

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

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: October

Year: 2016

Water Produced this month: gallons
Water Purchased this month: 17,993,000 gallons

A: Total Water Produced and Purchased = **17,993,000 gallons**

Sold: Residential 14,378,300 gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = **14,378,300 gallons**

B: Difference: (Produced+Purchased) - Sold = **3,614,700 gallons**

% Difference = **20 % total water loss**

Gallons of Water Accounted For:

Breaks (Estimated Total)	10,000	gallons
Hydrant Flushing	26,700	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 Gallons Accounted For = **36,700 gallons**

Loss: Unaccounted-for Water: (B-C) = **3,578,000 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **20 % unaccounted - for loss**

Gallons / Day Loss = 31 days in month **115,419 gallons/day**
Gallons / Minute Loss = **80 gallons/min.**

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: November

Year: 2016

Water Produced this month: gallons
Water Purchased this month: 16,706,000 gallons

A: Total Water Produced and Purchased = **16,706,000 gallons**

Sold:	Residential	12,524,100 gallons
	Commercial	 gallons
	Water Salesman	 gallons

Total Sold = **12,524,100 gallons**

B: Difference: (Produced+Purchased) - Sold = **4,181,900 gallons**

% Difference = **25 % total water loss**

Gallons 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 Gallons Accounted For = **83,800 gallons**

Loss: Unaccounted-for Water: (B-C) = **4,098,100 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **25 % unaccounted - for loss**

30 days in month

Gallons / Day Loss = **136,603 gallons/day**

Gallons / Minute Loss = **95 gallons/min.**

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: December

Year: 2016

Water Produced this month: gallons
Water Purchased this month: 16,743,000 gallons

A: Total Water Produced and Purchased = **16,743,000 gallons**

Sold:	Residential	12,304,500 gallons
	Commercial	 gallons
	Water Salesman	 gallons

Total Sold = **12,304,500 gallons**

B: Difference: (Produced+Purchased) - Sold = **4,438,500 gallons**

% Difference = **27 % total water loss**

Gallons of Water Accounted For:

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 Gallons Accounted For = **56,800 gallons**

Loss: Unaccounted-for Water: (B-C) = **4,381,700 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **26 % unaccounted - for loss**

Gallons / Day Loss = 31 days in month

Gallons / Minute Loss = **141,345 gallons/day**

Gallons / Minute Loss = **98 gallons/min.**

Monthly Water Loss Report

Water Company:

For the Month of:

Year:

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 17,561,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 13,366,200 gallons

B: Difference: (Produced+Purchased) - Sold = 4,194,800 gallons

% Difference = 24 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="182,650"/>	gallons
Hydrant Flushing	<input type="text" value="0"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text" value="0"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = 182,650 gallons

Loss: Unaccounted-for Water: (B-C) = 4,012,150 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 23 % unaccounted - for loss

days in month
Gallons / Day Loss = 129,424 gallons/day
Gallons / Minute Loss = 90 gallons/min.

Monthly Water Loss Report

Water Company: **East Logan Water District**

For the Month of: **February** Year: **2017**

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 15,202,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 11,410,200 gallons

B: Difference: (Produced+Purchased) - Sold = 3,791,800 gallons

% Difference = 25 % 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

107,310	gallons
0	gallons
0	gallons
0	gallons
0	gallons
	gallons
0	gallons
	gallons
	gallons

C: Total Gallons Accounted For = 107,310 gallons

Loss: Unaccounted-for Water: (B-C) = 3,684,490 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 24 % unaccounted for loss

days in month

Gallons / Day Loss = 131,589 gallons/day

Gallons / Minute Loss = 91 gallons/min.

Monthly Water Loss Report

Water Company: **East Logan Water District**

For the Month of: **March** Year: **2017**

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 16,893,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 12,793,800 gallons

B: Difference: (Produced+Purchased) - Sold = 4,099,200 gallons

% Difference = 24 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="127,000"/>	gallons
Hydrant Flushing	<input type="text" value="0"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text" value="0"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = 127,000 gallons

Loss: Unaccounted-for Water: (B-C) = 3,972,200 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 24 % unaccounted - for loss

days in month
Gallons / Day Loss = 128,135 gallons/day
Gallons / Minute Loss = 89 gallons/min.

This spreadsheet is a product of the Technical Assistance Center for Water Quality at Western Kentucky 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!

Monthly Water Loss Report

Water Company:

For the Month of: Year:

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 16,769,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 13,433,700 gallons

B: Difference: (Produced+Purchased) - Sold = 3,335,300 gallons

% Difference = 20 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="89,125"/>	gallons
Hydrant Flushing	<input type="text" value="0"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text" value="0"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = 89,125 gallons

Loss: Unaccounted-for Water: (B-C) = 3,246,175 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 19 % unaccounted - for loss

**Gallons / Day Loss = days in month
 108,206 gallons/day
 Gallons / Minute Loss = 75 gallons/min.**

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: May Year: 2017

Water Produced this month: gallons
 Water Purchased this month: 18,592,000 gallons

A: Total Water Produced and Purchased = **18,592,000 gallons**

Sold:	Residential	15,282,900 gallons
	Commercial	 gallons
	Water Salesman	 gallons

Total Sold = **15,282,900 gallons**

B: Difference: (Produced+Purchased) - Sold = **3,309,100 gallons**

% Difference = **18 % total water loss**

Gallons of Water Accounted For:

Breaks (Estimated Total)	235,631 gallons
Hydrant Flushing	200,300 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 Gallons Accounted For = **436,931 gallons**

Loss: Unaccounted-for Water: (B-C) = **2,872,169 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **15 % unaccounted - for loss**

Gallons / Day Loss = 31 days in month
92,651 gallons/day

Gallons / Minute Loss = **64 gallons/min.**

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: june Year: 2017

Water Produced this month: gallons
 Water Purchased this month: 18,592,000 gallons

A: Total Water Produced and Purchased = 18,592,000 gallons

Sold: Residential 15,485,700 gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 15,485,700 gallons

B: Difference: (Produced+Purchased) - Sold = 3,106,300 gallons

% Difference = 17 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	106,000	gallons
Hydrant Flushing	10,000	gallons
Storage Tank Overflow	0	gallons
Water Treatment Plant Use	0	gallons
Wastewater Treatment Plant Use		gallons
Fire Department Use	4,000	gallons
Net Computer Adjustment + / -		gallons
Other		gallons

C: Total Gallons Accounted For = 120,000 gallons

Loss: Unaccounted-for Water: (B-C) = 2,986,300 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 16 % unaccounted - for loss

Gallons / Day Loss = 30 days in month 99,543 gallons/day
Gallons / Minute Loss = 69 gallons/min.

Monthly Water Loss Report

Water Company: East Logan Water District

For the Month of: July Year: 2017

Water Produced this month: gallons
 Water Purchased this month: 22,441,000 gallons

A: Total Water Produced and Purchased = **22,441,000 gallons**

Sold:	Residential	18,140,200 gallons
	Commercial	 gallons
	Water Salesman	 gallons

Total Sold = **18,140,200 gallons**

B: Difference: (Produced+Purchased) - Sold = **4,300,800 gallons**

% Difference = **19 % total water loss**

Gallons of Water Accounted For:

Breaks (Estimated Total)	1,143,150	gallons
Hydrant Flushing	369,631	gallons
Storage Tank Overflow	0	gallons
Water Treatment Plant Use	0	gallons
Wastewater Treatment Plant Use		gallons
Fire Department Use	1,500	gallons
Net Computer Adjustment + / -		gallons
Other		gallons

C: Total Gallons Accounted For = **1,514,281 gallons**

Loss: Unaccounted-for Water: (B-C) = **2,786,519 gallons**

% Loss: Unaccounted-for Water: (B-C)/A %= **12 % unaccounted - for loss**

Gallons / Day Loss = 31 days in month
Gallons / Minute Loss = **89,888 gallons/day**
62 gallons/min.

Monthly Water Loss Report

Water Company:

For the Month of: Year:

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 22,122,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 15,856,300 gallons

B: Difference: (Produced+Purchased) - Sold = 6,265,700 gallons

% Difference = 28 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="1,286,940"/>	gallons
Hydrant Flushing	<input type="text" value="0"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text" value="500"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = 1,287,440 gallons

Loss: Unaccounted-for Water: (B-C) = 4,978,260 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 23 % unaccounted - for loss

days in month
Gallons / Day Loss = 160,589 gallons/day
Gallons / Minute Loss = 112 gallons/min.

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Monthly Water Loss Report

Water Company:

For the Month of: Year:

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 18,391,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 13,820,600 gallons

B: Difference: (Produced+Purchased) - Sold = 4,570,400 gallons

% Difference = 25 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="654,000"/>	gallons
Hydrant Flushing	<input type="text" value="4,500"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text"/>	gallons
Fire Department Use	<input type="text" value="0"/>	gallons
Net Computer Adjustment + / -	<input type="text"/>	gallons
Other	<input type="text"/>	gallons

C: Total Gallons Accounted For = 658,500 gallons

Loss: Unaccounted-for Water: (B-C) = 3,911,900 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 21 % unaccounted - for loss

**Gallons / Day Loss = days in month
 130,397 gallons/day
 Gallons / Minute Loss = 91 gallons/min.**

Monthly Water Loss Report

Water Company: **East Logan Water District**

For the Month of: **October** Year: **2017**

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 20,440,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman 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)	<input type="text" value="1,373,880"/>	gallons
Hydrant Flushing	<input type="text" value="108,438"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text" value=""/>	gallons
Fire Department Use	<input type="text" value="500"/>	gallons
Net Computer Adjustment + / -	<input type="text" value=""/>	gallons
Other	<input type="text" value=""/>	gallons

C: Total Gallons Accounted For = 1,482,818 gallons

Loss: Unaccounted-for Water: (B-C) = 3,912,082 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 19 % unaccounted - for loss

days in month
Gallons / Day Loss = 130,403 gallons/day
Gallons / Minute Loss = 91 gallons/min.

Monthly Water Loss Report

Water Company: **East Logan Water District**

For the Month of: **November** Year: **2017**

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 18,833,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman gallons

Total Sold = 14,195,400 gallons

B: Difference: (Produced+Purchased) - Sold = 4,637,600 gallons

% Difference = 25 % total water loss

Gallons of Water Accounted For:

Breaks (Estimated Total)	<input type="text" value="1,511,920"/>	gallons
Hydrant Flushing	<input type="text" value="0"/>	gallons
Storage Tank Overflow	<input type="text" value="0"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text" value="0"/>	gallons
Fire Department Use	<input type="text" value="10,500"/>	gallons
Net Computer Adjustment + / -	<input type="text" value="0"/>	gallons
Other	<input type="text" value="0"/>	gallons

C: 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 %= 17 % unaccounted - for loss

days in month
Gallons / Day Loss = 103,839 gallons/day
Gallons / Minute Loss = 72 gallons/min.

Monthly Water Loss Report

Water Company: **East Logan Water District**

For the Month of: **December** Year: **2017**

Water Produced this month: gallons
 Water Purchased this month: gallons

A: Total Water Produced and Purchased = 20,121,000 gallons

Sold: Residential gallons
 Commercial gallons
 Water Salesman 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)	<input type="text" value="2,250,600"/>	gallons
Hydrant Flushing	<input type="text" value=""/>	gallons
Storage Tank Overflow	<input type="text" value="72,000"/>	gallons
Water Treatment Plant Use	<input type="text" value="0"/>	gallons
Wastewater Treatment Plant Use	<input type="text" value=""/>	gallons
Fire Department Use	<input type="text" value=""/>	gallons
Net Computer Adjustment + / -	<input type="text" value=""/>	gallons
Other	<input type="text" value=""/>	gallons

C: Total Gallons Accounted For = 2,322,600 gallons

Loss: Unaccounted-for Water: (B-C) = 3,913,300 gallons

% Loss: Unaccounted-for Water: (B-C)/A %= 19 % unaccounted - for loss

days in month
Gallons / Day Loss = 126,235 gallons/day
Gallons / Minute Loss = 88 gallons/min.

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 for the Month of: January 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	\$88,068.84	100%
5	TOTAL PRODUCED AND PURCHASED	22,524,000	
6	TOTAL COST #VALUE!	22,524,000	

WATER SOLD			
7	Residential		
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	18,198,700	80.80%
14	TOTAL WATER NOT SOLD	4,325,300	19.20%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		
16	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	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		3,143,301
29	% "Unknown Loss"		13.96%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	101,397	
32	"Unknown Loss" per Minute (GPM)	70.41	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

for the Month of: February 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	\$67,189.44	100%
5	TOTAL PRODUCED AND PURCHASED	17,184,000	
6	TOTAL COST #VALUE!		

WATER SOLD

7	Residential		
8	Commercial	10,719,600	
9	Industrial	2,808,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	13,527,600	78.72%
14	TOTAL WATER NOT SOLD	3,656,400	21.28%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	22,400	#VALUE!
18	Fire Department Usage	5,000	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	27,400	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		21.12%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	495,360	#VALUE!
25	Unknown Loss	3,133,640	18.24%
26	TOTAL WATER NOT SOLD OR USED	3,629,000	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	3,133,640
29	% "Unknown Loss"	18.24%
30	Number of Days in Period	28
31	"Unknown Loss" per Day (Gallons per Day)	111,916
32	"Unknown Loss" per Minute (GPM)	77.72
33	"Unknown Loss" Cost for Month	#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

for the Month of: March 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	\$70,724.08	100%
5	TOTAL PRODUCED AND PURCHASED	18,088,000	
6	TOTAL COST #VALUE!	18,088,000	

WATER SOLD			
7	Residential	11,245,500	
8	Commercial	2,586,300	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	13,831,800	76.47%
14	TOTAL WATER NOT SOLD	4,256,200	23.53%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	50,000	#VALUE!
18	Fire Department Usage	1,200	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	51,200	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		23.25%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	98,780	#VALUE!
25	Unknown Loss	4,106,220	22.70%
26	TOTAL WATER NOT SOLD OR USED	4,205,000	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	4,106,220	
29	% "Unknown Loss"	22.70%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	132,459	
32	"Unknown Loss" per Minute (GPM)	91.99	
33	"Unknown Loss" Cost for Month	#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: April 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	\$69,339.94	100%
5	TOTAL PRODUCED AND PURCHASED	17,734,000	
6	TOTAL COST #VALUE!		

WATER SOLD

7	Residential		
8	Commercial	12,250,900	
9	Industrial	2,013,800	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	14,264,700	80.44%
14	TOTAL WATER NOT SOLD	3,469,300	19.56%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing		
18	Fire Department Usage	250	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	250	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		19.56%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	272,160	#VALUE!
25	Unknown Loss	3,196,890	18.03%
26	TOTAL WATER NOT SOLD OR USED	3,469,050	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		3,196,890
29	% "Unknown Loss"		18.03%
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	106,563	
32	"Unknown Loss" per Minute (GPM)	74.00	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: May 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	\$83,576.25	100%
5	TOTAL PRODUCED AND PURCHASED	21,375,000	
6	TOTAL COST #VALUE!		

WATER SOLD

7	Residential		
8	Commercial	14,216,600	
9	Industrial	2,342,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	16,559,000	77.47%
14	TOTAL WATER NOT SOLD	4,816,000	22.53%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	8,000	#VALUE!
18	Fire Department Usage		#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	8,000	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		22.49%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	203,760	#VALUE!
25	Unknown Loss	4,604,240	21.54%
26	TOTAL WATER NOT SOLD OR USED	4,808,000	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	4,604,240
29	% "Unknown Loss"	21.54%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	148,524
32	"Unknown Loss" per Minute (GPM)	103.14
33	"Unknown Loss" Cost for Month	#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: June 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	\$85,253.64	21,804,000	100%
5	TOTAL PRODUCED AND PURCHASED		21,804,000	
6	TOTAL COST #VALUE!			

WATER SOLD

7	Residential		13,474,300	
8	Commercial		2,671,900	
9	Industrial			
10	Bulk Loading Stations			
11	Wholesale			
12	Other Sales (explain)			
13	TOTAL WATER SOLD		16,146,200	74.05%
14	TOTAL 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		31,657	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		25.80%	

BREAKDOWN OF WATER LOST

22	Tank Overflows			
23	Excavation Breaks			
24	Repaired Line Breaks		929,360	#VALUE!
25	Unknown Loss		4,696,783	21.54%
26	TOTAL WATER NOT SOLD OR USED		5,626,143	
27	COST OF WATER NOT SOLD OR USED		#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	4,696,783
29	% "Unknown Loss"	21.54%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	156,559
32	"Unknown Loss" per Minute (GPM)	108.72
33	"Unknown Loss" Cost for Month	#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: July 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	\$92,878.14	100%
5	TOTAL PRODUCED AND PURCHASED	23,754,000	
6	TOTAL COST #VALUE!	23,754,000	

WATER SOLD

7	Residential		15,805,500
8	Commercial		2,728,300
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	18,533,800	78.02%
14	TOTAL WATER NOT SOLD	5,220,200	21.98%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	72,500	#VALUE!
18	Fire Department Usage	7,000	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	79,500	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		21.64%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	845,940	#VALUE!
25	Unknown Loss	4,294,760	18.08%
26	TOTAL WATER NOT SOLD OR USED	5,140,700	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		4,294,760
29	% "Unknown Loss"		18.08%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	138,541	
32	"Unknown Loss" per Minute (GPM)	96.21	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: August 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	\$97,871.21	100%
5	TOTAL PRODUCED AND PURCHASED		25,031,000
6	TOTAL COST #VALUE!		25,031,000

WATER SOLD			
7	Residential		
8	Commercial	14,241,300	
9	Industrial	3,533,800	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		17,775,100 71.01%
14	TOTAL WATER NOT SOLD		7,255,900 28.99%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	109,500	#VALUE!
18	Fire Department Usage	500	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE		110,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		28.55%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	2,543,760	#VALUE!
25	Unknown Loss	4,602,140	18.39%
26	TOTAL WATER NOT SOLD OR USED		7,145,900
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	4,602,140	
29	% "Unknown Loss"	18.39%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	148,456	
32	"Unknown Loss" per Minute (GPM)	103.09	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: September 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	\$93,355.16	100%
5	TOTAL PRODUCED AND PURCHASED	23,876,000	
6	TOTAL COST #VALUE!	23,876,000	

WATER SOLD

7	Residential		11,398,500
8	Commercial		2,665,700
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	14,064,200	58.91%
14	TOTAL WATER NOT SOLD	9,811,800	41.09%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	21,249	#VALUE!
18	Fire Department Usage	500	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	21,749	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		41.00%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	932,400	#VALUE!
25	Unknown Loss	8,857,651	37.10%
26	TOTAL WATER NOT SOLD OR USED	9,790,051	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		8,857,651
29	% "Unknown Loss"		37.10%
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	295,255	
32	"Unknown Loss" per Minute (GPM)	205.04	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: October 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	\$89,648.48	100%
5	TOTAL PRODUCED AND PURCHASED	22,928,000	
6	TOTAL COST #VALUE!		

WATER SOLD

7	Residential		
8	Commercial	13,905,600	
9	Industrial	3,083,100	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	16,988,700	74.10%
14	TOTAL WATER NOT SOLD	5,939,300	25.90%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	12,500	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE	12,500	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		25.85%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	1,825,920	#VALUE!
25	Unknown Loss	4,100,880	17.89%
26	TOTAL WATER NOT SOLD OR USED	5,926,800	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		4,100,880
29	% "Unknown Loss"		17.89%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	132,286	
32	"Unknown Loss" per Minute (GPM)	91.87	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: November 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	\$76,503.06 19,566,000	100%
5	TOTAL PRODUCED AND PURCHASED	19,566,000	
6	TOTAL COST #VALUE!		

WATER SOLD

7	Residential	11,803,100	
8	Commercial	2,560,000	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	14,363,100	73.41%
14	TOTAL WATER NOT SOLD	5,202,900	26.59%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	19,500	#VALUE!
18	Fire Department Usage	7,200	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	26,700	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		26.46%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	568,360	#VALUE!
25	Unknown Loss	4,607,840	23.55%
26	TOTAL WATER NOT SOLD OR USED	5,176,200	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	4,607,840	
29	% "Unknown Loss"	23.55%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	153,595	
32	"Unknown Loss" per Minute (GPM)	106.66	
33	"Unknown Loss" Cost for Month	#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month 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	100%
5	TOTAL PRODUCED AND PURCHASED	20,134,000	
6	TOTAL COST #VALUE!	20,134,000	

WATER SOLD

7	Residential		10,911,200
8	Commercial		2,487,600
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		13,398,800 66.55%
14	TOTAL WATER NOT SOLD		6,735,200 33.45%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	63,000	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE	63,000	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		33.14%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	2,498,400	#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"		20.73%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		134,639
32	"Unknown Loss" per Minute (GPM)		93.50
33	"Unknown Loss" Cost for Month		#VALUE!

Annual Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

Year: 2018

1	AVERAGE PRODUCTION COST PER THOUSAND	
2	AVERAGE PURCHASE COST PER THOUSAND	\$3.91

GALLONS

WATER PRODUCED or PURCHASED

3	Water Produced	\$0.00	0	0%
4	Water Purchased	\$993,132.18	253,998,000	100%
5	TOTAL PRODUCED AND PURCHASED		253,998,000	
6	TOTAL COST #VALUE!			

WATER SOLD

7	Residential	158,170,800	
8	Commercial	29,480,900	
9	Industrial	0	
10	Bulk Loading Stations	0	
11	Wholesale	0	
12	Other Sales	0	
13	TOTAL WATER SOLD		187,651,700 73.88%
14	TOTAL WATER NOT SOLD		66,346,300 26.12%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	0	
16	Wastewater Treatment Plant	0	
17	System Flushing	424,946	#VALUE!
18	Fire Department Usage	21,650	#VALUE!
19	DBP Flushing	0	
20	TOTAL USAGE		446,596
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		25.94%

BREAKDOWN OF WATER LOST

22	Tank Overflows	0	
23	Excavation Breaks	0	
24	Repaired Line Breaks	12,381,559	#VALUE!
25	Unknown Loss	53,518,145	21.07%
26	TOTAL WATER NOT SOLD OR USED		65,899,704
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss" for Period	53,518,145
29	% "Unknown Loss" for Period	21.07%
30	Number of Days in Period	365
31	Average "Unknown Loss" per Day (Gallons per Day)	146,625
32	Average "Unknown Loss" per Minute (GPM)	101.82
33	"Unknown Loss" Cost for Period	#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: January 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	\$81,503.95	100%
5	TOTAL PRODUCED AND PURCHASED		20,845,000
6	TOTAL COST #VALUE!		20,845,000

WATER SOLD			
7	Residential		
8	Commercial	12,710,200	
9	Industrial	2,860,800	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		15,571,000 74.70%
14	TOTAL WATER NOT SOLD		5,274,000 25.30%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	458,000	#VALUE!
18	Fire Department Usage	2,400	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE		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	1,394,500	#VALUE!
25	Unknown Loss	3,419,100	16.40%
26	TOTAL WATER NOT SOLD OR USED		4,813,600
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		3,419,100
29	% "Unknown Loss"		16.40%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	110,294	
32	"Unknown Loss" per Minute (GPM)	76.59	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: February 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	\$75,552.93	19,323,000	100%
5	TOTAL PRODUCED AND PURCHASED		19,323,000	
6	TOTAL COST #VALUE!			

WATER SOLD

7	Residential		11,069,000	
8	Commercial		2,349,900	
9	Industrial			
10	Bulk Loading Stations			
11	Wholesale			
12	Other Sales (explain)			
13	TOTAL WATER SOLD		13,418,900	69.45%
14	TOTAL WATER NOT SOLD		5,904,100	30.55%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant			
16	Wastewater Treatment Plant			
17	System Flushing		55,800	#VALUE!
18	Fire Department Usage			
19	DBP Flushing			
20	TOTAL USAGE		55,800	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES			30.27%

BREAKDOWN OF WATER LOST

22	Tank Overflows			
23	Excavation Breaks			
24	Repaired Line Breaks		522,860	#VALUE!
25	Unknown Loss		5,325,440	27.56%
26	TOTAL WATER NOT SOLD OR USED		5,848,300	
27	COST OF WATER NOT SOLD OR USED			#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		5,325,440	
29	% "Unknown Loss"		27.56%	
30	Number of Days in Period		28	
31	"Unknown Loss" per Day (Gallons per Day)		190,194	
32	"Unknown Loss" per Minute (GPM)		132.08	
33	"Unknown Loss" Cost for Month		#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: March 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	\$83,548.88	100%
5	TOTAL PRODUCED AND PURCHASED	21,368,000	
6	TOTAL COST #VALUE!	21,368,000	

WATER SOLD			
7	Residential		
8	Commercial	11,376,000	
9	Industrial	2,806,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	14,182,400	66.37%
14	TOTAL WATER NOT SOLD	7,185,600	33.63%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	169,600	#VALUE!
18	Fire Department Usage	3,300	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	172,900	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		32.82%

BREAKDOWN OF WATER LOST			
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	704,140	#VALUE!
25	Unknown Loss	6,308,560	29.52%
26	TOTAL WATER NOT SOLD OR USED	7,012,700	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	6,308,560	
29	% "Unknown Loss"	29.52%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	203,502	
32	"Unknown Loss" per Minute (GPM)	141.32	
33	"Unknown Loss" Cost for Month	#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

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%
4	Water Purchased	\$82,673.04	21,144,000	100%
5	TOTAL PRODUCED AND PURCHASED		21,144,000	
6	TOTAL COST #VALUE!			

WATER SOLD

7	Residential		12,837,900	
8	Commercial		2,905,200	
9	Industrial			
10	Bulk Loading Stations			
11	Wholesale			
12	Other Sales (explain)			
13	TOTAL WATER SOLD		15,743,100	74.46%
14	TOTAL WATER NOT SOLD		5,400,900	25.54%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant			
16	Wastewater Treatment Plant			
17	System Flushing		36,000	#VALUE!
18	Fire Department Usage			
19	DBP Flushing			
20	TOTAL USAGE		36,000	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES			25.37%

BREAKDOWN OF WATER LOST

22	Tank Overflows			
23	Excavation Breaks			
24	Repaired Line Breaks		2,074,264	#VALUE!
25	Unknown Loss		3,290,636	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:

28	"Unknown Loss"		3,290,636	
29	% "Unknown Loss"		15.56%	
30	Number of Days in Period		30	
31	"Unknown Loss" per Day (Gallons per Day)		109,688	
32	"Unknown Loss" per Minute (GPM)		76.17	
33	"Unknown Loss" Cost for Month		#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 or the Month 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		0 0%
4	Water Purchased	\$96,397.14	24,654,000 100%
5	TOTAL PRODUCED AND PURCHASED		24,654,000
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential		15,097,700
8	Commercial		3,194,300
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		18,292,000 74.19%
14	TOTAL WATER NOT SOLD		6,362,000 25.81%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing		11,360 #VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE		11,360
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		25.76%

BREAKDOWN OF WATER LOST			
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 SOLD OR USED		6,350,640
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		5,053,920
29	% "Unknown Loss"		20.50%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		163,030
32	"Unknown Loss" per Minute (GPM)		113.22
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: June 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	\$87,454.97	100%
5	TOTAL PRODUCED AND PURCHASED	22,367,000	
6	TOTAL COST #VALUE!	22,367,000	

WATER SOLD

7	Residential		12,905,900
8	Commercial		2,815,000
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	15,720,900	70.29%
14	TOTAL WATER NOT SOLD	6,646,100	29.71%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	49,700	#VALUE!
18	Fire Department Usage	40,000	#VALUE!
19	DBP Flushing		
20	TOTAL USAGE	89,700	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		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	TOTAL WATER NOT SOLD OR USED	6,556,400	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		3,989,000
29	% "Unknown Loss"		17.83%
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	132,967	
32	"Unknown Loss" per Minute (GPM)	92.34	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: July 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	\$96,404.96	100%
5	TOTAL PRODUCED AND PURCHASED	24,656,000	
6	TOTAL COST #VALUE!	24,656,000	

WATER SOLD			
7	Residential		
8	Commercial	14,305,300	
9	Industrial	2,962,700	
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		
17	System Flushing	126,600	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE	126,600	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		29.45%

BREAKDOWN OF WATER LOST			
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	2,918,560	#VALUE!
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"		4,342,840
29	% "Unknown Loss"		17.61%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	140,092	
32	"Unknown Loss" per Minute (GPM)	97.29	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: August 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	\$96,729.49	24,739,000	100%
5	TOTAL PRODUCED AND PURCHASED		24,739,000	
6	TOTAL COST #VALUE!			

WATER SOLD

7	Residential		15,187,600	
8	Commercial		3,919,600	
9	Industrial			
10	Bulk Loading Stations			
11	Wholesale			
12	Other Sales (explain)			
13	TOTAL WATER SOLD		19,107,200	77.24%
14	TOTAL WATER NOT SOLD		5,631,800	22.76%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant			
16	Wastewater Treatment Plant			
17	System Flushing		22,800	#VALUE!
18	Fire Department Usage			
19	DBP Flushing			
20	TOTAL USAGE		22,800	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES			22.67%

BREAKDOWN OF WATER LOST

22	Tank Overflows			
23	Excavation Breaks			
24	Repaired Line Breaks		1,374,400	#VALUE!
25	Unknown Loss		4,234,600	17.12%
26	TOTAL WATER NOT SOLD OR USED		5,609,000	
27	COST OF WATER NOT SOLD OR USED			#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		4,234,600
29	% "Unknown Loss"		17.12%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		136,600
32	"Unknown Loss" per Minute (GPM)		94.86
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month 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	100%
5	TOTAL PRODUCED AND PURCHASED	24,793,000	
6	TOTAL COST #VALUE!	24,793,000	

WATER SOLD			
7	Residential	13,851,700	
8	Commercial	3,674,100	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	17,525,800	70.69%
14	TOTAL WATER NOT SOLD	7,267,200	29.31%

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	WATER LOSS PERCENTAGE FOR RATE PURPOSES		28.98%

BREAKDOWN OF WATER LOST			
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	1,069,360	#VALUE!
25	Unknown Loss	6,116,700	24.67%
26	TOTAL WATER NOT SOLD OR USED	7,186,060	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	6,116,700	
29	% "Unknown Loss"	24.67%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	203,890	
32	"Unknown Loss" per Minute (GPM)	141.59	
33	"Unknown Loss" Cost for Month	#VALUE!	

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: October 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	\$95,861.47	100%
5	TOTAL PRODUCED AND PURCHASED	24,517,000	
6	TOTAL COST #VALUE!	24,517,000	

WATER SOLD			
7	Residential		
8	Commercial	11,847,000	
9	Industrial	3,779,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	15,626,000	63.74%
14	TOTAL WATER NOT SOLD	8,891,000	36.26%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	157,370	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE	157,370	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		35.62%

BREAKDOWN OF WATER LOST			
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	1,798,842	#VALUE!
25	Unknown Loss	6,934,788	28.29%
26	TOTAL WATER NOT SOLD OR USED	8,733,630	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		6,934,788
29	% "Unknown Loss"		28.29%
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	223,703	
32	"Unknown Loss" per Minute (GPM)	155.35	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

or the Month of: November 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	\$95,689.43	100%
5	TOTAL PRODUCED AND PURCHASED	24,473,000	
6	TOTAL COST #VALUE!	24,473,000	

WATER SOLD			
7	Residential		
8	Commercial	12,700,300	
9	Industrial	4,099,100	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	16,799,400	68.64%
14	TOTAL WATER NOT SOLD	7,673,600	31.36%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	27,225	#VALUE!
18	Fire Department Usage		
19	DBP Flushing		#VALUE!
20	TOTAL USAGE	27,225	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		31.24%

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks	1,881,996	#VALUE!
25	Unknown Loss	5,764,379	23.55%
26	TOTAL WATER NOT SOLD OR USED	7,646,375	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		5,764,379
29	% "Unknown Loss"		23.55%
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	192,146	
32	"Unknown Loss" per Minute (GPM)	133.43	
33	"Unknown Loss" Cost for Month		#VALUE!

Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: December 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	\$93,695.33	100%
5	TOTAL PRODUCED AND PURCHASED	23,963,000	
6	TOTAL COST #VALUE!	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)		
13	TOTAL WATER SOLD	15,551,900	64.90%
14	TOTAL WATER NOT SOLD	8,411,100	35.10%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing		23,020 #VALUE!
18	Fire Department Usage		
19	DBP Flushing		
20	TOTAL USAGE	23,020	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES	35.00%	

BREAKDOWN OF WATER LOST

22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks		1,024,780 #VALUE!
25	Unknown Loss		7,363,300 30.73%
26	TOTAL WATER NOT SOLD OR USED	8,388,080	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		7,363,300
29	% "Unknown Loss"		30.73%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		237,526
32	"Unknown Loss" per Minute (GPM)		164.95
33	"Unknown Loss" Cost for Month		#VALUE!

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: January Year: 2020
 Billing Period: 1/1/2020 to 1/31/2020

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$3.91

WATER PRODUCED or PURCHASED		GALLONS	
3	Water Produced	\$0.00	0
4	Water Purchased	\$93,507.65	23,915,000
5	TOTAL PRODUCED AND PURCHASED		23,915,000
6	TOTAL COST	\$93,507.65	

WATER SOLD			
7	Residential		11,576,700
8	Commercial		3,970,000
9	Industrial		0
10	Bulk Loading Stations		0
11	Wholesale (other water systems, special contracts, etc.)		0
12	Public Authorities (fire departments, public pools, parks, etc.)		0
13	Other Sales (explain)	0	0
14	TOTAL WATER SOLD		15,546,700
15	TOTAL WATER NOT SOLD		8,368,300

BREAKDOWN OF WATER USAGE			
16	Water Treatment Plant		0
17	Wastewater Treatment Plant		0
18	System Flushing (routine and complaint flushing)		6,300
19	DBP Flushing (forced tank overflows and hydrant flushing)		0
20	Fire Department (documented for firefighting and training)		0
21	Other Usage (explain)		0
22	TOTAL USAGE		6,300

BREAKDOWN OF WATER LOST			
23	Tank Overflows (other than for DBP maintenance)		
24	Main Line Breaks (long term leakage during current month)		0
25	Service Line Breaks (repaired during current month)		704,707
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)		0
27	Excavation Damage Loss (short term leakage)		0
28	Theft (documented)		0
29	TOTAL DOCUMENTED WATER LOST		704,707
30	COST OF DOCUMENTED WATER LOST		\$2,755.40

"UNKNOWN LOSS" FLOW RATE AND COST:			
31	"Unknown Loss"		7,657,293
32	% "Unknown Loss"		32.0%
33	Number of Days in Period		30
34	"Unknown Loss" per Day (Gallons per Day)		255,243
35	"Unknown Loss" per Minute (GPM)		177.25
36	"Unknown Loss" Cost for Month		\$29,940.02
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		34.97%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: February Year: 2020

Billing Period: 2/1/2020 to 2/29/2020

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$3.91

	WATER PRODUCED or PURCHASED		GALLONS	
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	

WATER SOLD				
7	Residential		10,799,700	
8	Commercial		4,073,300	
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)			
14	TOTAL WATER SOLD		14,873,000	67.0%
15	TOTAL WATER NOT SOLD		7,336,000	33.0%

BREAKDOWN OF WATER USAGE				
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)			
22	TOTAL USAGE		0	

BREAKDOWN OF WATER LOST				
23	Tank Overflows (other than for DBP maintenance)			
24	Main Line Breaks (long term leakage during current month)		319,714	\$1,250.08
25	Service Line Breaks (repaired during current month)		239,246	\$935.45
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)			
27	Excavation Damage Loss (short term leakage)		0	
28	Theft (documented)			
29	TOTAL DOCUMENTED WATER LOST		558,960	
30	COST OF DOCUMENTED WATER LOST		\$2,185.53	

"UNKNOWN LOSS" FLOW RATE AND COST:				
31	"Unknown Loss"		6,777,040	
32	% "Unknown Loss"		30.5%	
33	Number of Days in Period		28	
34	"Unknown Loss" per Day (Gallons per Day)		242,037	
35	"Unknown Loss" per Minute (GPM)		168.08	
36	"Unknown Loss" Cost for Month		\$26,498.23	

37 **WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES** 33.03%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: March Year: 2020
 Billing Period: 3/1/2020 to 3/31/2020

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$3.91

WATER PRODUCED or PURCHASED		GALLONS		
3	Water Produced	\$0.00	0	0.0%
4	Water Purchased	\$91,795.07	23,477,000	100.0%
5	TOTAL PRODUCED AND PURCHASED		23,477,000	
6	TOTAL COST	\$91,795.07		

WATER SOLD				
7	Residential		12,871,900	
8	Commercial		4,600,800	
9	Industrial		0	
10	Bulk Loading Stations		0	
11	Wholesale (other water systems, special contracts, etc.)		0	
12	Public Authorities (fire departments, public pools, parks, etc.)		0	
13	Other Sales (explain)		0	
14	TOTAL WATER SOLD		17,472,700	74.4%
15	TOTAL WATER NOT SOLD		6,004,300	25.6%

BREAKDOWN OF WATER USAGE				
16	Water Treatment Plant			
17	Wastewater Treatment Plant			
18	System Flushing (routine and complaint flushing)		22,100	\$86.41
19	DBP Flushing (forced tank overflows and hydrant flushing)		0	
20	Fire Department (documented for firefighting and training)		0	
21	Other Usage (explain)			
22	TOTAL USAGE		22,100	

BREAKDOWN OF WATER LOST				
23	Tank Overflows (other than for DBP maintenance)			
24	Main Line Breaks (long term leakage during current month)		0	
25	Service Line Breaks (repaired during current month)		3,763,030	\$14,713.45
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)			
27	Excavation Damage Loss (short term leakage)		303,719	\$1,187.54
28	Theft (documented)			
29	TOTAL DOCUMENTED WATER LOST		4,066,749	
30	COST OF DOCUMENTED WATER LOST		\$15,900.99	

"UNKNOWN LOSS" FLOW RATE AND COST:			
31	"Unknown Loss"		1,915,451
32	% "Unknown Loss"		8.2%
33	Number of Days in Period		30
34	"Unknown Loss" per Day (Gallons per Day)		63,848
35	"Unknown Loss" per Minute (GPM)		44.34
36	"Unknown Loss" Cost for Month		\$7,489.41
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		25.48%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: April Year: 2020

Billing Period: 4/1/2020 to 4/30/2020

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	\$71,515.08	21,476,000 100.0%
5	TOTAL PRODUCED AND PURCHASED		21,476,000
6	TOTAL COST	\$71,515.08	

WATER SOLD			
7	Residential		12,303,400
8	Commercial		3,799,600
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)		
14	TOTAL WATER SOLD		16,103,000 75.0%
15	TOTAL WATER NOT SOLD		5,373,000 25.0%

BREAKDOWN OF WATER USAGE			
16	Water Treatment Plant		
17	Wastewater Treatment Plant		
18	System Flushing (routine and complaint flushing)	179,800	\$598.73
19	DBP Flushing (forced tank overflows and hydrant flushing)	0	
20	Fire Department (documented for firefighting and training)	0	
21	Other Usage (explain)		
22	TOTAL USAGE	179,800	

BREAKDOWN OF WATER LOST			
23	Tank Overflows (other than for DBP maintenance)		
24	Main Line Breaks (long term leakage during current month)	564,209	\$1,878.82
25	Service Line Breaks (repaired during current month)	3,782,370	\$12,595.29
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)		
27	Excavation Damage Loss (short term leakage)	25,995	\$86.56
28	Theft (documented)		
29	TOTAL DOCUMENTED WATER LOST	4,372,573	
30	COST OF DOCUMENTED WATER LOST	\$14,560.67	

"UNKNOWN LOSS" FLOW RATE AND COST:			
31	"Unknown Loss"	820,627	
32	% "Unknown Loss"	3.8%	
33	Number of Days in Period	29	
34	"Unknown Loss" per Day (Gallons per Day)	28,297	
35	"Unknown Loss" per Minute (GPM)	19.65	
36	"Unknown Loss" Cost for Month	\$2,732.69	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		24.18%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: May Year: 2020
 Billing Period: 5/1/2020 to 5/31/2020

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
4	Water Purchased	\$73,200.06	21,982,000
5	TOTAL PRODUCED AND PURCHASED		21,982,000
6	TOTAL COST	\$73,200.06	

WATER SOLD			
7	Residential	13,225,900	
8	Commercial	3,229,700	
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)		
14	TOTAL WATER SOLD	16,455,600	74.9%
15	TOTAL WATER NOT SOLD	5,526,400	25.1%

BREAKDOWN OF WATER USAGE			
16	Water Treatment Plant	0	
17	Wastewater Treatment Plant	0	
18	System Flushing (routine and complaint flushing)	106,120	\$353.38
19	DBP Flushing (forced tank overflows and hydrant flushing)	0	
20	Fire Department (documented for firefighting and training)	0	
21	Other Usage (explain)		
22	TOTAL USAGE	106,120	

BREAKDOWN OF WATER LOST			
23	Tank Overflows (other than for DBP maintenance)	0	
24	Main Line Breaks (long term leakage during current month)	32,826	\$109.31
25	Service Line Breaks (repaired during current month)	1,362,890	\$4,538.42
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)		
27	Excavation Damage Loss (short term leakage)	0	
28	Theft (documented)		
29	TOTAL DOCUMENTED WATER LOST	1,395,716	
30	COST OF DOCUMENTED WATER LOST	\$4,647.73	

"UNKNOWN LOSS" FLOW RATE AND COST:		
31	"Unknown Loss"	4,024,564
32	% "Unknown Loss"	18.3%
33	Number of Days in Period	30
34	"Unknown Loss" per Day (Gallons per Day)	134,152
35	"Unknown Loss" per Minute (GPM)	93.16
36	"Unknown Loss" Cost for Month	\$13,401.80
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES	24.66%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: June Year: 2020
 Billing Period: 6/1/2020 to 6/30/2020

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	\$81,838.08	24,576,000 100.0%
5	TOTAL PRODUCED AND PURCHASED		24,576,000
6	TOTAL COST	\$81,838.08	

WATER SOLD			
7	Residential	16,513,500	
8	Commercial	3,911,100	
9	Industrial	0	
10	Bulk Loading Stations	0	
11	Wholesale (other water systems, special contracts, etc.)	0	
12	Public Authorities (fire departments, public pools, parks, etc.)	0	
13	Other Sales (explain)	0	
14	TOTAL WATER SOLD	20,424,600	83.1%
15	TOTAL WATER NOT SOLD	4,151,400	16.9%

BREAKDOWN OF WATER USAGE			
16	Water Treatment Plant	0	
17	Wastewater Treatment Plant	0	
18	System Flushing (routine and complaint flushing)	16,000	\$53.28
19	DBP Flushing (forced tank overflows and hydrant flushing)	0	
20	Fire Department (documented for firefighting and training)	0	
21	Other Usage (explain)	0	
22	TOTAL USAGE	16,000	

BREAKDOWN OF WATER LOST			
23	Tank Overflows (other than for DBP maintenance)	0	
24	Main Line Breaks (long term leakage during current month)	2,247,978	\$7,485.77
25	Service Line Breaks (repaired during current month)	935,256	\$3,114.40
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)	0	
27	Excavation Damage Loss (short term leakage)	0	
28	Theft (documented)	0	
29	TOTAL DOCUMENTED WATER LOST	3,183,234	
30	COST OF DOCUMENTED WATER LOST	\$10,600.17	

"UNKNOWN LOSS" FLOW RATE AND COST:			
31	"Unknown Loss"	952,166	
32	% "Unknown Loss"	3.9%	
33	Number of Days in Period	29	
34	"Unknown Loss" per Day (Gallons per Day)	32,833	
35	"Unknown Loss" per Minute (GPM)	22.80	
36	"Unknown Loss" Cost for Month	\$3,170.71	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		16.83%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951

For the Month of: July Year: 2020

Billing Period: 7/1/2020 to 7/31/2020

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	\$79,893.36	23,992,000 100.0%
5	TOTAL PRODUCED AND PURCHASED		23,992,000
6	TOTAL COST	\$79,893.36	

WATER SOLD			
7	Residential		14,624,300
8	Commercial		3,397,500
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)		
14	TOTAL WATER SOLD		18,021,800 75.1%
15	TOTAL WATER NOT SOLD		5,970,200 24.9%

BREAKDOWN OF WATER USAGE			
16	Water Treatment Plant		
17	Wastewater Treatment Plant		
18	System Flushing (routine and complaint flushing)	77,000	\$256.41
19	DBP Flushing (forced tank overflows and hydrant flushing)	0	
20	Fire Department (documented for firefighting and training)	0	
21	Other Usage (explain)		
22	TOTAL USAGE	77,000	

BREAKDOWN OF WATER LOST			
23	Tank Overflows (other than for DBP maintenance)		
24	Main Line Breaks (long term leakage during current month)	1,929,330	\$6,424.67
25	Service Line Breaks (repaired during current month)	1,174,901	\$3,912.42
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)		
27	Excavation Damage Loss (short term leakage)	10,644	\$35.44
28	Theft (documented)		
29	TOTAL DOCUMENTED WATER LOST	3,114,875	
30	COST OF DOCUMENTED WATER LOST	\$10,372.54	

"UNKNOWN LOSS" FLOW RATE AND COST:			
31	"Unknown Loss"	2,778,325	
32	% "Unknown Loss"	11.6%	
33	Number of Days in Period	30	
34	"Unknown Loss" per Day (Gallons per Day)	92,611	
35	"Unknown Loss" per Minute (GPM)	64.31	
36	"Unknown Loss" Cost for Month	\$9,251.82	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		24.56%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: August Year: 2020
 Billing 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	\$80,336.25	24,125,000	100.0%
5	TOTAL PRODUCED AND PURCHASED		24,125,000	
6	TOTAL COST		\$80,336.25	

WATER SOLD				
7	Residential		14,377,500	
8	Commercial		3,909,000	
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) _____			
14	TOTAL WATER SOLD		18,286,500	75.8%
15	TOTAL WATER NOT SOLD		5,838,500	24.2%

BREAKDOWN OF WATER USAGE				
16	Water Treatment Plant			
17	Wastewater Treatment Plant			
18	System Flushing (routine and complaint flushing)		180,425	\$600.82
19	DBP Flushing (forced tank overflows and hydrant flushing)		0	
20	Fire Department (documented for firefighting and training)		0	
21	Other Usage (explain) _____			
22	TOTAL USAGE		180,425	

BREAKDOWN OF WATER LOST				
23	Tank Overflows (other than for DBP maintenance)			
24	Main Line Breaks (long term leakage during current month)		2,318,710	\$7,721.30
25	Service Line Breaks (repaired during current month)		1,112,053	\$3,703.14
26	Line Leaks (calculated line leakage, meter inaccuracies, etc.)			
27	Excavation Damage Loss (short term leakage)		1,579,710	\$5,260.43
28	Theft (documented)			
29	TOTAL DOCUMENTED WATER LOST		5,010,473	
30	COST OF DOCUMENTED WATER LOST		\$16,684.87	

"UNKNOWN LOSS" FLOW RATE AND COST:				
31	"Unknown Loss"		647,602	
32	% "Unknown Loss"		2.7%	
33	(insert billing period dates at top of page) Number of Days in Period		0	
34	"Unknown Loss" per Day (Gallons per Day)		#DIV/0!	
35	"Unknown Loss" per Minute (GPM)		#DIV/0!	
36	"Unknown Loss" Cost for Month		\$2,156.52	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES			23.45%

Board and Management Monthly Water Use Report

Water Utility: East Logan Water District PWSID: KY0710951
 For the Month of: September Year: 2020
 Billing 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)		
14	TOTAL WATER 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	Wastewater Treatment Plant		
18	System Flushing (routine and complaint flushing)	56,550	\$188.31
19	DBP Flushing (forced tank overflows and hydrant flushing)	0	
20	Fire Department (documented for firefighting and training)	0	
21	Other Usage (explain)		
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	

"UNKNOWN LOSS" FLOW RATE AND COST:			
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	0	
34	"Unknown Loss" per Day (Gallons per Day)	#DIV/0!	
35	"Unknown Loss" per Minute (GPM)	#DIV/0!	
36	"Unknown Loss" Cost for Month	\$16,030.68	
37	WATER LOSS PERCENTAGE FOR PSC RATEMAKING PURPOSES		25.51%

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

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.

WITNESS: Linda Alexander

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

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

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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 locator 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.

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

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.

WITNESS: Linda Alexander

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.

1. 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 is 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.

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander

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

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.

WITNESS: Linda Alexander