OTIS DOAN, JR., P.S.C.

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RECEIVED

MAR 9 2017

March 7, 2017

Public Service Commission

Hon. John D. Parks, Commission Staff Attorney Kentucky Public Service Commission211 Sower Blvd.P.O. Box 615Frankfort, Kentucky 40602-0615

RE: My Client: Cawood Water District Case No. : 2016-00328

Dear John:

This letter is in regards to the information requested at our telephonic conference on February 9, 2017. Pursuant to your request, please find enclosed a map of the area, that shows our line distributions in Dr. Damaa's community.

Further, since the filing of the complaint we have had a change in management. Mr. Pete Dean who was our Superintendent for a number of years and the Cawood Water District Board had a disagreement as to the course that the Cawood Water District should take in regards to future matters. Mr. Pete Dean has resigned and is no longer employed by the Board. Mr. Chris McClain is now the new manager of the Cawood Water District. I am enclosing a copy of the map, a copy of the report spelling out the desire to the Board. Further, I am attaching a copy of the monthly line loss for 2016. The reports concerning the line break logs are now provided to the Board at each Board meeting. They began this practice in January, 2017. Mr. McClain will making monthly reports to the Board concerning line breaks and the amount of leakage. I am also enclosing a report explaining the leaks and the action taken by the employees of the Board in regards to those leaks. Should you have any questions or comments, please feel free to contact me.

Otis Doan, Jr. Attorney At Law Home Telephone

(606) 573-5155

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Scott Lisenbee Attorney At Law

Home Telephone (606) 573-6146 Sincerely,

Øtis Doan, Jr.

Cc: Dr. Georges Damaa 386 Ready Mix Road Harlan, Kentucky 40831

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Lana Pace, Finance Manager Cawood Water District P.O. Box 429 Cawood, Kentucky 40815

LINE BREAK LOGBOOK

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*Required by 401 KAR 8:150, Section 4(2)

*DATE	12-20-16
*LOCATION OF BREAK	Comp Care :
*TIME IT WAS DISCOVERED	Wioo
*POPULATION AFFECTED	1
*LENGTH OF TIME TO REPAIR	6 hours
*DATE & TIME CL2 RESIDUALS DETECTED	-
*DATE & TIME BACT SAMPLES TAKEN	
TURNED WATER OFF (yes or no)	Y25
BWA REQUIRED (yes or no)	Ye s
OTHER COMMENTS	Blow off Came Off Line

*DATE	1-3-17
*LOCATION OF BREAK	Mary Alice
*TIME IT WAS DISCOVERED	02:00
*POPULATION AFFECTED	337
*LENGTH OF TIME TO REPAIR	7 hours
*DATE & TIME CL2 RESIDUALS DETECTED **	
*DATE & TIME BACT SAMPLES TAKEN	1-10-2017
TURNED WATER OFF (yes or no)	Yes.
BWA REQUIRED (yes or no)	YE 5
OTHER COMMENTS	Hed to Suck Hammer

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LINE BREAK LOGBOOK

*Required by 401 KAR 8:150, Section 4(2)

*DATE "	1-25-17
*LOCATION OF BREAK	Bobs Creek :
*TIME IT WAS DISCOVERED	06:00
*POPULATION AFFECTED	400 est
*LENGTH OF TIME TO REPAIR	5 hours
*DATE & TIME CL2 RESIDUALS DETECTED	9-3F-78
*DATE & TIME BACT SAMPLES TAKEN	1-31-17
TURNED WATER OFF (yes or no)	YES
BWA REQUIRED (yes or no)	Ye5
OTHER COMMENTS	}

[
*DATE	
*LOCATION OF BREAK	
*TIME IT WAS DISCOVERED	
*POPULATION AFFECTED	
*LENGTH OF TIME TO REPAIR	
*DATE & TIME CL2 RESIDUALS DETECTED *	
*DATE & TIME BACT SAMPLES TAKEN	
TURNED WATER OFF (yes or no)	
BWA REQUIRED (yes or no)	
OTHER COMMENTS	

8/1/2016 8" MAIN LINE CHEVROLET

Very deep, took long time took approximately 16' deep and under rock, location and repair took 12 hours then boil water for 72 hours.

8/13/2016 8" MAIN BOB'S CREEK

3 hours Sat. 7:30am – 11:00am no boil water able to fix "hot" only affected highest elevated customers

10/10/2016 8" MAIN BOB'S CREEK

6 hours plus boil water, had to jack hammer rock all around cliff line, affected customers from Cawood to Grays Knob.

11/21/2016 8" MAIN LINE FROM TANK CAWOOD

10:30am – 4:00pm plus boil water, fire hydrant ran over by automobile, affected Cawood to end of system line

11/28/2016 2" LINE GRAYS KNOB

PRV burst, affected 1 customer (a business), off for 2 days had to order parts ordered in on rush

12/4/2016 8" MAIN WAMPUS CREEK

Split in line pipe approximately 12 ft. long, water loss to appox 60 customers for 4 hours and boil water to customers from Wampus Creek to end of line

DATE	LOCATION	PIPE		WORKERS		TIME	EST	EST	
		SIZE	TIME	CALLED IN?	TIME	WATER	WATER	NO.	COMMENTS
			NOTIFIED	ŤÍME	COMPLETED	BACK ON	LOSS	AFFECTED	COMMENTS
								AILCIED	
	-			+					
	,	+		•					
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		<u>├</u> ───── <u></u>				·			
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				•					
								····	

	Monthly Wa	er Use Report
3		PWSID: ky0480565
ər Utility: •	CAWOOD WATER DISTRIC	
the Month	of: jan	Year: 2016
	ODUCTION COST PER THOUSAND	(insert cost) \$2.75
1 PR 2 PU	RCHASE COST PER THOUSAND	GALLONS
x		
WA	TER PRODUCED or PURCHASED	<u>12,658,466</u> 100% 0 0%
3 Wa	ater Produced	\$0.00
	ater Purchased	UCED AND FORGIAGED
5	TOTAL COS	r #VALUE!
6W	ATER SOLD	6,206,484
	esidential	0
8 Co	ommercial	0
a in	dustrial	0
	ulk Loading Stations	0
• •	/holesale hther Sales (explain)	
12 O		TOTAL WATER SOLD 6,206,484 49.03%
13	-	TOTAL WATER SOLD 6,451,982 50.97%
14		UTAL WATER (
		85,000
B	BREAKDOWN OF WATER USAGE	85,000
15 V	Vater Treatment Plant	24,360
16 V	Nastewater Treatment Plant	150
17 S	System Flushing	
18 F	Fire Department Usage	
19 (Other Usage (explain)	TOTAL USAGE 109,510
		TOTAL USAGE 100,010 LOSS PERCENTAGE FOR RATE PURPOSES 50.10%
20	WATER	
21	BREAKDOWN OF WATER LOST	381,398
	Took Overflows	2,719,759
	E convotion Breaks	<u>2,719,735</u> 3,241,315 25.61 %
23 24	Denaired Line Breaks	
24 25	Linknown Loss	6,342,472
25	TOTAL	VATER NOT SOLD OR USED 6,342,472 #VALUE!
26	COSTOF	VATER NOT SOLD OK COLO #VALUE! NATER NOT SOLD OR USED #VALUE!
20 27		
21	"UNKNOWN LOSS" FLOW RATE	AND COST: "Unknown Loss" 3,241,310 "Unknown Loss" 25.61%
	TUNKNOWN LOSS" FLOW	% "Unknown Loss" 25.0175
28		% "Unknown Deriod 55 Number of Days in Period 108,044 (Callons per Day) 75,03
20 29		Number of Days III P Chool 108,044 Loss" per Day (Gallons per Day) 75.03 Joknown Loss" per Minute (GPM) #VALUE!
30	"Unknown	Loss" per Day (Gallons per Day) 75.03 Inknown Loss" per Minute (GPM) #VALUE!
31	"u	Jnknown Loss" per Minute (Oracian #VALUE! "Unknown Loss" Cost for Month #VALUE!
32		
33		Kentucky Rural Water Association
		Keinacht

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	4	<u>N</u>	ionthly Wate	<u>r Use Report</u>		
Water I	Utility:	cawood wate	r	PWSID	480565	J
For the	Month of:	feb		Year:	2016	
1	PRODUC	TION COST PE	R THOUSAND	(insert cost)	<u></u>	l
2		SE COST PER		(insert cost)	\$2.75	
	WATER	RODUCED or I	URCHASED		GALLONS	
3	Water Pro		ONONADED	•	12,080,965	100%
4	Water Pur	chased		\$0.00	12,000,900	0%
5			TOTAL PRODUCE	D AND PURCHASED	12,080,965	070
6			TOTAL COST	#VALUE!		
	WATER S					
7 8	Residentia				4,677,626	
о 9	Commerci Industrial	aı			0	
10		ing Stations			0	
11	Wholesale				0	
12	Other Sale			4	0	
		· · · · <u></u>		1	0	
13				OTAL WATER SOLD	4,677,626	38.72%
14	<u> </u>		TOTAL	WATER NOT SOLD	7,403,339	<u>61.28%</u>
		WN OF WATER				
15		atment Plant	(USAGE	F		
16		r Treatment Pla	nt	4	65,280	
17	System Flu			-	21,000	
18	•	ment Usage		F	350	
19	Other Usag			F	000	
20				TOTAL USAGE	86,630	
21	PPEAKDO	WN OF WATER		PERCENTAGE FOR R	ATE PURPOSES	60.56%
22	Tank Overf		(LUS)	F		
23	Excavation			+	0	
24	Repaired Li				2,030,000	
25	Unknown Lo			L	5,286,709	43.76%
					0,200,700	
26				OT SOLD OR USED	7,316,709	
27		C	DST OF WATER N	OT SOLD OR USED	#VALUE!	
	"UNKNOW!		RATE AND COST			
28		TEVUS FEVW	INATE AND COST	: "Unknown Loss"	5 296 700	
29				% "Unknown Loss"	5,286,709 43.76%	
30			Numt	per of Days in Period	43.76%	
31		"Un	known Loss" per Da	ay (Gallons per Day)	182,300	
32			"Unknown Los	s" per Minute (GPM)	126.60	
33]		"Unknown L	oss" Cost for Month	#VALUE!	
	L	· · · · · · · · · · · · · · · · · · ·				

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r U	tility:	CAWOOD	WATER DISTRICT	PWSID	: ky0480565	
he l	Month of:	march]	Year:	2016	
1 2			PER THOUSAND ER THOUSAND	inser.cosi	\$2.75	
					GALLONS	
~			or PURCHASED			
3	Water Pro				12,599,226	100%
4	Water Pu	Ircnased	\$0.00		0	0%
5 6			TOTAL PRODUCED AN TOTAL COST #VAL		12,599,226	
	WATER	,				
7	Residenti				6,216,908	
8	Commerc				0	
9 10					0	
10 11		ling Stations		•	<u>`</u> 0	
12	Wholesal	e es (explain)			0	
13	كمت		······································		·Y	
13 14				WATER SOLD	6,216,908	49.34%
	<u> </u>		IUIAL WA	ER NOT SOLD	6,382,318	50.66%
	BREAKD	own of w/	TER USAGE			
5	Water Tre	atment Plani		1	0	
6		er Treatment	Plant			
7 ·	System Fl				24,429	
8		rtment Usage	•		350	
9	Other Usa	ige (explain)				
20			т	OTAL USAGE	24,779	
1			WATER LOSS PERC	ENTAGE FOR R		50.46%
		OWN OF W/	TER LOST			
2	Tank Over			• [0	
3	Excavation		v *.	[2,341	
4		ine Breaks		[3,306,493	
5	Unknown I	LOSS		_	3,048,705	24.20%
5			TOTAL WATER NOT SO		6,357,539	
7			COST OF WATER NOT SO	OLD OR USED	#VALUE!	
	"UNKNOW	N LOSS" FI	OW RATE AND COST:			
				Jnknown Loss"	3,048,705	
				Jnknown Loss"	24.20%	<i>:•</i>
5				Days in Period	31	
			"Unknown Loss" per Day (G	allons per Dav)	98,345	
2			"Unknown Loss" per	Minute (GPM)	68.30	
3			"Unknown Loss"		#VALUE!	
		2				

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	· · ·		Monthly Wat	ter Use Re	port		
Water	Utility:	cawood w	ater	·	DWOID		-
Forth					PVVSID	: 480565]
FORT	e Month of:	april			Year:	2016	ר
1	PRODUCT	TION COST	PER THOUSAND				-
2	PURCHAS	SE COST PE	R THOUSAND		(insert cost]
						\$2.75	}
	WATER P	PODUCED	or PURCHASED			GALLONS	
3	Water Proc	duced	or PURCHASED				
4	Water Purc			\$0.00		11,856,185	100%
5			TOTAL PRODU			0	0%
6			TOTAL COST	#VALUE!	HASED	11,856,185	
7	WATER SC	DLD					
7	Residential				j	5,339,625	
8 9	Commercia	I				0,339,625	
9 10	Industrial Bulk Loadin	- 01 //				0	
11	Bulk Loadin Wholesale	g Stations			ţ	0	
12	Other Sales	(evolain)			ľ	0	
	other bales	(explain) -			[0	
13				TOTAL MAATE			
14			ТОТ	TOTAL WATER		5,339,625	45.04%
	<u></u>			LE WATER NOT	SOLD	6,516,560	<u>54.96%</u>
. –	BREAKDOV	VN OF WAT	ER USAGE				
15	Water Treatr				Г	75.000	
16 17	Wastewater	Treatment P	lant			75,000	
17 18	System Flush	hing				55,180	
19	Fire Departm	ient Usage			- F	28,500	
10	Other Usage	(explain)		<u>{</u>			
20				TOTAL			
21			WATERLOSS	TOTAL U	SAGE	158,680	
	BREAKDOW	N OF WATE	RLOST	FERCENTAGE	FURRA	TE PURPOSES	53.63%
22	I ank Overflow	NS ,			– –		
23	Excavation Br	reaks				45,000	
24	Repaired Line	Breaks				63,879 3,376,313	
25	Unknown Los	s			L	2,872,688	24.23%
26						2,072,000	24.23/0
27			TOTAL WATER	OT SOLD OR I	USED	6,357,880	
		(OST OF WATER N	IOT SOLD OR L	JSED	#VALUE!	_
	UNKNOWN I	OSS" EL OV	WRATE AND COS				
28			TINATE AND COS				
29				"Unknown I % "Unknown I	LOSS"	2,872,688	
30 🕔			Num	ber of Days in P		24.23%	
31		"U	nknown Loss" per D	av (Gallons per		30	
32			"Unknown Los	s" per Minute (G	Day)	95,756	
33			"Unknown	Loss" Cost for M	ionth	66.50 #VALUE!	
Ĺ							

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	ky0480565	ility: CAWOOD WATER DISTRICT/PATHFORK PWSID:	Water Uti
	2016	Ionth of: may Year:	For the N
		PRODUCTION COST PER THOUSAND (insert cost)	1
	\$0.00	PURCHASE COST PER THOUSAND	2
	GALLONS	· · · · · · · · · · · · · · · · · · ·	
		WATER PRODUCED or PURCHASED	
1009	12,134,662	Water Produced	3
09	0	Water Purchased \$0.00	4
	12,134,662	TOTAL PRODUCED AND PURCHASED	5
		TOTAL COST #VALUE!	6
	5 444 0051	WATER SOLD	_
	5,414,965	Residential	7
		Commercial	8
	0	Industrial	9
		Bulk Loading Stations	10
	0	Wholesale	11
	0	Other Sales (explain)	12
44.62%	5,414,965	TOTAL WATER SOLD	13
55.38%	6,719,697	TOTAL WATER NOT SOLD	14
		BREAKDOWN OF WATER USAGE	
	584,105	Water Treatment Plant	15
		Wastewater Treatment Plant	16
	245,390	System Flushing	10
	350	Fire Department Usage	18
		Other Usage (explain)	19
	829,845	TOTAL USAGE	20
48.54%	ATE PURPOSES	WATER LOSS PERCENTAGE FOR R	21
	······································	BREAKDOWN OF WATER LOST	
	380,000	Tank Overflows	22
	0	Excavation Breaks	23
	315,049	Repaired Line Breaks	24
42.81%	5,194,803	Unknown Loss	25
	5,889,852	TOTAL WATER NOT SOLD OR USED	26
	#VALUE!	COST OF WATER NOT SOLD OR USED	27
	5 404 000	"UNKNOWN LOSS" FLOW RATE AND COST:	
	5,194,803 42.81%	"Unknown Loss"	28
	A7 X1%	% "Unknown Loss"	29 -
	31	Number of Days in Period	30
	<u>31</u> 167,574	Number of Days in Period "Unknown Loss" per Day (Gallons per Day)	31
	31	Number of Days in Period	

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	•		<u>Monthly</u>	<u>Wate</u>	<u>r Use Re</u>	port		
Water	Utility:	cawood wa	iter			PWSID:	480565	Г
For the	e Month of:	iune	1					
i or un		june				Year:	2016]
1	PRODUC	TION COST	PER THOUS	SAND		(insert cost)		7
2	PURCHA	SE COST PE	R THOUSA	ND		(insert cost)	\$2.75	1
								1
		RODUCED	r PURCHAS	SED			GALLONS	
3	Water Pro						11,731,721	100%
4 5	Water Pur	chased			\$0.00		0	0%
5 6			TOTAL P		D AND PUR	CHASED	11,731,721	
	WATER S		TOTAL	COST	#VALUE!			
7	Residentia					-		
8	Commerci	-				ļ	6,692,858	
9	Industrial					Ļ	0	
10		ng Stations				ļ	0	
11	Wholesale					ŀ	0	
12	Other Sale					ŀ	0	
		(<u> </u>		0	
13				т	OTAL WATE	RSOLD	6,692,858	57 05%
14					WATER NO		5,038,863	57.05% 42.95%
								1210070
45		WN OF WAT	ER USAGE					
15 16		itment Plant				Γ	85,000	
17		r Treatment P	lant					
18	System Flu	ment Usage				L	15,000	
19	Other Usag						350	
10	Cirici Usay		· · · · · · · · · · · · · · · · · · ·]	
20					TOTAL		100.050	
21			WATE	R LOSS P			100,350 TE PURPOSES	19 1991
,	BREAKDO	WN OF WAT	ER LOST				IL FURFUSES	42.10%
22	Tank Overfl	ows	- •			Г	0	
23	Excavation					├	0	÷
24	Repaired Lir	ne Breaks					250,000	
25	Unknown Lo	SS				L	4,688,513	39.96%
26							, ,- , -	20.00/0
20 27				ATER NO	T SOLD OF	USED	4,938,513	
			JUST OF W	ATER NO	T SOLD OR	USED	#VALUE!	
	"UNKNOWN	LOSS" FLO						
28				רו 2021:		- "		
29	ł				"Unknowi % "Unknowi		4,688,513	
30				∖ Numb	% Unknown er of Days in		39.96%	
31		"ل	Inknown Los	ss" per Da	y (Gallons pe		30	
32	1	_	"Unkr	iown Loss	" per Minute	(GPM)	156,284 108.53	
33	8		- "U	nknown Lo	oss" Cost for	Month	#VALUE!	
	L						<i>" •/ (LUL)</i>	

			ionthly Water L	Jae Kepult		
Water	Utility:	cawood water	r	PWSID	480565	1
For the	e Month of:	july				1
				Year:	2016	
1	PRODUCT	TION COST PE	R THOUSAND	(insert cost)		
2	PURCHAS	SE COST PER T	HOUSAND	(insent cost)	\$2.75	
					φ2.75	
	WATER P	RODUCED or P			GALLONS	
3	Water Proc	fuced	OKCHASED			
4	Water Purc		\$0.	00	11,376,033	100
5		7	TOTAL PRODUCED		0	, OS
6			TOTAL COST #V	ALUE!	11,376,033	
7	WATER SC	DLD				
7 8	Residential		·	Г	6,491,961	
9	Commercia Industrial	1		ŀ	0	
10	Bulk Loadin	a Stations		ľ	0	
11	Wholesale	y oralions			. 0	
12	Other Sales	(explain)			0	
		(0	
13			тот	AL WATER SOLD	0.404.004	
14			TOTAL W	ATER NOT SOLD	6,491,961 4,884,072	57.07% 42.93%
15 16 17 18 19	Water Treatr Wastewater System Flusl Fire Departm Other Usage	Treatment Plant hing lent Usage	· · · · · · · · · · · · · · · · · · ·		60,000 25,000 350	
20				TOTAL USAGE		
21			WATER LOSS PER		85,350	
	BREAKDOW	N OF WATER	LOST	ENTAGE FUR RA	IE PURPOSES	42.18%
22	I ank Overflov	NS		г - -		
23 24	Excavation Br				0	
24 25	Repaired Line Unknown Los	Breaks		├ ─	15,000	
20	UNKNOWN LUS	5				42.05%
26		т				
27		COS	OTAL WATER NOT S		4,798,722	
				ULD OK USED	#VALUE!	
	"UNKNOWN I	OSS" FLOW R	ATE AND COST:			
28				Unknown Loss"	1 702 700	
29 30			% "	Unknown Loss"	4,783,722 42.05%	
30 31			Number of	Davs in Period	42.03 /8	
<u> </u>		"Unkn	own Loss" per Day (G	allons per Day)	154,314	
32						
32 33			"Unknown Loss" pe "Unknown Loss"	Minute (GPM)	107.16 #VALUE!	

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Kentucky Rural Water Association

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		,		Monthly Wa	<u>ter Use Rep</u>	<u>port</u>		
•	Water	Utility:	CAWOOD	WATER DISTRICT	/MAZ2100 RAK	PWSID	: ky0480565]
	For the	e Month of:	aug			Year:	2016	•
	1	PRODUC [.]	TION COST	PER THOUSAND		(in a set of the set		
	2	PURCHAS	SE COST PE	ER THOUSAND		(insert cost) (insert cost)		
							GALLONS	
	3	WATER P		or PURCHASED				
	4	Water Pure					9,115,675	83%
	5		haseu				1,839,000	17%
=	6			TOTAL COST	CED AND PURC #VALUE!	CHASED	10,954,675	
	7	WATER SC						
	8	Residential				· · [4,275,999	
	9	Commercia Industrial	IJ				0	
	10	Bulk Loadin	a Stationa			[0	
	11	Wholesale	ig Stations			[0	
	12	Other Sales	(evolain)				0	
							0	
	13				TOTAL WATER		4 975 000	00 000
=	14			тот	AL WATER NOT		4,275,999 6,678,676	39.03%
							0,070,070	<u>60.97%</u>
		BREAKDO	NN OF WAT	ER USAGE				
	15	Water Treat				Г		
	16	Wastewater		Plant				
	17	System Flus	hing				637,927	
	18 19	Fire Departn	nent Usage				350	
	19	Other Usage	e (explain)	/				
,	20				TOTAL U	ISAGE	638,277	
	21			WATER LOSS			TE PURPOSES	55.14%
		BREAKDO	VN OF WAT	ER LOST				00.1470
	22	Tank Overflo	ws			Г		
	23	Excavation B					2,598,845	
	24	Repaired Line	e Breaks			-		
	25	Unknown Los	SS			L	3,441,554	31.42%
	26							
	27			TOTAL WATER COST OF WATER	NOT SOLD OR		6,040,399	
					NOT SOLD OK	USED	#VALUE!	
		"UNKNOWN	LOSS" FLC	W RATE AND COS	ST.			
	28 <u></u>				"Unknown	Lose"	2 444 664	
	29	1			% "Unknown		3,441,554 31.42%	
	30	1		Nur	mber of Davs in F	Period	31.42%	
	31		יי	Unknown Loss" per	Day (Gallons per	Day)	111,018	
	32			"Unknown Lo	oss" per Minute (0	GPM)	77.10	
	33			"Unknowr	Loss" Cost for N	Nonth	#VALUE!	
			·					

	,	:	Monthly Wa	<u>ter Use Re</u>	port		
Water L	Jtility:	cawood wat	ter	, 	PWSID	: ky0480565	
For the	Month of:	sept		,	Year:	2016	
1	PRODUC	TION COST P	ER THOUSAND		(insert cost	, 	
2	PURCHA	SE COST PER	THOUSAND		(insert cost		
	WATED	PRODUCED	PURCHASED			GALLONS	,
3	Water Pro	oduced	PURCHASED			40.000.055	-
4	Water Pu					10,802,355	82%
5			TOTAL PRODU			2,405,000	18%
6			TOTAL COST	#VALUE!		10,207,000	
	WATER S						
7	Residentia					6,448,402	
8	Commerc	ial			1	0	
9	Industrial					0	
10		ing Stations				0	
11 12	Wholesale					0	
12	Other Sale	es (explain)				0	
13				TOTAL MATE		6 440 400	40.000/
14			тот	TOTAL WATE		6,448,402 6,758,953	48.82% 51.18%
15 16 17 18 19	Water Trea Wastewate System Flu Fire Depar	DWN OF WATE atment Plant er Treatment Pl ushing tment Usage ge (explain)				400,560 364,000 350	
20				TOTAL	USAGE	764,910	
21				S PERCENTAG	E FOR R	ATE PURPOSES	45.38%
		OWN OF WATE	ERLOST			······································	
22	Tank Over				Ĺ		
23 24	Excavation Repaired				Ļ	0	
24 25	Repaired L Unknown L				L	796,270	
20		.055	'n			5,197,773	39.36%
26			TOTAL WATER			5,994,043	
27			COST OF WATER			#VALUE!	
í	· · ·			<u> </u>	<u></u>		
	"UNKNOW	N LOSS" FLO	W RATE AND CO	ST:	<u> </u>		
28				"Unknow		5,197,773	
29				% "Unknow		39.36%	
30 /				Imber of Days ir		30	
31 32		"ປ	Inknown Loss" per			173,259	
32 33				oss" per Minute		120.32	
00				n Loss" Cost fo		#VALUE!	

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	•	` !	Monthly Wat	er Use Re	port		
Water Uti	lity:	cawood wat	er] PWSID:	480565	
For the M	onth of:	oct			Year:	2016	
1 2		TION COST P SE COST PER	ER THOUSAND		(insert cost)	\$2.75	
						GALLONS	
			PURCHASED			·····	
3	Water Pro					12,163,511	100%
4	Water Pur	rchased		\$0.00			0%
5			TOTAL PRODU		RCHASED	12,163,511	
6			TOTAL COST	#VALUE!			<u></u>
7 .	WATER S					5,113,366	ì
7 · · · 8	Residentia Commerc					3,113,300	
o 9	Industrial	idi				0	
9 10		ing Stations					
10	Wholesale	-				0	
12		- es (explain)				0	
	ouro. our	, (explain)					
13				TOTAL WA	TER SOLD	5,113,366	42.04%
14			TO	TAL WATER N	NOT SOLD	7,050,145	57.96%
	BREAKD	DWN OF WAT	ER USAGE				
15	Water Tre	atment Plant				25,250	
16	Wastewat	er Treatment F	Plant				
17	System FI	ushing				10,000	
18	Fire Depar	rtment Usage				350	
19	Other Usa	ge (explain)					
20					L USAGE		# 5 A20 /
21				SS PERCENT	AGE FOR I	RATE PURPOSES	57.67%
		OWN OF WAT	FER LOST				
22	Tank Over					0	
23	Excavation					35,000	
24 25	•	Line Breaks				6,979,545	57.38%
25	Unknown	LOSS				0,979,040	07.0070
26			TOTAL WATE		OR USED	7,014,545	
20			COST OF WATE			#VALUE!	
	"UNKNOV	VN LOSS" FL	OW RATE AND C	OST:			
28					nown Loss"	6,979,545	
29					nown Loss"	57.38%	
30			Ν	lumber of Day			
31			"Unknown Loss" p			225,147	
32				Loss" per Min		156.35	
33				wn Loss" Cos		#VALUE!	

Water Utility: CAWOOD WATER DISTRICT PWSID: ky0480565 For the Month of: nov Year: 2016 1 PRODUCTION COST PER THOUSAND (insert cost)
1 PRODUCTION COST PER THOUSAND (insert cost) 2 PURCHASE COST PER THOUSAND (insert cost) 3 WATER PRODUCED or PURCHASED GALLONS 4 Water Produced 11,667,372 99 4 Water Purchased 1130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 99 6 TOTAL COST #VALUE! 11,797,372 99 7 Residential 6,287,050 11,797,372 6 7 Residential 6,287,050 11,797,372 1 9 Industrial 6,287,050 1 1 1 10 Bulk Loading Stations 1
2 PURCHASE COST PER THOUSAND (insert cost) GALLONS 3 Water Produced 11,667,372 99 4 Water Purchased 130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 1 6 TOTAL COST #VALUE! #VATER SOLD 6,287,050 7 Residential 6,287,050 6,287,050 6 9 Industrial 6,287,050 6 53,294 10 Bulk Loading Stations 11 6,287,050 53,294 11 Wholesale 11 5,510,322 46,714 13 TOTAL WATER SOLD 6,287,050 53,294 14 TOTAL WATER NOT SOLD 5,510,322 46,714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 11 12 23,610
2 PURCHASE COST PER THOUSAND (insert cost) GALLONS WATER PRODUCED or PURCHASED GALLONS 3 Water Produced 11,667,372 99 4 Water Purchased 130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 1 6 TOTAL COST #VALUE! 11,797,372 1 WATER SOLD 6,287,050 6,287,050 6,287,050 9 Industrial 6,287,050 6,287,050 1 10 Bulk Loading Stations 1 1 6,287,050 53,294 11 Wholesale 1 1 6,287,050 53,294 12 Other Sales (explain) 1 6,287,050 53,294 13 TOTAL WATER SOLD 6,287,050 53,294 14 TOTAL WATER NOT SOLD 5,510,322 46,714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 23,610 16 Wastewater Treatment Plant 23,610
WATER PRODUCED or PURCHASED 3 Water Produced 11,667,372 99 4 Water Purchased 130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 1 6 TOTAL COST #VALUE! 11,797,372 1 7 Residential 6,287,050 6 6 6 6 6 6 6 6 6 6 7 Residential 6 6 6 287,050 6 1 1 7 8 6 287,050 6 287,050 53.290 1
3 Water Produced 11,667,372 99 4 Water Purchased 130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 1 6 TOTAL COST #VALUE! 11,797,372 1 WATER SOLD 7 Residential 6,287,050 8 Commercial 6 6,287,050 9 Industrial 6 6 6 10 Bulk Loading Stations 6 6 6 6 11 Wholesale 6 6 5 53.294 12 Other Sales (explain) 6 6 5 53.294 13 TOTAL WATER SOLD 6 6 6 53.294 14 TOTAL WATER NOT SOLD 5 53.294 46.714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 23,610 23,610 16 Wastewater Treatment Plant 23,610 23,610
4 Water Purchased 130,000 1 5 TOTAL PRODUCED AND PURCHASED 11,797,372 1 6 TOTAL COST #VALUE! 11,797,372 1 WATER SOLD 7 Residential 6,287,050 6 6 6 1
5 TOTAL PRODUCED AND PURCHASED 11,797,372 6 TOTAL COST #VALUE! 11,797,372 WATER SOLD 7 Residential 6,287,050 8 Commercial 6 9 Industrial 6 10 Bulk Loading Stations 6 11 Wholesale 6 12 Other Sales (explain) 6 13 TOTAL WATER SOLD 6,287,050 14 TOTAL WATER NOT SOLD 5,510,322 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant
6 TOTAL COST #VALUE! WATER SOLD 6,287,050 7 Residential 6,287,050 8 Commercial 6,287,050 9 Industrial 6 10 Bulk Loading Stations 6 11 Wholesale 6 12 Other Sales (explain) 6 13 TOTAL WATER SOLD 6,287,050 14 TOTAL WATER NOT SOLD 5,510,322 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant
7 Residential 6,287,050 8 Commercial
8 Commercial 9 Industrial 10 Bulk Loading Stations 11 Wholesale 12 Other Sales (explain) 13 TOTAL WATER SOLD 14 6,287,050 53.290 14 TOTAL WATER NOT SOLD 6,287,050 53.290 14 TOTAL WATER NOT SOLD 5,510,322 46.710 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
9 Industrial 10 Bulk Loading Stations 11 Wholesale 12 Other Sales (explain) 13 TOTAL WATER SOLD 14 TOTAL WATER NOT SOLD 5,510,322 46.714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
10 Bulk Loading Stations 11 Wholesale 12 Other Sales (explain) 13 TOTAL WATER SOLD 14 TOTAL WATER NOT SOLD 14 TOTAL WATER NOT SOLD 6,287,050 53.290 14 TOTAL WATER NOT SOLD 6,287,050 53.290 14 TOTAL WATER NOT SOLD 5,510,322 46.714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
11 Wholesale 12 Other Sales (explain) 13 TOTAL WATER SOLD 14 TOTAL WATER NOT SOLD 14 TOTAL WATER NOT SOLD 6,287,050 53.294 14 TOTAL WATER NOT SOLD 6,287,050 53.294 5,510,322 46.714 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
12 Other Sales (explain)
13 TOTAL WATER SOLD 6,287,050 53.290 14 TOTAL WATER NOT SOLD 5,510,322 46.719 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant
14 TOTAL WATER NOT SOLD 5,510,322 46.719 BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
BREAKDOWN OF WATER USAGE 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing
16 Wastewater Treatment Plant 17 System Flushing 23,610
17 System Flushing 23,610
· · · · · · · · · · · · · · · · · · ·
19 Other Usage (explain)
20 TOTAL USAGE 23,960
21 WATER LOSS PERCENTAGE FOR RATE PURPOSES 46.50%
BREAKDOWN OF WATER LOST
22 Tank Overflows
23 Excavation Breaks
24 Repaired Line Breaks 2,106,306
25 Unknown Loss 3,380,056 28.65 9
26TOTAL WATER NOT SOLD OR USED5,486,362
27 COST OF WATER NOT SOLD OR USED #VALUE!
"UNKNOWN LOSS" FLOW RATE AND COST:
28 "Unknown Loss" 3,380,056 29 % "Unknown Loss" 28.65%
30 Number of Days in Period 30
31 "Unknown Loss" per Day (Gallons per Day) 112,669
32 "Unknown Loss" per Day (Galions per Day) 78.24
33 "Unknown Loss" Cost for Month #VALUE!

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	Utility:	cawood w	ater		DWOID		
For the	Month of:				rvvsid	: ky0480565	
		dec			Year:	2016	
1	PRODUC.		PER THOUSAND		···	2010]
2	PURCHAS	SE COST PE	R THOUSAND	i i	(insert cost))	7
			K THOUSAND			\$2.7	5
	WATER P	RODUCED	r PURCHASED		_	GALLON	8
3	Water Proc	duced	r PURCHASED	-			
4	Water Purc	chased		60 077		12,443,396	78%
5				\$9,377.50		3,410,000	
6			TOTAL PRODUC TOTAL COST		HASED	15,853,396	
	WATER SC			#VALUE!			
. 7	Residential				-		
8	Commercia	l ·			L	6,820,743]
9	Industrial				Ļ		
10	Bulk Loadin	g Stations			H	0	
11	Wholesale				-	0	l
12	Other Sales	(explain)			F	0	
13						0	
13				TOTAL WATER	SOLD	6,820,743	40.0004
			TOTA	L WATER NOT	SOLD	9,032,653	43.02% 56.98%
	BREAKDON					0,002,000	00.30%
15	BREAKDOW Water Treatr	NOT WATE	RUSAGE				
16	Wastewater	Treatment D			Г	0	
17	System Flush	ncament Pla	ant				
18	Fire Departm	ent lissoo				60,000	
19	Other Usage	(explain)				350	
		(ovhight)					
20				TOTAL			
21			WATERIOS	TOTAL US	SAGE	60,350	
ľ,	BREAKDOW	N OF WATE	RLOST	CRUENTAGE	FOR RAT	60,350	56.60%
~~	Tank Overflov	VS					
23	Excavation Br					0	
	Repaired Line	Breaks				0	
24					1	3,740,612	
24	Unknown Loss	6					
24 25 (Unknown Loss	6				5,231,691	33.00%
24 25 26	Unknown Loss	.	TOTAL WATER N		SED	5,231,691	33.00%
24 25 (Unknown Loss	.	TOTAL WATER N OST OF WATER N	OT SOLD OR U OT SOLD OR U	SED	5,231,691 8,972,303	33.00%
24 25 26 27	Unknown Loss	C(OST OF WATER N	OT SOLD OR U	SED SED	5,231,691	33.00%
24 25 26 27	Unknown Loss	C(OST OF WATER N	OT SOLD OR U	SED SED	5,231,691 8,972,303	33.00%
24 25 26 27 8 ["	Unknown Loss	C(TOTAL WATER N OST OF WATER N RATE AND COST	OT SOLD OR U	SED	5,231,691 8,972,303 #VALUE!	33.00%
24 25 26 27 8 9 	Unknown Loss	C(RATE AND COST	OT SOLD OR U : "Unknown L % "Unknown L	SED	5,231,691 8,972,303 #VALUE! 5,231,691	33.00%
24 25 26 27 8 9 0	Unknown Loss	Coss" FLOW	RATE AND COST	OT SOLD OR U : "Unknown L % "Unknown L per of Days in Bo	SED oss" oss"	5,231,691 8,972,303 #VALUE! 5,231,691 33.00%	33.00%
24 25 27 8 9 0 1.	Unknown Loss	Coss" FLOW	RATE AND COST RATE AND COST Numb known Loss" per Da	OT SOLD OR U "Unknown L % "Unknown L ber of Days in Pe av (Gallons per I	SED oss" oss" priod	5,231,691 8,972,303 #VALUE! 5,231,691 33.00% 31	33.00%
24 25 26 27 8 9 0	Unknown Loss	Coss" FLOW	V RATE AND COST Numb known Loss" per Da "Unknown Loss	OT SOLD OR U : "Unknown L % "Unknown L per of Days in Bo	SED oss" oss" eriod Day) PM)	5,231,691 8,972,303 #VALUE! 5,231,691 33.00%	33.00%