CASE NO. 2020-00220 EAST LOGAN WATER DISTRICT, INC. RESPONSE TO COMMISSION STAFF'S INITIAL REQUEST FOR INFORMATION

1. Provide East Logan District's monthly unaccounted for water loss percentage

reports with the underlying data intact for the most recent 48 months.

RESPONSE: Please see attached Monthly Water Loss Reports.

WITNESS: Linda Alexander

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Monthly Water Loss Report

	Water Company:	East Loga	an Water District		
	For the Month of:	October	Year: 2016		
	Produced this month:		gallons		
vvater f	Purchased this month:		17,993,000 gallons		
A: Total Wa	ter Produced and Purchased =		17,993,000 gallons		
Sold:	Residential Commercial Water Salesman		14,378,300 gallons gallons gallons		
Total S	old =		14,378,300 gallons		
B: Differen	ce: (Produced+Purchased) - So	ld =	3,614,700 gallons		
% Diffe	rence =		20 % total water loss		
Gallons	s of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plant U Fire Department Use Net Computer Adjustment + / - Other		10,000gallons26,700gallonsgallonsgallons0gallons0gallons0gallons0gallons0gallons0gallons0gallons0gallons		
Loss: L	llons Accounted For = Jnaccounted-for Water: (B-C) = : Unaccounted-for Water: (B-C)	/A %=	36,700 gallons 3,578,000 gallons 20 % unaccounted - for loss		
	ns / Day Loss = ns / Minute Loss =		31 days in month 115,419 gallons/day 80 gallons/min.		

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Monthly Water Loss Report

	Water Company: East Loga	in Water District
	For the Month of: November	Year: 2016
	Produced this month:	gallons
Water F	Purchased this month:	16,706,000 gallons
A: Total Wa	ter Produced and Purchased =	16,706,000 gallons
Sold:	Residential	12,524,100 gallons
	Commercial	gallons
	Water Salesman	gallons
Total S	old =	12,524,100 gallons
B: Differen	ce: (Produced+Purchased) - Sold =	4,181,900 gallons
% Diffe	rence =	25 % total water
		loss
Gallon	s of Water Accounted For:	
	Breaks (Estimated Total)	16,000 gallons
	Hydrant Flushing	66,800 gallons
	Storage Tank Overflow	0 gallons
	Water Treatment Plant Use	0 gallons
	Wastewater Treatment Plant Use	gallons
	Fire Department Use	1,000 gallons
	Net Computer Adjustment + / -	gallons
	Other	gallons
C: Total Ga	llons Accounted For =	83,800 gallons
Loss: l	Jnaccounted-for Water: (B-C) =	4,098,100 gallons
	: Unaccounted-for Water: (B-C)/A %=	25 % unaccounted - for loss
		30 days in month
Gallor	ns / Day Loss =	136,603 gallons/day
Gallor	ns / Minute Loss =	95 gallons/min.

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Monthly Water Loss Report

1		Water Company: East Lo	an Water District		
		For the Month of: December	Year: 2016		
	Watar D	Produced this month:			
		Purchased this month:	gallons 16,743,000 gallons		
A:	Total Wa	ter Produced and Purchased =	16,743,000 gallons		
	Sold:	Residential Commercial Water Salesman	12,304,500 gallons gallons gallons		
	Total So	old =	12,304,500 gallons		
B:	Differenc	ce: (Produced+Purchased) - Sold =	4,438,500 gallons		
	% Diffe	rence =	27 % total water loss		
	Gallons	of Water Accounted For:	i		
		Breaks (Estimated Total)	6,000 gallons		
		Hydrant Flushing	50,800 gallons		
		Storage Tank Overflow	0 gallons		
		Water Treatment Plant Use	0 gallons		
		Wastewater Treatment Plant Use	gallons		
		Fire Department Use	0 gallons		
		Net Computer Adjustment + / -	gallons		
		Other	gallons		
C:	Total Ga	llons Accounted For =	56,800 gallons		
	Loss: U	Inaccounted-for Water: (B-C) =	4,381,700 gallons		
	% Loss	: Unaccounted-for Water: (B-C)/A %=	26 % unaccounte - for loss		
			31 days in month		
	Gallon	is / Day Loss =	141,345 gallons/day		
	Gallon	s / Minute Loss =	98 gallons/min		
1. J	This s	spreadsheet is a product of the Technical Assistance Center for Wa	ater Quality at Western Kentucky University		

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Monthly Water Loss Report

		Water Company: East Loga	an Water Dist	rict
		For the Month of: January	Year:	2017
	Water I	Produced this month:		gallons
	Water I	Purchased this month:	17,561,000	gallons
A:	Total Wa	ater Produced and Purchased =	17,561,000	gallons
	Sold:	Residential	13,366,200	gallons
		Commercial	· · · · · · · · · · · · · · · · · · ·	gallons
		Water Salesman		gallons
	Total S	old =	13,366,200	gallons
B:	Differen	ce: (Produced+Purchased) - Sold =	4,194,800	gallons
	% Diffe	rence =	24	% total water
		•		loss
	Gallons	s of Water Accounted For:		
		Breaks (Estimated Total)	182,650	gallons
		Hydrant Flushing		gallons
		Storage Tank Overflow		gallons
		Water Treatment Plant Use		gallons
		Wastewater Treatment Plant Use		gallons
		Fire Department Use	0	gallons
		Net Computer Adjustment + / -		gallons
		Other		gallons
C:	Total Ga	llons Accounted For =	182.650	gallons
		Inaccounted-for Water: (B-C) =	4,012,150	-
		: Unaccounted-for Water: (B-C)/A %=	• •	% unaccounted - for loss
			31	days in month
	Gallon	is / Day Loss =	129,424	gallons/day
		s / Minute Loss =		gallons/min.

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Monthly Water Loss Report

		Water Company: East Loga	n Water Disti	rict
		For the Month of: February	Year:	2017
		Produced this month:		gallons
	Water F	Purchased this month:	15,202,000	gallons
A :	Total Wa	iter Produced and Purchased =	15,202,000	gallons
	Sold:	Residential	11,410,200	gallons
		Commercial		gallons
		Water Salesman		gallons
	Total S	old =	11,410,200	gallons
B:	Differen	ce: (Produced+Purchased) - Sold =	3,791,800	gallons
~	% Diffe	rence =	25	% total water
Ż.				loss
	Gallons	s of Water Accounted For:		
		Breaks (Estimated Total)	107,310	gallons
		Hydrant Flushing		gallons
		Storage Tank Overflow	· · · · · · · · · · · · · · · · · · ·	gallons
		Water Treatment Plant Use	0	gallons
		Wastewater Treatment Plant Use		gallons
		Fire Department Use	0	gallons
		Net Computer Adjustment + / -		gallons
		Other		gallons
C: '	Total Ga	llons Accounted For =	107,310	gallons
	Loss: L	Inaccounted-for Water: (B-C) =	3,684,490	gallons
	% Loss	: Unaccounted-for Water: (B-C)/A %=	24	% unaccounted - for loss
			28	days in month
	Gallon	is / Day Loss =	131,589	gallons/day
		s / Minute Loss =		gallons/min.
	This sp	preadsheet is a product of the Technical Assistance Center for Water Q	uality at Western Kentud	cky University

and the Kentucky Rural Water Association. Feel free to contact us at (270) 745-5948 or at http://water.wku.edu/. This spreadsheet may be freely distributed. Please let us know if you use it, like it, or have suggestions for improvement!

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Monthly Water Loss Report

		Water Company: East Loga	an Water Dist	rict
		For the Month of: March	Year:	2017
	•			
	Water I	Produced this month:		gallons
	Water I	Purchased this month:	16,893,000	gallons
A:	Total Wa	ater Produced and Purchased =	16,893,000	gallons
	Sold:	Residential	12,793,800	gallons
		Commercial		gallons
		Water Salesman		gallons
	Total S	old =	12,793,800	gallons
B:	Differen	ce: (Produced+Purchased) - Sold =	4,099,200	gallons
	% Diffe	rence =	24	% total water
				loss
	Gallon	s of Water Accounted For:		
		Breaks (Estimated Total)	127,000	gallons
		Hydrant Flushing		gallons
		Storage Tank Overflow		gallons
		Water Treatment Plant Use	0	gallons
		Wastewater Treatment Plant Use		gallons
		Fire Department Use	0	gallons
		Net Computer Adjustment + / -		gallons
		Other		gallons
C:	Total Ga	llons Accounted For =	127,000	gallons
	Loss: l	Inaccounted-for Water: (B-C) =	3,972,200	gallons
		: Unaccounted-for Water: (B-C)/A %=		% unaccounted - for loss
			31	days in month
	Gallor	ns / Day Loss =	128,135	gallons/day
		ns / Minute Loss =	•	gallons/min.

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Monthly Water Loss Report

2					
		Water Company:	East Loga	n Water Distr	ict
		For the Month of:	April	Year:	2017
		Produced this month:			gallons
	Water F	Purchased this month:		16,769,000	gallons
A:	Total Wa	ater Produced and Purchased		16,769,000	gallons
	Sold:	Residential		13,433,700	gallons
		Commercial			gallons
		Water Salesman			gallons
	Total S	old =		13,433,700	gallons
B:	Differen	ce: (Produced+Purchased) - S	old =	3,335,300	gallons
	% Diffe	rence =		20	% total water
)					loss
	Gallons	s of Water Accounted For:			,
		Breaks (Estimated Total)		89,125	gallons
		Hydrant Flushing			gallons
		Storage Tank Overflow		0	gallons
		Water Treatment Plant Use		0	gallons
		Wastewater Treatment Plant	Use		gallons
		Fire Department Use		0	gallons
		Net Computer Adjustment + /	-		gallons
		Other ,			gallons
C:	Total Ga	llons Accounted For =		89,125	gallons
	Loss: L	Inaccounted-for Water: (B-C) =	:	3,246,175	•
		: Unaccounted-for Water: (B-C		• •	% unaccounted - for loss
				30	days in month
	Gallon	is / Day Loss =		108,206	gallons/day
	Gallon	s / Minute Loss =		75	gallons/min.
Υ.					

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Monthly Water Loss Report

		Water Company:	East Log	an Water Dist	rict
		For the Month of:	Мау	Year:	2017
		roduced this month:			gallons
	Water P	urchased this month:		18,592,000	gallons
A: 1	Րotal Wa	ter Produced and Purchased =		18,592,000	gallons
	Sold:	Residential		15,282,900	gallons
		Commercial			gallons
		Water Salesman			gallons
	Total So	old =		15,282,900	gallons
B: I	Differenc	e: (Produced+Purchased) - So	old =	3,309,100	gallons
Ň	% Diffe	rence =		18	% total water
) –					loss
	Gallons	of Water Accounted For:			
		Breaks (Estimated Total)		235,631	gallons
		Hydrant Flushing		200,300	
		Storage Tank Overflow			gallons
		Water Treatment Plant Use			gallons
		Wastewater Treatment Plant L	lse		gallons
		Fire Department Use		1,000	gallons
		Net Computer Adjustment + / -			gallons
		Other			gallons
C: 1	Fotal Gal	lons Accounted For =		436,931	gallons
		naccounted-for Water: (B-C) =		2,872,169	-
		Unaccounted-for Water: (B-C)	/A %=		% unaccounted
		· - · · · · · · · · · · · · · · · · · ·			- for loss
				31	days in month
	Gallon	s / Day Loss =			gallons/day
		s / Minute Loss =			gallons/min.

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Monthly Water Loss Report

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		Water Company:	East Lo	gan Water District	
		For the Month of:	june		017
		ъ., Ч .,			
				gallo	
	Water F	Purchased this month:		18,592,000 gallo	ns
	18,592,000 gallo	ons			
	Sold:	Residential		15,485,700 gallo	ns
				gallo	
		Water Salesman		gallo	ns
	Total S	old =		15,485,700 gallo	ons
B :	Differen	ce: (Produced+Purchased) -	Sold =	3,106,300 gallo	ons
7	% Difference =		17 % to	tal water	
2				lo	SS
	Gallon	s of Water Accounted For:			
		Breaks (Estimated Total)		106,000 gallo	
				10,000 gallo	
		. .		0 gallo	
			4 4 1	0 gallo	
			t Use		
		-	1	4,000 gallo gallo	
			, -	gallo	
		Other			
C :	Total Ga	allons Accounted For =		120,000 gaile	ons
	Loss:	Unaccounted-for Water: (B-C)) =	2,986,300 gall	ons
	% Los	s: Unaccounted-for Water: (B	-C)/A %=	16 % u	naccounted
				- 1	for loss
				30 days	s in month
	Gallo	ns / Day Loss =		99,543 gall	
		•		•	lons/min.

Monthly Water Loss Report

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		Water Company:	East Logan	water Distr	ict
		For the Month of:	July] Year:	2017
				<u> </u>	
		oduced this month: rchased this month:		22,441,000	gallons gallons
A : [·]	Total Wate	r Produced and Purcha	ised =	22,441,000	gallons
	Sold:	Residential Commercial Water Salesman		18,140,200	gallons gallons gallons
	Total Solo	d =		18,140,200	gallons
B:	Difference	: (Produced+Purchase	d) - Sold =	4,300,800	gallons
)	% Differe	nce =		19	% total water loss
	Gallons o	of Water Accounted For	:		
		Breaks (Estimated Tota Hydrant Flushing Storage Tank Overflow Water Treatment Plant Wastewater Treatment Fire Department Use Net Computer Adjustme Other	Use Plant Use	0	
C:	Loss: Un	ons Accounted For = accounted-for Water: (Unaccounted-for Water	•	1,514,281 2,786,519 12	•
		/ Day Loss = / Minute Loss =		89,888	days in month gallons/day gallons/min.

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Monthly Water Loss Report

Water Company: East Logan Water District		
	For the Month of: August	Year: 2017
Water F	Produced this month:	gallons
	Purchased this month:	22,122,000 gallons
A: Total Wa	ter Produced and Purchased =	22,122,000 gallons
Sold:	Residential Commercial Water Salesman	15,856,300 gallons gallons gallons
Total So		15,856,300 gallons
B: Differend	ce: (Produced+Purchased) - Sold =	6,265,700 gallons
% Diffe	rence =	28 % total water loss
Gallons	of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plant Use Fire Department Use Net Computer Adjustment + / - Other	1,286,940gallons0gallons0gallons0gallons3gallons500gallons3gallons3gallons3gallons3gallons3gallons3gallons3gallons3gallons
Loss: U	llons Accounted For = naccounted-for Water: (B-C) = : Unaccounted-for Water: (B-C)/A %=	1,287,440 gallons 4,978,260 gallons 23 % unaccounte - for loss
	s / Day Loss = s / Minute Loss =	31 days in month 160,589 gallons/day 112 gallons/min.

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Monthly Water Loss Report

	Water Company:	East Log	an Water District	
	For the Month of:	Sept	Year: 20	017
Water	Produced this month:		gallor	าร
Water	Purchased this month:		18,391,000 gallor	
A: Total Wa	ater Produced and Purchased	=	18,391,000 gallo	ns
Sold:	Residential Commercial Water Salesman		13,820,600 gallor gallor gallor	าร
Total S	old =		13,820,600 gallo	ns
B: Differen	ce: (Produced+Purchased) -	Sold =	4,570,400 gallo	ns
% Diffe	erence =		25 % tot los	
Gallon	s of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plan Fire Department Use Net Computer Adjustment + Other		654,000 gallor 4,500 gallor 0 gallor 0 gallor gallor 0 gallor gallor gallor gallor	าร าร าร าร าร
Loss: l	allons Accounted For = Jnaccounted-for Water: (B-C) s: Unaccounted-for Water: (B-		- fc	ns accounted or loss
	ns / Day Loss = ns / Minute Loss =		30 days 130,397 gallo 91 gallo	

Monthly Water Loss Report

Water Company: East Logan	Water District			
For the Month of: October	Year:	2017		
Water Produced this month: Water Purchased this month:	0 20,440,000	gallons gallons		
A: Total Water Produced and Purchased =	20,440,000	gallons		
Sold: Residential Commercial Water Salesman	15,045,100	gallons gallons gallons		
Total Sold =	15,045,100	gallons		
B: Difference: (Produced+Purchased) - Sold =	5,394,900	gallons		
% Difference =	26	% total water loss		
Gallons of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plant Use Fire Department Use Net Computer Adjustment + / - Other	0	-		
C: Total Gallons Accounted For = Loss: Unaccounted-for Water: (B-C) = % Loss: Unaccounted-for Water: (B-C)/A %=	1,482,818 3,912,082 19	•		
Gallons / Day Loss = Gallons / Minute Loss =	130,403]days in month gallons/day gallons/min.		

Monthly Water Loss	Report	
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Water Company: East Loga	n Water District
For the Month of: November	Year: 2017
Water Produced this month: Water Purchased this month:	0 gallons 18,833,000 gallons
: Total Water Produced and Purchased =	18,833,000 gallons
Sold: Residential	14,195,400 gallons
Commercial	0 gallons
Water Salesman	0 gallons
Total Sold =	14,195,400 gallons
3: Difference: (Produced+Purchased) - Sold =	4,637,600 gallons
% Difference =	25 % total water loss
Gallons of Water Accounted For:	
Breaks (Estimated Total)	1,511,920 gallons
Hydrant Flushing	0 gallons
Storage Tank Overflow	0 gallons
Water Treatment Plant Use	0 gallons
Wastewater Treatment Plant Use	0 gallons
Fire Department Use	10,500 gallons
Net Computer Adjustment + / -	0 gallons
Other	0 gallons
: Total Gallons Accounted For =	1,522,420 gallons
Loss: Unaccounted-for Water: (B-C) =	3,115,180 gallons
% Loss: Unaccounted-for Water: (B-C)/A %	5= 17 % unaccount - for loss
· · ·	30]days in month
	103,839 gallons/day
Gallons / Day Loss =	100,000 ganono/uaj

and the Kentucky Rural Water Association. Feel free to contact us at (270) 745-5948 or at http://water.wku.edu/ . This spreadsheet may be freely distributed. Please let us know if you use it, like it, or have suggestions for improvement!

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Water Company: East Logan	Water District
For the Month of: December	Year: 2017
Water Produced this month: Water Purchased this month:	0 gallons 20,121,000 gallons
A: Total Water Produced and Purchased =	20,121,000 gallons
Sold: Residential Commercial Water Salesman	13,885,100 gallons gallons gallons
Total Sold =	13,885,100 gallons
B: Difference: (Produced+Purchased) - Sold =	6,235,900 gallons
% Difference =	31 % total water loss
Gallons of Water Accounted For: Breaks (Estimated Total) Hydrant Flushing Storage Tank Overflow Water Treatment Plant Use Wastewater Treatment Plant Use Fire Department Use Net Computer Adjustment + / - Other	2,250,600 gallons gallons 72,000 gallons 0 gallons gallons gallons gallons gallons gallons
C: Total Gallons Accounted For = Loss: Unaccounted-for Water: (B-C) = % Loss: Unaccounted-for Water: (B-C)/A %=	2,322,600 gallons 3,913,300 gallons 19 % unaccounted - for loss
Gallons / Day Loss = Gallons / Minute Loss =	31 days in month 126,235 gallons/day 88 gallons/min.

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Water Use Report

Water Uti	ity: East Logan Water District PWSID	KY0710951	
or the M	onth of: January Year:	2018	
1	PRODUCTION COST PER THOUSAND (insert cost		
2	PURCHASE COST PER THOUSAND	\$3.91	
2	PORCHAGE COOT FER THOUGHAD	ψ0.91	
		GALLONS	
_	WATER PRODUCED or PURCHASED	r	
3	Water Produced		0%
4	Water Purchased \$88,068.84	22,524,000	100%
5		22,524,000	
6	TOTAL COST #VALUE!		
_	WATER SOLD	40.400 700	
7	Residential	18,198,700	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	18,198,700	80.80%
13	TOTAL WATER SOLD	, ,	19.20%
		4,020,000	19.2070
	BREAKDOWN OF WATER USAGE		
. 15	Water Treatment Plant		
10	Wastewater Treatment Plant		
17	System Flushing	14,640	#VALUE!
18	Fire Department Usage	0	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	14,640	
21	WATER LOSS PERCENTAGE FOR	RATE PURPOSES	19.14%
	BREAKDOWN OF WATER LOST		
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	1,167,359	#VALUE!
25	Unknown Loss	3,143,301	13.96%
		-,,	
26	TOTAL WATER NOT SOLD OR USED	4,310,660	
27	COST OF WATER NOT SOLD OR USED		
	"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	3,143,301	
29	% "Unknown Loss'		
30	Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		

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Revised 8/3/2010

Revised 07/14/2014

	,					ELWD	_R_PSCE
		<u>\</u>	<u>Nater Use R</u>	Report			I
Water l	Jtility:	East Logan Water	District		PWSID:	KY0710951	
or the	Month of:	February			Year:	2018	
1		CTION COST PER TH		(i	insert cost)		
2	PURCH	ASE COST PER THO	USAND			\$3.91	
jezzana orazieran nie od k					and the second	GALLONS	an a
0		PRODUCED or PUR	CHASED				00/
3	Water Pi		¢.c.	7 400 44		17 404 000	0%
4	Water P			57,189.44		17,184,000	100%
5 6			AL PRODUCED A AL COST #V	AND PURC	HASED	17,184,000	
	WATER Resident					10 740 600	
7	Commer					10,719,600	
8						2,808,000	
9	Industria						
10 11	Bulk Loa Wholesa	ding Stations					
12		iles (explain)					
13			тот			13,527,600	78.72%
14				ATER NO		3,656,400	21.28%
	BREAK	OOWN OF WATER U	SAGE				
15	Water Tr	eatment Plant					
16	Wastewa	ater Treatment Plant					
/ 17	System F	Flushing				22,400	#VALUE!
18	Fire Dep	artment Usage				5,000	#VALUE!
19	DBP Flu	shing					
20					USAGE	27,400	
21	DDEAK			RCENTAG	SE FOR F	RATE PURPOSES	21.12%
	Tank Ov	DOWN OF WATER L	031			[·-····	
22 23		on Breaks					
23 24		Line Breaks				105 260	#VALUE!
24 25	Unknowr					495,360 3,133,640	#VALUE! 18.24%
26		тот		T SOLD O	RUSED	3,629,000	
27			OF WATER NOT			#VALUE!	
		WN LOSS" FLOW R	ATE AND COST	1:			
28					wn Loss"	3,133,640	
29			c	% "Unknov		18.24%	
30				er of Days i		and the second	
31		"Unkno	wn Loss" per Day			111,916	
32		Gintio	"Unknown Loss"			77.72	
33			"Unknown Lo			#VALUE!	
1							1

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							ELWD	R_PSCD	R1_NUM001
				Water U	<u>se Report</u>			F	age 18 of 49
Wa	ater Uti	lity:	East Logan	Water District		PWSID:	KY0710951		
) 0	r the M	onth of:	March			Year:	2018		
	1 2			PER THOUSAND		(insert cost)	\$3.91		
	2	FURGIA		IN THOUSAND			GALLONS		
jesponen		WATER	PRODUCED	or PURCHASED		alah karala di sana sana sa	n tanàn tanàna mpikambana amin'ny kaominina mandritra mpikambana amin'ny kaodim-paositra dia mandritra dia mand		
	3	Water Pro	oduced					0%	
	4	Water Pu	rchased		\$70,724.08		18,088,000	100%	
	5 6			TOTAL PRODUC	EED AND PUR #VALUE!	CHASED	18,088,000		
<u></u>		WATER	SOLD						
	7	Residenti	al				11,245,500		
	8	Commer	cial				2,586,300		
	9	Industrial							
	10		ding Stations						
	11 12	Wholesal	e les (explain)						
	12				· · · · · · · · · · · · · · · · · · ·				
	13				TOTAL WAT	ER SOLD	13,831,800	76.47%	
	14			тот	AL WATER NO	OT SOLD	4,256,200	23.53%	
		BREAKD	OWN OF WA	TER USAGE					
••••	15	Water Tre	eatment Plant						
Ì	16		ter Treatment	Plant					
	17	System F						#VALUE!	
	18	•	artment Usage	9			1,200	#VALUE!	
	19	DBP Flus	hing						
	20				TOTAL	USAGE	51,200		
	21				S PERCENTA	GE FOR	RATE PURPOSES	23.25%	
			DOWN OF W/	ATER LOST					
	22	Tank Ove							
	23	Excavatio					09 790	#\/^\\\	
	24 25	Unknown	Line Breaks				4,106,220	#VALUE! 22.70%	
	20	Onknown	2000				4,100,220	LL ., 070	
	26			TOTAL WATE					
	27			COST OF WATE	R NOT SOLD	DR USED	#VALUE!		
			WNI OSS" E	LOW RATE AND	COST.			l	
	28		WIN LU33 F			wn Loss"	4,106,220		
	20 29					own Loss own Loss"			
	30			N	lumber of Days				
	31			"Unknown Loss" pe			and a second sec		
	32				Loss" per Minu				
	33				wn Loss" Cost				
		1							

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ELWD R PSCDR1 NUM001 Page 19 of 49 Water Use Report PWSID: KY0710951 Water Utility: East Logan Water District ³or the Month of: April 2018 Year: **PRODUCTION COST PER THOUSAND** (insert cost) PURCHASE COST PER THOUSAND \$3.91 GALLONS WATER PRODUCED or PURCHASED Water Produced 0% Water Purchased \$69,339.94 17,734,000 100% TOTAL PRODUCED AND PURCHASED 17,734,000 TOTAL COST **#VALUE!** WATER SOLD 12,250,900 Residential 2.013.800 Commercial Industrial **Bulk Loading Stations** Wholesale Other Sales (explain) **TOTAL WATER SOLD** 14,264,700 80.44% TOTAL WATER NOT SOLD 3,469,300 19.56% BREAKDOWN OF WATER USAGE Water Treatment Plant Wastewater Treatment Plant System Flushing **Fire Department Usage** 250 #VALUE! **DBP Flushing** TOTAL USAGE 250 WATER LOSS PERCENTAGE FOR RATE PURPOSES 19.56% **BREAKDOWN OF WATER LOST Tank Overflows Excavation Breaks Repaired Line Breaks** 272,160 #VALUE! **Unknown Loss** 3,196,890 18.03% TOTAL WATER NOT SOLD OR USED 3,469,050 COST OF WATER NOT SOLD OR USED **#VALUE!** "UNKNOWN LOSS" FLOW RATE AND COST: 3,196,890 "Unknown Loss"

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28 % "Unknown Loss" 18.03% 29 Number of Days in Period 30 30 "Unknown Loss" per Day (Gallons per Day) 106,563 31 "Unknown Loss" per Minute (GPM) 32 74.00 "Unknown Loss" Cost for Month **#VALUE!** 33

Kentucky Rural Water Association

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For the Month of: Ma 1 PRODUCTIO 2 PURCHASE 0 WATER PRO 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (c 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	ast Logan Water District ay N COST PER THOUSAND COST PER THOUSAND DUCED or PURCHASED ced	i in a fair i i i i i i i i i i i i i i i i i i	KY0710951 2018 \$3.91 GALLONS		ge 20 of
For the Month of: Ma 1 PRODUCTIO 2 PURCHASE WATER PRO 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (c 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	ay N COST PER THOUSAND COST PER THOUSAND DUCED or PURCHASED ced	Year:	2018 \$3.91		
1 PRODUCTIO 2 PURCHASE (3 Water Product 4 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	ON COST PER THOUSAND COST PER THOUSAND		\$3.91		
2 PURCHASE WATER PRO 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (a 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	COST PER THOUSAND	(insert cost)	\$3.91		
WATER PRO 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOWN 15 Water Treatm 16 Wastewater T 17 System Flushi	DUCED or PURCHASED		\$3.91		
 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (e 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi 	ced	an a	GALLONS		
 3 Water Product 4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (e 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi 	ced	918 1925 FG 3937 281 68 2 5 6 5 7 1 5 6 1 5 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1 5 7 1			
4 Water Purcha 5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (a 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi					
5 6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	eed.	.		0%	
6 WATER SOL 7 Residential 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOW 15 Water Treatm 16 Wastewater T 17 System Flushi		\$83,576.25	21,375,000	100%	
WATER SOL7Residential8Commercial9Industrial10Bulk Loading11Wholesale12Other Sales (a1314BREAKDOWI15Water Treatm16Wastewater T17System Flushi	TOTAL PRODUC TOTAL COST	ED AND PURCHASED #VALUE!	21,375,000		
 8 Commercial 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi 				و افغان الانتخاب المراجع من مع	
 9 Industrial 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi 			14,216,600		
 10 Bulk Loading 11 Wholesale 12 Other Sales (6 13 14 BREAKDOWN 15 Water Treatm 16 Wastewater T 17 System Flushi 			2,342,400		
11 Wholesale 12 Other Sales (a 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	Otations		·····		
12 Other Sales (6 13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi	Stations				
13 14 BREAKDOWI 15 Water Treatm 16 Wastewater T 17 System Flushi					
14 BREAKDOW 15 Water Treatm 16 Wastewater T 17 System Flushi	explain)	·····			
BREAKDOW 15 Water Treatm 16 Wastewater T 17 System Flushi		TOTAL WATER SOLD	16,559,000	77.47%	
15 Water Treatm 16 Wastewater T 17 System Flushi	TOT	AL WATER NOT SOLD	4,816,000	22.53%	
16 Wastewater T 17 System Flushi	N OF WATER USAGE				
17 System Flushi	ent Plant				
•	reatment Plant				
			8,000	#VALUE!	
18 Fire Departme	-			#VALUE!	
19 DBP Flushing					
20		TOTAL USAGE	8,000		
BREAKDOW	WATER LOS	S PERCENTAGE FOR F	RATE PURPOSES	22.49%	
22 Tank Overflow					
23 Excavation Br					
24 Repaired Line	Breaks		203,760	#VALUE!	
25 Unknown Loss	S		4,604,240	21.54%	
26		NOT SOLD OR USED	4,808,000		
27	COST OF WATER	R NOT SOLD OR USED	#VALUE!		
UNKNOWN	LOSS" FLOW RATE AND C	OST:			
28		"Unknown Loss"	4,604,240		
29		% "Unknown Loss"	21.54%		
30		umber of Days in Period			
31		r Day (Gallons per Day)	148,524		
32		oss" per Minute (GPM)	103.14		
33	"Unknov	vn Loss" Cost for Month	#VALUE!		
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Water Use Report

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	Water Ut	lity: East Logan Water District	PWSID:	KY0710951					
(çor the №	Ionth of: June	Year:	2018					
	1	PRODUCTION COST PER THOUSAND	(insert cost)	[
	2	PURCHASE COST PER THOUSAND		\$3.91					
	100-001 10-001-00-00-00-00-00-00-00-00-00-00-00-		10 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GALLONS					
	b) fan eining fan de setter in delinken werde fan	WATER PRODUCED or PURCHASED		r					
	3	Water Produced			0%				
	4	Water Purchased	\$85,253.64	21,804,000	100%				
	5 6	TOTAL PRODUCE TOTAL COST	ED AND PURCHASED #VALUE!	21,804,000					
		WATER SOLD							
	7	Residential		13,474,300					
	8	Commercial	2,671,900						
	9	Industrial							
	10 11	Bulk Loading Stations Wholesale							
	12	Other Sales (explain)							
				<u>ار ا</u>					
	13		TOTAL WATER SOLD		74.05%				
	14		L WATER NOT SOLD	5,657,800	25.95%				
		BREAKDOWN OF WATER USAGE							
~~··	15	Water Treatment Plant							
(16	Wastewater Treatment Plant							
×	17	System Flushing		31,657	#VALUE!				
	18	Fire Department Usage							
	19	DBP Flushing							
	20		TOTAL USAGE		25.80%				
	21	WATER LOSS PERCENTAGE FOR RATE PURPOSES BREAKDOWN OF WATER LOST							
	22	Tank Overflows		1					
	22	Excavation Breaks							
	23	Repaired Line Breaks		929,360	#VALUE!				
	25	Unknown Loss		4,696,783	21.54%				
	26		NOT SOLD OR USED						
	27	COST OF WATER	NOT SOLD OR USED	#VALUE!					
		"UNKNOWN LOSS" FLOW RATE AND CO	DST:						
	28		"Unknown Loss"	4,696,783					
	29		% "Unknown Loss"						
	30	Nur	mber of Days in Period	30					
	31		Day (Gallons per Day)	156,559					
	32		oss" per Minute (GPM)						
	33	"Unknowr	Loss" Cost for Month	#VALUE!					
(<u> </u>	n an shundhan an an an shundhan an a	aline of a subsection of the state						
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				<u>Water U</u>	<u>se Repor</u>	<u>t</u>		F	Page 22 of 49
	Water Ut	ility:	East Logan	Water District		PWSID:	KY0710951		
(or the N	ionth of:	July			Year:	2018		
	1 2			PER THOUSAND R THOUSAND		(insert cost)	\$3.91		
							GALLONS		
	-			or PURCHASED					
	3	Water Pr	1		¢00.070.47	.	22 754 000	0% 100%	
	4 5	Water Pu	licitaseu	TOTAL PRODU	\$92,878.14		23,754,000 23,754,000	100%	
	6			TOTAL COST	#VALUE!		20,704,000		
		WATER							
	7	Resident					15,805,500		
	8	Commer				-	2,728,300		
	9	Industria							
	10 11	Wholesa	ding Stations			-			
	12		les (explain)			ŀ			
	12	Other Sa	les (explain) _			·			
	13				TOTAL WAT		18,533,800	78.02%	
	14		<u> </u>	<u></u> <u></u>	AL WATER N	IOT SOLD	5,220,200	21.98%	
		BREAK	OWN OF WA	TER USAGE					
	15	Water Tr	eatment Plant			ſ			
() 16	Wastewa	ter Treatment	Plant		ľ		•	
<u> </u>	/ 17	System F	lushing				72,500	#VALUE!	
	18	Fire Dep	artment Usage	ł			7,000	#VALUE!	
	19	DBP Flue	shing			[
	20				ΤΟΤΑ	L USAGE	79,500		
	21			WATER LOS	S PERCENT	AGE FOR R	ATE PURPOSES	21.64%	
		BREAK	DOWN OF WA	TER LOST					
	22	Tank Ov	erflows						
	23	Excavati	on Breaks						
	24	Repaired	Line Breaks				845,940		
	25	Unknowr	Loss				4,294,760	18.08%	
	26			TOTAL WATE	R NOT SOLD	OR USED	5,140,700		
	27			COST OF WATE			#VALUE!		
	<u></u>								
	00		WN LOSS" F	LOW RATE AND			4 004 700		
	28					nown Loss" nown Loss"	4,294,760 18.08%		
	29 30			N	% Unkr Iumber of Day	-	18.08%		
	30 31		,	יי Unknown Loss" p'	•		138,541		
	31				Loss" per Mir		96.21		
	33				wn Loss" Cos		#VALUE!		
	00								

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ELWD_R_PSCDR1_NUM001 Page 23 of 49

Water Use Report

	Water Uti	ility:	East Logan	Water District]	PWSID:	KY0710951	
$\left(\right)$	or the N	Ionth of:	August			Year:	2018	
	1	PRODUCT	TION COST P	ER THOUSAND		(insert cost)		
	2			THOUSAND		(110077 0007)	\$3.91	
							GALLONS	
		WATER P	RODUCED or	PURCHASED	a de la companya de l	ersendene en signe a prima prima.		
	3	Water Pro						0%
	4	Water Pur		25,031,000	100%			
	5 6			TOTAL PRODUCI TOTAL COST	ED AND PUF #VALUE!	RCHASED	25,031,000	
		WATER S	OLD					
	7	Residentia	N				14,241,300	
	8	Commerci	al				3,533,800	
	9	Industrial	-					
	10		ng Stations					
	11	Wholesale						
	12	Other Sale	es (explain)					
	13 14				TOTAL WAT			71.01% 28.99%
C	15 16 17 18 19	Water Tre Wastewate System Flu	tment Usage				109,500 500	#VALUE! #VALUE!
	20 21			WATER LOSS		L USAGE AGE FOR I	110,000 RATE PURPOSES	28.55%
			OWN OF WAT	TER LOST				
	22	Tank Over						
	23	Excavation						
	24	•	ine Breaks				2,543,760	
	25	Unknown I	LOSS				4,602,140	18.39%
	26 27		(TOTAL WATER				
		"UNKNOV	VN LOSS" FI	OW RATE AND C	OST:			
	28					own Loss"	4,602,140	
	29					own Loss"		
	30				mber of Day			
	31		"ر	Jnknown Loss" per				
	32 33				oss" per Min n Loss" Cost			
(l	<u></u>		<u> </u>			.

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				Water Us	<u>se Repor</u>	<u>t</u>		Р	age 24 of 49
	Water U	tility:	East Logan V	Water District		PWSID:	KY0710951		
(or the l	Month of:	September			Year:	2018		
	1			ER THOUSAND		(insert cost)			
	2	PURCHA	ASE COST PER	THOUSAND			\$3.91		
							GALLONS		
			PRODUCED or	PURCHASED					
	3	Water Pr			• • • • • •			0%	
	4	Water Pu			\$93,355.16		23,876,000	100%	
	5 6			TOTAL PRODUC TOTAL COST	#VALUE!	RCHASED	23,876,000		
•	· · · · · · · · · · · · · · · · · · ·	WATER					·		
	7	Resident					11,398,500		
	8	Commer					2,665,700		
	9	Industrial							
	10		ding Stations						
	11 12	Wholesa							
	12	Other Sa	les (explain)						
	13	ŀ			TOTAL WAT			58.91%	
;	14			ТОТ	AL WATER N	IOT SOLD	9,811,800	41.09%	
	45		OWN OF WAT eatment Plant	ERUSAGE					
1	15		ter Treatment F	lant					
	10	System F		lant			21 249	#VALUE!	
· · · ·	18		artment Usage				500	#VALUE!	
	19	DBP Flue						,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	
		557714					I		
	20					L USAGE	21,749		
;	21				S PERCENT/	AGE FOR I	RATE PURPOSES	41.00%	
	00		DOWN OF WAT	ERLOSI					
•	22 23	Tank Ove	on Breaks						
	23 24		Line Breaks				932 400	#VALUE!	
	24 25	Unknowr					8,857,651	37.10%	
	20	Onicion	2000				0,001,001	0111070	
	26			TOTAL WATER	R NOT SOLD	OR USED	9,790,051		
	27		C	OST OF WATER	R NOT SOLD	OR USED	#VALUE!		
•								·	
		"UNKNO	WN LOSS" FL	OW RATE AND O					
	28	1				iown Loss"			
	29					iown Loss"			
	30	1			umber of Day				
	31		ر	Jnknown Loss" pe					
	32				Loss" per Min wn Loss" Cos	• •			
	33			UTIKNO	WILLUSS COS		#VALUE!		
,			· • • • • • • • • • • • • • • • • • • •	<u>, , , , , , , , , , , , , , , , , , , </u>					

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				Water U	<u>se Repor</u>	<u>t</u>		Р	age 25 of 49
	Water Ut	tility:	East Logan	Water District		PWSID:[KY0710951		
(or the N	Month of:	October		i	Year: [2018		
	1			PER THOUSAND		(insert cost)	<u> </u>		
	2	PURCHA	SE COST PE	R THOUSAND		[\$3.91		
			PROBLICER	DUDQUAGED			GALLONS		
	0			or PURCHASED		г		00/	
	3	Water Pr			¢00.040.40	、	00.000.000	0%	
	4	Water Pu	Ircnased	TOTAL PRODUC	\$89,648.48		22,928,000	100%	
	5 6			TOTAL PRODUC	#VALUE!	KCHASED	22,928,000		
		WATER				Г	12 005 600		
	7	Residenti Commere					13,905,600		
	8 9	Industrial					3,083,100		
	10		ding Stations						
	11	Wholesal	-						
	12		les (explain) _				······e		
	13				TOTAL WAT		16,988,700	74.10%	
	14			тот	AL WATER N		5,939,300	25.90%	
		BREAKD	OWN OF WA	TER USAGE					
	15		eatment Plant			ſ			
(16		ter Treatment	Plant					
Υ	17	System F	lushing			Ī	12,500	#VALUE!	
	18	Fire Depa	artment Usage	•					
	19	DBP Flus	shing			[
	20				ΤΟΤΑ	L USAGE	12,500		
	21				S PERCENT	AGE FOR R	ATE PURPOSES	25.85%	
	00		DOWN OF WA	ATER LOST		r			
	22 23	Tank Ove	on Breaks						
	23 24		Line Breaks				1,825,920	#VALUE!	
	24	Unknown				L	4,100,880	17.89%	
	26			TOTAL WATE	R NOT SOLD	OR USED	5,926,800		
	27			COST OF WATE			#VALUE!		
		"UNKNO	WN LOSS" F	LOW RATE AND	COST:		1		
	28					nown Loss"	4,100,880		
	29					nown Loss"	17.89%		
	30			N	umber of Day	s in Period	31		
	31		. 1	'Unknown Loss" pe			132,286		
	32				Loss" per Mir		91.87		
	33			"Unkno	wn Loss" Cos	t for Month	#VALUE!		
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			Water Us	<u>se Repor</u>			P	age 26 of 49
Water U	tility:	East Logan Wat	er District]	PWSID:	KY0710951		
or the	Month of:	November]		Year:	2018		
1		TION COST PER			(insert cost)			
2	PURCHA	SE COST PER TH	IOUSAND		Į	\$3.91		
NAMES OF GROOM STREET, ST					a se alter and a second a	GALLONS	and the second state of the	
0		PRODUCED or PL	RCHASED		г		00/	
3	Water Pr Water Pu			\$76,503.06		19,566,000	0% 100%	
4 5	valer ru			CED AND PU		19,566,000	100 /0	
6			DTAL COST	#VALUE!		10,000,000		
	WATER	SOLD						
7	Residenti	al			[11,803,100		
8	Commer					2,560,000		
9	Industrial							
10		ding Stations						
11	Wholesal							
12	Other Sa	les (explain)		·				
13				TOTAL WAT	ER SOLD	14,363,100	73.41%	
14			тот	AL WATER N	OT SOLD	5,202,900	26.59%	
15 16 17 18 19	Water Tro Wastewa System F	artment Usage				19,500 7,200	#VALUE! #VALUE!	
20						26,700	00.409/	
21	BREAK	DOWN OF WATER		5 FERGENTA		ATE PURPOSES	26.46%	
22	Tank Ove		2001		1			
23	Excavatio	on Breaks				······································		
24		Line Breaks				568,360		
25	Unknown	Loss				4,607,840	23.55%	
26 27	_			R NOT SOLD R NOT SOLD		5,176,200 #VALUE!		
~~		WN LOSS" FLOW	RATE AND (4 007 0 40		
28					own Loss" own Loss"	4,607,840		
29 30			N	wind the second		23.55% 30		
30 31		"I Inki		er Day (Gallon		153,595		
32		UIK		Loss" per Min		106.66		
33				wn Loss" Cost		#VALUE!		
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ELWD_	_R_	PSCDR1	NUM001
		Page	e 27 of 49

Water Use Report

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Water Utility:		ity: East Logan Water District PWSID	KY0710951	
) c	or the M	onth of: December Year:	2018	
	1	PRODUCTION COST PER THOUSAND (insert cost)	
	2	PURCHASE COST PER THOUSAND	\$3.91	
			GALLONS	
		WATER PRODUCED or PURCHASED		
	3	Water Produced		0%
	4	Water Purchased \$78,723.94	20,134,000	100%
	5	TOTAL PRODUCED AND PURCHASED	20,134,000	
	6	TOTAL COST #VALUE!		
		WATER SOLD		
	7	Residential	10,911,200	
	8	Commercial	2,487,600	
	9	Industrial		
	10	Bulk Loading Stations Wholesale		
	11 12			
	12	Other Sales (explain)		
	13	TOTAL WATER SOLD	13,398,800	66.55%
	14	TOTAL WATER NOT SOLE		33.45%
		BREAKDOWN OF WATER USAGE		
~	15	Water Treatment Plant		
$\frac{1}{2}$	16	Wastewater Treatment Plant		
	17	System Flushing	63,000	#VALUE!
	18	Fire Department Usage		
	19	DBP Flushing		
	20	TOTAL USAGE	E 63,000	
	21	WATER LOSS PERCENTAGE FOR		33.14%
		BREAKDOWN OF WATER LOST	/	
	22	Tank Overflows		
	23	Excavation Breaks		
	24	Repaired Line Breaks		#VALUE!
	25	Unknown Loss	4,173,800	20.73%
	26	TOTAL WATER NOT SOLD OR USED	6,672,200	
	27	COST OF WATER NOT SOLD OR USED) #VALUE!	
		"UNKNOWN LOSS" FLOW RATE AND COST:		×
	28	"Unknown Loss	" 4,173,800	
	29	% "Unknown Loss"		
	30	Number of Days in Period	particular and a second s	
	31	"Unknown Loss" per Day (Gallons per Day		
	32	"Unknown Loss" per Minute (GPM		
	33	"Unknown Loss" Cost for Month	#VALUE!	

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Annual Water Use Report

	Water U	tility: East Logan Water District PWSID	: KY0710951	
\bigcap	$\sum_{i=1}^{n}$	Year:	2018	
	1	AVERAGE PRODUCTION COST PER THOUSAND		
	2	AVERAGE PURCHASE COST PER THOUSAND	\$3.91	
			GALLONS	
		WATER PRODUCED or PURCHASED	and a construction of the second s	(<u>1998) - 1997 - 1997 - 1997</u>)
	3	Water Produced \$0.00	0	0%
	4	Water Purchased \$993,132.18	253,998,000	100%
	5	TOTAL PRODUCED AND PURCHASEI TOTAL COST #VALUE!	253,998,000	
:	6	WATER SOLD		
	7	Residential	158,170,800	
	8	Commercial	29,480,900	
	9	Industrial	29,400,900	
	10	Bulk Loading Stations	0	
	11	Wholesale	0	
	12	Other Sales	0	
	13	TOTAL WATER SOLE		73.88%
-	14	TOTAL WATER NOT SOLD	b 66,346,300	<u> 26.12%</u>
		BREAKDOWN OF WATER USAGE		
(15	Water Treatment Plant	0	
) 16 17	Wastewater Treatment Plant System Flushing	424,946	#VALUE!
	18	Fire Department Usage	21,650	#VALUE! #VALUE!
	19	DBP Flushing	21,000	
			L	
	20	TOTAL USAGE	· _	
=	21	WATER LOSS PERCENTAGE FOR	RATE PURPOSES	25.94%
		BREAKDOWN OF WATER LOST		
	22	Tank Overflows	0	
	23	Excavation Breaks	0	
	24 25	Repaired Line Breaks Unknown Loss	12,381,559 53,518,145	#VALUE! 21.07%
	20	Unknown Loss	55,516,145	21.07 %
	26	TOTAL WATER NOT SOLD OR USED	65,899,704	
	27	COST OF WATER NOT SOLD OR USED		
		"UNKNOWN LOSS" FLOW RATE AND COST:		
	28	"Unknown Loss" for Period		
	29	% "Unknown Loss" for Period		
	30	Number of Days in Period		
	31	Average "Unknown Loss" per Day (Gallons per Day		
	32	Average "Unknown Loss" per Minute (GPM)		
	33	"Unknown Loss" Cost for Period	#VALUE!	
7				

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Water Use Report

Wa	iter Util	lity: East Logan Water District PWSID	KY0710951	
O	r the M	onth of: January Year:	2019	
	1	PRODUCTION COST PER THOUSAND (insert cost		
	2	PURCHASE COST PER THOUSAND	\$3.91	
	~		\$0.0 T	
			GALLONS	
		WATER PRODUCED or PURCHASED		
	3	Water Produced		0%
	4	Water Purchased \$81,503.95	20,845,000	100%
	5	TOTAL PRODUCED AND PURCHASED	20,845,000	
_	6	TOTAL COST #VALUE!		
	-	WATER SOLD	40.740.000	
	7	Residential	12,710,200	
	8	Commercial	2,860,800	
	9 10	Industrial Bulk Loading Stations		
	10	Bulk Loading Stations Wholesale		
	12	Other Sales (explain)		
	12			
	13	TOTAL WATER SOLE	15,571,000	74.70%
	14	TOTAL WATER NOT SOLE		25.30%
		BREAKDOWN OF WATER USAGE		
·	15	Water Treatment Plant		
\sum	16	Wastewater Treatment Plant		
	17	System Flushing	458,000	#VALUE!
	18	Fire Department Usage	2,400	#VALUE!
	19	DBP Flushing		
	20	TOTAL USAGE	E 460,400	
	21	WATER LOSS PERCENTAGE FOR	RATE PURPOSES	23.09%
		BREAKDOWN OF WATER LOST		
	22	Tank Overflows		
	23	Excavation Breaks		
	24	Repaired Line Breaks		#VALUE!
	25	Unknown Loss	3,419,100	16.40%
	00			
	26 27	TOTAL WATER NOT SOLD OR USE COST OF WATER NOT SOLD OR USE		
	21	COST OF WATER NOT SOLD OR USEL	WALUE!	
		"UNKNOWN LOSS" FLOW RATE AND COST:		
	28	"Unknown Loss	• •	
	29	% "Unknown Loss	procession and the second s	
	30	Number of Days in Period		
	31	"Unknown Loss" per Day (Gallons per Day		
	32	"Unknown Loss" per Minute (GPM		
	33	"Unknown Loss" Cost for Mont	h #VALUE!	

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Water Use Report

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	Water Uti	lity: East Log	gan Water District	PWSID:	KY0710951			
(or the M	onth of: Februar	у	Year:	2019			
	1	PRODUCTION COS	ST PER THOUSAND	(insert cost)				
	2	PURCHASE COST		(115011 0001)	\$3.91			
					GALLONS			
	_	WATER PRODUCED or PURCHASED						
	3	Water Produced			10,000,000	0%		
	4	Water Purchased		\$75,552.93	19,323,000	100%		
	5 6		TOTAL PRODUCE	D AND PURCHASED #VALUE!	19,323,000			
		WATER SOLD						
	7	Residential			11,069,000			
	8	Commercial			2,349,900			
	9	Industrial						
	10	Bulk Loading Station	ns					
	11	Wholesale						
	12	Other Sales (explain	າ)					
	13		7	OTAL WATER SOLD	13,418,900	69.45%		
	13			L WATER NOT SOLD		30.55%		
		<u></u>			0,001,100			
		BREAKDOWN OF	WATER USAGE					
	15	Water Treatment Pl	ant					
(16	Wastewater Treatm	ent Plant					
<u>л</u>	<17	System Flushing			55,800	#VALUE!		
	18	Fire Department Us	age					
	19	DBP Flushing						
	20			TOTAL USAGE	· _			
	21			PERCENTAGE FOR	RATE PURPOSES	30.27%		
	~~	BREAKDOWN OF	WATER LOST		·			
	22	Tank Overflows						
	23	Excavation Breaks	I		500.000			
	24 25	Repaired Line Brea Unknown Loss	KS		5,325,440	#VALUE! 27.56%		
	20	UTIKITOWIT LUSS			5,525,440	27.50%		
	26	x	TOTAL WATER	NOT SOLD OR USED	5,848,300			
	27		COST OF WATER	NOT SOLD OR USED	#VALUE!			
	00	"UNKNOWN LOSS	5" FLOW RATE AND CO					
	28			"Unknown Loss'				
	29 20		N I	"Unknown Loss" % "Unknown Loss"				
	30 31			mber of Days in Period				
	31 32			Day (Gallons per Day) oss" per Minute (GPM)				
	32 33	1		n Loss" Cost for Month				
	55		UTKIOW					
())		· · · · · · · · · · · · · · · · · · ·	· ····	Kontusky Dural W	latar Accordiation		

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Water Use Report

Wa	Water Utility:		East Logan	Water District		PWSID:	KY07	10951	
O	r the M	ionth of:	March			Year:	2019		
	1	PRODUC.		ER THOUSAND		(insert cost)			
	2			R THOUSAND		(insen cost)		\$3.91	
	2	rununa		THOUSAND			I	ψ0.91	
								GALLONS	
	•			r PURCHASED					
	3	Water Pro			* ~~ = * ~ •	`		01.000.000	0%
	4	Water Pur	cnased		\$83,548.88			21,368,000	100%
<u></u>	5 6			TOTAL PRODUC TOTAL COST	#VALUE!	KUHAJED		21,368,000	
		WATER S							
	7	Residentia						11,376,000	
	8	Commerc	ial					2,806,400	
	9	Industrial							
	10 11	Wholesale	ing Stations						
	12		-						
	12	Other Sale	es (explain)						
	13			тот	TOTAL WA			14,182,400	66.37%
	14			101	AL WATER I	NOT SOLD)	7,185,600	33.63%
	15		atment Plant	ER USAGE				1	
····	16		er Treatment	Plant					
Ĵ.	17	System FI						169 600	#VALUE!
	18	-	rtment Usage						#VALUE!
	19	DBP Flush							
	~~		U				·		
	20 21			WATER LOS				172,900	22 020/
	21		OWN OF WA		S FERCENT	MGE FUR	KAIE	FURPUSES	32.82%
	22	Tank Ove		IER LUSI					
	23	Excavation							
	24		Line Breaks					704 140	#VALUE!
	25	Unknown					L	6,308,560	29.52%
			2000					0,000,000	/
	26			TOTAL WATER	R NOT SOLD	OR USED)	7,012,700	
	27			COST OF WATER	R NOT SOLD	OR USED)	#VALUE!	
		"UNKNO\	WN LOSS" FI	OW RATE AND	COST:				
	28					nown Loss'		6,308,560	
	29					nown Loss'		29.52%	
	30				umber of Day			31	
	31		"	Unknown Loss" pe	• •	• • • •		203,502	
	32				Loss" per Mi			141.32	
	33			"Unkno	wn Loss" Cos	st for Month	า #	VALUE!	
N Ž							Áður.		

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Page 32 of 49 Water Use Report PWSID: KY0710951 Water Utility: East Logan Water District or the Month of: April Year: 2019 1 **PRODUCTION COST PER THOUSAND** (insert cost) 2 PURCHASE COST PER THOUSAND \$3.91 GALLONS WATER PRODUCED or PURCHASED 3 Water Produced 0% Water Purchased 4 \$82,673.04 21,144,000 100% 5 TOTAL PRODUCED AND PURCHASED 21,144,000 **TOTAL COST #VALUE!** 6 WATER SOLD 7 Residential 12,837,900 Commercial 2,905,200 8 Industrial 9 10 **Bulk Loading Stations** 11 Wholesale 12 Other Sales (explain) **TOTAL WATER SOLD** 13 15,743,100 74.46% TOTAL WATER NOT SOLD 14 5,400,900 25.54% **BREAKDOWN OF WATER USAGE** 15 Water Treatment Plant 16 Wastewater Treatment Plant 17 System Flushing 36,000 #VALUE! **Fire Department Usage** 18 19 **DBP** Flushing 20 TOTAL USAGE 36,000 WATER LOSS PERCENTAGE FOR RATE PURPOSES 21 25.37% **BREAKDOWN OF WATER LOST Tank Overflows** 22 23 **Excavation Breaks** 24 **Repaired Line Breaks** 2,074,264 #VALUE! **Unknown Loss** 3,290,636 25 15.56% 26 TOTAL WATER NOT SOLD OR USED 5,364,900 27 COST OF WATER NOT SOLD OR USED **#VALUE!** "UNKNOWN LOSS" FLOW RATE AND COST: 3,290,636 28 "Unknown Loss" 29 % "Unknown Loss" 15.56% 30 Number of Days in Period 30 31 "Unknown Loss" per Day (Gallons per Day) 109,688 "Unknown Loss" per Minute (GPM) 32 76.17 "Unknown Loss" Cost for Month 33 **#VALUE!**

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Kentucky Rural Water Association

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Water Use Report

	Water Uti	ility: East Logan Water District	PWSID:	KY0710951	: :
(or the M	Nonth of: May	Year:	2019	
	1	PRODUCTION COST PER THOUSAND	(insert cost)		
	2	PURCHASE COST PER THOUSAND	(\$3.91	
				GALLONS	
-	_	WATER PRODUCED or PURCHASED			,
	3	Water Produced	. 4	0	0%
	4	Water Purchased \$96,397.1		24,654,000	100%
	5 6	TOTAL PRODUCED AND PU TOTAL COST #VALUE!		24,654,000	
:	0	WATER SOLD			
	7	Residential		15,097,700	
	8	Commercial		3,194,300	
	9	Industrial		0,101,000	
	10	Bulk Loading Stations			
	11	Wholesale			
	12	Other Sales (explain)			
		· · · · · · · · · · · · · · · · · · ·			
	13	TOTAL WA	TER SOLD	18,292,000	74.19%
	14	TOTAL WATER	NOT SOLD	6,362,000	25.81%
		BREAKDOWN OF WATER USAGE			
1	15	Water Treatment Plant			
() 16	Wastewater Treatment Plant			
· · · ·	17	System Flushing		11,360	#VALUE!
	18	Fire Department Usage			
	19	DBP Flushing			
	20	τοτ	AL USAGE	11,360	
	20	WATER LOSS PERCENT		· _	25.76%
		BREAKDOWN OF WATER LOST			2011 0 /0
	22	Tank Overflows			
	23	Excavation Breaks			
	24	Repaired Line Breaks		1,296,720	#VALUE!
	25	Unknown Loss		5,053,920	20.50%
	26	TOTAL WATER NOT SOL		, ,	
	27	COST OF WATER NOT SOL	D OR USED) #VALUE!	
		·			
		"UNKNOWN LOSS" FLOW RATE AND COST:			
	28		known Loss		
	29		known Loss		
	30	Number of Da			
	31	"Unknown Loss" per Day (Gallo	•		
	32	"Unknown Loss" per M			
	33	"Unknown Loss" Co	st for Month	n #VALUE!	
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Water Use Report

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\sim	Water Uti	ility: East Logan Water District	PWSID:	KY0710951	
(. or the M	Nonth of: June	Year:	2019	
	1	PRODUCTION COST PER THOUSAND	(insert cost)		
	2	PURCHASE COST PER THOUSAND		\$3.91	
				GALLONS	
	0	WATER PRODUCED or PURCHASED			00/
	3	Water Produced Water Purchased \$87,454.97		22 267 000	0% 100%
	4 5	TOTAL PRODUCED AND PUR		22,367,000	100 %
	6	TOTAL PRODUCED AND POR		22,307,000	
	.	WATER SOLD			
	7	Residential		12,905,900	
	8	Commercial		2,815,000	
	9	Industrial			
	10	Bulk Loading Stations			
	11				
	12	Other Sales (explain)			
	13	TOTAL WAT	ER SOLD	15,720,900	70.29%
	14	TOTAL WATER NO	OT SOLD	6,646,100	29.71%
	•••• ···	BREAKDOWN OF WATER USAGE			
	15	Water Treatment Plant	÷		
(15	Water Treatment Plant			
	الال 17	System Flushing		49,700	#VALUE!
	18	Fire Department Usage			#VALUE!
	19	DBP Flushing			
	20	TOTAL	USAGE	89,700	
	21	WATER LOSS PERCENTA		· _	29.31%
		BREAKDOWN OF WATER LOST			
	22	Tank Overflows			
	23	Excavation Breaks			×
	24	Repaired Line Breaks		2,567,400	#VALUE!
	25	Unknown Loss		3,989,000	17.83%
	26 27	TOTAL WATER NOT SOLD (COST OF WATER NOT SOLD (
	00	"UNKNOWN LOSS" FLOW RATE AND COST:	ou (o l !	2 000 000	
	28		own Loss'		
	29 30		own Loss'		
	30 31	Number of Days "Unknown Loss" per Day (Gallons			
	31	"Unknown Loss" per Day (Gallons			
	32 33	"Unknown Loss" per Minu "Unknown Loss" Cost	• •		
				í ð	

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Water Use Report

Water Uti	ity: East Logan Water District PWSID:	KY0710951	
or the M	onth of: July Year:	2019	
1	PRODUCTION COST PER THOUSAND (insert cost)		
2	PURCHASE COST PER THOUSAND	\$3.91	
	PORCHASE COST I ER MOUSAND	ψ0.01	
		GALLONS	
	WATER PRODUCED or PURCHASED		
3	Water Produced		0%
4	Water Purchased \$96,404.96	24,656,000	100%
5 6	TOTAL PRODUCED AND PURCHASED TOTAL COST #VALUE!	24,656,000	
	WATER SOLD		
7	Residential	14,305,300	
8	Commercial	2,962,700	
9	Industrial	,	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	17,268,000	70.04%
14	TOTAL WATER NOT SOLD	7,388,000	29.96%
	BREAKDOWN OF WATER USAGE		
15	Water Treatment Plant		
) 16 	Wastewater Treatment Plant	126 600	#VALUE!
17	System Flushing Fire Department Usage	126,600	#VALUE!
18	DBP Flushing		
20	TOTAL USAGE		
21	WATER LOSS PERCENTAGE FOR F	RATE PURPOSES	29.45%
	BREAKDOWN OF WATER LOST		
22	Tank Overflows		
23	Excavation Breaks	0.040.500	41 / A L L IT-L
24	Repaired Line Breaks Unknown Loss	2,918,560	
25	Unknown Loss	4,342,840	17.61%
26	TOTAL WATER NOT SOLD OR USED	7,261,400	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	
"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss" "Unknown Loss"	4,342,840	
29	% "Unknown Loss"	4,042,040	
30	Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		

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Water Use Report

Wa	Water Utility:		East Logan	Water District		PWSID:	KY071	0951	
01	r the M	ionth of:	August			Year:	2019		
	1 2			PER THOUSAND R THOUSAND		(insert cost)		\$3.91	
								GALLONS	
				r PURCHASED					
	3	Water Pro			•	_			0%
	4	Water Pur	chased		\$96,729.4			24,739,000	100%
	5 6			TOTAL PRODUC TOTAL COST	#VALUE!	RCHASED		24,739,000	
	_	WATER S					r		
	7	Residentia						15,187,600	
	8 9	Commerc Industrial	lai					3,919,600	
	9 10		ing Stations						
	11	Wholesale	-						
	12		es (explain)						
	12	ounor our							
	13 14			тот	TOTAL WA [.] AL WATER I			19,107,200 5,631,800	77.24% 22.76%
	45		OWN OF WA	TER USAGE					
	15 16		eatment Plant er Treatment	Diant					
Ż	17	System Fl		Fidin				22,800	#VALUE!
	18		rtment Usage					22,000	
	19	DBP Flus							
			0						
	20					AL USAGE		22,800	00.070/
_	21	PDEAKD	OWN OF WA	WATER LOS	5 PERCENT.	AGE FOR	RAIE	URPUSES	22.67%
	22	Tank Ove		IER LUSI			—		
	23	Excavatio							
	24		Line Breaks					1,374,400	#VALUE!
	25	Unknown					L	4,234,600	17.12%
	26 27			TOTAL WATER COST OF WATER				5,609,000 #VALUE!	
		"UNKNO	WN LOSS" FI	LOW RATE AND (
	28					nown Loss		4,234,600	
	29					nown Loss		17.12%	
	30				umber of Day	-		31	
	31			Unknown Loss" pe				136,600	
	32 33		"Unknown Loss" per M "Unknown Loss" Co					94.86 VALUE!	
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Water Use Report

Water Ut	ility: East Logan Water District	PWSID: KY0710951	
or the I	Nonth of: September	Year: 2019	
1	PRODUCTION COST PER THOUSAND	(insert cost)	
2	PURCHASE COST PER THOUSAND	\$3.91	
		GALLONS	
	WATER PRODUCED or PURCHASED		
3	Water Produced		0%
4	Water Purchased	\$96,940.63 24,793,000	100%
5 6	TOTAL COST	ED AND PURCHASED 24,793,000 #VALUE!	
	WATER SOLD	10.074 700	
7	Residential	13,851,700	
8 9	Commercial Industrial	3,674,100	
9 10	Bulk Loading Stations		
10	Wholesale		
12	Other Sales (explain)		
13		TOTAL WATER SOLD 17,525,800	70.69%
14	1017	AL WATER NOT SOLD 7,267,200	<u>29.31%</u>
	BREAKDOWN OF WATER USAGE		
15	Water Treatment Plant		
16	Wastewater Treatment Plant		
- 17	System Flushing	81,140	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20		TOTAL USAGE 81,140	
21		S PERCENTAGE FOR RATE PURPOSES	28.98%
	BREAKDOWN OF WATER LOST	:	
22	Tank Overflows		
23 24	Excavation Breaks Repaired Line Breaks	1 060 360	#VALUE!
24 25	Unknown Loss	6,116,700	24.67%
20	CHRIGWIT E035	0,110,700	24.07 /0
26	TOTAL WATER	R NOT SOLD OR USED 7,186,060	i
27	COST OF WATER	R NOT SOLD OR USED #VALUE!	
		<u>хоот.</u>	I
28	"UNKNOWN LOSS" FLOW RATE AND C	"Unknown Loss" 6,116,700	
28 29		% "Unknown Loss" 24.67%	
29 30	Nı	umber of Days in Period 30	
31		er Day (Gallons per Day) 203,890	
32		Loss" per Minute (GPM) 141.59	
33		vn Loss" Cost for Month #VALUE!	
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Water Use Report

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	Water Util	ity: East Logan Water District] PWSID:	KY0710951	
(or the M	onth of: October	Year:	2019	
	1	PRODUCTION COST PER THOUSAND	(insert cost		
	2	PURCHASE COST PER THOUSAND	(insert cost	\$3.91	
	-				
				GALLONS	
•		WATER PRODUCED or PURCHASED			
	3	Water Produced			0%
	4	Water Purchased \$95,861.4		24,517,000	100%
	5		RCHASED	24,517,000	
:	6	TOTAL COST #VALUE!			
	7	Residential		11,847,000	
	8	Commercial		3,779,000	
	9	Industrial		0,770,000	
	10	Bulk Loading Stations			
	11	Wholesale			
	12	Other Sales (explain)			
		· · · /			
	13	TOTAL WA		• •	63.74%
	14	TOTAL WATER I	NOT SOLD	8,891,000	36.26%
C	15 16 17 18 19	BREAKDOWN OF WATER USAGE Water Treatment Plant Wastewater Treatment Plant System Flushing Fire Department Usage DBP Flushing		157,370	#VALUE!
	00	TOT	AL USAGE	457.070	
	20 21	WATER LOSS PERCENT			35.62%
		BREAKDOWN OF WATER LOST			00.02 /0
	22	Tank Overflows			
	23	Excavation Breaks			
	24	Repaired Line Breaks		1,798,842	#VALUE!
	25	Unknown Loss		6,934,788	28.29%
	00			0 700 000	
	26 27	TOTAL WATER NOT SOLD COST OF WATER NOT SOLD			
		"UNKNOWN LOSS" FLOW RATE AND COST:			
	28		nown Loss	" 6,934,788	
	29	% "Unk	nown Loss		
	30	Number of Da	•		
	31	"Unknown Loss" per Day (Gallo			
	32	"Unknown Loss" per Mi	•		
	33	"Unknown Loss" Cos	st for Mont	n #VALUE!	

								ELWD		R1_NUM001
				<u>Water</u>	Use Repo	<u>rt</u>			F	Page 39 of 49
Na	ter Utili	ity:	East Logan	Water District			: KY07	10951		
0	r the Mo	onth of:	November			Year:	2019			
				PER THOUSAN R THOUSAND	D	(insert cost	t)	\$3.91		
								GALLONS		
	3	WATER Water Pr Water Pu	oduced	or PURCHASED	\$95,689.4 UCED AND PI			24,473,000 24,473,000	0% 100%	
	6	MATED		TOTAL COS	T #VALUE!					
	7 8 9 10 11	Wholesa	al cial ding Stations					12,700,300 4,099,100		v
	13 14			т	TOTAL WATER	ATER SOLD		16,799,400 7,673,600	68.64% 31.36%	
)	15 16 17 18 19	Water Tr Wastewa System F	artment Usage	Plant				27,225	#VALUE! #VALUE!	
	20 21			WATER LO	TOT DSS PERCEN	AL USAGE		27,225 PURPOSES	31.24%	
	22 23 24 25	Tank Ove Excavation	on Breaks Line Breaks	ATER LOST		<u> </u>		1,881,996 5,764,379		
	26 27			TOTAL WAT COST OF WAT	ER NOT SOL			7,646,375 #VALUE!		
		"UNKNC	WN LOSS" F	LOW RATE AN				5 704 070		
	28 29 30 31 32 33				% "Un Number of Da	ons per Day linute (GPM	s" id () ()	5,764,379 23.55% 30 192,146 133.43 #VALUE!		

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Water Use Report

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\sim	Water Uti	ility: East Logan Water District	PWSID:	KY0710951	
(or the M	Month of: December	Year:	2019	
	1 2	PRODUCTION COST PER THOUSAND PURCHASE COST PER THOUSAND	(insert cost)	\$3.91	
				GALLONS	
		WATER PRODUCED or PURCHASED			
	3	Water Produced			0%
	4	Water Purchased \$93,699		23,963,000	100%
	5 6	TOTAL PRODUCED AND TOTAL COST #VALU		23,963,000	
:		WATER SOLD			
	7	Residential		12,159,300	
	8	Commercial		3,392,600	
	9	Industrial			
	10	Bulk Loading Stations			
	11	Wholesale			
	12	Other Sales (explain)		<u> </u>	
	13		WATER SOLD	• •	64.90%
;	14	TOTAL WATE	R NOT SOLD	8,411,100	35.10%
		BREAKDOWN OF WATER USAGE			
	15	Water Treatment Plant			
(16	Wastewater Treatment Plant	·		
V.,	<u> </u>	System Flushing		23,020	#VALUE!
	18	Fire Department Usage			
	19	DBP Flushing			
	20		DTAL USAGE		
	21	WATER LOSS PERCE	NTAGE FOR I	RATE PURPOSES	35.00%
	~~	BREAKDOWN OF WATER LOST			
	22	Tank Overflows			
	23 24	Excavation Breaks		1,024,780	#VALUE!
	24 25	Repaired Line Breaks Unknown Loss		7,363,300	#VALUE! 30.73%
	20	Onknown 2033		1,000,000	00.7070
	26	TOTAL WATER NOT SC		• •	
	27	COST OF WATER NOT SC	DLD OR USED	#VALUE!	
		"UNKNOWN LOSS" FLOW RATE AND COST:			
	28		Jnknown Loss"	7,363,300	
	29		Jnknown Loss"	, ,	
	30		Days in Period		
	31	"Unknown Loss" per Day (Ga			
	32	"Unknown Loss" per			
	33	"Unknown Loss"			
(Kontualar Bural Water Aces	nation

Ja	Vater Utility:		Ea	ist Logan N	Water Dis	trict	PWSID:	KY0710951	
Foi	r the M	ionth of:	Jan	uary	1		Year:	2020	
		ing Period:		2020	to	1/3	1/2020		
		-			-			•	
	1	PRODUC	TION COST	PER THO	USAND			\$0.00	
	2	PURCHAS	SE COST P	ER THOUS	SAND			\$3.91	
		WATER P	RODUCED	or PURCH	ASED			GALLONS	
	3	Water Pro				\$0.00		0	0.0%
	4	Water Pur				\$93,507.	65	23,915,000	100.0%
	5			TOTAL	PRODUC		URCHASED	23,915,000	
	6			TOTAL	_ COST	\$93,507.	65		
		WATER S	OLD						
	7	Residentia	al					11,576,700	
	8	Commerci	ial					3,970,000	
	9	Industrial						0	
	10		ing Stations					0	
	11	Wholesale	· ·	r water syst				0	
	12	Public Aut		(fire depar	tments, pi		parks, etc.)	0	
	13	Other Sale	es (explain)			0		0	
	14					TOTAL M	ATER SOLD	15,546,700	65.0%
	15						NOT SOLD		35.0%
	10							0,000,000	
~~~\		BREAKD	OWN OF W		GE				
	16		atment Plar					0	
	17	Wastewat	er Treatmei	nt Plant				0	
	18	System Fl	ushing	(routine ar	nd compla	int flushing)	)	6,300	\$24.63
	19	DBP Flush	ning	(forced tar	nk overflov	vs and hydi	rant flushing)	0	
	20	Fire Depa			ted for fire	fighting and	d training)	0	
	21	Other Usa	ige (explain	\ /					
	22					тот	AL USAGE	6,300	
		BRFAKD			ST		····		
	23		rflows (othe			enance)			
	24	Main Line				during curre	ent month)	0	
	25	Service Li			-	rent month)		704,707	\$2,755.40
	26	Line Leaks	s (calculate	• •	-				
	27		n Damage I			m leakage		0	
	28	Theft	(documen	ted)					
	• •								
	29						ATER LOST		
	30						ATER LOST	\$2,755.40	
		"UNKNO	WN LOSS"	FLOW RA	TE AND C				
	31						known Loss"		
	32						known Loss"		
	33			81 J 1			ays in Period		
	34						ons per Day)		
	35			"(			linute (GPM)		
$\sim$	36				UNKNOV	VI LOSS" CO	ost for Month	\$29,940.02	
	37	L	WATE		RCENTA			KING PURPOSES	34.97%
	07								57.31 /0

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	ater Ut	ility: East Logan Water District PWSID:	KY0710951								
Fo	or the N	Nonth of: February Year:	2020	ι.							
	Bil	ling Period: <u>2/1/2020</u> to <u>2/29/2020</u>									
	1	PRODUCTION COST PER THOUSAND	\$0.00								
	2	PURCHASE COST PER THOUSAND	\$3.91								
		WATER PRODUCED or PURCHASED	GALLONS	<u></u>							
	3	Water Produced \$0.00	0	0.0%							
	4	Water Purchased \$86,837.19	22,209,000	100.0%							
	5	TOTAL PRODUCED AND PURCHASED	22,209,000								
_	6	TOTAL COST \$86,837.19									
	7	WATER SOLD Residential	10 700 700								
	7		10,799,700								
	8 9	Commercial Industrial	4,073,300								
	9 10	Bulk Loading Stations									
	10	Wholesale (other water systems, special contracts, etc.)									
	12	Public Authorities (fire departments, public pools, parks, etc.)									
	12	Other Sales (explain)									
	10										
	14	TOTAL WATER SOLD	14,873,000	67.0%							
	15	TOTAL WATER NOT SOLD	7,336,000	33.0%							
		BREAKDOWN OF WATER USAGE									
Sand	16	Water Treatment Plant									
	17	Wastewater Treatment Plant									
	18	System Flushing (routine and complaint flushing)	0								
	19	DBP Flushing (forced tank overflows and hydrant flushing)	0								
	20	Fire Department (documented for firefighting and training)	0								
	21	Other Usage (explain)									
		Other Usage (explain)	0								
	21	TOTAL USAGE BREAKDOWN OF WATER LOST									
	21 22 23	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance)	0								
	21 22 23 24	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month)	0 319,714	\$1,250.08							
_	21 22 23 24 25	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)	0	\$1,250.08 \$935.45							
_	21 22 23 24 25 26	TOTAL USAGE         TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)       []	0 319,714 239,246								
_	21 22 23 24 25 26 27	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)       Excavation Damage Loss	0 319,714								
_	21 22 23 24 25 26	TOTAL USAGE         TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)       []	0 319,714 239,246								
_	21 22 23 24 25 26 27 28	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)         Excavation Damage Loss       (short term leakage)         Theft       (documented)	0 319,714 239,246 0								
_	21 22 23 24 25 26 27	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)       Excavation Damage Loss	0 319,714 239,246								
	21 22 23 24 25 26 27 28 29	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)         Excavation Damage Loss       (short term leakage)         Theft       (documented)         TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST	0 319,714 239,246 0 558,960								
	21 22 23 24 25 26 27 28 29 30	TOTAL USAGE         BREAKDOWN OF WATER LOST         Tank Overflows (other than for DBP maintenance)         Main Line Breaks       (long term leakage during current month)         Service Line Breaks       (repaired during current month)         Line Leaks (calculated line leakage, meter inaccuracies, etc.)       Excavation Damage Loss         Excavation Damage Loss       (short term leakage)         Theft       (documented)         TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST         "UNKNOWN LOSS" FLOW RATE AND COST:	0 319,714 239,246 0 558,960 \$2,185.53								
	21 22 23 24 25 26 27 28 29 30 31	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss"	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040								
	21 22 23 24 25 26 27 28 29 30 31 32	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss" % "Unknown Loss"	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040 <b>30.5%</b>								
	21 22 23 24 25 26 27 28 29 30 30 31 32 33	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss" % "Unknown Loss" Number of Days in Period	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040 30.5% 28								
	21 22 23 24 25 26 27 28 29 30 30 31 32 33 34	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss" % "Unknown Loss" Number of Days in Period "Unknown Loss" per Day (Gallons per Day)	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040 30.5% 28 242,037								
	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss" % "Unknown Loss" Number of Days in Period "Unknown Loss" per Day (Gallons per Day) "Unknown Loss" per Minute (GPM)	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040 30.5% 28 242,037 168.08								
	21 22 23 24 25 26 27 28 29 30 30 31 32 33 34	TOTAL USAGE BREAKDOWN OF WATER LOST Tank Overflows (other than for DBP maintenance) Main Line Breaks (long term leakage during current month) Service Line Breaks (repaired during current month) Line Leaks (calculated line leakage, meter inaccuracies, etc.) Excavation Damage Loss (short term leakage) Theft (documented) TOTAL DOCUMENTED WATER LOST COST OF DOCUMENTED WATER LOST "UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss" % "Unknown Loss" Number of Days in Period "Unknown Loss" per Day (Gallons per Day)	0 319,714 239,246 0 558,960 \$2,185.53 6,777,040 30.5% 28 242,037								

Ja	ter Uti	ility:	Ea	ist Logan W	later Dist	rict	PWSID:[	KY0710951				
For	the M	Ionth of:	Ma	rch			Year:	2020				
. 0.		ing Period:		2020	to	3/31/2	L	LULU				
					.0							
	1	PRODUCT	ION COST	PER THOU	JSAND		Γ	\$0.0	00			
	2		ASE COST PER THOUSAND						<u>91</u>			
	_											
	0		PRODUCED or PURCHASED oduced \$0.00					GALLON				
	3					-	.	00 477 00	000.0% 00100.0%			
	4	Water Purc	chased	TOTAL		\$91,795.07	L .	23,477,00				
	5 6			TOTAL		ED AND PUF \$91,795.07		23,477,00	0			
<u></u>	0	WATER SO		TOTAL	0031	φ91,790.07						
	7	Residential				•	]	12,871,90	00			
	8	Commercia	al					4,600,80				
	9	Industrial							0			
	10	Bulk Loadi	ng Stations	5					0			
	11	Wholesale	-		ems, spec	ial contracts	etc.)		0			
	12	Public Auth	•			iblic pools, pa			0			
	13	Other Sale							0			
			- (			*						
	14					TOTAL WAT	ER SOLD	17,472,70	00 74.4%			
	15				ΤΟΤΑ	L WATER N	OT SOLD	6,004,30	00 <b>25.6%</b>			
				ATER USA	GE							
	16	Water Trea										
	17	Wastewate										
	18	System Flu		(routine and				22,10				
	19	DBP Flush	-	•		is and hydrai			0			
	20	Fire Depar		•	ed for fire	fighting and t	raining)		0			
	21	Other Usa	ge (explain	·								
	22		TOTAL USAGE 22,100									
		BREAKDOWN OF WATER LOST										
	23		•	r than for DI		,			_			
	24	Main Line I				uring current	month)	-	0			
	25	Service Lir		(repaired d	-			3,763,0	30 \$14,713.45			
	26					inaccuracies	, etc.)					
	27	Excavation	•		(short ter	m leakage)		303,7	<u>19</u> \$1,187.54			
	28	Theft	(document	ted)								
	29			ΤΟΤΔΙ	DOCUM		ER LOST	4,066,7	49			
	30					ENTED WAT		\$15,900.				
								÷. 0,000				
	31		VN LUSS"	FLOW RAT	E AND C		own Loss"	1,915,4	51			
							iown Loss					
	32				K L.			8.2				
	33			II Internet		Imber of Day			30			
	34				•	r Day (Gallon	• • • •	63,8				
		1		"U	nknown L	.oss" per Min	• •	44.				
x X	35							****	A A			
	35 36					n Loss" Cos	t for Month	\$7,489.	41			
ر مسمع			WATE		"Unknow			\$7,489. KING PURPOSI				

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Jater l	Jtility:	Eas	st Logan Wa	ter Distr	ict	PWSID:	KY0710951	
For the	Month of:	Ар	ril			Year:	2020	
	illing Period:			to	4/30/2	2020		
	-			-				
1			PER THOUS				\$0.00	
2	PURCHAS	SE COST PE	R THOUSA	ND		L	\$3.33	
	WATER P	RODUCED	or PURCHAS		GALLONS	<u></u>		
3	Water Pro				\$0.00	Г	0	0.0%
4	Water Pur	chased			\$71,515.08	-	21,476,000	100.0%
5					d and puf		21,476,000	
6			TOTAL C	OST	\$71,515.08			
_	WATER S					-	(0.000.000)	
7	Residentia						12,303,400	
8	Commerci	al				Ļ	3,799,600	
9	Industrial	na Stationa						
10 11	Wholesale	ing Stations	water system		al contracto	oto) -		
12	Public Aut		(fire departm					
12		es (explain)	(ine departing	enis, pub	nic pools, pe			
10	Other Out					<b>!</b>		
14				т	OTAL WAT	ER SOLD	16,103,000	75.0%
15				TOTAL	WATER N	OT SOLD	5,373,000	25.0%
$\rightarrow$			ATER USAGI	E		-		
16		atment Plan				Ļ		
17		er Treatmen				-	470.000	<b>#</b> 500 70
18	System Fl		(routine and (			t flughing)	179,800	\$598.73
19 20	DBP Flush Fire Depa	-	(forced tank ( (documented		-	- · -	0	
20		ge (explain)	(uocumenteo		ynnny and t		U	
E1		go (oxpiairi,						
22					ΤΟΤΑ	L USAGE	179,800	
			ATER LOST			-		
23		•	than for DBF		•			
24	Main Line		(long term lea	•	•	month)	564,209	\$1,878.82
25	Service Li		(repaired dur			- 4 - 1	3,782,370	\$12,595.29
26		•	line leakage			, etc.)	25.005	\$86.56
27 28	Theft	n Damage L (documente	•	mont term	i leakage)	F	25,995	900.00
20	men	laocament	suj			L		
29			TOTAL C	OCUME		ER LOST	4,372,573	
30			COST OF D				\$14,560.67	
	"UNKNO	WN LOSS" I	LOW RATE					
31					"Unkn	own Loss"	820,627	
32						own Loss"	3.8%	
33					nber of Day		29	
34			"Unknown L				28,297	
35					oss" per Min	• •	19.65	
36			"	Unknowr	n Loss" Cost	t for Month	\$2,732.69	
37		WATER	LOSS PFR		E FOR PSC	RATEMAN	ING PURPOSES	24.18%
01								A 111070

Ja	Jater Utility:		Ea	ast Logan W	ater Dist	rict	PWSID:	KY0710951	
For	r the M	lonth of:	M	lay			Year:	2020	7
	Bill	ing Period:		2020	to	5/31	/2020		]
									_
	1			r per thou				\$0.0	
	2	PURCHAS	SE COST P	PER THOUSA	AND			\$3.3	3
		WATER P	RODUCED	or PURCHA	SED			GALLON	S
	3	Water Pro				\$0.00			0.0%
	4	Water Pur	chased			\$73,200.0	6	21,982,00	0 100.0%
	5					ed and pu		21,982,00	0
	6			TOTAL	COST	\$73,200.0	6		
	_	WATER S							-
	7	Residentia						13,225,90	
	8	Commerc	ial					3,229,70	0
	9	Industrial	ing Stations						_
	10 11	Wholesale	ing Stations	s er water syste	me enoo	ial contract	e oto )		
	12	Public Aut	•	fire departn			•		-
	13		es (explain)	· ·	nonto, pu		ano, etc.)		_
						, ·			
	14					FOTAL WA			0 74.9%
	15				ΤΟΤΑ	L WATER	NOT SOLD	5,526,40	<u>0 25.1%</u>
- <									
)	4.0			ATER USAG	<b>BE</b>			r	<u></u>
	16		atment Pla					· · ·	0
	17 18	System FI	er Treatme	(routine and	loomoloii	ot fluching)		106,12	0 \$353.38
	19	DBP Flus		(forced tank			ant flushing'		0 \$353.38
	20	Fire Depa	•	(documente				/	0
	21		age (explain			igning and		<u> </u>	
			0	·				•	I
	22					тот/	AL USAGE	106,12	:0
		BREAKD	OWN OF V	VATER LOS	Г				<b>_</b>
	23			er than for DB					0
	24	Main Line		(long term le			nt month)	32,82	
	25		ne Breaks	(repaired du	•	,		1,362,89	0 \$4,538.42
	26		•	d line leakag			s, etc.)	· [	
	27 28	Theft	n Damage   (documen		snort terr	n leakage)			0
	20	THEIL	(uocumen	neu)					
	29			TOTAL	DOCUM	ENTED WA	TER LOST	1,395,71	6
	30					ENTED WA			
		UNKNO	WN LOSS"	FLOW RATE	E AND C	OST:			
	31					"Unk	nown Loss'	' 4,024,56	64
	32						nown Loss'		
	33					mber of Da	-		0
	34			"Unknown I					
1	35					oss" per Mi			
	36				UNKNOW	n Loss" Co	st tor Month	a \$13,401.8	
	37	L	WATE			F FOR PS		KING PURPOSE	S 24.66%
	57		MAIE						24.00 /0

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);	/ater Utility:		Ea	st Logan Wa	ater Distr	rict	PWSID:[	KY0710951	
Fo	or the M	onth of:	Ju	ne			Year:	2020	
		ng Period:		2020	to	6/30/2	L		
		•							
	1	PRODUCT	TION COST	PER THOU	SAND		ſ	\$0.00	
	2	PURCHAS	SE COST P	ER THOUSA	ND			\$3.33	
, <u> </u>			PODUCED	or PURCHA	950			GALLONS	
	3	Water Pro		UI FUNCIA	Г		0.0%		
	4	Water Pur				\$0.00 \$81,838.08	F	24,576,000	100.0%
	5	Trator r ar	onaooa	TOTAL P	RODUCE	D AND PUF		24,576,000	1001070
	6			TOTAL C		\$81,838.08		, , , , , , , , , , , , , , , , , , , ,	
—		WATER S	OLD	· · · · · · · · · · · · · · · · · · ·					
	7	Residentia	al				ſ	16,513,500	
	8	Commerci	ial				ľ	3,911,100	
	9	Industrial						0	
	10	Bulk Load	ing Stations	i -			[	0	
	11	Wholesale	e (othe	r water syster				0	
	12	Public Aut		(fire departm	ients, pul	olic pools, pa	arks, etc.)	0	
	13	Other Sale	es (explain)					0	
					_			00 404 000	00.494
	14 15					OTAL WAT L WATER N		20,424,600 4,151,400	83.1%
	15			· · · · · · · · · · · · · · · · · · ·				4,151,400	16.9%
~~~				ATER USAG	F				
)	16		atment Plai		0				
	17		er Treatme					0	:
	18	System Fl		(routine and	complair	nt flushina)		16,000	\$53.28
	19	DBP Flush		(forced tank			nt flushina)	0	
	20	Fire Depa		(documente				0	
	21		ige (explain			0 0	0,	0	
				•		TOTA		40.000	
_	22						L USAGE	16,000	
				VATER LOST					
	23		•	r than for DB				0	<u> </u>
	24	Main Line		(long term le			month)	2,247,978	\$7,485.77
	25		ne Breaks	(repaired du	-	•	ete)	935,256	\$3,114.40
	26			d line leakage			, etc.)	0	
	27 28	Theft	n Damage I (documen	•	short tern	n leakage)		0	
	20	THEIL	luocumen	leu)				0	
	29			TOTAL	DOCUME		ER LOST	3,183,234	
	30					ENTED WAT		\$10,600.17	
	<u></u>	UNKNO	WN LOSS"	FLOW RATE	AND CO	OST:		·······	
	31		, -				own Loss"	952,166	
	32						own Loss"	3.9%	
	33				Nu	mber of Day	s in Period	29	
	34					Day (Gallon		32,833	
N E	35					oss" per Min		22.80	
\bigcirc	36				"Unknow	n Loss" Cos	t for Month	\$3,170.71	
	<i>•</i> –								
	37		WATER	R LOSS PER	CENTAG	E FOR PSC	RATEMA		16.83%
								Allera	

/ater Utility:			Ea	ast Logan Wa	ter Dist	rict	PWSID:	KY0710951			
For the Month of:			J	uly			Year:	2020			
	Bill	ing Period:		2020	to	7/31/					
	1		FION COST	\$0.00							
	2	PURCHAS	SE COST P	\$3.33							
		WATER PRODUCED or PURCHASED GALLONS									
	3	Water Pro				\$0.00		0	0.0%		
	4	Water Purchased \$79,893.36						23,992,000	100.0%		
	5					ED AND PUI		23,992,000			
	6			TOTAL		\$79,893.36)				
	7	WATER SOLD Residential 14,624,300									
	8	Commercial						3,397,500			
	9	Industrial					F	0,007,000			
	10		ing Stations	5			Ē				
	11	Wholesale (other water systems, special contracts, etc.)									
	12	Public Aut	horities	(fire departm	ents, pu	blic pools, pa	arks, etc.)				
	13	Other Sale	es (explain)	· · · · · · · · · · · · · · · · · · ·							
					_			40.004.000			
	14 15					TOTAL WAT		18,021,800	75.1%		
	10							5,970,200	24.9%		
·····		BREAKDO	OWN OF W	ATER USAG	E						
J.	16		atment Pla		-		۲				
	17		er Treatme				F				
	18	System Flu	ushing	(routine and	complai	nt flushing)		77,000	\$256.41		
	19	DBP Flush	•	(forced tank		•		0			
	20	Fire Depar		(documented	d for firef	fighting and f	training)	0			
	21	Other Usa	ge (explain	· · · · · · · · · · · · · · · · · · ·							
	22					ΤΟΤΑ	L USAGE	77,000			
_		BREAKD	OWN OF V	VATER LOST		1.200 H					
	23	Tank Over	flows (othe	r than for DB	^o mainte	enance)	Γ				
	24	Main Line		(long term le		•	t month)	1,929,330	\$6,424.67		
	25	Service Lir		(repaired dur			Ī	1,174,901	\$3,912.42		
	26		•	d line leakage			s, etc.)				
	27		n Damage I	•	short terr	m leakage)	_	10,644	\$35.44		
	28	Theft	(documen	ted)			L				
	29			TOTAL I	DOCUM	ENTED WA	TER LOST	3,114,875			
	30					ENTED WA		\$10,372.54			
<u>,</u>			VN LOSS"	FLOW RATE		OST:		·			
	31	"UNKNOWN LOSS" FLOW RATE AND COST: "Unknown Loss"						2,778,325			
	32						nown Loss"	11.6%			
	33				Nu	mber of Day	s in Period	30			
	34	1			•	Day (Gallor	• • • •	92,611			
) }	35	1				oss" per Mir	• •	64.31			
	36			**	Unknow	n Loss" Cos	t for Month	\$9,251.82			
	27	L	\\/ \ T				DATEMAN		24 500/		
	37		WATE	LUSS PERU		DE FUR PSU			24.56%		

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Y0710951	PWSID: K	East Logan Water Distri	Vater Utility: For the Month of:						
2020	Year:	August							
			Billi						
\$0.00	· · · · · · · · · · · · · · · · · · ·	TION COST PER THOUSAND	1						
\$3.33		ASE COST PER THOUSAND							
	L								
GALLONS	r	PRODUCED or PURCHASED	0						
0 0.0 24,125,000 100.0		oduced urchased	3						
, ,		TOTAL PRODUCEI	4						
24,125,000			5 6						
TOTAL COST \$80,336.25 WATER SOLD									
14,377,500		ial	7						
3,909,000		cial	8						
			9						
		ding Stations	10						
	tracts, etc.)	le (other water systems, specia	11						
	ols, parks, etc.)	uthorities (fire departments, publ	12						
		les (explain)	13						
18,286,500 75.8	WATER SOLD	т	14						
5,838,500 24. 2	ER NOT SOLD		15						
	· · ·								
		DOWN OF WATER USAGE							
		eatment Plant	16						
		ater Treatment Plant	17						
180,425 \$600.		-lushing (routine and complaint	18						
0		shing (forced tank overflows	19						
0	and training)	artment (documented for firefig	20						
		age (explain)	21						
180,425	TOTAL USAGE 180,425								
		DOWN OF WATER LOST							
		erflows (other than for DBP mainten	23						
2,318,710 \$7,721		e Breaks (long term leakage du	24						
1,112,053 \$3,703	,	ine Breaks (repaired during curre	25						
4 E70 740 0E 000		ks (calculated line leakage, meter in	26						
1,579,710 \$5,260	ige)	on Damage Loss (short term	27						
	L	(documented)	28						
5,010,473	WATER LOST	TOTAL DOCUME	29						
\$16,684.87	WATER LOST	COST OF DOCUME	30						
		OWN LOSS" FLOW RATE AND CO							
647,602	"Unknown Loss"		31						
2.7%	"Unknown Loss"		32						
0	f Days in Period		33						
	Gallons per Day)	"Unknown Loss" per [34						
#DIV/0!		"Introvent o	25						
#DIV/0!	er Minute (GPM)		35						
	er Minute (GPM) " Cost for Month		35 36						

(

)/ater U	tility: East Logan Water District PWSID:	KY0710951	
For the	Month of: September Year:	2020	
	lling Period: to		
1	PRODUCTION COST PER THOUSAND	\$0.00	
2	PURCHASE COST PER THOUSAND	\$3.33	
	WATER PRODUCED or PURCHASED	GALLONS	
3	Water Produced \$0.00	0	0.0%
4	Water Purchased \$75,644.28	22,716,000	100.0%
5	TOTAL PRODUCED AND PURCHASED	22,716,000	
6	TOTAL COST \$75,644.28		
	WATER SOLD		
7	Residential	12,959,400	
8	Commercial	3,904,400	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale (other water systems, special contracts, etc.)		
12	Public Authorities (fire departments, public pools, parks, etc.)		
13	Other Sales (explain)		
<i>.</i> .	TATAL MATER AND	10 000 000	74 00/
14 15	TOTAL WATER SOLD TOTAL WATER NOT SOLD	16,863,800	74.2%
15	TOTAL WATER NOT SOLD	5,852,200	25.8%
\ \	BREAKDOWN OF WATER USAGE		
16	Water Treatment Plant		
17	Water Treatment Plant		
18	System Flushing (routine and complaint flushing)	56,550	\$188.31
19	DBP Flushing (forced tank overflows and hydrant flushing)		φ100.01
20	Fire Department (documented for firefighting and training)	0	
20	Other Usage (explain)		
21			
22	TOTAL USAGE	56,550	
	BREAKDOWN OF WATER LOST		
23	Tank Overflows (other than for DBP maintenance)		
24	Main Line Breaks (long term leakage during current month)	98,096	\$326.66
25	Service Line Breaks (repaired during current month)	794,332	\$2,645.13
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)		• • • • • • •
27	Excavation Damage Loss (short term leakage)	89,203	\$297.04
28	Theft (documented)		
29	TOTAL DOCUMENTED WATER LOST	981,631	
30	COST OF DOCUMENTED WATER LOST	\$3,268.83	
	WUNKNOWN LOSS" FLOW RATE AND COST:	1	
31	"Unknown Loss"	4,814,019	
32	% "Unknown Loss"	21.2%	
33	(insert billing period dates at top of page) Number of Days in Period	21.2/0	
34	"Unknown Loss" per Day (Galions per Day)	#DIV/0!	
35	"Unknown Loss" per Day (Gallons per Day)	#DIV/0!	
36	"Unknown Loss" Cost for Month	\$16,030.68	
		,	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKI	NG PURPOSES	25.51%
		2019 Ken	tucky Rural Water As
		2013	-

(

2. Explain whether there has been any change in the way monthly water loss is being reported for the past five years.

RESPONSE: Since January 2020, ELWD downloaded and has been utilizing the KRWA Monthly Accountability Water Loss Forms, and these are being completed monthly. In addition, water loss is also being tracked by SCADA zones to determine which areas have the highest loss.

Over the last five years, employees have been expected to complete logs for flushing and estimated water loss from leak repairs. These forms have been used to create the water loss reports. There have been times, because of an operator leaving, that the Manager cannot guarantee everything was accounted for. ELWD has had 5 operators employed from September 2015 to January 2020, with no 2 operators overlapping. Water loss for 2019 was difficult to ascertain because of the possibility that not everything was recorded that could be used in water loss. The Manager has only reported flushing and/or leaks that there were records for, even when she felt there was flushing that was not recorded. ELWD currently has an operator on payroll to provide guidance when needed and to sign necessary forms.

3. Provide any steps East Logan District has taken in the last five years to reduce its unaccounted for water loss percentage.

RESPONSE: In the last 5 years, ELWD has taken steps to reduce water loss. Some steps include repairing a leak detector, purchasing a new leak detector, reaching out to KRWA for guidance in leak detection, and hiring additional personnel to look for leaks. ELWD investigates every possible leak that a customer may report. If the water will not test for chlorine, we take a sample to the lab to test for fluoride. ELWD has, on a routine basis whenever possible, sounded the meters for leaks. ELWD has asked KRWA for training on using flow meters to help detect leaks. It has also used our SCADA master meters to help determine where a large break happens, to find the leak in a timely manner

4. State whether East Logan District has completed a water loss detection plan. If the answer is yes, provide a copy of the last completed plan. If not, explain why.

RESPONSE: Please see the attached Water Loss Prevention/Leak Detection Plan, Leak Detection Procedures, and Service Line Replacement Procedures.

East Logan Water District

Water Loss Prevention/Leak Detection Plan

The East Logan Water District has implemented the following steps to prevent or reduce water loss and these steps are incorporated into a Water Loss Prevention/Leak Detection Plan:

- 1. Master meters to our 4 entry points are read daily and at the same time each day. This will minimize water loss due to a large leak that can go undetected for a week or month.
- 2. We read all meters in the distribution system within a 2 day window in one cycle.
- 3. The District utilizes computer billing software to generate Water Loss Reports based on gallons purchased from wholesale provider and gallons sold per the meter readings. Water for breaks, leaks, and hydrant flushing is accounted for within the report.
- 4. We will test and change out all meters as recommended by industry standards. PSC encourages residential meters to be tested and changed out in 10 year intervals.
- 5. We identify sections of pipe in the distribution system with the most frequent line breaks. Budgeting for infrastructure replacement is imperative in any water utility.
- 6. The District has determined having a main transmission line from the master meter to a water storage tank will reduce pressure fluctuations in the distribution system and result in fewer line breaks.
- 7. The District provides the necessary resources for manpower and equipment to properly maintain the distribution system appurtenances such as gate valves, pressure reducing valves, and hydrants.
- 8. All storage facilities and four entry points are monitored constantly by SCADA. The District monitors water flow within twelve zones by SCADA as well.



Leak Detection Procedures

Locate area where your suspect leak (low pressure, excessive ground water, sink holes, etc.) Locate valves that will isolate the area or subdivision Shut valves off and

let stand five minutes Turn valve on 1 % - 2 turns Using proper leak detection equipment (amplifier) listen to valve by placing amplifier on valve key handle Listen to all service connections in area with amplifier by placing amplifier on service line Listen to all hydrants in area by placing amplifier on top, middle, and bottom of hydrant Listen to all valves in area by placing amplifier on valve key handle After discovering a leak; pinpoint by using steel thumbtack plate and cup amplifier by placing along water line (may be helpful to use locater to locate line if copper or other metal conduit) Fill out work order for repair of leak Call B.U.D. Locate when ready to repair

Leak Detection is Best Done at Night

Service Line Replacement Procedures After finding a service that needs replaced, fill out a work order and call in for locates. When the line has leaked it shall be replaced from meter to main. The new line shall be one piece. (Do not piece together unless the service requires). Make sure to notify the customers that will be affected. Expose existing line before shutting off to lessen the down time Replace line with desired size and using correct fittings Cover up excavated area as well as possible (be sure to remove old line, tools and make sure corporation stop is in the on position). Complete work order and fill out a yard or street repair if needed and turn in. G.P.S. the new service for future reference.

5. State whether East Logan District completed a comprehensive unaccounted for water loss reduction plan. If the answer is yes, provide a copy of the last completed plan. If not, explain why.

RESPONSE: Please see the attached Water Loss Control Plan.

EAST LOGAN WATER DISTRICT

WATER LOSS CONTROL PLAN

October 2, 2006

EAST LOGAN WATER DISTRICT (ELWD) is very concerned with their water loss and will make a concentrated effort to reduce this loss. **ELWD** will begin the process of evaluating a plan to reduce the water loss to a manageable number.

ELWD is making water loss one of their top priorities. Currently **ELWD** has a system wide telemetry system that allows the monitoring and control of their tanks and pump stations in the most efficient, productive way. The following steps are being planned and in the process of implementing to control the water loss.

- To assure that all customer meters are accurate, ELWD will check, test, and certify all production meters (residential and wholesale customer meters) are tested on an annual basis in accordance with Public Service Commission regulation, 807 KAR 5:066 Section 15(2)(a). System personnel will replace old meters, take meters to a testing facility, or have the large meters tested in place. ELWD has already began this and will continue to test and replace meters on a yearly schedule.
- 2. Assure that smaller customer meters are on a written replacement rotation plan. The current meter suppliers are providing an estimate of how long a meter are expected to work accurately. Our policy will specify that the meter should be replaced after a certain number of years or after a certain volume of water flows through the meter. ELWD is currently doing this and will continue to do this on a 10 year rotation.

- 3. ELWD will address the oldest distribution systems area first, which is believed to have the largest water loss. This in now in the process and we project to have this completed within 6 months.
- 4. ELWD will consult with Kentucky Rural Water Association (KRWA), and/or obtain the assistance of an outside leak detection firm to survey large portions of the system of leaks. ELWD will limit the survey to a portion of the oldest system first, to reduce the possible increase in cost for this effort. ELWD will then develop a plan for other portions of the system in the next budget depending on the outcome of the initial survey. Within a two or three year period, ELWD anticipates to have completed a leak detection survey of the entire water distribution system.
- 5. ELWD has purchased within the last ten months inexpensive, simple equipment to assist in finding leaks at valves, meters, and hydrants. ELWD has trained their system personnel to find and repair easy leaks, prior to obtaining outside assistance from leak detection firms. This should save ELWD from incurring any additional expense and allow a concentrated effort in locating larger and more difficult to leaks.
- 6. Within the next six months, **ELWD** will consult with KRWA or an outside leak detection firm to establish a plan for surveying portions of the system.
- 7. ELWD personnel will monitor the unmetered water use.
 - a. **ELWD** manager will work closely with the fire departments to obtain reliable estimates of how much water was used in fire

protection every month. **ELWD** is projecting this to be done within the next three months.

- b. Correct other unmetered water uses within the system by better estimating the amount used for flushing fire hydrants; repair found leaks; water theft or other facilities. ELWD is projecting this to be done within the next three months.
- c. Wholesale meters are read on a daily basis and efforts are being made to insure meters at each booster pump station work properly to allow for recording the volume pumped each day via the telemetry system.
- d. Additional meters will be installed in each sub-section, as funding becomes available. ELWD is projecting that this will take 24 to 36 months to complete.

The water loss control plan should allow **ELWD** to better determine the actual water loss on a monthly basis. By following this plan and dividing the system into smaller sub-sections will allow for timely identification of potential leaks or large water loss.

6. Describe and provide the results of water loss projects that East Logan District has initiated from January 2015 to the present.

RESPONSE: Efforts of ELWD to reduce water loss is described in response to Item number 3 above. ELWD has not attempted to quantify specific results of those measures.

7. Provide a copy of East Logan District's most recent annual and long range capital improvement plans. Include the names and entities responsible for assisting East Logan District with capital improvements planning, grant application assistance, engineering design and construction services.

RESPONSE: ELWD does not maintain a specific annual and long range capital improvement plan. It has identified capital improvement projects that have been entered into the Water Resource Information System and are being reviewed for possible funding. One of those projects involves the upgrading of the SCADA system. When bids were requested, only one bid was received and it was significantly over budget. Accordingly, the Board voted not to proceed with the project.

8. Provide a copy of East Logan District's preventative maintenance program for the plant, pumps, and storage facilities.

RESPONSE: ELWD does not have a treatment plant. Information on the preventative maintenance policies for ELWD's pumps and storage tanks is attached hereto.

9. State whether leak detection is conducted on a daily basis. If leak detection is not conducted daily, explain why.

RESPONSE: It has been the goal to dedicate a worker to sounding daily. We have purchased new sounding equipment and are trying to systematically sound the system, one zone at a time. However, this is not always possible because of more immediate needs popping up that have to be addressed, such as main line leaks and service line leaks.

Every day, as various work orders are being completed, the workers are "leak detecting." When unlocking or locking meters, we check for possible leaks— connections, fittings, busted meter bottoms, wet areas around meters, running water, etc. When traveling to complete work orders, our operators conduct visual inspection of the area looking for running water, wet areas, green areas in dry weather, melted snow in winter, etc.

10. State the average age of East Logan District's distribution mains.

RESPONSE: ELWD does not have the specific calculation for an average age of its distribution mains. Many distribution mains were installed in 1978 to 1980 when the ELWD began providing service to customers. The majority of mains in the system were installed between 1979 and 2000, and there have been a few installation projects over the last twenty years.

11. Provide the vintage of East Logan District's oldest distribution main and the vintage of its newest distribution main.

RESPONSE: It is believed that the oldest distribution mains in the system were installed in 1978 or 1979. The last distribution main was installed along Lindsey Lane in 2014.

12. State whether East Logan District mapped the entire distribution area for service connections to include mapping of its system, and identifying parts of its system with repeated breaks.

RESPONSE: ELWD has maps of its system. Meters have GPS coordinates, as do most valves in the system. However, the service connections are not mapped and the repeated breaks have not been mapped.

13. Provide the dates on which the utility's master meters were last tested and the results of the tests.

RESPONSE: The master meters receiving water from Logan-Todd Regional Water Commission were tested on May 26-28, 2020. The results are attached.

14. Provide copies of each work order generated to investigate leaks reported by customers of the utility for the past four years.

RESPONSE: Please see the attached work orders filed separately.

15. Provide a copy of East Logan District's policy for dealing with apparent theft of water.

RESPONSE: ELWD does not have a written policy regarding theft. When theft is suspected, ELWD contacts the police to report the incident and allow the police to investigate with us.

16. Provide a copy of East Logan District's policy for determining whether a leak adjustment to a customer's account is warranted and identify the persons authorized to approve leak adjustments.

RESPONSE: East Logan Water District allows one leak adjustment per customer annually. The leak adjustment is made by determining the customer's average usage for the prior six months. The monthly average is charged at the current retail rate. All water used in excess of the prior six month average will be billed at the rate specified in the rates and charges section of the tariff.

If a customer has a leak causing their water bill to increase, they can request a leak adjustment provided the leak has been repaired. The customer is requested to provide a copy of the repair bill. If the customer repaired the problem on their own, a signed written statement of the nature of the leak and action taken to make the repairs is requested.

Office personnel, trained by the Manager, compute the adjustment, inform the customer of the adjusted amount, and explain the policy of only one leak adjustment annually for a repaired leak. If the customer chooses to take the adjustment, it is applied to their account.