircnased	TOTAL	DDODUOE	D AND DU	DOLLAGED	0.419	1%
4			IOIAL	PRODUCE	ED AND PU	RCHASED	57.825	
	WATER S			,				
5	Residenti						17.597	82%
6	Commerc						0.000	0%
7	Industrial							0%
8		ding Stations						0%
9	Wholesal						2.222	0%
10	Other Sa	les (explain)	Honey Brar	nch			3.832	18%
11	-				TOTAL MA	TED COLD	21.429	37%
12						TER SOLD	36.396	63%
12	-			IUIA	LWAIEK	NOT SOLD	30.390	0370
	BDEAKD	OWN OF UNSOLD WATE	PIISED					
13		d/or Water Treatment Plant	K USED				0.404	1%
14	Wastewa						0.000	0%
15	System F					Estimated	3.500	6%
16	Fire Depa					Estimated	0.350	1%
17	Other (ex					Estimated	0.000	0%
• • •	0 11101 (0)					Loundtod	0.000	07.
		1	1	TOTAL UN	ISOLD WA	TER USED	4.254	7%
	BREAK	DOWN OF WATER LOST						
18	Tank Ove						0.000	0%
19	Line Brea		(Elk Creek.	Petercave,	Railroad)	Estimated	24.142	42%
20	Other Los				,	Estimated	8.000	14%
				Т	OTAL WA	TER LOST	32.142	56%
	"OTHER	LOSS" FLOW RATE CAL	CULATION:					
21						Other Loss"	8.000	
22						Other Loss"	14%	
23						ys in Period		
24			"Other Loss"					
25				"Other Lo	oss" per Mi	nute (GPM)	0.185	
		Kentu	CKY	3				
		This form ann	roved by: EPPC/D	DEP/DOW	KY PSC. K	RWA		

	Ī	1	Monthly Water I	<u>Use Report</u>	T.		
Nater Uti	lity:	Martin County Wa	nter District				
or the M	onth of:	May			Year:	2016	
INE#	ITEM					GALLONS (Omit 000's)	%
1	The Control of the Co	PRODUCED or PURCHA	ASED			(011111 000 3)	70
2	Water Pr		1020			58.563	99%
3	Water Pu	urchased				0.348	1%
4			TOTAL	PRODUCED AND PU	RCHASED	58.911	
	WATER	SOLD					
5	Resident					14.214	84%
6	Commer					0.000	0%
7	Industria						0%
8		ding Stations					0%
9	Wholesa						0%
10	Other Sa	iles (explain)	Honey Brad	ch		2.782	16%
11				TOTAL WA	TED SOLD	16.996	29%
12				TOTAL WATER		41.915	71%
- 10		DOWN OF UNSOLD WAT					
13		d/or Water Treatment Pla	nt			0.481	1%
14 15		ater Plant			Catimatad	0.000	0%
16	System F Fire Dep				Estimated Estimated	2.250 0.250	4% 0%
17	Other (ex				Estimated	0.230	0%
	,	,					
				TOTAL UNSOLD WA	TER USED	2.981	5%
		DOWN OF WATER LOS	Т				
18	Tank Ov			Estimated		0.000	0%
19	Line Brea			Estimated		12.250	21%
20	Other Lo	SS				26.684	45%
				TOTAL WA	TER LOST	38.934	66%
	"OTHER	LOSS" FLOW RATE CA	ALCULATION:				
21	T THEK	LOGO I LOW INAIL OF	LOULATION.	"(	Other Loss"	26.684	
22	1				Other Loss"	45%	
23				Number of Da			
24			"Other Loss"	per Day (1,000's gallo			
25				"Other Loss" per Mi	nute (GPM)	0.598	
		Kent	uckur	5	THE STATE OF THE S		
		UNBRIDL	ED SPIRIT				
		This form	approved by: EPPC/DE	D/DOW IOV DOG IVE	 		

	1	<u>Mo</u>	nthly Water	Use Rep	<u>ort</u>		ſ	1
Nater Util	lity:	Martin County Water	District					
or the M	onth of:	June				Year:	2016	
							GALLONS	
LINE#	ITEM						(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED	)					
2	Water Pr	roduced					58.356	100%
3	Water Pu	ırchased					0.285	0%
4		1	TOTA	AL PRODUCE	D AND PU	RCHASED	58.641	
	WATER	SOLD						
5	Resident						18.160	84%
6	Commer	cial					0.000	0%
7	Industria							0%
8	Bulk Loa	ding Stations						0%
9	Wholesa							0%
10	Other Sa	les (explain)	Honey Br	ranch Industria	al Park		3.481	16%
11	-			1	OTAL WA	TER SOLD	21.641	37%
12						NOT SOLD	37.000	63%
	DDEAK	NOWN OF UNICOLD WATER	Herb					
13		DOWN OF UNSOLD WATER d/or Water Treatment Plant	USED				0.461	1%
14		ater Plant				Estimated	0.000	0%
15	System F					Estimated	2.750	5%
16	Fire Dep					Estimated	0.350	1%
17	Other (ex					Estimated	0.000	0%
	,							
				TOTAL UN	SOLD WA	TER USED	3.561	6%
	BREAK	DOWN OF WATER LOST						
18	Tank Ov				Estimated		0.000	
19	Line Brea				Estimated		14.600	
20	Other Lo	SS					18.839	32%
				Т	OTAL WA	TER LOST	33.439	57%
	"OTHER	LOSS" FLOW RATE CALCU	JLATION:					
21						Other Loss"		
22						Other Loss"		
23	1					ys in Period		
24			"Other Los	s" per Day (1,				
25				"Other Lo	oss" per Mi	nute (GPM)	0.436	
		Kentu	CRY					
		This form appli	roved by: EPPC/D	DEP/DOW K	Y PSC. KR	WA		

		14 4 0 4 114 4 5				
Vater Uti	ility:	Martin County Water D	istrict			
or the M	lonth of:	July		Year:	2016	
					GALLONS	
INE#	ITEM				(Omit 000's)	%
1		PRODUCED or PURCHASED			,	
2	Water Pro	oduced			58.102	99%
3	Water Pur	rchased			0.668	1%
4			TOTAL PROI	DUCED AND PURCHASED	58.770	
5	WATER S		1 1	ſ	18.160	90%
6	Commerc				0.000	0%
7	Industrial				0.000	0%
8		ling Stations				0%
9	Wholesale					0%
10	Other Sale	es (explain)	Honey Branch		2.090	10%
11				TOTAL WATER SOLD	20.250	34%
12			Т	OTAL WATER NOT SOLD	38.520	66%
	BREAKD	OWN OF UNSOLD WATER U	SED			
13		/or Water Treatment Plant			0.480	1%
14	Wastewat				0.000	0%
15	System F			Estimated	1.300	
16	Fire Depa			Estimated	0.350	
17	Other (ex	plain)		Estimated	-	0%
			TOTA	L UNSOLD WATER USED	2.130	4%
	BREAKD	DOWN OF WATER LOST				
18	Tank Ove				0.000	
19	Line Brea			Estimated	14.500	
20	Other Los	SS			21.890	37%
				TOTAL WATER LOST	36.390	62%
	"OTUED	LOSSII ELOW DATE CALCUI	ATION			
21	UTHER	LUSS FLOW RATE CALCUL	ATION:	"Other Lose"	21 800	
22	1					
23						
24	1		"Other Loss" per D			
25				her Loss" per Minute (GPM)		
		Kentuc	CKY .			
"OTHER LOSS" FLOW RATE CALCULATION:	Coss" FLOW RATE CALCULATION:  "Other Low Representation of the Country of the Cou	"Other Lo	"Oti	"Other Loss" % "Other Loss" Number of Days in Period ay (1,000's gallons per Day) her Loss" per Minute (GPM)	21.890 37% 31 0.706	62%

	1	<u> </u>	Monthly Water	Use Re	eport .		
Vater Uti	lity:	Martin County Wa	ter District				
or the M	onth of:	August			Year:	2016	
OI LIIC IVI	Onur or.	August			Teal.	2010	
						GALLONS	
INE#	ITEM					(Omit 000's)	%
1		PRODUCED or PURCHA	SED				
2	Water Pr					56.347	99%
3	Water Pu	urchased				0.762	19
4			ТОТА	L PRODUC	CED AND PURCHASED	57.109	
	WATER						
5	Resident	Water State Control of the Control o				14.344	82%
6	Commer					0	0%
7	Industria						0%
8		ding Stations					0%
9	Wholesa		D			2.000	0%
10	Other Sa	iles (explain)	Honey Bra	anch		3.080	18%
11					TOTAL WATER SOLD	17.424	31%
12				TOT	AL WATER NOT SOLD	39.685	69%
		DOWN OF UNSOLD WAT					
13		d/or Water Treatment Plar	nt			0.483	1%
14		ater Plant			Estimated	0.000	0%
15	System F				Estimated	1.500	3%
16 17	Fire Dep				Estimated	0.325	1%
17	Other (ex	xpiain)		+	Estimated		0%
				TOTAL U	INSOLD WATER USED	2.308	4%
	BDEAK	DOWN OF WATER LOST					
18	Tank Ov		1	I	1	0.000	0%
19	Line Brea					10.800	19%
20	Other Lo					26.577	47%
					TOTAL WATER LOST	37.377	65%
	+						
21	TOTHER	LOSS" FLOW RATE CA	LCULATION:		"Other Loss"	26.577	
22	1				% "Other Loss"	47%	
23	-			N	umber of Days in Period		
24	1		"Other Loss		1,000's gallons per Day)		
25			Outor Loss		Loss" per Minute (GPM)		
		Kenti	UCKY SPIRIT	3			
						1	
		This form a	pproved by: EPPC/[	DEP/DOW.	KY PSC. KRWA		

Vater Ut	ility:	Martin County Wate	er District				
or the N	Month of:	September			Year:	2016	
						GALLONS	
INE#	ITEM					(Omit 000's)	%
1		PRODUCED or PURCHASI	ED				
2	Water Pro					57.596	1009
3	Water Pur	cnased	TOTAL	PRODUCED AND	DIDCHASED	0.078 57.674	
4			TOTAL	PRODUCED AND I	UKCHASED	37.074	
_	WATER S		i i				
5	Residentia					17.760	25 55 5
6	Commerc	ial				0.000	09
7	Industrial	Otaliana					00
8	Wholesale	ing Stations					09
10		es (explain)	Honey Bran	nch		0.927	59
10	Other Gale	es (explain)	Tioney Brain	IGIT		0.521	3,
11				TOTAL W	ATER SOLD	18.687	329
12		_		TOTAL WATE	R NOT SOLD	38.987	689
	BREAKD	OWN OF UNSOLD WATER	PIISED				
13		or Water Treatment Plant	K USLD			0.499	19
14	Wastewat				Estimated	0.000	
15	System FI				Estimated	2.500	
16	Fire Depa				Estimated	0.250	09
17	Other (exp	olain)			Estimated		09
				TOTAL UNSOLD W	ATER USED	3.249	69
	BREAKD	OWN OF WATER LOST					
18	Tank Ove			Estimate		0.000	09
19	Line Breal			Estimate	ed	14.500	259
20	Other Los	S				21.238	379
	-			TOTAL V	VATER LOST	35.738	629
0.4	"OTHER	LOSS" FLOW RATE CALC	CULATION:		1011	01.000	
21 22				0.0	"Other Loss" "Other Loss"		
23					Days in Period		
24			"Other Lose"	per Day (1,000's ga			
25			Other Loss	"Other Loss" per			
					WHI OF		
		Kentu	ACKY SPIRIT	2			

Water Uti	litre	Martin County Water D	lietrict				
water ou	iity.	wartin County water D	ristrict				
or the M	onth of:	October			Year:	2016	
						GALLONS	
LINE#	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED			1	13	
2	Water Pr					60.697	100%
3	Water Po	urchased				0	0%
4			TOTAL F	PRODUCED AND PU	JRCHASED	60.697	
_	WATER			1	1	40.404	050/
5	Resident					16.134 0.000	95%
6 7	Commer					0.000	0%
8		iding Stations					0%
9	Wholesa			×			0%
10		ales (explain)	Honey Brand	h		0.850	5%
11				TOTAL WA			28%
12				TOTAL WATER	NOT SOLD	43.713	72%
	BREAK	DOWN OF UNSOLD WATER U	SED	ı			
13		d/or Water Treatment Plant				0.468	1%
14	Wastewa	ater Plant				0.000	0%
15	System I				Estimated	3.250	
16	Fire Dep				Estimated	0.300	0%
17	Other (e	xplain)			Estimated		0%
			T	OTAL UNSOLD WA	TER USED	4.018	7%
	BREAK	DOWN OF WATER LOST					
18	Tank Ov				1	0.000	0%
19	Line Bre					14.500	
20	Other Lo	oss				25.195	42%
				TOTAL WA	ATER LOST	39.695	65%
21	"OTHER	R LOSS" FLOW RATE CALCUL	LATION:		Other Loss"	25.195	
22	1				Other Loss"		
23	1			Number of Da			
24	1		"Other Loss" r	er Day (1,000's gallo			
25				"Other Loss" per Mi	inute (GPM)	0.564	
		Kentuk	CRY				
,		This form approx	yed by: EPPC/DE	P/DOW, KY PSC, KI	RWA		

	ſ		Monthly Water	Use R	eport			
Water Uti	lity:	Martin County Wa	ter District					
For the M	onth of:	November				Year:	2016	
							GALLONS	
LINE#	ITEM						(Omit 000's)	%
1	WATER	PRODUCED or PURCH	ASED					
2	Water Pr	roduced					55.721	1009
3	Water Pu	urchased					0	09
4		1	TOTA	L PRODU	CED AND PU	RCHASED	55.721	
	WATER			,				
5	Resident						14.723	100%
6	Commer						0	09
7	Industria							0%
8		ding Stations						0%
9	Wholesa Other Se		Llana: Da	onoh				0%
10	Other Sa	ales (explain)	Honey Br	anch				0%
11	_				TOTAL WAT	ED SOLD	14.723	26%
12				TO	TAL WATER N		40.998	749
12	-			10	TAL WATER	OT OOLD	40.550	747
	BREAKI	DOWN OF UNSOLD WA	TER USED	1	1 1			
13		d/or Water Treatment Pla					0.437	19
14		ater Plant					0.000	0%
15	System I						2.500	49
16	Fire Dep						0.300	19
17	Other (ex							0%
		1	1	TOTAL	UNSOLD WA	TER USED	3.237	6%
		DOWN OF WATER LOS	Т					
18	Tank Ov						0	0%
19	Line Bre					Estimated	15.500	28%
20	Other Lo	oss					22.261	40%
	-				TOTAL WA	TER LOST	37.761	68%
					TOTAL WA	ILK LOOT	37.701	007
								-
	"OTHER	R LOSS" FLOW RATE CA	ALCULATION:					
21						Other Loss"	22.261	
22				-		Other Loss"	40%	
23			"Other Leas		Number of Day		30 0.742	
24 25			Other Loss		(1,000's gallor r Loss" per Mir		0.742	
25				Oute	LOSS PEI WIII	idle (GFIVI)	0.515	
		Kent	UCKY					
		This form	approved by: EPPC/I	DED/DOW	KA BGC KB	WA		

					se Reporτ		
Water Uti	lity:	Martin C	ounty W	ater District			
For the M	lonth of:	December			Year:	2016	
or and m		Bodomboi			Tour.	2010	
	-					GALLONS	
LINE#	ITEM					(Omit 000's)	%
1		PRODUCED	or PURCH	ASED	T		
2	Water Pr					59.523	100%
3	Water Pu	urchased	TOTAL	PROPULEE	AND DUDCHACED	0	0%
4			TOTAL	PRODUCED	AND PURCHASED	59.523	
	WATER	SOLD					
5	Resident					15.399	96%
6	Commer	cial				0	0%
7	Industria	I					0%
8	Bulk Loa	ding Stations					0%
9	Wholesa	ile					0%
10	Other Sa	iles (explain)	Honey Bra	nch		0.645	4%
						10.011	
11					TAL WATER SOLD	16.044	27%
12				TOTAL	NATER NOT SOLD	43.479	73%
	BREAKE	OOWN OF UN	SOLD WA	TER USED			
13		d/or Water Tre			1	0.464	%
14		ater Plant					0%
15	System F	Flushing				2.500	4%
16	Fire Dep					0.400	1%
17	Other (ex				Estimated		0%
				TOTAL UNS	OLD WATER USED	3.364	6%
	BDEAK	DOWN OF W	ATEDIOS	ET.			
18	Tank Ov		AILK LOC			0.000	0%
19	Line Brea				Estimated	14.300	24%
20	Other Lo				Louridiod	25.815	43%
				TO	TAL WATER LOST	40.115	67%
	"OTHER	LOSS" FLO	W RATE C	ALCULATION	1		
21					"Other Loss"	25.815	
22					% "Other Loss"	200000000000000000000000000000000000000	
23					er of Days in Period		
24		"(	Other Loss		0's gallons per Day)		
25				"Other Loss	s" per Minute (GPM)	0.578	
		Ken	tucki				
		- UNBRI	JED STIMII				
					DOW, KY PSC, KR		

Saltons	Water Uti	itv.	Martin C	ounty W	ater Diet	rict			
LINE #   ITEM	vvater ou	ity.	Wai till C	ounty VV	ater Disti	ici			
LINE #   ITEM	For the M	onth of:	January				Year	2017	
TIEM			,				Tour.	2017	
ITEM									
Water Produced   62.634   1		17514							
2   Water Produced   62.634   10   3   Water Purchased   62.634   10   4			DDODUGED	DUDOL	IA OFF			(Omit 000's)	%
Water Purchased   WATER SOLD				or PURCE	IASED			00.004	1000
WATER SOLD   13.519   62.634								62.634	1000
WATER SOLD   13.519   16   17   18   19   19   19   19   19   19   19		vvaler Pu	irchaseu	TOTAL	PRODUCE	D AND DIE	DCHACED	60 634	00
13.519   13.519   16   16   17   17   18   18   18   18   18   18	4			TOTAL	PRODUCE	D AND PU	KCHASED	02.034	
13.519   13.519   16   16   17   17   18   18   18   18   18   18		WATER	SOLD						
6 Commercial 0.000 7 Industrial 0.000 8 Bulk Loading Stations 0.000 9 Wholesale 0.000 10 Other Sales (explain) Honey Branch 1.302  11 TOTAL WATER SOLD 14.821 12 TOTAL WATER NOT SOLD 47.813  BREAKDOWN OF UNSOLD WATER USED  13 Utility and/or Water Treatment Plant 0.456 14 Wastewater Plant 0.000 15 System Flushing Estimated 1.700 16 Fire Department Estimated 0.350 17 Other (explain)  TOTAL UNSOLD WATER USED 2.506  BREAKDOWN OF WATER LOST 18 Tank Overflows Estimated 6.500 20 Other Loss 38.807  TOTAL WATER LOST 45.307  "OTHER LOSS" FLOW RATE CALCULATION: 38.807 21 "OTHER LOSS" FLOW RATE CALCULATION: 62% 23 Number of Days in Period 31 24 "Other Loss" per Day (1,000's gallons per Day) 1.252	5							13.519	919
Solution	6	Commerc	cial	1				0.000	00
9 Wholesale 10 Other Sales (explain) 11 TOTAL WATER SOLD 11 12 TOTAL WATER NOT SOLD 12 TOTAL WATER NOT SOLD 13 Utility and/or Water Treatment Plant 15 System Flushing 16 Fire Department 17 Other (explain) 18 Tank Overflows 19 Line Breaks 20 Other Loss 19 Cother Loss 19 Cother Loss 10 Cother Loss 10 Cother Loss 10 Cother Loss 11 Cother Loss 12 Cother Loss 13 Cother Loss 14 Wastewater Plant 15 System Flushing 16 Estimated 17 Cother Loss 17 Other (explain) 18 Total Unsold Water Used 19 Cother Loss 19 Line Breaks 19 Cother Loss 19 Cother Loss 19 Cother Loss 19 Cother Loss 10 Cother Loss 10 Cother Loss 10 Cother Loss 11 Cother Loss 12 Cother Loss 13 Salor 14 Cother Loss 14 Cother Loss 15 Cother Loss 16 Cother Loss 17 Cother Loss 18 Cother Loss 18 Cother Loss 19 Cother Loss 19 Cother Loss 10 Cother Loss 10 Cother Loss 10 Cother Loss 11 Cother Loss 12 Cother Loss 13 Salor 14 Cother Loss 15 Cother Loss 16 Cother Loss 16 Cother Loss 17 Cother Loss 18 Cother Loss 18 Cother Loss 18 Cother Loss 18 Cother Loss 19 Cother Loss 19 Cother Loss 10 Cother Loss 10 Cother Loss 10 Cother Loss 11 Cother Loss 11 Cother Loss 12 Cother Loss 12 Cother Loss 13 Cother Loss 14 Cother Loss 15 Cother Loss 16 Cother Loss 16 Cother Loss 17 Cother Loss 18 Cother Loss 19 Cother Loss 19 Cother Loss 10 Cother Loss 11 Cother Loss 11 Cother Loss 12 Cother Loss 11 Cother Loss 11 Cother Loss 12 Cother Loss 11 Cother Loss 12 Cother Loss 12 Cother Loss 11 Cother Loss 12 Cother Loss 12 Cother Loss 12 Cother Loss 12 Cother Loss 14 Cother Loss 15 Cother Los	7	Industrial	9					0.000	00
9 Wholesale 10 Other Sales (explain) 11 TOTAL WATER SOLD 11 12 TOTAL WATER NOT SOLD 12 TOTAL WATER NOT SOLD 13 Utility and/or Water Treatment Plant 15 System Flushing 16 Fire Department 17 Other (explain)  TOTAL UNSOLD WATER USED  18 Tank Overflows 19 Line Breaks 20 Other Loss 19 Cother Loss 19 Cother Loss 10 TOTAL WATER LOST 10 TOTAL WATER LOST 11 TOTAL WATER LOST 12 "Other Loss" FLOW RATE CALCULATION: 21 "Other Loss" 62% 22 "Other Loss" Per Day (1,000's gallons per Day) 25 DOOD 26 TOTAL WATER LOST 27 "Other Loss" 12 Sales 1 Sales 2 Sa	8	Bulk Load	ding Stations	-				1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00
TOTAL WATER SOLD	9	Wholesal	е					0.000	00
TOTAL WATER NOT SOLD   47.813	10	Other Sa	les (explain)	Honey Bra	inch			1.302	90
TOTAL WATER NOT SOLD   47.813									
BREAKDOWN OF UNSOLD WATER USED									249
13	12				TOTAL	WATER	NOT SOLD	47.813	769
13	٨	DDEAVE	OWN OF III	NEOLD WA	TED HEEF				
14   Wastewater Plant   0.000     15   System Flushing   Estimated   1.700     16   Fire Department   Estimated   0.350     17   Other (explain)	13					<b>,</b>		0.456	19
15   System Flushing   Estimated   1.700     16   Fire Department   Estimated   0.350     17   Other (explain)				Calmentri	ant				00
TOTAL UNSOLD WATER USED   2.506						Fetimated			30
TOTAL UNSOLD WATER USED   2.506									19
TOTAL UNSOLD WATER USED   2.506						Louridica		0.000	00
BREAKDOWN OF WATER LOST	- ''	Other (Ox	(Pidiri)		5/ W "				
Tank Overflows					TOTAL UN	SOLD WA	TER USED	2.506	40
Tank Overflows				Lune, to					
19				VATER LOS	ST				
TOTAL WATER LOST   45.307						St. Commission of the Commissi			00
### TOTAL WATER LOST   45.307				V		Estimated			109
"OTHER LOSS" FLOW RATE CALCULATION:  21	20	Other Los	SS					38.807	629
"OTHER LOSS" FLOW RATE CALCULATION:  21					T	TAI WA	TERLOST	45 307	729
"Other Loss"   38.807						JIAL WA	TER EGGT	40.001	12
"Other Loss"   38.807				- 1 - 1					
22     % "Other Loss"     62%       23     Number of Days in Period     31       24     "Other Loss" per Day (1,000's gallons per Day)     1.252	^	"OTHER	LOSS" FLO	W RATE C	ALCULAT	ON:			
Number of Days in Period 31  "Other Loss" per Day (1,000's gallons per Day) 1.252									
24 "Other Loss" per Day (1,000's gallons per Day) 1.252									
25 "Other Loss" per Minute (GPM) 0.869			"0	ther Loss"					
	25				"Other Lo	ss" per Mir	nute (GPM)	0.869	
Kentucky Cunbridge Spirit			Ken	tucki					

			Monthly Water	Use Re	port			
Nater Uti	lity	Martin County Wat	tor District					
valer Oli	iity.	wartin County wa	ter District					
or the M	lonth of:	February				Year:	2017	
						Tour.	2017	
							GALLONS	
INE#	ITEM						(Omit 000's)	%
1		PRODUCED or PURCHA	SED					
2	Water Pr						54.436	100%
3	Water Pu	urchased					0.000	0%
4			IOIAL	PRODUCE	D AND PU	RCHASED	54.436	
	WATER	SOLD						
5	Resident							0%
6	Commer						15.076	96%
7	Industria						15.076	0%
8		ding Stations						0%
9	Wholesa							0%
10		ales (explain)	Honey Bra	anch			0.637	4%
	Outlot Go	iloo (oxpidiri)	Tioney Bit	ariori	7.		0.007	470
11				1	OTAL WA	TER SOLD	15.713	29%
12					L WATER N		38.723	71%
	BREAKI	DOWN OF UNSOLD WAT	ER USED					
13		d/or Water Treatment Plan					0.398	1%
14		ater Plant					0.060	0%
15	System I	Flushing					1.750	3%
16	Fire Dep	artment					0.350	1%
17	Other (ex	xplain)						0%
				TOTAL UN	SOLD WA	TER USED	2.558	5%
		DOWN OF WATER LOST						201
18	Tank Ov						0.000	0%
19	Line Bre						4.500	8%
20	Other Lo	oss					31.665	58%
	-			T	OTAL WA	TEDIOST	36.165	66%
				<u> </u>	OTAL WA	ILK LOST	30.103	0070
	"OTHER	LOSS" FLOW RATE CA	LCULATION:					
21						Other Loss"	31.665	5
22						Other Loss"	58%	
23								
24		"Other Loss" per Day (1,000's gallons per Day "Other Loss" per Minute (GPN)						
25				"Other Lo	oss" per Mir	ute (GPM)	0.785	
				_		MIH OF HA		
		Kent	UCKY SPIRIT					
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			V
	1	This form a	pproved by: EPPC/D	EP/DOW, I	KY PSC, KR	WA		

			Monthly Wat	er Use	Report			
Water Uti	lity:	Martin County	Water District	•				
valer of	inty.	wartin County	Water District					
or the M	lonth of	March				Year:	2017	
Of the iv	ionar or.	IVIAICII				Teal.	2017	
							GALLONS	
INE#	ITEM		X <sub>32</sub>				(Omit 000's)	%
1		RODUCED or PUI	RCHASED				(	70
2	Water Pro		KONAOLD				60.093	100%
3	Water Pur	The state of the s					0.000	0%
4	vator i ai	ondoca	TOTAL P	RODUCE	D AND PU	RCHASED	60.093	07
			TOTALT	KODOCL	D AND I O	KONAGED	00.033	
	WATER S	OLD						_
5	Residentia						14 100	010/
5							14.108	81%
6	Commerci	aı					-	0%
7	Industrial	in a Otatia -						0%
8		ing Stations						0%
9	Wholesale			-1-				0%
10	Other Sale	es (explain)	Honey Bran	ich			3.263	19%
11					OTAL WAT			29%
12				TOTAI	WATER N	OT SOLD	42.722	71%
	BREAKD	OWN OF UNSOLD	WATER USED					
13	Utility and	or Water Treatmer	nt Plant				0.426	2%
14	Wastewate	er Plant					0.049	0%
15	System FI	ushing			Estimated		1.400	8%
16	Fire Depa				Estimated		0.250	1%
17	Other (exp							0%
	, ,							
			T	OTAL UN	SOLD WAT	TER USED	2.125	4%
	The same							
	BREAKD	OWN OF WATER	LOST					
18	Tank Ove						0.000	0%
19	Line Break	AND COMPANY OF THE PARK OF THE			Estimated		6.500	37%
20	Other Los				Louinated		34.097	57%
20	Other Los						04.037	31 /
				т	OTAL WA	TERLOST	40.597	68%
				1	CIAL WA	LIX LOST	40.097	0070
	"OTHER	LOSS" FLOW RAT	E CALCULATION	:	11.		0.1.00=	
21						Other Loss"	34.097	
22						Other Loss"	57%	
23			110:11		nber of Day			
24			"Other Loss" p					
25				"Other Lo	ss" per Mir	rute (GPM)	0.764	
		Kent	UCKY ED SPIRIT	<u> </u>				
		This fam.	approved by: EPP0		M KY DO	C KDWW		

		<u>N</u>	Ionthly Water	Use Report			1
Water Uti	ility:	Martin County Wa	ater District				
	Ī	•					
or the M	onth of:	April			Year:	2017	
INE#	ITEM					GALLONS (Omit 000's)	%
1	WATER	PRODUCED or PURCH	ASED				
2	Water Pr	oduced				57.113	100%
3	Water Pu	urchased				0.000	0%
4			TOTAL P	RODUCED AND PU	RCHASED	57.113	
	WATER	SOL D					
E	Resident					10 450	700
5 6	Commer					13.452	79%
7						0.000	0%
	Industria						0%
8		ding Stations					0%
9	Wholesa			- h-		2 222	0%
10	Other Sa	ales (explain)	Honey Bran	cn		3.623	21%
11				TOTAL WA	TER SOLD	17.075	30%
12				TOTAL WATER		40.038	70%
	BREAK	DOWN OF UNSOLD WA	TER USED				1
13	Utility an	d/or Water Treatment Pla	int			0.465	1%
14		ater Plant				0.065	0%
15	System I	Flushing		Estimated		5.500	10%
16	Fire Dep			Estimated		0.450	1%
17	Other (ex						0%
	·						
			T	OTAL UNSOLD WA	TER USED	6.480	11%
	BREAK	DOWN OF WATER LOS	т				
18	Tank Ov					0.000	0%
19	Line Bre			Estimated		6.500	11%
20	Other Lo					27.058	47%
		1	3 3	TOTAL WA	TER LOST	33.558	59%
	"OTHER	LOSS" FLOW RATE C	ALCULATION:				
21					Other Loss"	27.058	3
22					Other Loss"		
23				Number of Day			
24			"Other Loss" pe	er Day (1,000's gallo			
25				"Other Loss" per Mir	nute (GPM)	0.626	. 10
		Kentle	UCKY SPIRITY	5			
		This form a	oproved by: EPPC/DE	EP/DOW, KY PSC, R	(RWA		

		<u></u>	Trace	r Use Report			
Nater Uti	lity:	<b>Martin County Water</b>	District				
or the M	lonth of:	May			Year:	2017	
	-					GALLONS	
INE#	ITEM					(Omit 000's)	%
1		PRODUCED or PURCHASE	D			(011111 000 0)	70
2	Water Pr					59.310	100%
3	Water Pu					0.000	0%
4			TOTA	L PRODUCED AND PU	RCHASED	59.310	- 0,
						00.010	
	WATER	SOLD					
5	Resident	tial				14.987	100%
6	Commer					0.000	09
7	Industria					5.230	09
8	Bulk Loa	ding Stations					0%
9	Wholesa						0%
10	Other Sa	iles (explain)		Honey Branch		3.258	229
11				TOTAL WA	TER SOLD	14.987	25%
12				TOTAL WATER	NOT SOLD	44.323	75%
	BREAK	DOWN OF UNSOLD WATER	USED				
13		d/or Water Treatment Plant				0.436	19
14	Wastewa	ater Plant				0.050	0%
15	System F			Estimated		3.500	6%
16	Fire Dep			Estimated		0.465	19
17	Other (ex	xplain)					0%
				TOTAL UNSOLD WA	TER USED	4.451	8%
	BREAK	DOWN OF WATER LOST					
18	Tank Ov			Estimated		0.000	0%
19	Line Brea			Estimated		8.500	14%
20	Other Lo	SS				31.372	53%
		18		TOTAL WA	TER LOST	39.872	67%
						li di	
	"OTHER	LOSS" FLOW RATE CALC	ULATION:				
21					Other Loss"	31.372	
22					Other Loss"	53%	
23				Number of Day		31	
24			"Other Loss	" per Day (1,000's gallor			
25	-			"Other Loss" per Mir	nute (GPM)	0.703	
		Kentu	cky				
		- SNANDLED	734	<u> </u>			
		TL:- f		DEP/DOW, KY PSC, KI	21444		

		Monthly Wat	er Use Repo	<u>ort</u>			
Nater Uti	ility:	Martin County Water District					
		The state of the s					
or the M	onth of:	June	1		Year:	2017	
						A.I.I. A.I.A	
INE#	ITEM	A				GALLONS	.,
		PRODUCED as PURCHAGER				(Omit 000's)	%
1		PRODUCED or PURCHASED				<b>57.007</b>	4000
2	Water Pr Water Pr					57.027	100%
4	vvaler Pl		TAL DRODUCED	AND DU	CUACED	57.007	09
4		101	TAL PRODUCED	AND PUR	KCHASED	57.027	
	WATER	SOLD					
5	Resident					14.987	86%
6	Commer					0.000	09
7	Industria					0.000	09
8	CA CONTROL OF THE PROPERTY.	ding Stations					09
9	Wholesa						0%
10	The state of the s	ales (explain)	Honey Branc	h		2.452	14%
10	Other oc	(explain)	riolicy Braile			2.402	147
11			TOT	TAL WAT	ER SOLD	17.439	31%
12					OT SOLD	39.588	69%
	BREAK	DOWN OF UNSOLD WATER USED					
13		d/or Water Treatment Plant				0.590	1%
14		ater Plant	Es	stimated		0.050	0%
15	System I	Flushing	Es	stimated		5.500	10%
16	Fire Dep					0.450	1%
17	Other (ex						0%
			TOTAL UNSO	LD WAT	ER USED	6.590	12%
						6	
	BREAK	DOWN OF WATER LOST		19	VII		15-110-
18	Tank Ov	erflows	Es	stimated		0.000	0%
19	Line Brea		Es	stimated		9.500	17%
20	Other Lo	SS				23.498	41%
						1	
		B. 2 <sup>2</sup>	ТОТ	AL WAT	ER LOST	32.998	58%
						2.7	
~4	OTHER	LOSS" FLOW RATE CALCULATION:					
21					ther Loss"	23.498	
22					ther Loss"	41%	
23		llout I -			s in Period	30	
24 25		"Otner Lo	oss" per Day (1,000 "Other Loss			0.783 0.544	
25			Other Loss	per wiiri	ute (GPM)	0.544	
		Kentucky					
		This form approved by: EPP0	C/DEP/DOW, KY	PSC, KR	WA		

			Monthly Water Use	Report		
Water Uti	lity:	Martin County W	ater District			
vvater ou	iity.	martin odding w	ator District			
For the M	lonth of:	July		Year:	2017	
					GALLONS	
LINE#	ITEM				(Omit 000's)	%
1		PRODUCED or PURCH	IASED			
2	Water Pr			-	58.697	100%
3	Water Pi	urchased			0	0%
4			TOTAL PRODU	JCED AND PURCHASED	58.697	
	WATER					
5	Resident				16.011	88%
6	Commer				0.000	0%
7	Industria	7			0.000	0%
8		ding Stations			0.000	0%
9	Wholesa				0.000	0%
10	Other Sa	ales (explain)	Honey Branch		2.158	12%
		· ·				
11				TOTAL WATER SOLD	18.169	31%
12			10	TAL WATER NOT SOLD	40.528	69%
		DOWN OF UNSOLD WA	and the second s			
13		d/or Water Treatment Pl	ant		1.865	3%
14		ater Plant			0.050	0%
15	System			Estimate	1.600	3%
16	Fire Dep			Estimate	0.350	1%
17	Other (e	xplain)				0%
						70/
			TOTAL	UNSOLD WATER USED	3.865	7%
	DDEAK	DOWN OF WATER I O	A-F		d	
40		DOWN OF WATER LO	51	Fatinanta	0.000	00/
18	Tank Ov			Estimate	0.000	
19	Line Bre			Estimate	2.600	
20	Other Lo	OSS			34.063	58%
				TOTAL WATER LOST	36.663	62%
				TOTAL WATER LOST	30.003	02 /0
	"OTHER	R LOSS" FLOW RATE O	CALCULATION:			
21	1			"Other Loss"	34.063	
22	-			% "Other Loss"	58%	
23				Number of Days in Period	31	
24				(1,000's gallons per Day)	1.099	
25				er Loss" per Minute (GPM)	0.763	
		Kent	UCKU			
		This form	approved by: EPPC/DEP/DO	W, KY PSC, KRWA		3

Water Utili	lity:						
	ity.	Martin County W	ater District				*
For the Mo	T.	maran county w	ator Biotirot				
	onth of:	August			Year:	2017	
						GALLONS	
LINE#	ITEM					(Omit 000's)	%
1		PRODUCED or PURCH	IASED				
2	Water Pr					59.881	0%
3	Water Pu	urchased				0	0%
4			TOTAL	PRODUCED A	ND PURCHASED	59.881	
	WATER	COLD		1			
5	Resident					14.553	050/
6	Commer					0.000	95% 0%
7	Industria					0.000	0%
8		ding Stations					0%
9	Wholesa						0%
10	A	ales (explain)	Honey Br	anch		0.696	5%
10	Outlot Oc	ales (explain)	Tioney Bi	arion		0.030	370
11				TOTA	L WATER SOLD	15.249	25%
12					ATER NOT SOLD	44.632	75%
	BREAK	DOWN OF UNSOLD WA	TER USED				
13		d/or Water Treatment Pl			V	1.950	3%
14		ater Plant			Estimated	0.050	
15	System I	Flushing			Estimated	2.500	4%
16	Fire Dep				Estimated	0.400	1%
17	Other (ex	xplain)					0%
					Angel Control		
				TOTAL UNSOL	D WATER USED	4.900	8%
40		DOWN OF WATER LOS	ST		F .: .	0.000	00/
18	Tank Ov				Estimate	0.000	
19 20	Line Bre				Estimate	2.400	
20	Other Lo	055				37.332	62%
	<del> </del>			TOTA	L WATER LOST	39.732	66%
						00.702	007
			90 1 <sup>2</sup> 3				
	"OTHER	LOSS" FLOW RATE C	ALCULATION:				
21					"Other Loss"	37.332	
22					% "Other Loss"	62%	
23					of Days in Period	31	1
24	1		"Other Loss"		s gallons per Day)	1.204	
25	-			"Other Loss"	per Minute (GPM)	1.440	
					STATTH OF		
		Kent	ucku				
		UNBRIDL	ED SPIRIT				
					1		

\A/=+==    +	11:4	Martin County Water	r Dietriet					
Water Ut	ility:	Martin County Wate	District					
For the N	onth of:	September				Year:	2017	
		- Сористи				, 50		
							0.11.0110	
LINE#	ITEM						GALLONS (Omit 000's)	%
1		PRODUCED or PURCHAS	ED				(011111 000 3)	70
2	Water Pr		ED				59.170	100%
3	Water Pu						0.000	0%
4	vvator i c	nonasca	TOTAL	PRODUC	ED AND PU	RCHASED		070
							00.110	
	WATER	SOLD						
5	Resident	ial					15.640	91%
6	Commer						0.000	0%
7	Industria						0.000	0%
8		ding Stations					0.000	0%
9	Wholesa						0.000	0%
10	Other Sa	les (explain)	Honey Bra	nch			1.553	9%
11					TOTAL WAT		17.193	29%
12		<del></del>		TOTA	L WATER N	OT SOLD	41.977	71%
	DDEAKE	NOWN OF LINEOUD WATE	DUCED					
13		OOWN OF UNSOLD WATE	K USED				1.854	3%
14	Wastewa	d/or Water Treatment Plant				Estimated	0.060	0%
15	System F	SPACE CONTRACTOR OF THE PROPERTY OF THE PROPER				Estimated	3.500	6%
16	Fire Dep					Estimated	0.350	1%
17	Other (ex					Louinated	0.550	0%
- ''	Other (c)	(plain)			+			070
				TOTAL UI	NSOLD WAT	TER USED	5.764	10%
	BREAK	DOWN OF WATER LOST						
18	Tank Ove	erflows				Estimated	0.000	0%
19	Line Brea	aks				Estimated	2.500	4%
20	Other Lo	SS					33.713	57%
					TOTAL WA	TER LOST	36.213	61%
					-			
21	TOTHER	LOSS" FLOW RATE CAL	CULATION:	-	"0	thor Loss"	33.713	
22						other Loss" Other Loss"	57%	
		- 4		Ni			30	
23 24	Number of Days in Period "Other Loss" per Day (1,000's gallons per Day							
25	1		Other Loss		oss" per Mir			
		Kente	ACKY SPIRIT		POT MIN		0.100	

			<b>Monthly Water</b>	Use Report			
Nater Uti	lity:	Martin County W	later District				
valer Oli	ility.	Martin County V	ater District				
or the M	lonth of:	October			Year:	2017	
						GALLONS	
INE#	ITEM		27			(Omit 000's)	%
1	WATER	PRODUCED or PURCI	HASED				
2	Water Pr	roduced				58.684	98%
3	Water Pu	urchased				1.298	2%
4			TOTAL	PRODUCED AND PU	RCHASED	59.982	INVIEW I
		لتفريح والمستوارات					
	WATER						
5	Resident					15.396	81%
6	Commer	PARTIE STATE OF THE STATE OF TH					0%
7	Industria	6/14/1					0%
8		ding Stations					0%
9	Wholesa						0%
10	Other Sa	ales (explain)	Honey Bra	nch Industrial Park		3.678	19%
				TOTAL MA	FED 001 D	40.074	000/
11 12				TOTAL WATER		19.074	
12				TOTAL WATER	NOT SOLD	40.908	68%
	DDEAK	DOWN OF LINCOLD W	ATED HOED				
40		DOWN OF UNSOLD W				0.000	40/
13		d/or Water Treatment P	iant	4		0.892	
14		ater Plant		F-threated		0.550	
15	System			Estimated		4.550	
16	Fire Dep			Estimated		0.350	
17	Other (e	xpiain)				0	0%
				TOTAL UNSOLD WA	TER USED	6.342	11%
		The second second					
		DOWN OF WATER LO	ST				
18	Tank Ov	20/00/01/20/00/00/00				0.250	
19	Line Bre					7.250	
20	Other Lo	OSS				27.066	45%
					:	0.1.500	500/
				TOTAL WA	TER LOST	34.566	58%
	"OT!	L OCCUPI ON DATE	CALCULATION:				
21	OTHER	R LOSS" FLOW RATE	CALCULATION:	11/2	Other Loss"	27.066	
22	1				Other Loss Other Loss"		
23				Number of Day		31	
24			"Other Lead"	per Day (1,000's gallor			
	-		Other Loss				
25		Kent	UCKY SPIRIT	"Other Loss" per Mir	nute (GPM)	0.606	
		This form	approved by: EPPC/DI	EP/DOW, KY PSC, K	RWA		

			<b>Monthly Water</b>	Use Repor			
Nater Uti	ility:	Martin County Wa	ater District				
vater of	iiity.	martin county w	ator Biotriot				
or the M	onth of:	November			Year:	2017	
		174.121111111					
						GALLONS	
INE#	ITEM		And the second			(Omit 000's)	%
1	WATER	PRODUCED or PURCH	ASED				
2	Water P	roduced				52.618	100%
3	Water P	urchased				0.000	0%
4			TOTAL	PRODUCED A	ND PURCHASED	52.618	
	WATER	SOLD					
5	Residen	tial				13.468	95%
6	Commer	cial					0%
7	Industria	1					0%
8	Bulk Loa	iding Stations					0%
9	Wholesa	ile					0%
10	Other Sa	ales (explain)	Honey Bra	anch Industrial T	ank	0.751	5%
11					L WATER SOLD	14.219	27%
12				TOTAL WA	TER NOT SOLD	38.399	73%
		DOWN OF UNSOLD WA					
13		d/or Water Treatment Pla	ant			0.803	2%
14	Wastewa	ater Plant				0.050	0%
15	System	Flushing			Estimated	2.500	5%
16	Fire Dep	partment			Estimated	0.400	1%
17	Other (e	xplain)					0%
				TOTAL UNSOL	D WATER USED	3.753	7%
		DOWN OF WATER LOS	ST		I=		
18	Tank Ov				Estimated	0.175	0%
19	Line Bre				Estimated	8.500	16%
20	Other Lo	OSS	, , , , , , , , , , , , , , , , , , , ,			25.971	49%
						04.040	000/
				IOIA	L WATER LOST	34.646	66%
	"OTHER	R LOSS" FLOW RATE C	ALCUI ATION:				
21	TOTTLE	LOGO I LOW INAIL O	ALGULATION.		"Other Loss"	25.971	
22					% "Other Loss"	49%	
23				Number	of Days in Period	30	
24			"Other Loss"		gallons per Day)	0.866	
25			Other Edda		per Minute (GPM)	0.601	
		Kent	UCKY SPIRIT	\$			
		This form	approved by: EPPC/D	EP/DOW, KY P	SC, KRWA		

Water Ut	ility:	Martin Cour	ty Water Distri	ct		
For the N	Nonth of:	December		Year:	2017	
					GALLONS	
INE#	ITEM				(Omit 000's)	%
1		PRODUCED or P	URCHASED			
2	Water Pr				55.918	0%
3	Water Pu				546280	100%
4		TO	OTAL PRODUCED	AND PURCHASED	546335.918	
	WATER	SOLD				
5	Resident				14.775	100%
6	Commerc				0.036	0%
7	Industrial				0.000	0%
8		ding Stations				0%
9	Wholesa					0%
10		les (explain)				0%
		` ' '				
11				TAL WATER SOLD		0%
12			TOTAL	WATER NOT SOLD	546321.107	100%
	BREAKE	OOWN OF LINSOL	LD WATER USED			
13		d/or Water Treatm			0.809	0%
14		ater Plant	ioner lane		0.075	0%
15	System F			Estimate	1.500	0%
16	Fire Depa			Estimate	0.450	0%
17	Other (ex			LStillate	0.430	0%
			TOTAL UNS	OLD WATER USED	2.834	0%
	BREAK	DOWN OF WATE	RLOST			
18	Tank Ove				0.000	0%
19	Line Brea			Estimate	10.500	0%
20	Other Lo			Louriate	546307.773	100%
			ТО	TAL WATER LOST	546318.273	100%
	liozues.	LOOGILET ON E	ATE OALOU ATE	V.		
21	OTHER	LUSS" FLOW R	ATE CALCULATIO	ON: "Other Loss"	546307.773	
22				% "Other Loss"	100%	
23			Numh	per of Days in Period	31	
24		"Other		00's gallons per Day)		7
25		Strict		s" per Minute (GPM)		
		Kentuk	CKY.			

Water Ut	ility:	Martin C	ounty W	ater Dist	rict				
Year:	2017	2017							
rour.	2011	2011							
							CALLONO		
LINE#	ITEM						GALLONS (Omit 000's)	%	
1		RODUCED	or DUDCL	IASED			(Offile 000 3)	70	
2	Water Prod		OI FUNCI	IASED			695.581	09	
3	Water Pure						546281.298	1009	
4	vvator r un	oridoca	TOTAL	PRODUCE	D AND PURCH	ASED		100	
							- 100.0.0.0		
	WATER S	OLD					-		
5	Residentia	ıl					160.896	819	
6	Commerci	al					15.112	89	
7	Industrial						0.000	09	
8		ng Stations					0.000	09	
9	Wholesale						0.000	09	
10	Other Sale	es (explain)	Honey Bra	anch			23.371	129	
					OTAL WATER	001.0	400.070	00	
11					OTAL WATER			1000	
12				IOTAL	WATER NOT	SOLD	546777.500	1009	
	BBEAKDO	OWN OF III	NSOLD W	ATER LISE					
13	BREAKDOWN OF UNSOLD WATER USED Utility and/or Water Treatment Plant 10.944								
14	Wastewate		Catillone		Estimated		1.109	00	
15	System Fl				Estimated		35.500	00	
16	Fire Depar				Estimated		4.615	00	
17	Other (exp						0.000	00	
	TOTAL UNSOLD WATER USED 52.168								
	BREAKDOWN OF WATER LOST								
40			VATER LO	ST	F		0.405	0/	
18	Tank Over				Estimated		0.425	00	
19 20	Line Break Other Loss				Estimated		75.750 546652.415	1009	
20	Other Loss	5					546652.415	100	
				TOTAL UN	SOLD WATER	LOST	546728.590	100	
	"OTHER I	OSS" FLO	W RATE C	CALCULAT	ION:				
21			1000		"Other	Loss"	546652.415		
22					% "Other				
23				Nur	mber of Days in	Period			
24		"C	ther Loss"		000's gallons pe				
25	"Other Loss" per Minute (GPM) 1040.054								
		Ken	tucki			TO THE			
		UNBR	IDLED SPIRIT	-	E I				

			rict	ater Dist	County M	Martin C	lity	Mater I It			
			rict	ater Dist	Journey W	Martin	lity:	Nater Uti			
3	2018	Year:				January	lonth of:	For the M			
	CALLONS										
%	GALLONS (Omit 000's)						ITEM	LINE#			
70	(011111 000 3)			JASED	or DUDCI	PRODUCED		line #			
) (	58.950			IASED	O PURCI		Water Pr	2			
	1680	P-BURG	N	MOUNTAI	KERMIT		Water Pu	3			
		PURCHASED				archasca	VVatorio	4			
1	33333			1102002	101712						
			aluiz.	<del></del>		SOLD	WATER				
79	16729					tial	Resident	5			
13	2750					cial	Commerc	6			
C						I	Industrial	7			
C					3	ding Stations		8			
C							Wholesa	9			
) 8	1750		rial Park	anch Indust	Honey Bra	ales (explain)	Other Sa	10			
		VATER SOLD						11			
65	39401.000	R NOT SOLD	LWATER	TOTA				12			
			_	ATED HEE	NCOLD W	DOWN OF U	DDEAKE				
3 0	0.553		U					13			
	0.050			Idiil	realment P	d/or Water T ater Plant		14			
	4.500	Estimated					System F	15			
	0.350	Estimated					Fire Depa	16			
	0.000	Estimated					Other (ex	17			
,	0.000	Louridica				Apiairi)	Other (C)	- 17			
3 (	5.453	VATER USED	SOLD WA	TOTAL UN							
			1	ST	NATER LO	DOWN OF V					
	0.000						Tank Ove	18			
7.1	7692						Line Brea	19			
65	39685					SS	Other Lo	20			
70	47077 000	VATED LOCT	OTAL W				-				
78	47377.000	VATER LOST	OTAL W								
			ION:	CALCUI AT	OW RATE (	R LOSS" FLO	"OTHER				
	39685.000	"Other Loss"					1	21			
		"Other Loss"						22			
		Days in Period	17.8	Nur				23			
1		llons per Day)			Other Loss"	"(		24			
1		Minute (GPM)						25			
					TUCKI RIDLED SPIRIT	Ken		(1) - (2) -			

1 \ \ 2 \ \ \ 3 \ \ 4		Martin County Water	District	2				
INE # I		•	Diotilot					
1 NE# 1 2 N 3 4	nth of:	Echruan/						
1 \ \ 2 \ \ \ 3 \ \ 4		February				Year:	2018	8 =
1 \ \ 2 \ \ \ 3 \ \ 4								
2 3 4	ITEM						GALLONS (Omit 000's)	%
3 1	WATER	PRODUCED or PURCHASE	D					
4	Water Pro	oduced					54.086	0%
	Water Pu	ırchased	KW	MW	P-burg		4219500	79
			TOTAL	PRODUC	ED AND PU	RCHASED	58305500	
	WATER	SOLD						
5 1	Residenti	ial					10909.000	82%
	Commerc	cial					2392000	17984%
7 1	Industrial							0%
8 1	Bulk Load	ding Stations						0%
	Wholesal							0%
10	Other Sa	les (explain)	Honey Bra	nch			3.150	0%
11					TOTAL WA	TER SOLD	13301	0%
12		45004500	77%					
	BREAKE	OWN OF UNSOLD WATER	USED					
		d/or Water Treatment Plant					500000	19
	Wastewa						0.055	0%
	System F					Estimated	213863	0%
	Fire Depa					Estimated	39903	0%
	Other (ex					Estimated	33303	0%
				TOTAL 111	NSOLD WA	TED HOED	750700 055	40
		753766.055	1%					
		DOWN OF WATER LOST						
	Tank Ove						0.000	0%
	Line Brea	Cast Control Control				Estimated	5732124	10%
20	Other Los	SS	1			Estimated	38518610	66%
					TOTAL WA	TER LOST	44250733.945	76%
21	"OTHER	LOSS" FLOW RATE CALC	ULATION:		11/2	Othor Loss"	38518609.945	
22						Other Loss" Other Loss"	38518609.945	
23				NI.		and the second s		
24		"6	thor Loca"		mber of Day ,000's gallor		29 1328227.929	
25			lilei Loss		oss" per Mir		922380.506	
25				Other	.oss per ivili	lute (GPIVI)	922380.300	
		Kentuc UNBRIDLED SP	ky RIT U					
		This form approve	d by: EDD	NDED/DO	W KY BSC	KDWA		

			Monthly W	ater Use	Report			
Water Uti	lity:	Martin Cou	nty Water D	istrict				
For the M	Month of: March Year: 2018							
						GALLONS		
LINE#	ITEM					(Omit 000's)	%	
1		RODUCED or	PURCHASED					
2	Water Pro					57,913,000	98%	
3	Water Pur	chased				1,152,000	2%	
4			TOTAL	PRODUCED	AND PURCHASED	59,065,000		
	WATER S							
5	Residentia					9,874,000	71%	
6	Commerc	ial				2,373,000	17%	
7	Industrial						0%	
8		ing Stations					0%	
9	Wholesale						0%	
10	Other Sale	es (explain)	Honey Bra	nch Industrial	Park	1,622,100	12%	
11				TO	TAL WATER SOLD	13,869,100	23.5%	
12				TOTAL V	VATER NOT SOLD	45,195,900	76.5%	
	BREAKD	OWN OF UNSO	LD WATER U	SED				
13		or Water Treatr				500,000	0.85%	
14	Wastewat					0	0%	
15	System FI				Estimated	261,388	0%	
16	Fire Depa				Estimated	36,741	0%	
17	Other (ex				Estimated	0	0%	
				TOTAL LINE	OLD WATER USED	798,129	1.4%	
				IOTAL UNSC	DED WATER USED	790,129	1.470	
		OWN OF WAT	ER LOST					
18	Tank Ove	COLUMN AND A COLUMN ACCOUNT.				0		
19	Line Brea				Estimated	4,021,856	7%	
20	Other Los	S	line leaks		Estimated	40,375,915	68%	
				TOT	AL WATER LOST	44,397,771	75.2%	
	"OTUED	LOSS" FLOW F	PATE CALCUI	ATION				
21	JULK	LOGO I LOW I	ALL GALGOL	ATION.	"Other Loss"	40375915		
22					% "Other Loss"			
23				Numb	er of Days in Period			
24			"Other Lose"		0's gallons per Day)			
25			Other Loss		s" per Minute (GPM)			
		Kent	tucku					
		UNBRID	LED SPIRIT					

		<u>IVic</u>	ithly W	ater US	se Kepo	rt		
Vater Uti	lity:	Martin County	/ Water D	istrict				
	ĺ							
or the M	onth of:	April				Year:	2018	
INE#	ITEM						GALLONS	%
1		PRODUCED or PU	RCHASED				CALLEGIA	70
2	Water Pro		KONAGED				52,875,000	100%
3	Water Pu						02,070,000	0%
4	vvator r u	TOTIGOOG	TOTAL	PRODUCE	D AND PU	RCHASED	52,875,000	0,1
	WATER S	SOLD						
5	Residenti	al					9,777,000	68%
6	Commerc	cial					2,470,000	17%
7	Industrial							0%
8		ding Stations						0%
9	Wholesal							0%
10	Other Sal	les (explain)	Honey Bra	nch Indust	rial Park		2,117,000	15%
11				1	OTAL WAT	TER SOLD	14,364,000	27.2%
40				TOTA	MATERA	IOT COLD	20 544 000	70.00
12	_			IOIA	L WATER N	OT SOLD	38,511,000	72.8%
	DDEAKD	OWN OF UNSOLE	WATER	een				
13		d/or Water Treatmen		SED			1,024,000	1.94%
14	Wastewa	tor Plant	II FIAIIL				29000	0%
15	System F					Estimated	29000	0%
16	Fire Depa					Estimated	0	0%
17	Other (ex					Estimated	0	0%
- ''	Other (CX	plairiy				Lotimated		0 /
				TOTAL UN	SOLD WAT	TER USED	1,053,000	2.0%
							.,,	
	BREAK	DOWN OF WATER	LOST					
18	Tank Ove	erflows					0	0%
19	Line Brea	iks				Estimated	1,075,000	2%
20	Other Los	SS	line leaks			Estimated	37,436,000	71%
				Т	OTAL WA	TER LOST	38,511,000	72.8%
0.1	"OTHER	LOSS" FLOW RA	TE CALCUL	ATION:	p		07.100055	
21						Other Loss"		
22 23				NI		Other Loss"		
23		110	Other Less!		mber of Day			
25		-	Other Loss" p		oss" per Mir			
20				Other L	oss per ivili	idle (GFW)	030020.072	
		Kentu	ICKY SPIRIT					
		This form app	proved by: E		DOM KA	DSC KDIM	Δ	

# EXHIBIT #2

# MARTIN COUNTY UTILITY BOARD

387 East Main Street Suite 140 INEZ, KY 41224

606-298-3885 OFFICE

606-298-4913 Fax

May 14, 2018

Turner Campbell
Superintendent/CEO
Prestonsburg City's Utilities Commission
2560 South Lake Drive
Prestonsburg, KY 41653

Re: Martin County Water District/Prestonsburg Joint Operation Agreement Termination of Emergency Water Supply

Dear Mr. Campbell:

Thank you for your letter dated April, 24, 2018. We appreciate the emergency water service provided to the District during our time of emergency from December 2017 to March 2018. Without this supply, our water outages would have been more extensive than actually experienced during this winter emergency.

We regret that appreciation was not expressed to your satisfaction. We do acknowledge the District owes Prestonsburg for the water supplied during the emergency period and it is our intention to pay you as soon as possible. As you are aware, the District is making every effort to pay its creditors and at present, we are attempting to obtain a loan, funded by the recently approved surcharge by the Kentucky PSC, to pay our creditors.

The District has reviewed the proposed Honey Branch Tank Lease provided with your letter of Match 6, 2018. The proposed Lease contains a provision that was not negotiated at the meeting held February 28, 2018 at the office of the Kentucky PSC in Frankfort. The Lease includes a provision in Section 14 that terminates the Joint Operating Agreement and the Amendment to the Joint Operating Agreement. This provision will eliminate the ability of the District to receive any future revenue from Prestonsburg for water sold to the Prison. There was no discussion of termination of the Joint Operation Agreement at the February 28, 2018 meeting in Frankfort, and the District understood a short term, three year lease was agreeable, allowing the District to stabilize its operations and begin supplying 50 percent of the water to the Prison and sharing in the Prison water revenue. With the Prison using a monthly average of 8,500 gallons a month, the District's share of the revenue would be approximately \$34,000 at \$7.95 per 1,000 gallons. It would not be fiscally responsible for the District to forgo the much needed revenue and walk away from the Joint Operating Agreement.

After many months of frustration and multiple efforts at negotiating a fair lease agreement, we can only conclude that Prestonsburg has no intention of assisting the District on a short term basis with a lease agreement that retains the original sharing of the benefits of the Federal Prison located Martin County. It is unfortunate that the two parties are not able to reach an agreement and that you will be terminating emergency water service to the District on May 30, 2018.

As an alternative to the lease, the District has reconsidered your request to purchase the Honey Branch Tank. We have evaluated the operations of the Honey Branch pressure zone, from the District's Devella Pump Station to the Airport Industrial Park. This pressure zone is on the fringe of our system, and selling only the tank will continue to compromise operations between the District and Prestonsburg. After careful evaluation, it appears a sale of the Honey Branch Tank, the water mains and the customers (current and future) in this pressure zone is more practical and will end the long standing dispute between the District and Prestonsburg. To this end, the District has evaluated the value of the revenue stream of the customers served by the Honey Branch pressure zone (including the Prison), the value of the assets and the remaining loan balance. The District's Board has agreed to sell these assets and customers to Prestonsburg for \$5,000,000. If you agree, we can proceed with drafting a purchase agreement.

In closing, we regret a lease agreement was not reached for the benefit of our respective customers. In light of your termination notice, we feel a sale of the Honey Branch system assets are the next best alternative to maintaining a reliable supply to the Prison and providing service to Martin County Water District customers. We look forward to your response to our offer to sell these assets and customers.

Sincerely,

John Horn

Joh Gen

Chair, Martin County Water District

Cc: Judge Executive Kelly Callaham Martin County Water District Board Kentucky Public Service Commission

# EXHIBIT #3

Water In

	A:rpol Meter	.T	Dave Met		Davella Usage	Total Pumpad	The Diff	erance		
3/1/2018	53,331,000	5,198,600	9,740,000	6,909,710	15,000	9,760	-5,240			
3/2/2018	53,452,000	5,208,840	9,740,000	6,918,570	8,860	131,240	122,380			
3/3/2018	53,620,000	5,223,040	9,740,000	6,926,280	7,710	182,200	174,490			
3/4/2018	53,701,000	5,230,450	9,741,000	6,935,350	10,070	88,410	78,340			
3/5/2018	53,776,000	5,237,250	9,740,000	6,947,100	10,750	81,800	71,050			
3/6/2018	53,778,000	5,246,610	9,740,000	6,957,800	10,700	11,360	660			
3/7/2018	53,976,000	5,254,750	9,740,000	6,968,540	10,740	206,140	195,400			
3/8/2018	54,013,000	5,257,900	9,740,000	6,982,000	13,460	40,150	26,690			
3/9/2018	54,081,000	5,263,920	9,740,000	6,993,560	11,560	74,020	62,460			
3/10/2018	54,144,000	5,269,020	9,740,000	7,007,060	13,500	68,100	54,600			
3/11/2018	54,301,000	5,281,820	9,740,000	7,015,410	8,350	169,800	161,450			
12/2018	54,344,000	5,285,450	9,740,000	7,026,980	11,570	46,630	35,060			
J, 13/2018	54,450,000	5,294,260	9,740,000	7,039,500	12,520	114,810	102,290			
3/14/2018	54,523,000	5,301,500	9,740,000	7,054,460	14,960	80,240	65,280			
3/15/2018	54,523,000	5,301,700	9,740,000	7,068,620	14,160	200	-13,960			
3/16/2018	54,584,000	5,307,080	9,740,000	7,083,690	15,070	66,380	51,310			
3/17/2018	54,666,000	5,314,140	9,740,000	7,092,810	9,120	89,060	79,940			
3/18/2018	54,710,000	5,317,980	9,740,000	7,104,030	11,220	47,840	36,620			
3/19/2018	54,766,000	5,322,790	9,740,000	7,118,980	14,950	60,810	45,860			
3/20/2018	54,766,000	5,322,800	9,740,000	7,134,610	15,630	10	-15,620			
3/21/2018	54,815,000	5,326,910	9,757,000	7,143,670	26,060	53,110	27,050			
3/22/2018	54,816,000	5,326,910	9,783,000	7,154,050	36,380	1,000	-35,380			
3/23/2018	54,815,000	5,326,910	10,125,000	7,188,210	376,160	-1,000	-377,160			
3/24/2018	54,815,000	5,326,920	10,316,000	7,210,800	213,590	10	-213,580			
3/25/2018	54,815,000	5,326,940	10,323,000	7,226,410	22,610	20	-22,590			
3/26/2018	54,815,000	5,326,940	10,433,000	7,252,770	136,360	0	-136,360			
3/27/2018	54,815,000	5,326,970	10,433,000	7,271,030	18,260	30	-18,230			
28/2018	54,815,000	5,326,970	10,433,000	7,285,400	14,370	0	-14,370			
J, 29/2018	54,815,000	5,326,980	10,443,300	7,300,610	25,510	10	-25,500	~ 1 1	Difference	Darella
3/30/2018	54,815,000	5,327,000	10,433,000	7,315,830	4,920	20	-4,900	Total	D. Frerence	Daser
3/31/2018	54,815,000	5,327,000	10,433,000	7,334,700	18,870	0	-18,870	-		
4/1/2018	54,815,000	5,327,020	10,433,000	7,353,770	19,070	20	-19,050	1,622,180	470,120 1,	152,060
4/2/2018	54,815,000	5,327,020	10,433,000	7,374,200	20,430	0	-20,430			
4/3/2018	54,815,000	5,327,030	10,433,000	7,397,210	23,010	10	-23,000			
4/4/2018	54,815,000	5,327,040	10,433,000	7,421,910	24,700	10	-24,690			
4/5/2018	54,815,000	5,327,050	10,433,000	7,454,190	32,280	10	-32,270			
4/6/2018	54,815,000	5,327,050	10,434,000	7,493,860	40,670	0	-40,670			

4/7/2018	54,815,000	5,327,050	10,437,000	7,542,190	51,330	0	-51,330	
4/8/2018	54,815,000	5,327,060	10,444,000	7,585,030	49,840	10	-49,830	
4/9/2018	54,815,000	5,327,060	10,455,000	7,626,270	52,240	0	-52,240	
4/10/2018	54,815,000	5,327,070	10,474,000	7,673,660	66,390	10	-66,380	
4/11/2018	54,815,000	5,327,070	10,500,000	7,719,760	72,100	0	-72,100	
4/12/2018	54,815,000	5,327,070	10,540,000	7,766,540	86,780	0	-86,780	
4/13/2018	54,815,000	5,327,080	10,601,000	7,815,070	109,530	10	-109,520	
4/14/2018	54,815,000	5,327,100	10,610,000	7,832,900	26,830	20	-26,810	
4/15/2018	54,815,000	5,327,100	10,610,000	7,842,800	9,900	0	-9,900	
4/16/2018	54,815,000	5,327,100	10,610,000	7,850,610	7,810	0	-7,810	
4/17/2018	54,907,000	5,334,970	10,610,000	7,857,300	6,690	99,870	93,180	
18/2018	54,980,000	5,341,500	10,610,000	7,864,200	6,900	79,530	72,630	
.,19/2018	55,152,000	5,355,680	10,610,000	7,868,480	4,280	186,180	181,900	
4/20/2018	55,271,000	5,365,200	10,610,000	7,875,480	7,000	128,520	121,520	
4/21/2018	55,501,000	5,384,940	10,610,000	7,879,020	3,540	249,740	246,200	
4/22/2018	55,508,000	5,385,620	10,610,000	7,888,960	9,940	7,680	-2,260	
4/23/2018	55,508,000	5,385,630	10,610,000	7,896,070	7,110	10	-7,100	
4/24/2018	55,758,000	5,406,280	10,610,000	7,898,660	2,590	270,650	268,060	
4/25/2018	55,884,000	5,417,100	10,610,000	7,903,630	4,970	136,820	131,850	
4/26/2018	56,023,000	5,429,140	10,610,000	7,908,850	5,220	151,040	145,820	
4/27/2018	56,045,000	5,431,020	10,610,000	7,917,350	8,500	23,880	15,380	
4/28/2018	56,256,000	5,449,110	10,610,000	7,921,340	3,990	229,090	225,100	
4/29/2018	56,477,000	5,469,200	10,610,000	7,922,630	1,290	241,090	239,800	
4/30/2018	56,631,000	5,482,760	10,610,000	7,933,510	10,880	167,560	156,680	
5/1/2018	56,765,000	5,494,030	10,611,000	7,941,200	8,690	145,270	136,580	2

2,117,030 1,332,530 784,500

4/7/2018	54,815,000	5,327,050	10,437,000	7,542,190	51,330	0	-51,330	
4/8/2018	54,815,000	5,327,060	10,444,000	7,585,030	49,840	10	-49,830	
4/9/2018	54,815,000	5,327,060	10,455,000	7,626,270	52,240	0	-52,240	
4/10/2018	54,815,000	5,327,070	10,474,000	7,673,660	66,390	10	-66,380	
4/11/2018	54,815,000	5,327,070	10,500,000	7,719,760	72,100	0	-72,100	
4/12/2018	54,815,000	5,327,070	10,540,000	7,766,540	86,780	0	-86,780	
4/13/2018	54,815,000	5,327,080	10,601,000	7,815,070	109,530	10	-109,520	
4/14/2018	54,815,000	5,327,100	10,610,000	7,832,900	26,830	20	-26,810	
4/15/2018	54,815,000	5,327,100	10,610,000	7,842,800	9,900	0	-9,900	
4/16/2018	54,815,000	5,327,100	10,610,000	7,850,610	7,810	0	-7,810	
4/17/2018	54,907,000	5,334,970	10,610,000	7,857,300	6,690	99,870	93,180	
18/2018	54,980,000	5,341,500	10,610,000	7,864,200	6,900	79,530	72,630	
4/19/2018	55,152,000	5,355,680	10,610,000	7,868,480	4,280	186,180	181,900	
4/20/2018	55,271,000	5,365,200	10,610,000	7,875,480	7,000	128,520	121,520	
4/21/2018	55,501,000	5,384,940	10,610,000	7,879,020	3,540	249,740	246,200	
4/22/2018	55,508,000	5,385,620	10,610,000	7,888,960	9,940	7,680	-2,260	
4/23/2018	55,508,000	5,385,630	10,610,000	7,896,070	7,110	10	-7,100	
4/24/2018	55,758,000	5,406,280	10,610,000	7,898,660	2,590	270,650	268,060	
4/25/2018	55,884,000	5,417,100	10,610,000	7,903,630	4,970	136,820	131,850	
4/26/2018	56,023,000	5,429,140	10,610,000	7,908,850	5,220	151,040	145,820	
4/27/2018	56,045,000	5,431,020	10,610,000	7,917,350	8,500	23,880	15,380	
4/28/2018	56,256,000	5,449,110	10,610,000	7,921,340	3,990	229,090	225,100	
4/29/2018	56,477,000	5,469,200	10,610,000	7,922,630	1,290	241,090	239,800	
4/30/2018	56,631,000	5,482,760	10,610,000	7,933,510	10,880	167,560	156,680	
5/1/2018	56,765,000	5,494,030	10,611,000	7,941,200	8,690	145,270	136,580	2,117,030

1,332,530 784,500

Nator In Airport Meter Davalla Total The Davella DIFFERENCE PUMPEN Usage 15,000 9,760 -5,240 3/1/2018 53,331,000 5,198,600 9,740,000 6,909,710 3/2/2018 53,452,000 5,208,840 9,740,000 6,918,570 8,860 131,240 122,380 7,710 182,200 174,490 5,223,040 9,740,000 6,926,280 3/3/2018 53,620,000 6,935,350 10,070 88,410 78,340 5,230,450 3/4/2018 53,701,000 9,741,000 3/5/2018 53,776,000 9,740,000 6,947,100 10,750 81,800 71,050 5,237,250 5,246,610 10,700 11,360 660 3/6/2018 9,740,000 6,957,800 53,778,000 10,740 3/7/2018 53,976,000 9,740,000 6,968,540 206,140 195,400 5,254,750 3/8/2018 5,257,900 9,740,000 6,982,000 13,460 40,150 26,690 54,013,000 62,460 9,740,000 6,993,560 11,560 74,020 3/9/2018 54,081,000 5,263,920 7,007,060 13,500 68,100 54,600 5,269,020 3/10/2018 54,144,000 9,740,000 5,281,820 9,740,000 8,350 169,800 161,450 3/11/2018 54,301,000 7,015,410 5,285,450 7,026,980 11,570 46,630 35,060 54,344,000 9,740,000 12/2018 5,294,260 7,039,500 12,520 114,810 102,290 3/13/2018 54,450,000 9,740,000 65,280 3/14/2018 54,523,000 5,301,500 9,740,000 7,054,460 14,960 80,240 200 7,068,620 3/15/2018 54,523,000 5,301,700 9,740,000 14,160 -13,960 15,070 66,380 51,310 5,307,080 3/16/2018 54,584,000 9,740,000 7,083,690 54,666,000 9,740,000 7,092,810 9,120 89,060 79,940 3/17/2018 5,314,140 5,317,980 9,740,000 7,104,030 11,220 47,840 36,620 3/18/2018 54,710,000 14,950 60,810 45,860 54,766,000 5,322,790 9,740,000 7,118,980 3/19/2018 10 -15,620 3/20/2018 5,322,800 9,740,000 7,134,610 15,630 54,766,000 26,060 53,110 27,050 5,326,910 9,757,000 3/21/2018 54,815,000 7,143,670 9,783,000 7,154,050 36,380 1,000 -35,380 5,326,910 3/22/2018 54,816,000 54,815,000 5,326,910 10,125,000 7,188,210 376,160 -1,000 -377,160 3/23/2018 10 -213,580 10,316,000 7,210,800 213,590 3/24/2018 54,815,000 5,326,920 -22,590 22,610 3/25/2018 54,815,000 5,326,940 10,323,000 7,226,410 20 0 -136,360 54,815,000 5,326,940 10,433,000 7,252,770 136,360 3/26/2018 7,271,030 30 -18,230 27/2018 54,815,000 5,326,970 10,433,000 18,260 7,285,400 14,370 0 -14,3705,326,970 28/2018 54,815,000 10,433,000 -25,500 5,326,980 10,443,300 7,300,610 25,510 10 Difference Davalla 3/29/2018 54,815,000 Total 20 -4,900 7,315,830 4,920 3/30/2018 54,815,000 5,327,000 10,433,000 Samban -18,870 18,870 0 54,815,000 5,327,000 10,433,000 7,334,700 3/31/2018 470,120 1,152,060 20 1,622,180 4/1/2018 54,815,000 5,327,020 10,433,000 7,353,770 19,070 -19,050 0 5,327,020 20,430 -20,430 4/2/2018 54,815,000 10,433,000 7,374,200 10,433,000 7,397,210 23,010 5,327,030 10 -23,000 4/3/2018 54,815,000 24,700 -24,690 5,327,040 10,433,000 7,421,910 10 4/4/2018 54,815,000 10,433,000 7,454,190 32,280 -32,270

40,670

7,493,860

4/5/2018

4/6/2018

54,815,000

54,815,000

5,327,050

5,327,050

10,434,000

10

0

-40,670

# EXHIBIT #4



**ECH Status:** 

Legal Applicant: Martin County Water District

Project Title: Water Treatment Plant Clarifier Rehab

Project Number: WX21159007 View Map Submitted By: BSADD
Funding Status: Not Funded Primary County: Martin
Project Status: Approved Planning Unit: Martin
Project Schedule: 0-2 Years Multi-County: No

E-Clearinghouse SAI:

Applicant Entity Type: Water District (KRS 74)

ADD WMC Contact: Jamie Pinson

Date Approved (AWMPC): 06-27-2017

### Project Description:

This project will rehab the existing clarifier unit (No. 1) at the water treatment plant. The clarifier unit was constructed in the late 1960; renovated in the late 1980 and is in need of rehabilitation again.

The clarifier unit is a combination upflow clarifier and settling basin with peripheral filters. The unit has a treatment capacity of 0.7 to 1.0 MGD (depending on raw water turbidity). The unit is in the need of having the metal support bridge repainted; the clarifier rake mechanism is in the need of repair with damaged or broken supports replaced and structurally reinforced; the motor gear box and drive unit needs to be replaced. The filter underdrain is the original underdrain system with ceramic spheres, which several are missing or have worn down. Several underdrain hoppers are in poor or failing condition causing the filter media to fall into the filter chase.

Additional work will be done to relocate the filter effluent, filter drain, filter-to-waste, and effluent valves to a new valve vault similar to the existing two units that was constructed in 2010. Tube settlers will be installed in this unit similar to the two existing units. The portions or parts of the clarifier that will be rehabilitated or replaced: The metal support bridge repainted, clarifier rake mechanism replaced, motor gear box and drive united replaced. The filter underdrains will be replaced. This project will impact the finished water by improving filtration by reducing the filtration. This will not impact potential DBP formation at the water plant. This project will address the CT and/or cryptosporidium issues.

This project will also replace remainder of district's water meters to radio read meters, residential and commercial.

### Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The rehabilitation of this unit will allow the WTP to remove from service any of the three treatment units for repairs, cleaning, maintenance, or back washing of the filters without reducing the overall treatment plant capacity of 2.4 MGD.

### **Project Alternatives:**

Alternate A:

Construct a new clarifier.

Alternate B:

### Legal Applicant:

Entity Type: Water District (KRS 74) PSC Group ID: 25000

**Entity Name: Martin County Water District** 

Web URL:

Office EMail: greg\_scott818@yahoo.com

Office Phone: 606-298-3885 Toll Free: Fax: 606-298-4913

Mail Address Line 1: 387 E Main St Phys Address Line 1: 387 E Main St

Mail Address Line 2: Phys Address Line 2:

Mail City, State Zip: Inez, KY 41224 Phys City, State Zip: Inez, KY 41224

Contact: Greg Scott Financial Contact: Auth Official: Kelly Calahamn
Contact Title: Interim General Manager Financial Contact Title: Auth Official Title: Judge Executive

Contact EMail: greg\_scott818@yahoo.com Financial Contact EMail: Auth Official EMail: com

Contact Phone: 606-298-3885 Financial Contact Phone: Auth Official Phone: 606-298-2800

Data Source: Kentucky Infrastructure Authority Date Last Modified: 04.10.2018



WX21159007 - Martin County Water District Water Treatment Plant Clarifier Rehab

### Project Administrator (PA) Information

Name: Holly L Nicholas

Title: Project Administrator

Organization: Kentucky Engineering Group, PLLC

Address Line 1: PO Box 1034

Address Line 2:

City: Versailles State: KY Zip: 40383 Phone: 859-333-9742 Fax: 859-251-4137

# Applicant Contact (AC) Information

Name: John Mills

Title: General Manager

Organization: Martin County Water District

Address Line 1: Hc 69 Box 875

Address Line 2:

City: Inez State: KY Zip: 41224 Phone: 606-298-3885 Fax:

### **Estimated Budget**

Project Cost Categories:	
Cost Category	Cost
Administrative Expenses:	\$ 39,875
Legal Expenses:	\$ 5,000
Land, Appraisals, Easements:	
Relocation Expenses & Repayments:	
Planning:	\$ 25,000
Engineering Fees - Design:	\$ 141,158
Engineering Fees - Construction:	
Engineering Fees - Inspection:	\$ 89,320
Engineering Fees - Other:	
Construction:	\$ 2,095,000
Equipment:	
Miscellaneous:	\$ 3,500
Contingencies:	\$ 159,500
Total Project Cost:	\$ 2,558,353

Construction Cost Categories:	
Cost Category	Cost
Treatment:	\$ 1,295,000
Transmission & Distribution:	
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized:	\$ 800,000
Total ConstructionCost:	\$ 2,095,000

### **Total Sustainable Infrastructure Costs:**

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

## **Project Funding Sources:**

Total Project Cost: \$2,558,353

Total Committed Funding: \$0

Funding Gap: \$2,558,353 (Not Funded)

☑ This project will be requesting SRF funding for fiscal year 2019.

### **Estimated Project Schedule:**

Est. Environmental Review Submittal Date: 02-01-2017

Estimated Bid Date: 01-01-2018

Estimated Construction Start Date: 04-01-2018

Estimated Construction Completeion Date: 01-01-2018

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)		2017	\$1,011,600	Ranked	6/21/2016
KIA SRF Fund F Loan (DW)		2018	\$2,058,353	Ranked	5/19/2017
KIA SRF Fund F Loan (DW)	F19-014	2019	\$2,558,353	Ranked	4/11/2018
Total Committed					

# **Funding Source Notes:**



# **Drinking Water Project Profile** WX21159007 - Martin County Water District

Water Treatment Plant Clarifier Rehab

### The following systems are beneficiaries of this project:

### ✓ KY0800273 Martin County Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:	Plans and specs have been sent to DOW.
Regional Ranking(s):	Plans and specs have been reviewed by DOW.
Planning Unit Ranking:	Plans and specs have been sent to PSC.
Total Points:	Plans and specs have been reviewed by PSC.

### **Economic, Demographic and Geographic Impacts**

Economic Imp	acts
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)						
Servceable Demographic	Project Area	Included Systems	Included Utilities			
Population:		12,186	12,181			
Households:		5,098	5,098			
MHI:		\$29,025	*\$29,025			
MHI MOE		\$8,282	*\$8,282			
MOE as Pct:		29.0%	29.0%			
**NSRL:		2	2			

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2012-2016 5Yr Estimates (Table B19013) \*(for the primary system operated by the above listed beneficiary utilities).

### MHI MOE = Med HH Income Margin of Error.

- \*\* NSRL (Non-Standard Rate Levels):
- 0 = Income above Kentucky MHI (KMHI).
- 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$44,811
- 80% KHMI = \$35,849

New Customers					
New Residential Customers:					
New Commercial Customers:					
New Institutional Customers:					
New Industrial Customers:					

New or Improved	Service		
Service Demographic	Survey Based	Census Overlay	
To Unserved Households:			
To Underserved Households:	3,335		
To Total Households:	3,335		
** Cost Per Household:	\$7	67	

- \* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.
- \*\* Cost per household is based on surveyed household counts, not GIS overlay values.

	ographic Impacts or Project Area		
Counties	4		
Martin			
Leç	gislative Districts		
District Name	Legislator		
House 093	Chris Harris		
Senate 31	Ray S. Jones II		
Congressional	5 Hal Rogers		
Groundw	vater Sensitivity Zones		
HU	C 10 Watersheds		
HUC Code	Watershed Name		
0507020106	Rockcastle Creek-Tug Fork		

	raphic Impacts cluded System(s)
Counties	
Johnson	
Lawrence	
Martin	
Legis	slative Districts
District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers



w Sp	ecitio	impac	its:									
	This pr	oject rela	tes to a public health	emergeno	cy.							
	This project will assist a non-compliant system to achieve compliance.											
	This project will assist a compliant system to meet future requirements											
$\square$	This project will provide assistance not compliance related.											
☑	This pr decree		ecessary to achieve	full or parti	ial compliance w	ith a cou	ırt order, agree	d order, or a judicia	l or administrat	ve consent		
	Primar June 2		has not received any	y SDWA N	lotices of Violatio	n within	the previous st	tate fiscal year-July	through June, i	.e. July 2014	-	
roje	ct Inv	entory	(Mapped Featu	res):								
					Марр	ed Poi	int Features	8				
Pem	OW nit ID	Count	FeatureTy	ре		Purpos	se	Status	Existing Capacity	Proposed Capacity	Units	
KY08	00273	1	WATER TREATME PLANT	NT	CLARIFIER			REHAB	2.00		MGD	
Reg		inning ization	☑ Components:	Design		☑	Construction		☐ Manage	ment		-
P	ublic '	Water :	Systems Elimina	ated:								
		this proje	ct includes the elimin	nation of p	ublic water syste	m(s) thro	ough merger o	r acquisition.				
w	ater 1	Γreatm	ent Plants Elimi	nated:								
		This proj	ect includes the elimi	ination of v	water treatment p	olant(s) tl	hrough interco	nnect(s).				
S	upple	mentat	ion of Raw Wat	er Supp	ly:							
		This proj	ect includes supplem	enting the	existing raw wat	ter suppl	y.					
S	upple	mentat	ion of Potable V	Water Su	upply:							
		This proj	ect includes supplem	enting the	existing potable	water su	upply.					
_			oct moradoo dappiom		• • • • • • • • • • • • • • • • • • • •							
E	merge	ency O	nly Water Suppl	-	•							
E	merge			ly:								
		This proj	nly Water Suppl	ly:								_



# **Water Treatment Components:**

	ini	s project includes water treatment components	
	Trea	tment Activities:	
		This project includes a new water treatment plant.	
		Proposed design capacity (MGD): 0.000	
		This project includes an expansion of an existing water treatment plant.	
		Current design capacity (MGD): 0.000	
		Proposed design capacity (MGD): 0.000	
		This project includes rehabilitation of an existing water treatment plant.	
		This project includes upgrades to an existing water treatment plant.	
		This project includes emergency power generators for treatment activities.	
		Number of units provided: 0	
		This project includes redundant treatment processes.	
	Acu	te Public Health Risk:	
		This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.	
		This project includes infrastructure options to meet CT inactivation requirements.	
	Chro	onic Public Health Risk:	
		This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment pla	ınt.
		This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.	
	Sec	ondary Contaminants:	
		This project includes treatment modifications to address Secondary Contaminants.	
	Sec	urity:	
		This project includes security components for water treatment facilities.	
Wate	er Dis	tribution and Storage:	
		This project includes water distribution and/or storage components.	
W	ater L	ine Extensions:	
		This project includes water line extension(s).	
R	edun	dancy Components:	
		This project includes emergency power generators for distribution and/or storage activities.	
		This project includes redundant distribution and/or storage processes.	



Finis	hed Water Quality:	
	This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).	
	This project includes infrastructure to address inability to maintain disinfection residual.	
Wate	r Line Replacement:	
	This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead a asbestos-cement (AC), and/or inadequately sized water lines.	and/or
Wate	er Storage and Pressure Components:	
	This project includes the construction of new water tank(s).	
	This project includes the replacement of existing water tank(s).	
	This project includes the rehabilitation of existing water tank(s).	
	This project includes the construction of new pump station(s).	
	This project includes the rehabilitation of existing pump station(s).	
Secu	rity:	
	This project includes security components for water distribution infrastructure.	
Sustainable	e Infrastructure - Green Infrastructure:	
and resto infrastruc with polic	ormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that res natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scature is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlar ies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, gutter consists of site and neighborhood-specific practices, such as:	ale, green nds, coupled
	Component	Cost
☐ Bioreten	tion	\$0
☐ Trees		\$0
☐ Green R	oofs	\$0
☐ Permeat	ple Pavement	\$0
☐ Cisterns		\$0
	Total Green Infrastructure Cost:	\$0
There a	re no Green Infrastructure components specified for this project.	



### Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

	Component	Cost
	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	
	Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	
	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
	Water meter replacement with traditional water meters.*	
	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	
	Storage tank replacement/rehabilitation to reduce water loss.*	
	New water efficient landscape irrigation system, where there currently is not one.*	
	Total Water Efficiency Cost:	
	* Indicates a business case may be required for this item.	
	There are no Water Efficiency components specified for this project.	
2.,		
Ju	stainable Infrastructure - Energy Efficiency:	
Ju	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projection energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:	ects, use
Ju	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project	ects, use
-	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projection in a more efficient way, and/or produce/utilize renewable energy. Examples include:	
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*  Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*  Upgrade of lighting to energy efficient sources.*	Cost



# Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	Cost						
	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	\$0						
	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.							
	Source water protection planning (delineation, monitoring, modeling).							
	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	\$0						
	Utility sustainability plan consistent with EPA's sustainability policy.							
	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	\$0						
	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	\$0						
	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	\$0						
	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	\$0						
	Trenchless or low impact construction technology.*							
	Using recycled materials or re-using materials on-site.*	\$0						
	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*							
	☐ Projects that achieve the goals/objectives of utility asset management plans.*							
	Total Environmentally Innovative Cost:	\$0						
	* Indicates a business case may be required for this item.							
	There are no Environmentally Innovative components specified for this project.							
Sus	stainable Infrastructure - Asset Management:							
	If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Singh (Anshu.Singh@ky.gov) for CW projects	Anshu						
	Component							
ı	ast Rate Adjustment Date: 05-20-2018 Download Fee Schedule							
	Rate Adjustment Age: 0 months							
Sys	tem's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 2.00%							
	The system(s) has a Capital Improvement Plan or similar planning document.							
	The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging deteriorating infrastructure.	and						
Pro	ject Status: Approved: 06-27-2017 Date Re	evised:						



Legal Applicant: Martin County Water District

Project Title: Water System Controls and Raw Water Modifications

Project Number: WX21159009 View Map Submitted By: BSADD Funding Status: Not Funded Primary County: Martin Project Status: Approved Planning Unit: Martin Project Schedule: 0-2 Years Multi-County: No

E-Clearinghouse SAI: KY201804020196 ECH Status: Under Review Applicant Entity Type: Water District (KRS 74) ADD WMC Contact: Jamie Pinson

Date Approved (AWMPC): 12-04-2015

### **Project Description:**

This project will include raw water intake modifications. A secondary intake will be added in the Tug Fork River providing redundancy. Piping, pumps, and controls will be upgraded to provide for the second intake. In addition to the second raw water intake, the raw water transmission main will be extended from the Crum Reservoir to the water treatment plant and a new reservoir intake structure will be constructed. The transmission main will be 3,500 linear feet of 16 inch ductile iron pipe. This project also includes installation of system wide telemetry SCADA system.

### Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The second intake structure will provide security when the river level is low and protection during flood events. The piping, pump, and control upgrades will provide more reliability than the current system alone.

The transmission main extension from the reservoir to the plant will give the District flexibility to bring water directly from the river to the WTP bypassing the reservoir. During certain time of the year, primarily in the fall, organics get very high in the reservoir impacting the final

The new SCADA system will allow for continuous readout at a central location from all storage tanks, pump stations, and control valves. This will reduce water loss by detecting problems sooner and reducing down time when there is a problem.

### **Project Alternatives:**

Alternate A:

For the intake activities; change the pumps and valves only.

Reduce scope of SCADA control systems

### **Legal Applicant:**

Entity Type: Water District (KRS 74) PSC Group ID: 25000

**Entity Name: Martin County Water District** 

Web URL:

Office EMail: greg\_scott818@yahoo.com

Office Phone: 606-298-3885 Toll Free: Fax: 606-298-4913 Mail Address Line 1: 387 E Main St Phys Address Line 1: 387 E Main St

Mail Address Line 2: Phys Address Line 2:

Mail City, State Zip: Inez, KY 41224 Phys City, State Zip: Inez, KY 41224

Financial Contact: Contact: Greg Scott Auth Official: Kelly Calahamn Contact Title: Interim General Manager **Financial Contact Title:** Auth Official Title: Judge Executive

kcallaham@suddenlinkmail.

Contact EMail: greg\_scott818@yahoo.com Financial Contact EMail: Auth Official EMail: com Contact Phone: 606-298-3885 **Financial Contact Phone:** Auth Official Phone: 606-298-2800

Data Source: Kentucky Infrastructure Authority Date Last Modified: 04.10.2018



WX21159009 - Martin County Water District Water System Controls and Raw Water Modifications

### Project Administrator (PA) Information

Name: Monica Spriggs

Title: Project Administrator

Organization: Big Sandy Area Development District

Address Line 1: 110 Resource Dr

Address Line 2:

City: **Prestonsburg** State: **KY** Zip: **41653** Phone: **606-886-2374** Fax: **606-886-3382** 

### **Applicant Contact (AC) Information**

Name: Greg Scott

Title: Interim General Manager
Organization: Martin County Water District

Address Line 1: HC 69 Box 875

Address Line 2:

City: Inez State: KY Zip: 41224 Phone: 606-298-3885 Fax:

### **Estimated Budget**

Project Cost Categories:	
Cost Category	Cost
Administrative Expenses:	
Legal Expenses:	
Land, Appraisals, Easements:	
Relocation Expenses & Repayments:	
Planning:	
Engineering Fees - Design:	\$ 202,000
Engineering Fees - Construction:	\$ 50,000
Engineering Fees - Inspection:	\$ 152,000
Engineering Fees - Other:	
Construction:	\$ 2,750,000
Equipment:	
Miscellaneous:	
Contingencies:	\$ 275,000
Total Project Cost:	\$ 3,429,000

Cost Category	Cost
Treatment:	
Transmission & Distribution:	
Source:	\$ 2,500,000
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized:	\$ 250,000
Total ConstructionCost:	\$ 2,750,000

### **Total Sustainable Infrastructure Costs:**

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

### **Project Funding Sources:**

Total Project Cost: \$3,429,000

Total Committed Funding: \$0

Funding Gap: \$3,429,000 (Not Funded)

☑ This project will be requesting SRF funding for fiscal year 2019.

### **Estimated Project Schedule:**

Est. Environmental Review Submittal Date:

**Estimated Construction Completeion Date:** 

06-15-2018

Estimated Bid Date:

09-15-2018 11-15-2018

Estimated Construction Start Date:

12-13-2019

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
AML		2018	\$3,429,000	Anticipated	
<b>Total Committed</b>					

### **Funding Source Notes:**

### The following systems are beneficiaries of this project:

### √ KY0800273 Martin County Water District

Note: Check mark indicates primary system for this project.



Project Ranking by AWMPC:	Plans and specs have been sent to DOW.
Regional Ranking(s):	Plans and specs have been reviewed by DOW.
Planning Unit Ranking:	Plans and specs have been sent to PSC.
Total Points:	Plans and specs have been reviewed by PSC.

Economic Impac	ts
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)				
Servceable Project Demographic Area		Included Utilities		
144	12,186	12,181		
70	5,098	5,098		
\$28,559	\$29,025	*\$29,025		
\$7,933	\$8,282	*\$8,282		
28%	29.0%	29.0%		
	2	2		
	Project Area 144 70 \$28,559 \$7,933	Project Area         Included Systems           144         12,186           70         5,098           \$28,559         \$29,025           \$7,933         \$8,282           28%         29.0%		

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2012-2016 5Yr Estimates (Table B19013) \*(for the primary system operated by the above listed beneficiary utilities).

### MHI MOE = Med HH Income Margin of Error.

- \*\* NSRL (Non-Standard Rate Levels):
- 0 = Income above Kentucky MHI (KMHI). 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$44,811
- 80% KHMI = \$35,849

New Customers			
New Residential Customers:			
New Commercial Customers:			
New Institutional Customers:			
New Industrial Customers:			

New or Improved Service			
Service Demographic	Survey Based	Census Overlay*	
To Unserved Households:			
To Underserved Households:	3,335	70	
To Total Households:	3,335	70	
** Cost Per Household:	\$1,	028	

- GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.
- Cost per household is based on surveyed household counts, not GIS overlay values.

		raphic Impacts Project Area
Counties		
Martin		
Leç	jis	lative Districts
District Name		Legislator
House 093	1	Chris Harris
Senate 31		Ray S. Jones II
Congressional	5	Hal Rogers
Groundy	vat	er Sensitivity Zones
HU	c ·	10 Watersheds
HUC Code		Watershed Name
0507020105	V	Volf Creek-Tug Fork
0507020106	R	lockcastle Creek-Tug Fork

Counties	
Johnson	
Lawrence	
Martin	,
Legis	lative Districts
District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
House 097 Senate 30	Scott Wells Brandon Smith

**Geographic Impacts** 



Drinking Water Project Profile
WX21159009 - Martin County Water District

			vvaler Sy	stem Controls and Raw Water Mic	dilications					
W Specific	c Impa	cts:								
☐ This pr	roject rela	ates to a public hea	Ith emergency.							
☑ This p	☑ This project will assist a non-compliant system to achieve compliance.									
☐ This pr	☐ This project will assist a compliant system to meet future requirements									
☐ This pr	roject will	provide assistance	not compliance	related.						
☑ This production		necessary to achiev	e full or partial c	ompliance with a court order, agreed	order, or a judio	cial or ad	ministra	tive consent		
Primar June 2		has not received a	any SDWA Notice	es of Violation within the previous stat	e fiscal year-Ju	ily throug	jh June,	i.e. July 2014	-	
Project Inv	entory	(Mapped Feat	ures):							
				Mapped Point Features						
DOW Permit ID	Count	Feature1	Гуре	Purpose	Status		isting pacity	Proposed Capacity		Units
KY0800273	1	RADIO METER	W	ATER EFF - AMR CAPABILITIES	NEW				EA	
KY0800273	1	SCADA	EN	IERGY EFF - SCADA	NEW				EA	
KY0800273	1	SURFACE SOUR		W RAW WATER INTAKE STALLATION AT RESERVOIR	NEW				EA	
KY0800273	1	SURFACE SOUR	(CF	RIMARY RAW WATER INTAKE DDIFICATIONS	REHAB				EA	
KY0800273	1	SURFACE SOUR	RCE RE	DUNDANCY	NEW				EA	
				Mapped Line Features						
DOW Permit ID		Line Type	Purpose	Activity		Size (in.)	Ma	aterial		ength (LF)
KY0800273	WATER	LINE: FINISHED	DISTRIBUTION	REHAB - REPLACE PROBLEM L	INES	6.00	-	PVC		15,260
KY0800273	WATER	LINE: RAW	TRANSMISSION	REHAB - REPLACE PROBLEM L	INES	16.00	DUCT	ILE IRON		3,955
							Tota	I Length		19,215
	strative	e Components ⊡		✓ Construction			Manag	ement		
Regional	ization	Components:								
Public	Water	Systems Elimi	nated:							
	this proje	ect includes the elin	nination of public	water system(s) through merger or a	cquisition.					
Water	Treatm	ent Plants Elin	ninated:							
				r treatment plant(s) through interconn	ect(s).					
_		tion of Paw W		, , , , , , , , , , , , , , , , , , , ,	3.0					
SUDDIA	montai	UCD OT MOW MY	TELE SIIDDIV							

Supplementation of Potable Water Supply:

☐ This project includes supplementing the existing potable water supply.

☐ This project includes supplementing the existing raw water supply.



Emer	gen	cy Only Water Supply:	
	Th	is project provides emergency only water supply.	
Water S	Sour	ce Protection:	
	Th	is project includes land acquisition for water source protection.	
Water T	reat	tment Components:	
	Th	is project includes water treatment components	
	Tre	atment Activities:	
		This project includes a new water treatment plant.	
		This project includes an expansion of an existing water treatment plant.	
		This project includes rehabilitation of an existing water treatment plant.	
		This project includes upgrades to an existing water treatment plant.	
		This project includes emergency power generators for treatment activities.	
		This project includes redundant treatment processes.	
	Acı	ute Public Health Risk:	
		This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.	
		This project includes infrastructure options to meet CT inactivation requirements.	
	Chr	onic Public Health Risk:	
	☑	This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment	t plant.
		This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.	
	Sec	condary Contaminants:	
		This project includes treatment modifications to address Secondary Contaminants.	
	Sec	curity:	
		This project includes security components for water treatment facilities.	
Wate	r Dis	stribution and Storage:	
₹	Ī	This project includes water distribution and/or storage components.	
W	ater	Line Extensions:	
		This project includes water line extension(s).	



Redu	ndancy Components:	
	This project includes emergency power generators for distribution and/or storage activities.	
	Number of units provided: 0	
	This project includes redundant distribution and/or storage processes.	
Finisl	ned Water Quality:	
	This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).	
	This project includes infrastructure to address inability to maintain disinfection residual.	
Wate	Line Replacement:	
☑	This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/o asbestos-cement (AC), and/or inadequately sized water lines.	r
	Total length of line replacement: 19,215	
Wate	r Storage and Pressure Components:	
	This project includes the construction of new water tank(s).	
	This project includes the replacement of existing water tank(s).	
	This project includes the rehabilitation of existing water tank(s).	
	Number of rehabilitated tanks: 0	
	This project includes the construction of new pump station(s).	
	Number of new pump stations: 0	
	This project includes the rehabilitation of existing pump station(s).	
	Number of rehabilitated pump stations: 0	
Secu	rity:	
	This project includes security components for water distribution infrastructure.	
Green sto and resto infrastruct with police	e Infrastructure - Green Infrastructure:  Infrastructure includes a wide array of practices at multiple scales that manage wet weather and that manage infrastructure includes a wide array of practices at multiple scales that manage wet weather and that manage in the preservation of a regional scale, give is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, we such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green the consists of site and neighborhood-specific practices, such as:	green coupled
		ost
☐ Bioretent		\$0 \$0
☐ Green R	pofs	\$0
_	ble Pavement	\$0
☐ Cisterns		\$0
	Total Green Infrastructure Cost:	\$0
There ar	re no Green Infrastructure components specified for this project.	



# Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples

	Component	Cost
	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	,
	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	:
	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	:
	Retrofitting/adding AMR capabilities or leak equipment to existing meters.	;
	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	;
	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	;
	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	:
	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	;
	Water meter replacement with traditional water meters.*	;
	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	
	Storage tank replacement/rehabilitation to reduce water loss.*	:
	New water efficient landscape irrigation system, where there currently is not one.*	:
	Total Water Efficiency Cost:	:
	* Indicates a business case may be required for this item.	
	There are no Water Efficiency components specified for this project.	
Su	There are no Water Efficiency components specified for this project. stainable Infrastructure - Energy Efficiency:	
Su		ects, use
Su	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water proje	ects, use
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projection energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:	
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	Cost
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	Cost
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and	Cost
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable	Cost
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	Cost
	stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*	Cost
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*	Cost
Su	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*  Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	Cost



# Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	Cost
	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	\$0
	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	\$0
	Source water protection planning (delineation, monitoring, modeling).	\$0
	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	\$0
	Utility sustainability plan consistent with EPA's sustainability policy.	\$0
	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	\$0
	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	\$0
	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	\$0
	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	\$0
	Trenchless or low impact construction technology.*	\$0
	Using recycled materials or re-using materials on-site.*	\$0
	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	\$0
	Projects that achieve the goals/objectives of utility asset management plans.*	\$0
	Total Environmentally Innovative Cost:	\$0
	* Indicates a business case may be required for this item.	
	There are no Environmentally Innovative components specified for this project.	
Su	stainable Infrastructure - Asset Management:	
	If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to singh (Anshu.Singh@ky.gov) for CW projects	Anshu
	Component	
l	Last Rate Adjustment Date: 05-20-2018 Download Fee Schedule	
	Rate Adjustment Age: 0 months	
Sys	stem's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 2.00%	
	The system(s) has a Capital Improvement Plan or similar planning document.	
	The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging a deteriorating infrastructure.	and
Pro	pject Status: Approved: 12-04-2015 Date Rev	rised:



Legal Applicant: Martin County Water District

Project Title: Water Treatment Plant Clarifer and Disinfection byproduct reduction

Project Number: WX21159016 View Map Submitted By: BSADD
Funding Status: Not Funded
Project Status: Approved Planning Unit: Martin

Project Schedule: 0-2 Years Multi-County: No

E-Clearinghouse SAI:

ECH Status:

Applicant Entity Type: Water District (KRS 74) ADD WMC Contact: Jamie Pinson

Date Approved (AWMPC): 12-05-2017

### Project Description:

This project will includes clear well aeration and diffusion pipe repair along with a Clarifier cover and an intake screen at the reservoir intake. This project will improve the water quality by installing clearwell aeration, clarifier cover intake screen at reservoir intake and repair clearwell diffusion pipe.

Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

### This project will reduce the disinfection byproducts

### **Project Alternatives:**

Alternate A:

Distribution aeration

Alternate B:

### **Legal Applicant:**

Entity Type: Water District (KRS 74) PSC Group ID: 25000

Entity Name: Martin County Water District

Web URL:

Office EMail: greg\_scott818@yahoo.com

Office Phone: 606-298-3885 Toll Free: Fax: 606-298-4913

Mail Address Line 1: 387 E Main St Phys Address Line 1: 387 E Main St

Mail Address Line 2: Phys Address Line 2:

Mail City, State Zip: Inez, KY 41224 Phys City, State Zip: Inez, KY 41224

Contact: Greg Scott Financial Contact: Auth Official: Kelly Calahamn

Contact Title: Interim General Manager Financial Contact Title: Auth Official Title: Judge Executive

Contact Title: Interim General Manager Financial Contact Title: Auth Official Title: Judge Executive kcallaham@suddenlinkmail.

Contact EMail: greg\_scott818@yahoo.com Financial Contact EMail: Auth Official EMail: com

Contact Phone: 606-298-3885 Financial Contact Phone: Auth Official Phone: 606-298-2800

Data Source: Kentucky Infrastructure Authority Date Last Modified: 04.10.2018



WX21159016 - Martin County Water District
Water Treatment Plant Clarifer and Disinfection byproduct reduction

### Project Administrator (PA) Information

Name: Holly L Nicholas

Title: Project Administrator

Organization: Kentucky Engineering Group, PLLC

Address Line 1: PO Box 1034

Address Line 2:

City: Versailles State: KY Zip: 40383 Phone: 859-333-9742 Fax: 859-251-4137

### **Applicant Contact (AC) Information**

Name: Joe Hammond

Title: Business Manager

Organization: Martin County Utilities

Address Line 1: 38 7 E Main St

Address Line 2:

City: Inez State: KY Zip: 41224

Phone: 606-626-7748 Fax: 606-298-4913

### **Estimated Budget**

Project Cost Categories:	
Cost Category	Cost
Administrative Expenses:	\$ 10,000
Legal Expenses:	\$ 10,000
Land, Appraisals, Easements:	
Relocation Expenses & Repayments:	
Planning:	\$ 10,000
Engineering Fees - Design:	\$ 26,000
Engineering Fees - Construction:	\$ 30,000
Engineering Fees - Inspection:	\$ 15,000
Engineering Fees - Other:	
Construction:	\$ 235,000
Equipment:	
Miscellaneous:	
Contingencies:	\$ 23,500
Total Project Cost:	\$ 359,500

Construction Cost Categories:	
Cost Category	Cost
Treatment:	\$ 235,000
Transmission & Distribution:	
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized:	
Total ConstructionCost:	\$ 235,000

### **Total Sustainable Infrastructure Costs:**

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

# **Project Funding Sources:**

Total Project Cost: \$359,500

Total Committed Funding: \$0

Funding Gap: \$359,500 (Not Funded)

☑ This project will be requesting SRF funding for fiscal year 2019.

### **Estimated Project Schedule:**

Est. Environmental Review Submittal Date:

Estimated Bid Date:

06-01-2018

Estimated Construction Start Date:

08-01-2018

**Estimated Construction Completeion Date:** 

02-15-2019

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)	F19-022	2019	\$359,500	Ranked	4/11/2018
Local			\$359,500	Anticipated	
Total Committed					

### **Funding Source Notes:**

The following systems are beneficiaries of this project:

√ KY0800273 Martin County Water District



# **Drinking Water Project Profile** WX21159016 - Martin County Water District

Water Treatment Plant Clarifer and Disinfection byproduct reduction

Note: Check mark indicates primary system for this project. Plans and specs have been sent to DOW. Project Ranking by AWMPC: Plans and specs have been reviewed by DOW. Regional Ranking(s): Plans and specs have been sent to PSC. Planning Unit Ranking: Plans and specs have been reviewed by PSC. **Total Points:** 

### Econ

Economic Imp	acts
Jobs Created:	
Jobs Retained:	

*Demographi	c Impacts	(GIS Census	Overlay)
Servceable Demographic	Project Area	Included Systems	Included Utilities
Population:		12,186	12,181
Households:		5,098	5,098
MHI:		\$29,025	*\$29,025
MHI MOE		\$8,282	*\$8,282
MOE as Pct:		29.0%	29.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2012-2016 5Yr Estimates (Table B19013) \*(for the primary system operated by the above listed beneficiary utilities).

### MHI MOE = Med HH Income Margin of Error.

- \*\* NSRL (Non-Standard Rate Levels):
- 0 = Income above Kentucky MHI (KMHI). 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$44,811
- 80% KHMI = \$35,849

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved	Service	
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,500	
To Total Households:	3,500	
** Cost Per Household:	\$1	03

- GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.
- Cost per household is based on surveyed household counts, not GIS overlay values.

	graphic Impacts r Project Area
Counties	
Martin	
Legi	slative Districts
District Name	Legislator
House 093	Chris Harris
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers
Groundwa	ater Sensitivity Zones
HUC	10 Watersheds
HUC Code	Watershed Name
0507020106	Rockcastle Creek-Tug Fork

Counties	
Johnson	
Lawrence	
Martin	
Legis	slative Districts
District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

**Geographic Impacts** For Included System(s)



W Specific							
	c impac	ets:					
☑ This pr	roject rela	tes to a public health emerge	ency.				
☑ This pr	roject will	assist a non-compliant syste	m to achieve compliance.				
☐ This pr	roject will	assist a compliant system to	meet future requirements				
☐ This pr	roject will	provide assistance not comp	liance related.				
This pr		ecessary to achieve full or pa	artial compliance with a court order, agreed o	order, or a judicia	l or administrat	ive consent	
		has not received any SDWA	Notices of Violation within the previous state	fiscal year- luly	through lune i	i e July 2014	_
June 2		has not received any obver	rvolices of violation within the previous state	s lister year-sury	tinough oune,	July 2014	
roject Inv	entory	(Mapped Features):					
			Mapped Point Features				
DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0800273	1	WATER TREATMENT PLANT	IMPROVE WATER QUALITY	WTP - UPGRADE	2.00		MGD
Y0800273	1	INTAKE FILTER	IMPROVE WATER QUALITY	REHAB			
☑ Pla	anning	✓ Design	n ☑ Construction		☐ Manage	ement	
			n 🔽 Construction		☐ Manage	ement	
Regional	ization	Components:	n ☑ Construction		☐ Manage	ement	
Regional	ization		n ☑ Construction		☐ Manage	ement	
Regionali Public	ization Water S	Components:	n ☑ Construction	equisition.	☐ Manage	ement	
Regionali	ization Water S this proje	Components:	f public water system(s) through merger or ac	equisition.	☐ Manage	ement	
Regionali Public	ization Water S this proje	Components:  Systems Eliminated:  ect includes the elimination of the plants Eliminated:	f public water system(s) through merger or ac		☐ Manage	ement	
Regionali Public	ization Water \$ this proje Treatme	Components:  Systems Eliminated:  ect includes the elimination of the plants Eliminated:  ect includes the elimination of the plants Eliminated:	f public water system(s) through merger or act		☐ Manage	ement	
Regionali Public  Water 1	ization Water \$ this proje Treatme This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of the elimina	f public water system(s) through merger or act.  of water treatment plant(s) through interconne		☐ Manage	ement	
Regionali Public  Water 1	ization Water \$ this proje Treatme This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of the elimina	f public water system(s) through merger or act		☐ Manage	ement	
Regionali Public  Water 1  Supple	ization Water \$ this proje Treatme This proje ementat This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of the elimina	f public water system(s) through merger or act.  of water treatment plant(s) through interconnections.  pply: the existing raw water supply.		☐ Manage	ement	
Regionali Public  Water 1  Supple  Supple	ization Water S this proje Treatme This proje ementat This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of ect includes supplementing the ect includes supplementing supplementing the ect includes supplementing supplementing supplementing supplementing supplementing supplementing supplementing	f public water system(s) through merger or act.  of water treatment plant(s) through interconnections.  pply: the existing raw water supply.		☐ Manage	ement	
Regionali Public  Water 1  Supple  Supple	ization Water S this proje Treatme This proje mentat This proje mentat This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of ect includes supplementing the ect includes supplementing supplementing the ect includes supplementing supplementing supplementing supplementing supplementing supplementing supplementing	f public water system(s) through merger or act.  of water treatment plant(s) through interconnections.  pply: he existing raw water supply.  Supply:		☐ Manage	ement	
Regionali Public  Water 1  Supple  Supple  Emerge	ization Water \$ this proje Treatme This proje mentat This proje mentat This proje mentat This proje mentat	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of et includes the elimination of ect includes supplementing the ec	f public water system(s) through merger or act.  of water treatment plant(s) through interconnections.  pply:  the existing raw water supply.  Supply:  the existing potable water supply.		☐ Manage	ement	
Regionali Public Water 1 Supple Supple Emerge	ization Water S this proje Treatme This proje mentat This proje mentat This proje ementat This proje This proje This proje	Components:  Systems Eliminated:  ect includes the elimination of ent Plants Eliminated:  ect includes the elimination of ect includes the elimination of ion of Raw Water Supect includes supplementing the ect includes supplementing the entire the	f public water system(s) through merger or act.  of water treatment plant(s) through interconnections.  pply:  the existing raw water supply.  Supply:  the existing potable water supply.		☐ Manage	ement	



# **Water Treatment Components:**

	Thi	s project includes water treatment components	
	Trea	tment Activities:	
		This project includes a new water treatment plant.	
		Proposed design capacity (MGD): 0.000	
		This project includes an expansion of an existing water treatment plant.	
		Current design capacity (MGD): 0.000	
		Proposed design capacity (MGD): 0.000	
		This project includes rehabilitation of an existing water treatment plant.	
	$\square$	This project includes upgrades to an existing water treatment plant.	
		This project includes emergency power generators for treatment activities.	
		Number of units provided: 0	
		This project includes redundant treatment processes.	
	Acu	te Public Health Risk:	
		This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.	
	☑	This project includes infrastructure options to meet CT inactivation requirements.	
		This project will enhance the CT capabilities	
	Chro	onic Public Health Risk:	
		This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment pl	ant.
		This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.	
	Sec	ondary Contaminants:	
		This project includes treatment modifications to address Secondary Contaminants.	
	Sec	urity:	
		This project includes security components for water treatment facilities.	
Wate	r Dis	tribution and Storage:	
		This project includes water distribution and/or storage components.	
W	ater l	Line Extensions:	
		This project includes water line extension(s).	
R	edun	dancy Components:	
		This project includes emergency power generators for distribution and/or storage activities.	
		This project includes redundant distribution and/or storage processes	



	Finish	ed Water Quality:	
		This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).	
		This project includes infrastructure to address inability to maintain disinfection residual.	
	Water	Line Replacement:	
		This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead asbestos-cement (AC), and/or inadequately sized water lines.	and/or
	Water	Storage and Pressure Components:	
		This project includes the construction of new water tank(s).	
		This project includes the replacement of existing water tank(s).	
		This project includes the rehabilitation of existing water tank(s).	
		This project includes the construction of new pump station(s).	
		This project includes the rehabilitation of existing pump station(s).	
	Securi	ty:	
		This project includes security components for water distribution infrastructure.	
Su	Green stor and restore infrastructu with policie	Infrastructure - Green Infrastructure:  mwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that as natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, going consists of site and neighborhood-specific practices, such as:	ale, green nds, coupled Ireen
_	D::	Component	Cost
	Bioretenti	on .	\$0 \$0
_	Green Ro	ofs	\$0
		e Pavement	\$0
	Cisterns		\$0
		Total Green Infrastructure Cost:	\$0
	There are	no Green Infrastructure components specified for this project.	



# Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

	Component	Cost	
	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).		\$0
	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).		\$0
	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.		\$0
	Retrofitting/adding AMR capabilities or leak equipment to existing meters.		\$0
	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.		\$0
	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.		\$0
	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).		\$0
	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.		\$0
	Water meter replacement with traditional water meters.*		\$0
	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*		\$0
	Storage tank replacement/rehabilitation to reduce water loss.*		\$0
	New water efficient landscape irrigation system, where there currently is not one.*		\$0
	Total Water Efficiency Cost:		\$0
	* Indicates a business case may be required for this item.		\$0
			\$0
Su	* Indicates a business case may be required for this item.		\$0
Su	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.	ects, use	\$0
Su	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project.	ects, use	\$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:		
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.		\$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.		\$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and		\$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable)		\$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*		\$0 \$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*		\$0 \$0 \$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*		\$0 \$0 \$0 \$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*		\$0 \$0 \$0 \$0 \$0 \$0 \$0
	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*  Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*		\$0 \$0 \$0 \$0 \$0 \$0 \$0
<b>Su</b>	* Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*  Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*  Upgrade of lighting to energy efficient sources.*		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
	*Indicates a business case may be required for this item.  There are no Water Efficiency components specified for this project.  stainable Infrastructure - Energy Efficiency:  Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:  Component  Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.  Utility-owned or publicly-owned renewable energy projects.  Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.  Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*  Pump refurbishment to optimize pump efficiency.*  Projects that result from an energy efficient related assessment.*  Projects that cost effectively eliminate pumps or pumping stations.*  Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*  Upgrade of lighting to energy efficient sources.*  Automated and remote control systems (SCADA) that achieve substantial energy savings.*		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0



# Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	Cost
	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	\$0
	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	\$0
	Source water protection planning (delineation, monitoring, modeling).	\$0
	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	\$0
	Utility sustainability plan consistent with EPA's sustainability policy.	\$0
	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	\$0
	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	\$0
	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	\$0
	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	\$0
	Trenchless or low impact construction technology.*	\$0
	Using recycled materials or re-using materials on-site.*	\$0
	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	\$0
	Projects that achieve the goals/objectives of utility asset management plans.*	\$0
	Total Environmentally Innovative Cost:	\$0
	* Indicates a business case may be required for this item.	
	There are no Environmentally Innovative components specified for this project.	
Su	stainable Infrastructure - Asset Management:	
	If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Singh (Anshu.Singh@ky.gov) for CW projects	Anshu
	Component	
1	Last Rate Adjustment Date: 05-20-2018 Download Fee Schedule	
	Rate Adjustment Age: 0 months	
Sys	stem's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 2.00%	
	The system(s) has a Capital Improvement Plan or similar planning document.	
	The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging deteriorating infrastructure.	and
Pro	piect Status: Approved Date Approved: 12-05-2017 Date Re	vised.



Legal Applicant: Martin County Water District

Project Title: ARC Water System Improvements

Project Number: WX21159006 View Map Submitted By: BSADD
Funding Status: Not Funded Primary County: Martin
Project Status: Approved Planning Unit: Martin
Project Schedule: 0-2 Years Multi-County: No

E-Clearinghouse SAI: KY201708291043 ECH Status: Approved

Applicant Entity Type: Water District (KRS 74) ADD WMC Contact: Jamie Pinson

Date Approved (AWMPC): 12-09-2014

### **Project Description:**

This project involves the replacement of 1,000 water service lines and meters in the Martin County Water District's distribution system. The replacement of customer service lines (from the water main to customer connection at the meter) will primarily be in the Beauty and Warfield area. The District has experienced water loss exceeding 60 percent and recent water loss studies have shown significant water loss in the Beauty & Warfield area is attributed to service line leakage and inaccurate meters. Meters in the area are over 20 years old resulting in under-registering the amount of water passing through the meters. By replacing the service lines and meters, water loss will be reduced and the District will receive the following benefits: lower operating expenses for producing and delivering water; lower operating expenses from leak repairs; increase revenue by accurately billing for all the water passing through the meters

### Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The existing service lines were installed in the 1970s and the material used was greatly inferior to the materials used today. It has been determined through leak detection that most of the water loss in this area is through these service lines and not the main lines. The service lines will be replaced using 1 inch Endot EndoPure SDR 9 Class 200 polyethylene service tubing. The meters in place range from 10 to 30 years old. By replacing them with radio read meters the amount of labor and time it takes the District to read the individual customer meters will be reduced and the readings will be more accurate.

### **Project Alternatives:**

Alternate A:

Replace meters with regular meters.

Alternate B:

Replace service lines when there is a known problem not a large number at one time.

### Legal Applicant:

Entity Type: Water District (KRS 74) PSC Group ID: 25000

Entity Name: Martin County Water District

Web URL:

Office EMail: greg\_scott818@yahoo.com

Office Phone: **606-298-3885** Toll Free: Fax: **606-298-4913** 

Mail Address Line 1: **387 E Main St**Mail Address Line 2: Phys Address Line 2: Phys Address Line 2:

Mail City, State Zip: Inez, KY 41224 Phys City, State Zip: Inez, KY 41224

Contact: Greg Scott Financial Contact: Auth Official: Kelly Calahamn

Contact Title: Interim General Manager Financial Contact Title: Auth Official Title: Judge Executive

Contact EMail: greg\_scott818@yahoo.com Financial Contact EMail: Auth Official EMail: com

Contact Phone: 606-298-3885 Financial Contact Phone: Auth Official Phone: 606-298-2800

Data Source: Kentucky Infrastructure Authority

Date Last Modified: 04.10.2018



WX21159006 - Martin County Water District ARC Water System Improvements

### Project Administrator (PA) Information

Name: Monica Spriggs

Title: Project Administrator

Organization: Big Sandy Area Development District

Address Line 1: 110 Resource Dr

Address Line 2:

City: **Prestonsburg** State: **KY** Zip: **41653** Phone: **606-886-2374** Fax: **606-886-3382** 

### **Applicant Contact (AC) Information**

Name: Greg Scott

Title: Interim General Manager
Organization: Martin County Water District

Address Line 1: HC 69 Box 875

Address Line 2:

City: Inez State: KY Zip: 41224 Phone: 606-298-3885 Fax:

### **Estimated Budget**

Project Cost Categories:	
Cost Category	Cost
Administrative Expenses:	\$ 50,000
Legal Expenses:	
Land, Appraisals, Easements:	
Relocation Expenses & Repayments:	
Planning:	
Engineering Fees - Design:	\$ 70,800
Engineering Fees - Construction:	
Engineering Fees - Inspection:	\$ 58,750
Engineering Fees - Other:	\$ 17,700
Construction:	\$ 906,500
Equipment:	
Miscellaneous:	\$ 5,550
Contingencies:	\$ 90,700
Total Project Cost:	\$ 1,200,000

Construction Cost Categories:	
Cost Category	Cost
Treatment:	
Transmission & Distribution:	\$ 906,500
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized:	
Total ConstructionCost:	\$ 906,500

### **Total Sustainable Infrastructure Costs:**

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

## **Project Funding Sources:**

Total Project Cost: \$1,200,000

Total Committed Funding: \$0

Funding Gap: \$1,200,000 (Not Funded)

☑ This project will be requesting SRF funding for fiscal year 2019.

### **Estimated Project Schedule:**

Est. Environmental Review Submittal Date:

10-10-2017

Estimated Bid Date:

12-15-2017

Estimated Construction Start Date:

02-01-2018

Estimated Construction Completeion Date:

12-31-2018

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)	F16-030	2016	\$2,760,960	Invited	9/16/2015
KIA SRF Fund F Loan (DW)		2017	\$3,599,900	Invited	10/28/2016
KIA SRF Fund F Loan (DW)	F19-034	2019	\$1,200,000	Ranked	4/11/2018
ARC		2017	\$1,200,000	Anticipated	
KIA Fund B Loan		2018	\$289,050	Anticipated	
Total Committed					

### **Funding Source Notes:**



WX21159006 - Martin County Water District ARC Water System Improvements

### The following systems are beneficiaries of this project:

### ✓ KY0800273 Martin County Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:	Plans and specs have been sent to DOW.
Regional Ranking(s):	Plans and specs have been reviewed by DOW.
Planning Unit Ranking:	Plans and specs have been sent to PSC.
Total Points:	Plans and specs have been reviewed by PSC.

### **Economic, Demographic and Geographic Impacts**

Economic Impacts					
Jobs Created:					
Jobs Retained:					

*Demographic Impacts (GIS Census Overlay)							
Servceable Demographic			Included Utilities				
Population:	623	12,186	12,181				
Households:	279	5,098	5,098				
MHI:	\$25,519	\$29,025	*\$29,025				
MHI MOE	\$8,118	\$8,282	*\$8,282				
MOE as Pct:	32%	29.0%	29.0%				
**NSRL:		2	2				

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2012-2016 5Yr Estimates (Table B19013) \*(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

- \*\* NSRL (Non-Standard Rate Levels):
- 0 = Income above Kentucky MHI (KMHI).
- 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$44,811
- 80% KHMI = \$35,849

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service						
Service Demographic	Survey Based	Census Overlay*				
To Unserved Households:						
To Underserved Households:	1,000	279				
To Total Households:	1,000	279				
** Cost Per Household:	\$1,3	200				

<sup>\*</sup> GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

	graphic Impacts r Project Area			
Counties				
Martin				
Legi	slative Districts			
District Name	Legislator			
House 093	Chris Harris			
Senate 31	Ray S. Jones II Hal Rogers			
Congressional 5				
Groundwa	ter Sensitivity Zones			
HUC	10 Watersheds			
HUC Code	Watershed Name			
0507020105	Wolf Creek-Tug Fork			
0507020106	Rockcastle Creek-Tug Fork			

Counties		
Johnson		
Lawrence		
Martin		
Legis	slative Districts	
District No.	Legislator	
District Name	Legislator	
	Chris Harris	
House 093		
House 093 House 096	Chris Harris	
House 093 House 096 House 097	Chris Harris Jill York	
House 093 House 096 House 097 Senate 30 Senate 31	Chris Harris Jill York Scott Wells	

**Geographic Impacts** 



Cost per household is based on surveyed household counts, not GIS overlay values.



W Specifi	c Impa	cts:								
☑ This p	roject rela	ates to a public hea	Ith emergency.							
☑ This project will assist a non-compliant system to achieve compliance.										
☐ This p	☐ This project will assist a compliant system to meet future requirements									
☐ This p	This project will provide assistance not compliance related.									
☑ This p decree		necessary to achiev	e full or partial c	ompliance with a court order, agreed	order, or a ju	udicial or a	dministra	ative consent		
	ry system 2015).	n has not received a	nny SDWA Notice	es of Violation within the previous stat	te fiscal year	-July throu	gh June	, i.e. July 2014	4 –	
Project Inv	entory	(Mapped Feat	ures):							
				Mapped Point Features						
DOW Permit ID	Count	Feature	Гуре	Purpose	Statu		xisting	Proposed Capacity		Units
KY0800273	1	RADIO METER	W	ATER EFF - AMR CAPABILITIES	AMR UPGRA				EA	
				Mapped Line Features						
DOW Permit ID		Line Type	Purpose	Activity		Size (in.)	М	aterial	L	ength (LF)
KY0800273	WATER	LINE: FINISHED	DISTRIBUTION	REHAB - REPLACE UNDERSIZE	ED LINES	6.00		PVC		84,316
KY0800273	WATER	LINE: FINISHED	DISTRIBUTION	REHAB - REPLACE UNDERSIZE	ED LINES	8.00		PVC		9,753
							Tota	al Length		94,069
Admini	strative	e Components	:							
☑ Pla	anning	₽	<b>Design</b>	✓ Construction			Manag	gement		
Regional	lization	Components:								
_										
Public	water	Systems Elimi	nated:							
	this proj	ect includes the elir	nination of public	water system(s) through merger or a	acquisition.					
Water	Treatm	ent Plants Elin	ninated:							
	This pro	ject includes the eli	mination of wate	r treatment plant(s) through interconn	nect(s).					
Supple	ementa	tion of Raw Wa	ater Supply:							
				sting raw water supply.						
Supple		tion of Potable								
	This pro	ject includes supple	ementing the exis	sting potable water supply.						
Emerg	ency O	nly Water Sup	ply:							
_	This are	iost provides emers		cupply						

# Water Source Protection:



	Th	nis project includes land acquisition for water source protection.	
Water 1	reat	tment Components:	
	Th	nis project includes water treatment components	
	Tre	atment Activities:	
		This project includes a new water treatment plant.	
		This project includes an expansion of an existing water treatment plant.	
		This project includes rehabilitation of an existing water treatment plant.	
		This project includes upgrades to an existing water treatment plant.	
		This project includes emergency power generators for treatment activities.	
		This project includes redundant treatment processes.	
	Acı	ute Public Health Risk:	
		This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.	
	Ц	This project includes initiastructure options to meet cryptospondium removal/mactivation requirements.	
		This project includes infrastructure options to meet CT inactivation requirements.	
	Chr	onic Public Health Risk:	
		This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plants and the state of	ant.
		This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.	
	Sec	condary Contaminants:	
		This project includes treatment modifications to address Secondary Contaminants.	
	Sec	curity:	
		This project includes security components for water treatment facilities.	
Wate	r Dis	stribution and Storage:	
V		This project includes water distribution and/or storage components.	
w	ater	Line Extensions:	
		This project includes water line extension(s).	
R	edun	dancy Components:	
		This project includes emergency power generators for distribution and/or storage activities.	
		Number of units provided: 0	
	П	This project includes redundant distribution and/or storage processes	



Finish	hed Water Quality:	
	This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).	
	This project includes infrastructure to address inability to maintain disinfection residual.	
Water	r Line Replacement:	
☑	This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead asbestos-cement (AC), and/or inadequately sized water lines.	and/or
Water	r Storage and Pressure Components:	
	This project includes the construction of new water tank(s).	
	This project includes the replacement of existing water tank(s).	
	This project includes the rehabilitation of existing water tank(s).	
	This project includes the construction of new pump station(s).	
	☐ This project includes new pump stations for boosting pressure .	
	☐ This project includes new pump stations for filling water tanks.	
	This project includes the rehabilitation of existing pump station(s).	
Securi	rity:	
	This project includes security components for water distribution infrastructure.	
Sustainable	e Infrastructure - Green Infrastructure:	
and restore infrastructu with policie	rmwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and the res natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional so ture is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetled its such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, sture consists of site and neighborhood-specific practices, such as:	cale, green ands, coupled
	Component	Cost
Bioretentio	tion	
☐ Trees		
☐ Green Ro		
_	ble Pavement	
☐ Cisterns		**
Thorn	Total Green Infrastructure Cost:	\$0
i nere are	re no Green Infrastructure components specified for this project.	



# Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

	Component	Cost
	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	
	Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	
	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
	Water meter replacement with traditional water meters.*	
×	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	\$675,000
	Storage tank replacement/rehabilitation to reduce water loss.*	
	New water efficient landscape irrigation system, where there currently is not one.*	
	Total Water Efficiency Cost:	\$675,000
	* Indicates a business case may be required for this item.	
	Existing service lines will be replaced. These lines are a source of water loss.	
Su	stainable Infrastructure - Energy Efficiency:	
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water project energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:	cts, use
	Component	Cost
	Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	
	Utility-owned or publicly-owned renewable energy projects.	
	Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	
	Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	
	Pump refurbishment to optimize pump efficiency.*	
	Projects that result from an energy efficient related assessment.*	
	Projects that cost effectively eliminate pumps or pumping stations.*	
	Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	
	Upgrade of lighting to energy efficient sources.*	
	Automated and remote control systems (SCADA) that achieve substantial energy savings.*	
	Total Energy Efficiency Cost:	\$0
-	* Indicates a business case may be required for this item.	· · · · · · · · · · · · · · · · · · ·
	There are no Energy Efficiency components specified for this project.	



# Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	ost
	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	
	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	
	Source water protection planning (delineation, monitoring, modeling).	
	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	
	Utility sustainability plan consistent with EPA's sustainability policy.	
	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	
	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	
	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	
	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	
	Trenchless or low impact construction technology.*	
	Using recycled materials or re-using materials on-site.*	
	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	
	Projects that achieve the goals/objectives of utility asset management plans.*	
	Total Environmentally Innovative Cost:	\$0
	* Indicates a business case may be required for this item.	
	There are no Environmentally Innovative components specified for this project.	
Su	stainable Infrastructure - Asset Management:	
	If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Ansingh (Anshu.Singh@ky.gov) for CW projects	shu
	Component	
1	Last Rate Adjustment Date: 05-20-2018 Download Fee Schedule	
	Rate Adjustment Age: 0 months	
Sys	stem's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 2.00%	
	The system(s) has a Capital Improvement Plan or similar planning document.	
	The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.	
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ro	ject Status: Approved: 12-09-2014 Date Revise	a: