



## LWP – Update 2017-1

April 3<sup>rd</sup>, 2017

Prepared By :  
Travis J Miles, President

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Attachments:

2016 Municipal Water Usage Report

## **1. INTRODUCTION**

This Lost Water Plan was developed to provide an outlook and action plan for Suburban to minimize/control its annual water loss as effectively as possible. The Lost Water Plan was ordered by the Kansas Corporation Commission through Docket No. 13-SUBW-744-CON and requires semi-annual updates, after the initial plan filing until Suburban's water loss percentage is in compliance.

The lost water plan is intended to provide an overview of the methods and processes that Suburban has and will continue to use to effectively monitor and maintain an acceptable amount of lost water.

## **2. BACKGROUND INFORMATION**

Suburban is a privately owned water utility in Basehor, Kansas. Suburban currently provides water service to approximately 1,805 residential/commercial customers, along with wholesale water to Rural Water District #6, #9, and #10 of Leavenworth County, Kansas. Suburban currently has two sources of water supply and is currently developing a third supply within the Kansas River Basin.

## **3. 2016 MUNICIPAL WATER USAGE REPORT FILING**

Suburban for the period from January 1<sup>st</sup>, 2016 through December 31<sup>st</sup>, 2016, produced/purchased a combined total of 198.57 million gallons of water. The total unaccounted for water for 2016 was 19.43 million gallons of water or 10 %, which is lower by 3% or 8 million gallons than our 2015 unaccounted for water.

## **4. INSTALLATION OF NEW INFRASTRUCTURE STANDARDS**

Suburban continues to enforce our standards for the installation of all replacement and/or installation of any new infrastructure, throughout our service territory. Those standards include the proper installation, specific manufactures of materials, pressure testing of all new main installations, and proper inspection by Suburban field staff prior to mains being put into service. Suburban believes that these installation standards will ensure the long term stability of our infrastructure and effectively control any new potentials for lost water.

## **5. WATER LOSS GOALS**

Suburban's objective is to maintain an acceptable amount of unaccounted for water ("UFW") on an annual basis, which is at or below the regional and state averages. Suburban's goal is to maintain a lost water percentage at or below 10% as compared to our annual production amounts, including water both pumped and purchased by the company.

**Complete Summary for SUBURBAN WATER INC  
MUN - Person Id: 24951  
1216 N 155TH ST  
PO BOX 588, BASEHOR, KS 66007**

Date Submitted: 01-MAR-17  
Reported by: Travis J Miles, travis@suburbanwaterinc.com, 913-238-0040  
Owner

**Part A: Points of Diversion Summary**

Total water used: 63,905,813 Gallons (196 AF)

<b>File Number</b>	<b>Meter Readings</b>	<b>Hours &amp; Rate</b>	<b>Quantity</b>	<b>Depth to Water</b>	<b>Depth of Well</b>	<b>Date Well Measured</b>	<b>Comment</b>
<b>39287-00</b> 2772'N 2924'W 22-11-22E SE SE NW CIN: 1 GEO CTR							Reported under the wells in the battery
<b>39287-00</b> 2656'N 2995'W 22-11-22E SE SE NW CIN: 2 BATT 1 OF 4 WELLS; MORAN WELL _2	Begin Meter Reading: 9338899 End Meter Reading: 24898738	Hours: 8760 Rate: 30	15,559,839 Gallons (Metered)				COM/W 39287-00, SEC 22, ID #3

File Number	Meter Readings	Hours & Rate	Quantity	Depth to Water	Depth of Well	Date Well Measured	Comment
<b>39287-00</b> 2682'N 2821'W 22-11-22E SE SE NW CIN: 3 BATT 1 OF 4 WELLS; MORAN WELL_3	Begin Meter Reading: 15617603 End Meter Reading: 35536096	Hours: 8760 Rate: 50	19,918,493 Gallons (Metered)				
<b>39287-00</b> 2886'N 2841'W 22-11-22E SE SE NW CIN: 4 BATT 1 OF 4 WELLS; MORAN WELL_4	Begin Meter Reading: 11949578 End Meter Reading: 26226447	Hours: 8760 Rate: 29	14,276,869 Gallons (Metered)				COM/W 39287-00, SEC 22, ID #3
<b>39287-00</b> 2864'N 3040'W 22-11-22E SE SE NW CIN: 7 BATT 1 OF 4 WELLS; MORAN WELL_1	Begin Meter Reading: 9395177 End Meter Reading: 19819503	Hours: 8760 Rate: 20	10,424,326 Gallons (Metered)				COM/W 39287-00, SEC 22, ID #3

File Number	Meter Readings	Hours & Rate	Quantity	Depth to Water	Depth of Well	Date Well Measured	Comment
<b>41844-00</b> 2772'N 2924'W 22-11-22E SE SE NW CIN: 1 GEO CTR							Reported under A 39287 00
<b>41844-00</b> 2656'N 2995'W 22-11-22E SE SE NW CIN: 2 BATT 1 OF 4 WELLS; MORAN WELL _2							Reported under A 39287 00
<b>41844-00</b> 2682'N 2821'W 22-11-22E SE SE NW CIN: 3 BATT 1 OF 4 WELLS; MORAN WELL _3							Reported under A 39287 00

File Number	Meter Readings	Hours & Rate	Quantity	Depth to Water	Depth of Well	Date Well Measured	Comment
<b>41844-00</b> 2886'N 2841'W 22-11-22E SE SE NW CIN: 4 BATT 1 OF 4 WELLS; MORAN WELL _4							Reported under A 39287 00
<b>41844-00</b> 2864'N 3040'W 22-11-22E SE SE NW CIN: 7 BATT 1 OF 4 WELLS; MORAN WELL _1							Reported under A 39287 00
<b>42733-00</b> 2678'N 2705'W 22-11-22E SE SE NW CIN: 8 MORAN WELL _5	Begin Meter Reading: 3570564 End Meter Reading: 7296850	Hours: 5110 Rate: 10	3,726,286 Gallons (Metered)				



File Number	Meter Readings	Hours & Rate	Quantity	Depth to Water	Depth of Well	Date Well Measured	Comment
<b>49208-00</b> 12'N 50'W 22-12-21E SE SE SE CIN: 3					61		Reported non-use: Not Completed
<b>49537-00</b> 1096'N 5113'W 23-12-21E NW SW SW CIN: 2							Reported non-use: Not Completed

## Part B: Monthly Water Use Summary

(all amounts are in 1000 gallon units)

	Column 1 Raw Water Diverted	Column 2 Water Purchased From All Sources	Column 3 Water Sold to Public Suppliers	Column 4 Water Sold to Industrial, Stock Bulk Customers	Column 5 Water Sold to Residential and Commercial Customers	Column 6 Metered Water Provided Free	Column 7 Unaccounted for Water	Column 8 % of Unaccounted for Water
Jan	4,839	10,968	5,172	0	8,887	65	1,683	11
Feb	4,410	6,418	2,709	0	7,204	41	874	8
Mar	5,173	7,494	3,294	0	8,031	53	1,289	10
Apr	5,093	10,185	3,725	0	10,248	73	1,232	8
May	4,889	9,118	3,586	0	8,657	52	1,712	12
Jun	4,704	21,633	5,871	0	17,079	71	3,316	13
Jul	5,076	15,725	5,412	0	15,066	85	238	1
Aug	5,359	17,153	5,671	0	12,915	58	3,868	17
Sep	6,017	10,371	4,793	0	10,125	81	1,389	8
Oct	6,091	9,392	4,014	0	10,120	35	1,314	8
Nov	6,151	7,190	3,878	0	8,396	47	1,020	8
Dec	6,105	9,019	5,430	0	8,164	38	1,492	10
Total	63,907	134,666	53,555	0	124,892	699	19,427	10

## Part C: Population, Service Connections and Water Rates

1. Estimate the number of persons served directly by your distribution system: 4512
2. Number of ACTIVE water service connections as of December 31<sup>st</sup> 2016:
  - a) Residential: 1805
  - b) Commercial/Institutional: 33
  - c) Industrial: 0
  - d) Pasture/Stockwater/Feedlot: 0
  - e) Other Connections: 3
3. Other Connection Explanation: RWD 10, RWD 6, RWD 9
4. Total ACTIVE Service Connections: 1841
5. If you are a city, how many of the active residential water service connections are located outside of your city limits: 0

## Part E: Water Purchased or Sold Summary

(all amounts are in 1000 gallon units)

BOARD OF PUBLIC UTILITIES(KC) , Pers Id: 20297, Seq no: 1, PURCHASED												
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
10,968	6,418	7,494	10,185	9,118	21,633	15,725	17,153	10,371	9,392	7,190	9,019	134,666
LEAVENWORTH RWD 06 , Pers Id: 33868, Seq no: 2, SOLD												
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
1,943	965	987	1,157	1,054	1,567	1,334	1,519	1,267	1,180	1,118	1,058	15,149
LEAVENWORTH RWD 09 , Pers Id: 15276, Seq no: 3, SOLD												
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
1,992	1,104	841	1,040	828	3,100	2,571	2,687	1,470	1,220	1,711	2,639	21,203
LEAVENWORTH RWD 10 , Pers Id: 34371, Seq no: 4, SOLD												
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
1,237	640	1,466	1,528	1,704	1,204	1,507	1,465	2,055	1,615	1,049	1,733	17,203