WATER CONSERVATION PLAN

(HAL Project No.: 406.03.100)

October 2020

HANSEN ALLEN & LUCE inc
ENGINEERS

SALEM CITY

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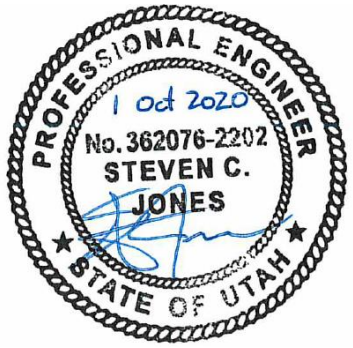

Steven C. Jones
Project Manager

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ENGINEERS

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CHAPTER 1 **– INTRODUCTION**

In response to projected future growth along the Wasatch Front, the citizens and leaders of Salem City are concerned about the future water supply in the region. The Utah State Legislature has passed legislation requiring public water suppliers to prepare a Water Conservation Plan and update the plan periodically. The City prepared the original Water Conservation Plan in 1999 and has updated the plan in 2003, 2010, and 2014. This report is the 2020 update of the City's Water Conservation Plan.

Water must be accounted for before effective water conservation goals and programs can be implemented. This report uses state and City data to account for current water consumption, assesses the water conservation alternatives available to the City, sets goals to conserve water, and identifies existing and proposed water conservation measures to be implemented by the City.

CHAPTER 2 **– EXISTING WATER SYSTEM**

Salem City, located on the southern end of Utah County, had an estimated population of about 8,900 people as of 2019 (US Census Bureau, 2010). The City is south of Spanish Fork, northeast of Payson, and west of the Wasatch mountains.

Irrigation systems provided the foundation for Salem City's growth. In 1869, the Salem Canal was built, bringing Spanish Fork River water to the City. The Strawberry Valley Irrigation Project was completed in 1916, which brought water from Strawberry Reservoir. Since its beginnings, Salem has enjoyed the plentiful water available to them. With the City growing quickly, proper steps need to be taken to ensure that this resource remains available for future generations.

In 2008, Salem City built a pressurized irrigation (PI) system to enable residents to irrigate using non-potable canal water. This has allowed the City to reserve high-quality drinking water for indoor use only, which reduces cost and preserves a potentially sensitive groundwater supply.

The City currently has 2,538 connections to the drinking water system, with a large majority of them being residential. A map of the existing drinking water system and current service area is provided on Figure 2-1. Connections by type are shown in Table 2-1.

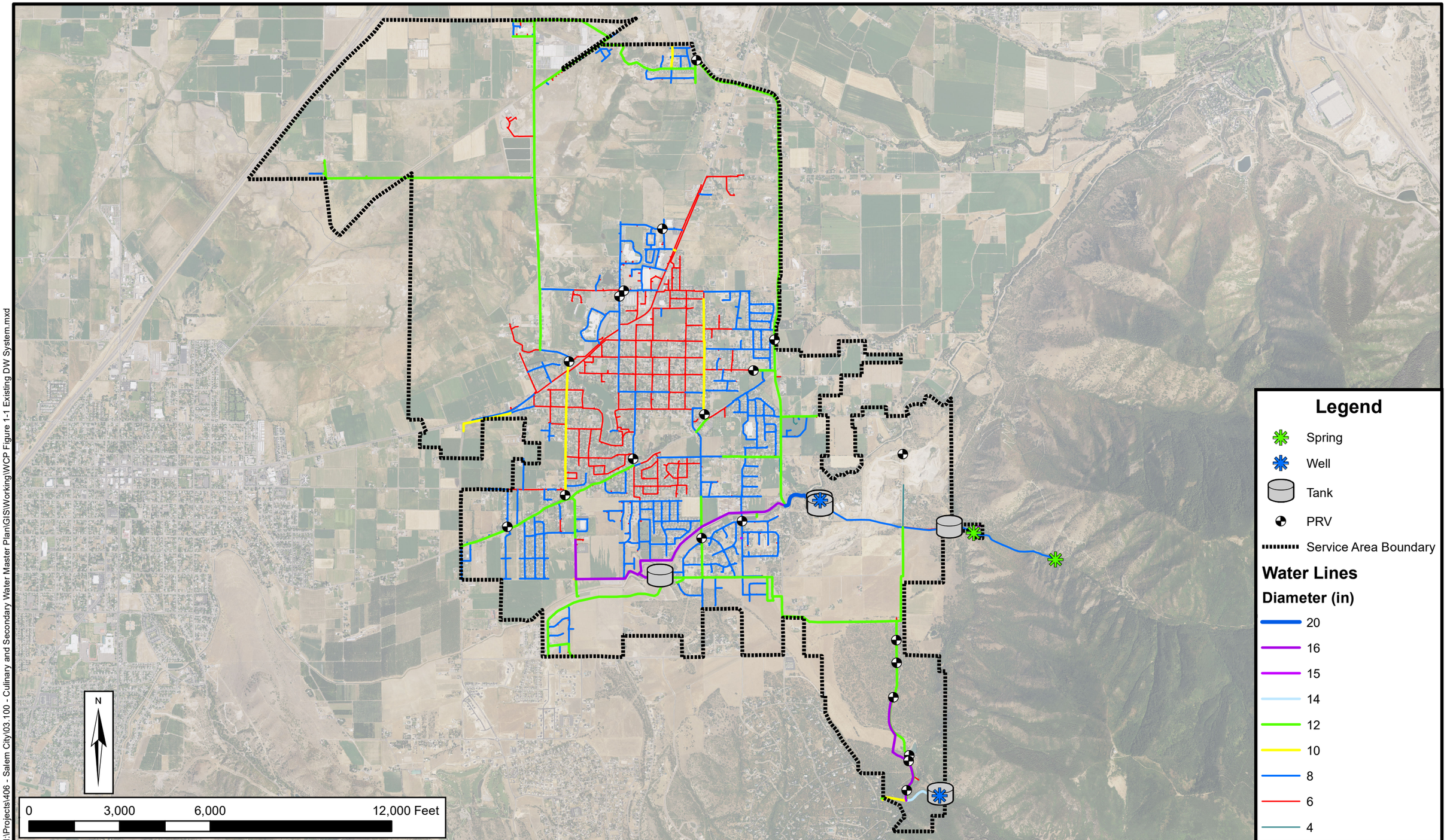
Table 2-1
2019 Water System Connections

Connection Type	Total Connections
Residential	2,432
Commercial/Other	106
Total	2,538

INVENTORY OF WATER RESOURCES

The City currently produces drinking water from two wells (Maple Canyon Well and Storage Reservoir Well) and the Water Canyon Springs Group. Other than seasonal spring flow variations, the City has not observed any occurrences of groundwater depletion.

The City supplies its pressurized irrigation system using shares in the Salem Irrigation and Canal Company and the Strawberry Highline Canal Company, and water pumped from the BYU well. All water is delivered to the system from the Strawberry Highline Canal. Table 2-2 contains a summary of the water sources used by Salem City.



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HANSEN ALLEN & LUCE INC ENGINEERS

SALEM CITY DRINKING WATER MASTER PLAN

EXISTING DRINKING WATER SYSTEM AND SERVICE AREA

FIGURE 2-1

Table 2-2
Existing Water Sources

Source	Existing Source Capacity
Maple Canyon Well	810 gpm
Storage Reservoir Well	2,500 gpm
Water Canyon Springs Group	160 gpm (peak day) 110 ac-ft (annual supply)
Highline Canal*	9,000 gpm (peak day) 2,107 ac-ft (annual supply)

* Irrigation water for the secondary system is diverted from the Highline Canal into the East and West Ponds. Water from the BYU Well is pumped into the Highline Canal and later diverted into the ponds.

WATER USE

Water supplied to the Salem City drinking water and PI sources is summarized in Table 2-3.

Table 2-3
Historical Water Supply Summary

Year	Source Supplied (ac-ft)						Total (ac-ft)
	Maple Canyon (Drinking)	Storage Reservoir Well (Drinking)	Water Canyon Springs Group (Drinking)	BYU Well (Irrigation)	East Pond (Irrigation)	West Pond (Irrigation)	
2019	471	336	408	400	1095	913	3,623
2018	472	564	323	655	403	403	2820
2017	445	755	236	308	409	409	2561
2016	384	841	110	615	349	349	2647
2015	294	567	159	1432			2452
2014	665	360	266	1289			2527
2013	336	620	433	1533			2463
2012	325	476	654	1837			2697
2011	242	33	833	1145			1966
2010	477	99	386	1375			2204
2009	179	58	668	1114			1858
2008	554	386	549	N/A			1488
2007	812	1128	506				2445
2006	No data	No data	No data				No data
2005	761	660	429				1850
2004	750	754	240				1743
2003	669	775	149				1592
2002	787	802	203				1791
2001	1081	598	347				2026
2000	779	633	204				1616
1999	510	176	1115				1801

Figure 2-2 shows the historical water use in Salem City from years 2000 – 2019. The per capita water use for the City from 2008-2013 was approximately 304 gallons per capita per day (gpcd). From 2014-2019 it was 315. Based on this data, water conservation does not appear to be occurring on a city-wide scale. Per capita water use rose rapidly between 2008 and 2013, but declined until 2019 (with slight variations due to weather conditions). The City relaxed some outdoor watering restrictions in 2019, and consequently, observed much higher irrigation water use. This data demonstrates the need for enforcement of conservation practices within the City.

Salem City's current water use is higher than the State of Utah 2015 average of 239 gpcd for indoor and outdoor use. The majority of water is used in the pressurized irrigation system.

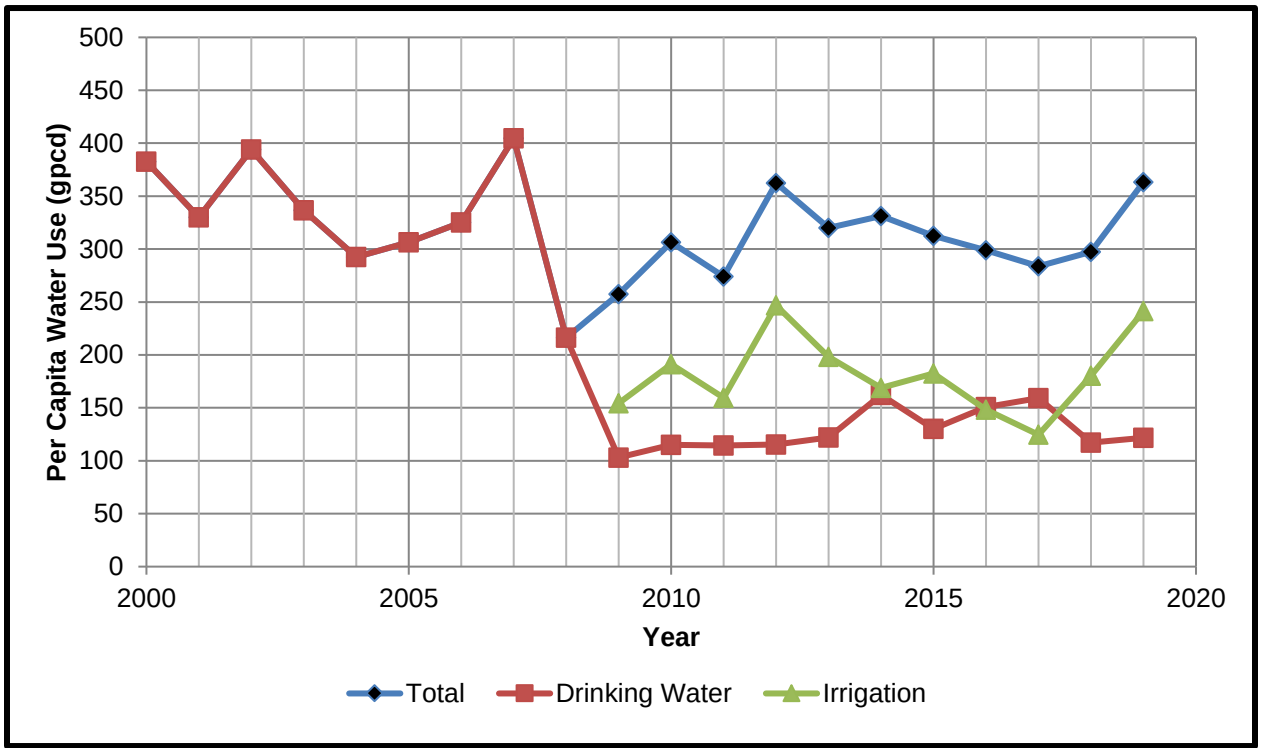

Figure 2-2: Salem City Historic Water Use

Prior to 2019, the City tracked water use with customer categories of either "residential" or "commercial/other." In 2019, the City modified their tracking system to be consistent with the categories that must be reported to the Utah Division of Water Rights. Reported water usage quantities for the prior 10 years are shown in Table 2-4.

Table 2-4
Drinking Water Used by each User Type

	Amount Used (ac-ft)			
	Residential	**Commercial***	**Industrial**	**Institutional**
2019	534.03	59.93	3.85	20.15
2018	546.51	94.95	0.00	12.87
2017	541.17	137.14	0.00	2.47
2016	566.96	116.33	0.00	0.00
2015	503.35	93.43	0.00	0.00
2014	488.41	80.88	0.00	0.00
2013	485.80	76.72	0.00	0.00
2012	504.40	90.72	0.00	0.00
2011	426.48	78.13	0.00	0.00
2010	438.40	87.70	0.41	0.00
2009	888.30	137.99	0.00	0.00

* In many prior years, the City has not distinguished industrial and institutional use from commercial use when reporting water use data.

The proportion of drinking water used by each type of user is shown in Table 2-5.

Table 2-5
Percent Drinking Water Used by each User Type

	Percent Water Use			
	Residential	**Commercial***	**Industrial**	**Institutional**
2019	86%	10%	1%	3%
2018	84%	14%	0%	2%
2017	79%	21%	0%	0%
2016	83%	17%	0%	0%
2015	84%	16%	0%	0%
2014	86%	14%	0%	0%
2013	86%	14%	0%	0%
2012	85%	15%	0%	0%
2011	84%	16%	0%	0%
2010	83%	17%	0%	0%
2009	87%	13%	0%	0%

* In many prior years, the City has not distinguished industrial and institutional use from commercial use when reporting water use data.

Table 2-6 shows a comparison of the water produced by Salem City sources and the billed water use for years 2010 through 2018. About 34% of the water supplied by the City's drinking water sources was unaccounted for in 2018. Possible explanations for the unaccounted water use include leaks in the distribution system, meter inaccuracies, unmetered culinary water use in the PI system, and miscellaneous unmetered water use (such as pipe line flushing, etc.).

Table 2-6
Comparison of Drinking Water Supplied to Drinking Water Use

Year	Supplied Water (ac-ft)	Water Use (ac-ft)	Percent Difference
2019	1216	869	29%
2018	1359	903	34%
2017	1436	880	39%
2016	1335	855	36%
2015	1020	742	27%
2014	1290	621	52%
2013	1389	1014	27%
2012	1455	1190	18%
2011	1108	794	28%
2010	961	660	31%

According to the 2009 Residential Water Use Report (DNR, 2010), irrigation accounts for approximately 134 gpcd during summer months. With indoor use estimated at 62 gpcd statewide, irrigation accounts for 68% of water used during the summer months.

There are areas of the city that are not connected to a pressurized irrigation system. In these areas, drinking water during summer months increases due to irrigation needs. Based on monthly drinking water use data from 2014-2018, an average of 270 acre-ft of water was used during the winter. Assuming this indoor use is consistent through the summer months, the estimated average quantity of water used for irrigation is about 96 acre-feet.

EXISTING AND FUTURE WATER USE

The Salem City population is estimated to be 8,900 in 2020. At a per capita water use of 315 gpcd (which is the average over the past six years), the estimated 2020 water use in Salem is about 3,140 ac-ft/yr.

In 2060, the population is estimated to be 39,219. At a per capita water use of 315 gpcd, the City would use about 13,838 ac-ft/yr in year 2060. If the City meets the county goal of decreasing water use by 19%, this amount could be reduced by nearly 2,630 ac-ft/yr.

Figure 2-3 shows the historic and projected water use of Salem City assuming no further water conservation and a 19% reduction in use. The chart demonstrates the effectiveness of water conservation at extending the capacity of a finite supply and at delaying the need for future source projects.

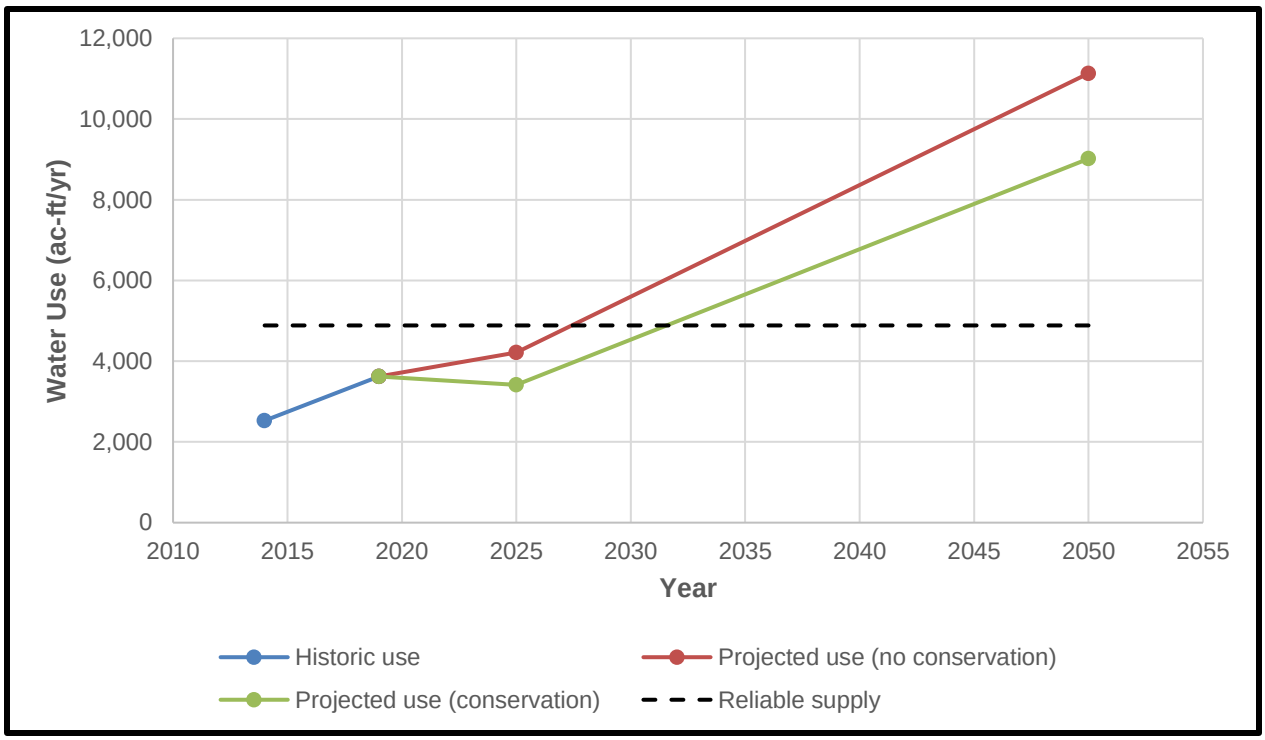

Figure 2-3: Salem City Historic and Projected Water Use

Wells will be needed to supply future drinking water source. The City is planning to eventually drill 3 more wells at a cost of approximately $1.5 million each. Developers are expected to bring irrigation water with their developments.

CHAPTER 3 **– CONSERVATION ISSUES AND GOALS**

WATER METERING AND PIPELINE REPLACEMENT

Salem City currently meters water use at all drinking water connections and reads meters on a monthly basis. Salem City replaces meters as they become old or defective and as budget allows.

Salem City does not have a program to replace and/or upsize old or undersized water pipelines in streets that need to be re-constructed. Problem pipes are replaced if they are leaking and causing difficulties for the City. These projects are implemented as City budget allows. It is important to replace old pipes continuously as this will help minimize loss within the system.

CURRENT WATER RATE STRUCTURE

Salem City's drinking water rate structure is summarized in Table 3-1. The City has two different rates for all residential meter sizes. The rates are determined by whether the residence has a connection to the Pressurized Irrigation system. Table 3-2 shows the rate structure for the PI system. It is based off of connection size and lot size.

Table 3-1
Drinking Water Rate Structure 2019

	Residential w/o PI	Residential With P.I.
Base Rate	$21	$21
0-5,000 gal	$0.50 per 1000 gallons	$1.10 per 1000 gallons
5,001-10,000 gal	$2 per 1000 gallons	$1.10 per 1000 gallons
10,001-15,000 gal	$2.50 per 1000 gallons	$1.35 per 1000 gallons
15,001-20,000 gal	$3 per 1000 gallons	$1.35 per 1000 gallons
20,001-25,000 gal	$3.50 per 1000 gallons	$1.65 per 1000 gallons
25,001-30,000 gal	$4 per 1000 gallons	$1.65 per 1000 gallons
30,001-40,000 gal	$5 per 1000 gallons	$1.85 per 1000 gallons
40,001-50,000 gal	$5 per 1000 gallons	$2.10 per 1000 gallons
50,001+ gal	$5 per 1000 gallons	$2.35 per 1000 gallons

Table 3-2
Pressurized Irrigation Water Rate Structure 2019

Meter/Lot Size	Rate
Base Rate by Connection Size	
1”	$25
1.5”	$35
2”	$45
Plus Usage per Lot Size (Square Feet)	
0-10,890	$4
10,891-14,520	$5
14,521-21,780	$7
21,781-32,670	$11
32,671-43,560	$14
43,561+	$19

IDENTIFIED PROBLEMS

Salem City is concerned with the potential waste of water from inefficient indoor/outdoor water use and from system-wide losses. Specific concerns identified by the City are included in Table 3-3.

Table 3-3
Water Conservation Concerns

Concern	Description
Significant unaccounted water	City records show a consistent trend of significant unaccounted water (see Table 2-5). Many pipes in the drinking water distribution system are old and are undersized and may be leaking.
Pressurized Irrigation is not metered	Customer connections to the pressurized irrigation system are not individually metered. Many of these customers use more water than is necessary because there is no financial incentive for water conservation.
Irrigation from Drinking Water	As can be inferred from the increase in residential drinking water usage during the summer months, some residents are using drinking water for irrigation purposes even when pressurized irrigation water is available. This is likely out of convenience or habit.
Pressurized irrigation rates	Pressurized Irrigation rates will need to be adjusted as the meters are placed on connections to the irrigation system.
Inefficient Irrigation	There is need for a better understanding of landscaping water requirements and efficient water-use habits and practices. A small percentage of residents know how much water is required to maintain healthy landscaped areas and how to efficiently use water outdoors. Some citizens' irrigation practices are based on convenience rather than plant needs.
Rates	City Council action is required for each adjustment of the water rates. The city council strives to minimize the additional financial burdens on residents. Consequently, water rates may not be keeping up with the increasing costs.
Meter Problems	Some drinking water meters are old and may not be providing accurate information. These should be replaced, but staff time and financial constraints have not provided the opportunity for them to be changed yet.
High Water Use Landscaping	Salem City families traditionally have landscapes with large garden areas, grass, and other water intensive landscaping. The irrigation needs of these landscapes create a water use peak in July that will require the capacity of the pressurized irrigation system to be increased.
Overflow	Salem uses springs within its system to deliver drinking water. During times of low usage and higher spring flow, significant water can overflow from the tanks. There is a holding pond for this water that allows it to recharge as much as possible.
Delivery System Constraints	Salem currently receives all pressurized irrigation through deliveries from the Highline Canal, which are not always available when there is demand for pressurized irrigation. Drinking water is often used early and late in the season to provide water to the pressurized irrigation ponds when the Highline Canal Water is not yet available.
Drinking water Source for Pressurized Irrigation	Drinking water is currently used for areas of the City where pressurized irrigation is not available and as a supplement to the pressurized irrigation ponds when the system does not have sufficient water. This use of drinking water for irrigation is not only more expensive, but also increases the quantity withdrawn from the aquifer and may jeopardize future supplies.

GOALS

Salem City has set goals to address the identified problems and to promote conservation. The City is currently promoting water conservation measures similar to the State of Utah water conservation campaign that was instituted in 2001. The City is also looking to complete goals made in Utah's Draft - M&I Water Conservation Plan released in 2015. There is a county goal to reduce per capita water use 19% from 2015 to 2030. The average water use from 2014 through 2018 was 305 gpcd. A 19% reduction from this value would set the goal at 247 gpcd.

Although Salem City was able to complete the statewide goal from 2001, they will continue to work towards conservation and the goal from the 2015 Draft MI Water use Data report. The goals listed in Table 3-4 have been identified by Salem City to continue to promote conservation.

Table 3-4
Water Conservation Goals

Goal	Description
Reduce per capita use	Salem City is a member of the Utah Lake Basin Water System. This region has set a goal to reduce water consumption 19% by 2030.
Detect leaks	Contract with a leak detection company to survey the water system to locate water leaks that the Water Department staff is unable to find.
Replace inefficient fixtures	Encourage residents to replace old, high water-use toilets and shower heads with more efficient models.
Reduce loss due to overflow	Upgrade SCADA capabilities to sense when water is overflowing at the springs and configure system to discharge into the pressurized irrigation reservoir.
Continue public education	Inform residents of water conservation ideas through the city newsletter, website and other public outreach programs. The educational materials will cover issues such as irrigation efficiency, low water use landscaping, the importance of water conservation as it directly relates to Salem, and other available resources for water conservation.
Install PI meters	Install meters on existing irrigation services.
Replace meters	Continue to replace old or malfunctioning drinking water meters.
Plan continuously	Regularly Update Salem's Drinking Water Master Plan and Pressurized Irrigation Master Plan, and evaluate all proposed developments to ensure consistency with the City's plan. This will not only enable the City to provide capital facilities to keep up with the growth that is occurring, but also facilitate efficiency upgrades to enhance conservation of precious groundwater resources. This is especially important in the expansion of the pressurized irrigation system to preserve drinking water resources.

CHAPTER 4 – CONSERVATION MEASURES & IMPLEMENTATION

Salem City believes that water conservation is an important factor for allowing the City to meet water demands into the future. Although the City hasn't appointed a water conservation coordinator, staff are aware of the conservation goals and work together to implement the goals. Contact information for Salem City is listed below:

Address: 30 West 100 South
Salem, UT 84653

Phone: 801-423-2770

EXISTING CONSERVATION MEASURES

Table 4-1 identifies water conservation measures that are currently being implemented by Salem City. The measures will continue to be implemented according to the plan indicated in Table 4-1. It is believed that existing conservation measures and public education programs are working based on the continued water use rates seen since 2002.

Table 4-1
Existing Conservation Measures

Conservation Measure	Implementation Plan
Public Education: Promote water conservation measures to City residents through public education. (See Appendix for public education material)	Advertise conservation measures through: • The City's website • The annual Water Quality Report • The City Newsletter
Require Water Saving Fixtures: City has adopted the International Plumbing Code which requires water saving plumbing fixtures for new development.	Check building plans for water saving fixtures during building permit reviews and enforce compliance through building inspections for new construction.
Replace Old Water Service Laterals: New copper or poly laterals installed in place of steel galvanized or other old laterals.	Replace with copper or poly water services as leaks are detected and as part of any pipeline replacement project. Many of the old galvanized steel services have been replaced to date.
Replacement Program of Old Water Meters: New accurate radio-read meters installed as old meters are replaced.	• Replace meters on an as-needed basis due to costs.
Restrict customer watering	City ordinances prohibit watering between 10:00 AM and 6:00 PM. The City also enacts voluntary day-of-week watering restrictions, and has authority to restrict water use further if it is warranted.
Restrict Water Use for Public Landscaped Areas: Practice water-wise irrigation for City facilities.	Sprinkler irrigation at new public landscaped areas is: • adjusted based on weather • performed during the cooler parts of the day
Using the PI System to lower the quantity of water out of the aquifer	Use surface water to supply the PI system (to the extent possible).

PROPOSED CONSERVATION MEASURES

Table 4-2 identifies water conservation measures that are proposed to be implemented by Salem City in the future, in addition to existing conservation measures shown in Table 4-1.

Table 4-2
Proposed Conservation Measures

Conservation Measure	Implementation Plan
Landscaping Ordinances:	Update City landscaping ordinances to provide incentives to incorporate xeriscaping on existing landscaping.
Meter Construction Water and include in Water Use Records: Construction water is currently not metered or included in the City's overall water use records.	Begin to meter construction water. Include metered construction water in monthly and annual usage records.
Meter PI water: Install meters on existing customer connections	Install meters on customer connections using City equipment and personnel (work in progress).
Re-evaluate rates	Commission a rate study to revise rates and incentivize conservation (work in progress).
Replacement Program for Old Pipelines:	Establish a regular budget for pipeline replacement. Replace old/undersized pipelines: • Whenever a street is redone • According to master planned projects • As leaks are detected
Estimate Fire Hydrant Testing and Flushing Flows:	Compute estimates of the duration and flow rates for fire hydrant testing and flushing programs performed by the fire department and City maintenance staff.
Require Separate Meters for Large Irrigated Areas:	Separate meters for landscaping are required for commercial or industrial connections with large landscaped areas.
Evaluate Water Rate Structure: The current rate structure promotes water conservation through increasing rates and higher overage costs during peak water use times.	The City will re-evaluate the water rate structure annually to evaluate whether the current rate structure continues to promote water conservation as the City deems necessary.

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APPENDIX A

PUBLIC EDUCATION MATERIALS

ADDITIONAL WEBSITES PROMOTING WATER CONSERVATION:

- SLOW THE FLOW campaign website: http://www.slowtheflow.org/
- Jordan Valley Water Conservation District's conservation website: http://www.jvwcd.org/conservation/
- Utah Division of Water Resources' main water conservation website: http://www.conservewater.utah.gov/
- Utah Division of Water Resources' water conservation education for kids website: http://www.watereducation.utah.gov/conservation/

General Lawn Tips

Mowing

When mowing your lawn, don't remove more than 1/3 of the grass blade each mowing. Also, leaving the mulched grass clippings on the lawn and not bagging them can keep the lawn cooler and help hold in moisture. Mow at a height of 3 inches to 3.5 inches tall through the summer. This promotes healthier, deeper roots.

Aeration

By aerating your lawn each year, you can allow air, water and nutrients to move deeper into the soil. This process helps drive grass roots deeper into the soil. Deeper roots generate a healthier, greener lawn. Proper aeration combats compaction of your soil and keeps the soil permeable. This means water can more easily flow to the deep root zone of your grass.

Don't Over-Water

Over-watering can weaken lawns, making them more prone to damage from insects, weeds, fungus and disease. It is okay to "stress" by watering your lawn less; this will help the root zone grow deeper into the soil!

FREE WATER CHECK

Free Water Check

You can have your sprinkler efficiency checked by a pro, for free! They will also develop a customized watering schedule for your lawn. Sign up at ***www.slowtheflow.org/watercheck*** **or by calling 1-877-728-3420**

General Lawn Watering Tips:

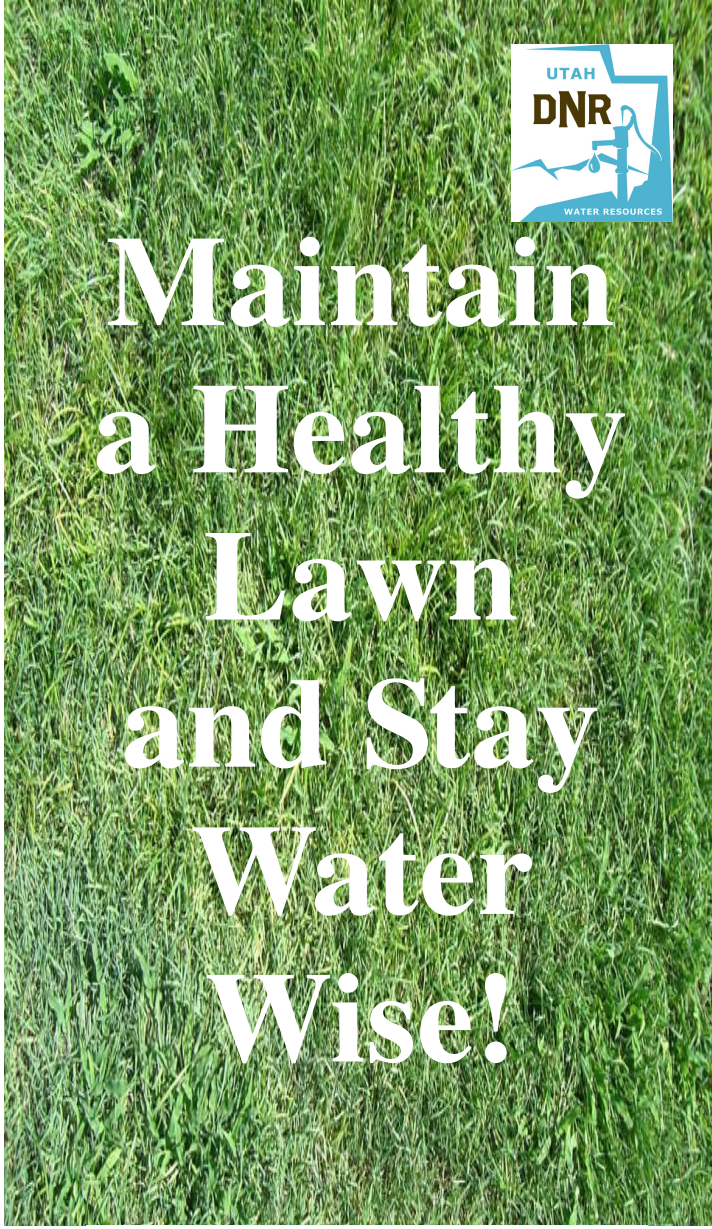
- Stop thinking of "watering your lawn" and start thinking of "refilling the soil moisture reservoir" under your lawn.
- Remember, water less often, but water more deeply! This will provide healthy roots and save water.
- Water in cycles so water will have time to penetrate the soil and reach the root zone.
- Make sure your sprinklers are only watering landscaped areas, not sidewalks, driveways, porches or streets.
- Make sure you apply the right amount of water each time you water, then check the weekly lawn watering guide online at **www.conservewater.utah.gov** to find out how many times to water each week.

Utah Division of Water Resources

Mission: To Plan, Develop, Conserve and Protect Utah's Water Resources

UTAH DNR WATER RESOURCES

For more information on water conservation visit us on the web at www.conservewater.utah.gov or www.slowtheflow.org



SLOW THE FLOW
SAVE H_2O

CONSERVE EDUCATE
conservewater.utah.gov
watereducation.utah.gov

www.slowtheflow.org
www.conservewater.utah.gov

Should I Water My Lawn Today?

Check Your Sprinkler System

An important step in using water wisely is proper maintenance of irrigation systems. If sprinklers are not kept in good working condition, they can waste water as well as have detrimental effects on your landscape. Turn on your sprinklers during daylight hours to inspect the system for broken, clogged or misaligned heads. **Sprinklers should have head-to-head coverage.** This means water from one sprinkler reaches all the way to the next sprinkler. This allows for maximum efficiency in water coverage.

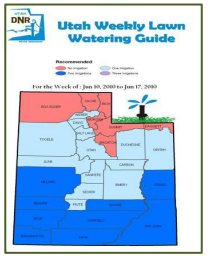
Check the Weather Report

If precipitation is forecast for the coming week, you should postpone your lawn watering. The weather forecast for any given area of the state can be found at **www.wrh.noaa.gov/slc/**. Consider installing an automatic rain shutoff device on your sprinkler system. Place a rain gauge (anything that catches water that can be measured) in your backyard to monitor rainfall and irrigation.

Before You Water Your Lawn, You Should...

Check the Lawn Watering Guide

The Utah Division of Water Resources publishes a weekly lawn watering guide for the entire state. This useful tool can be found online at **www.conservewater.utah.gov**. The goal is to help residents apply the same amount of water that was used by evaporation and plant processes in the previous week.



Check to See if Your Lawn Needs Water

Only water your lawn when it needs water. If you leave footprints in the grass when you walk on it, then it is time to water! Test your soil moisture with a soil probe or use a long (6 inches) screwdriver to see how moist the soil is. If the screwdriver goes into to the soil easily, this means the soil is still moist. Don't water your lawn!

Check Your Application Rate

To determine the application rate, you will need at least four test containers. Place the containers in the grass. Turn your sprinklers on for 15 minutes. Make sure to turn on all stations that water the test area. Measure in inches the depth of water in each of the containers. Calculate the average and multiply this by four. This is your application rate in inches per hour. Then calculate how many minutes you need to water to put ½ inch of water on your lawn. You should only apply ½ inch of water each time you water.

Check the Time of Day

Avoid watering your landscape during the hottest hours of the day (10 am until 6 pm) to minimize evaporation. Watering during the cooler times of the day reduces evaporation, allowing more water to get to the roots of the grass.

Automatic Timers or Controllers

These devices are wonderful and allow the user freedom and convenience in lawn watering. **However, they need to be adjusted throughout the watering season (April to October).** Also, timers should be turned off during and after rainstorms! For even more efficient watering, check into "smart controller" technology at your local sprinkler supplier or our website **www.conservewater.utah.gov**.

Water in Cycles

By dividing your watering time into shorter cycles with a rest time in between, more water will be able to penetrate the soil and reach the root zone. Watering in cycles also minimizes runoff.

If the only time you use your lawn is to mow it, think about taking that lawn area out and putting in a *lower* maintenance, *lower* water using plant type!

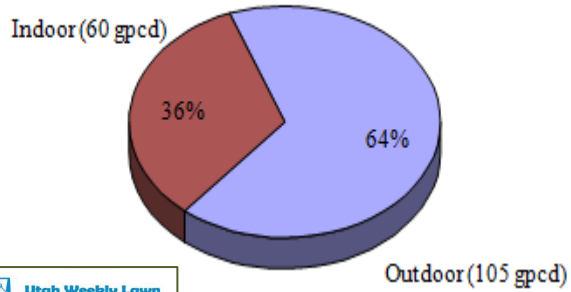
See www.slowtheflow.org for more water wise landscaping tips.

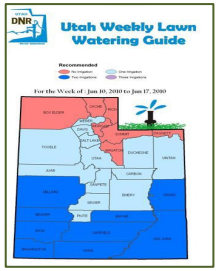
General Water Information

Outdoor Watering

The DWRe has focused water conservation efforts primarily on residential water use with an emphasis on outdoor landscapes because this category has the greatest potential for water conservation. With 64% of the residential water being used outdoors, Utahns can conserve millions of gallons water annually if they water more efficiently. One of these ways is to use a smart controller that allows homeowners a more efficient way to water using only what the plants actually need.

Residential (165 gpcd)





Based on 2010 per capita data

Check the Lawn Watering Guide

The DWRe already provides a statewide network of weather stations for Utahns to use. The weather stations track ET and tell Utahns in a given region how many times they should water during the week. If you don't yet have a smart controller installed, visit the Lawn Watering Guide online at: ***www.conservewater.utah.gov*** to see how many times you should water each week.

General Lawn Watering Tips:

- Stop thinking of "watering your lawn" and start thinking of "refilling the soil moisture reservoir" under your lawn.
- Remember, water less often, but water more deeply! This will provide healthy roots and save water.
- Water in cycles so water will have time to penetrate the soil and reach the root zone.
- Make sure your sprinklers are only watering landscaped areas, not sidewalks, driveways, porches or streets.
- Make sure you apply the right amount of water each time you water, then check the weekly lawn watering guide online at ***www.conservewater.utah.gov*** to find out how many times to water each week.

Utah Division of Water Resources

Mission: To Plan, Develop, Conserve and Protect Utah's Water Resources

UTAH DNR WATER RESOURCES

For more information on water conservation visit us on the web at www.conservewater.utah.gov or www.slowtheflow.org

CONSERVE EDUCATE conservewater.utah.gov watereducation.utah.gov

UTAH DNR WATER RESOURCES

Save Water Automatically!

Install a Smart Controller on Your Sprinkler System

SLOW THE FLOW SAVE H_2O

www.slowtheflow.org
www.conservewater.utah.gov

How Does a Smart Controller Work?

Smart Controllers Water to Evapotranspiration (ET)

ET is defined as the amount of water a plant and its environment loses from evaporation and transpiration. Simply put, transpiration is water the plant uses to grow and survive, and evaporation is water lost from the surrounding soil. The factors that affect ET, are temperature, wind, precipitation, humidity and solar radiation. ET is usually expressed in inches of water over a certain time period; commonly, a day, week, month or year. The Division of Water Resources' (DWRe) main emphasis in water conservation education is for residents to water to the ET requirements of their landscapes as efficiently as possible. Smart controllers can assist residents in accomplishing this. Smart controllers can reduce outdoor water consumption by an average of 15% to 30%!

Smart Controllers Automatically Adjust Sprinkler Schedule

Once a smart controller is properly installed, the controller will automatically regulate your sprinkler system. This means that you will no longer have to adjust your sprinkler times and duration for seasonal changes and will still have a healthy beautiful lawn! Watering plants with the correct amount of water that is required by the plant, is the healthiest way to grow plants.

Smart Controllers Use Weather Stations or Soil Moisture Sensors

Some smart controllers use weather data and local sensors to manage the property's sprinklers. These types of controllers receive data from either sensors and/or weather stations and then turn the sprinklers on or off based on these weather conditions. These controllers can also turn the sprinklers off in the event of rain, high winds or low temperatures.

Other smart controllers use soil moisture probes that measure how much water is in the soil. As you water your landscape, imagine that there is a reservoir of water under the ground and you are filling it up. The soil moisture probe will measure how full that reservoir is. Once the reservoir level drops below a certain level the probe will turn the sprinklers on and re-fill the soil storage reservoir. These types of smart controllers can also turn off sprinklers during rain events.

Smart Controllers Help Save and Maintain Healthy Landscapes

Plants only require a certain amount of water to maintain health. Too much water, can actually damage your grass. Overwatering promotes fungal growth and insect activity. A smart controller can eliminate over watering.

Smart Controllers Cost

Smart controllers can cost anywhere from $100 to several thousand dollars, seeming to be an expensive investment. However, when you consider what you are saving in both monthly water charges and water, a smart controller can have a fairly fast payback time frame.

Companies that Make Smart Controllers

- Acclima
- Accurate Weather Set
- Accuwater
- Alex-tronics
- Aqua Conserve
- Baseline
- Calsense
- Dynamax
- ET Water Systems
- Hunter
- Hydropoint-Weather Trak
- HydroEarth
- Irrisoft-Weather Reach
- Irritrol
- Irrometer
- Rain Bird
- Rain Master Irrigation System
- Signature Controls
- Toro
- WCS Hydrosaver
- Water 2 Save
- Weather Set
- Weathermatic

DWRe does not endorse any product.

Remember if we each save a little we'll all save a lot!

See www.slowtheflow.org for more water wise landscaping tips.

Salt Lake City Ordinance regulates what can be planted in park strips in order to protect public safety, provide access for utilities, and maintain an aesthetic standard for our community. The rules are pretty simple, and for more information, visit our web site at www.slcsaveh20.com. By following the guidelines, you can make our streets beautiful and help ensure the safety of kids and pedestrians.

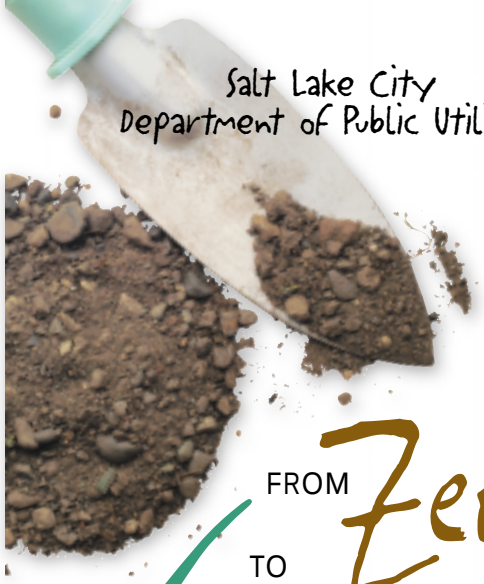
- 33 percent of the space must contain plants. Of course, you can plant more!
- Groundcovers and continuous planting should be no more than 18 inches tall.
- Individual plants used as accents or specimens may be 36 inches tall, as long as they don't block site lines from the roadway or driveway.
- The use of concrete or mortar is prohibited in park strips that are wider than 24 inches or have existing trees.
- Plants with thorns or barbs are prohibited.

Additional Plants

Arabis caucasia Rockcress Sun 4-9" high x 12" wide Spring bloom	*Helianthemum nummularium* Rockrose Sun to part shade 6" high x 18" wide Late spring bloom
Aubrieta deltoides False Rockcress Sun 4-9" high x 12" wide Spring bloom	*Lavandula x intermedia* Hyb. Lavender Sun 30" high x 24" wide Summer bloom
Juniperus ssp. Juniper Sun 8-24" high x 3-8" wide Evergreen	*Rhus aromatica* 'Gro-low' Gro-low Sumac Sun to shade 2' high x 5' wide Fall color
Dianthus ssp. Cottage Pinks Sun 6-12" high x 8-24" wide Early summer bloom	*Santolina ssp.* Lavender Cotton Sun 18" high x 36" wide Summer
Veronica liwanensis Turkish Speedwell Sun to part shade 2" high x 18" wide Early summer	*Zauschneria arizonica* Hummingbird Trumpet Sun 3' high x 2' wide Late summer

Salt Lake City
Department of Public Utilities

1530 SOUTH WEST TEMPLE
SALT LAKE CITY UTAH 84115
801.483.6700
WWW.SLCSAVEH2O.COM



Salt Lake City
Department of Public Utilities

FROM Zero TO Xeriscape

A GUIDE TO
PLANTING PARK STRIPS

Create a beautiful, water-wise park strip.

It's the garden space we love to hate—the park strip—that little strip of soil between the sidewalk and the street. Too hot, too full of tree roots, too narrow, and worst of all, too hard to water efficiently.

Creating a space for people to walk through makes a space more inviting and protects your plants from foot traffic.

But with just a little planting know-how and following some common-sense guidelines, this space can be transformed into a water-wise oasis of color and texture.

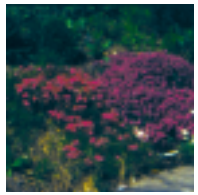
Perennials for the Park Strip

Cerastium tomentosum
Snow-in-Summer
Sun
4" high x 20" wide
Spring bloom

Thymus ssp.
Thyme
Sun
3" high x 24" wide
Early summer bloom

Antennaria rosea
Pink Pussytoes
Sun to part shade
2" high x 15" wide
Early summer

Bergenia cordifolia
Heartleaf Pig-squeak
Part to full shade
12" high x 18" wide
Early spring bloom



Phlox subulata
Moss Phlox
Sun
4" high x 24" wide
Spring bloom

Lavandula angustifolia
English Lavender
Sun
15-24" high x 15-24" wide
Summer bloom

Coreopsis grandiflora
Perennial Tickseed
Sun to part shade
12-24" high x 18-24" wide
Spring bloom

Festuca ovina glauca
Dwarf Blue Fescue
Sun to part shade
8-24" high x 20" wide
Evergreen

Anacyclus dupressus
Mt. Atlas Daisy
Sun
4" high x 12" wide
Early summer bloom

Corydalis lutea
Golden Corydalis
Part to full shade
12" high x 12" wide
Spring bloom

Sedum spectibilis
'Autumn Joy'
Autumn Joy Sedum
Sun
18" high x 24" wide
Fall

Geranium ssp.
Cranesbill
Sun to part shade
18-24" high x 24" wide
Spring bloom

PHOTOS: STEPHANIE DUER

1. Measure the site.

The square footage is determined by multiplying the strip depth by its length.

2. Determine site needs.

Is the park strip in sun or shade; for how long; and for what time of day? Knowing this will help in selecting the right plants for the space.

3. Make a plan.

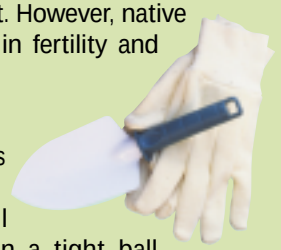
City ordinance requires that 33 percent of a park strip contains plants, but the calculation is based on expected size after a three-year establishment period.

4. Select the plants.

Pick plants that are appropriate for your site: ones that won't be too tall, too wide, get the right sun, and not need a lot of water.

5. Prepare the soil.

Many plants need soil rich in organic material, and you can provide it by digging in compost before you plant. However, native plants want soil low in fertility and quick draining.



6. Plant!

After removing plants from their containers, rough up the root ball so the roots aren't in a tight ball. Place plants so that the top of the root ball is above the existing grade by one inch (this ensures good drainage).

7. Water.

Even water-wise plants need time to establish. Use a screwdriver inserted into the soil near the root ball to determine if the plants need water. If the screwdriver goes in easily, the roots have enough water.

8. Mulch.

To keep the soil moist and cool and to reduce weeds, place 3 to 4 inches of compost, bark, or fine gravel over the strip, taking care to not bury the plants or the water meter.

APPENDIX B

RESOLUTION AMENDING THE SALEM CITY WATER CONSERVATION PLAN

RESOLUTION No. 90220A

ROLL CALL

VOTING	YES	NO
KURT L CHRISTENSEN *Mayor (votes only in case of tie)*		
HOWARD CHUNTZ *Council member*		
TIM DE GRAW *Council member*		
STERLING M. REES *Council member*		
DELYS SNYDER *Council member*		
SETH SORENSEN *Council member*		

I MOVE this resolution be adopted: Tim De Graw
City Council Person

I SECOND the foregoing motion: Howard Chuntz
City Council Person

RESOLUTION No. 90220A

A RESOLUTION AMENDING THE SALEM CITY WATER CONSERVATION PLAN

WHEREAS, Salem City operates a culinary water system; and

WHEREAS, Salem City has adopted a water conservation plan in order to be eligible for grants and loans from the State of Utah for water projects; and

WHEREAS, the City Council understands the pressing need to use water in a more efficient manner to allow for future sustained growth of the community; and

WHEREAS, the water conservation plan should be updated on a regular basis so that it remains current with growth, environmental standards, and newer technology;

NOW, THEREFORE, be it resolved by the Salem City Council as follows:

1. Salem City hereby amends its water conservation plan, attached hereto as exhibit A.

2. The plan will be amended no less than every five years and will continue to play a vital role in the future development of Salem City, Utah.

3. This resolution is effective immediately.

DATED this 2nd day of September 2020.

KURT L CHRISTENSEN, Mayor

Attest:

JEFFREY D. NIELSON, City Recorder

APPENDIX C

PUBLIC MEETING NOTIFICATION

Entity: Salem

Body: City Council

Subject:	Business
Notice Title:	City Council Meeting
Meeting Location:	30 West 100 South Salem 84653
Event Date & Time:	September 2, 2020 September 2, 2020 06:30 PM
Description/Agenda:	Due to COVID-19 Council meeting will be held electronically. If you would like participate please call the city offices (801-423-2770) or email (salemcity@salemcity.org) before 5:00 p.m. on Wednesday, September 2, 2020 to get more information. DATE: September 2, 2020 4:00 pm City Council tour of the New Solid Waste Treatment Facility 6:30 pm WORK SESSION - City Council Chambers 1. Agenda Item Discussion 7:00 p.m. AGENDA - REGULAR COUNCIL MEETING 1. Volunteer Motivational/Inspirational Message 2. Invitation to Say Pledge of Allegiance 3. Youth Council Report 4. SF / Salem Chamber Report 5. Eagle Scout Project- Josiah Lee Flag Pole (Veteran Park) 6. Diamond Creek Development, LLC- Approve Preliminary Plat for Skyview Estates (Approx. Salem Canal Road/Elk Ridge Drive) 7. Approve Ratifying Mayors Signature for Utility Easement Release and Termination of Easement (Ridge View Estates Subdivision) 8. MOU/Donation Agreement with University of Utah- Naloxone/Narcan Kits at Library 9. Approve a Resolution Amending the Salem City Water Conservation Plan 10. Approve City Recorder and City Treasurer to Set Up and Administer Credit Card Account at Alta Bank and to set a Limit. 11. Approve Resolution Making Changes to the Personnel Policy 12. Approve Cement Work (Foundation/footings/floor) Roads/Water Building 13. Approve License Agreement with

Bureau of Reclamation for
Bridge and Utility Crossing on Loafer Canyon Road

14. Approve Minutes of August 19, 2020

15. Approve Bills for Payment

DIRECTORS REPORTS

16. Chief Brad James, Public Safety Director
17. Steve Cox, Building Official Director
18. Attorney Vaughn Pickell
19. Jeffrey Nielson, City Finance Director
    a. Safety Reports

20. Matt Marziale, Public Works/Recreation Director
21. Ted Barnett, Electrical Director
22. Bruce Ward, Engineering

COUNCIL REPORTS

23. Mayor Kurt L Christensen
    a. Finances / Budget
    b. City Employees
    c. Miss Salem
24. Councilman Sterling Rees
    a. UMPA Report
    b. SUVPS Report
    c. Mayor / Council Advisory Board
25. Councilman Seth Sorensen
    a. Recreation
    b. Green Waste
    c. Chamber of Commerce
26. Councilman Howard Chuntz
    a. SUVMWA & Mt. Nebo Representative
    b. Water (Primary & Secondary)
    c. Roads
    d. Storm Drain
27. Councilperson Delys Snyder
    a. Solid Waste
    b. Senior Dinners
    c. Library
28. Councilman Tim De Graw
    a. Sewer
    b. Youth Council
29. Closed Session - Real Property

Please Note: If you have an item that you would like to have discussed before the City Council, please fill out a request form,
which is available on line at salemcity.org or at the City Office, and return it to the City Office by 5:00 p.m. the Thursday prior to the meeting you would like to attend.

Notice of Special In compliance with the A.D.A., individuals needing special

Accommodations:	accommodations during this meeting should notify the Salem City Office at 30 W. 100 S. or call (801) 423-2770 at least three working days prior to meeting.
Notice of Electronic or telephone participation:	Due to COVID-19 Council meeting will be held electronically. If you would like participate please call the city offices (801-423-2770) or email (salemcity@salemcity.org) before 5:00 p.m. on Wednesday, September 2, 2020 to get more information.
Other information:	
Contact Information:	Jeff Nielson 8014232770 jeffn@salemcity.org
Posted on:	August 28, 2020 12:01 PM
Last edited on:	September 01, 2020 03:57 PM

APPENDIX D

PUBLIC MEETING MINUTES

Minutes of the Salem City Council Meeting held on September 2, 2020 in the Salem City Council Chambers.

Work Session: 6:30 pm

1. AGENDA ITEM DISCUSSION

a. Diamond Creek Development, Skyview Estates: Briefing and staff summary by Bruce Ward. Diamond Creek is a holding company of Arive Homes. This is the fourth time we have seen this since 2008. It was rezoned R-12 some time ago by this council in the past year. Preliminary plat has been review by staff and planning and zoning. It has met all of the preliminary plat requirements and it is being recommended for approval. An interesting piece of this project is that we have to time the development of the project, the development of Salem Canal Road, the development of the canal piping, the Central Utah Water Project and the development and expansion of Elk Ridge Drive all at the same time. We have no control over any of these projects. Council asked questions and discussion on timing of this project. Discussion on a neighboring piece of land that needs some attention and a plan of action. Mayor will work with Bruce and Vaughn to take care of it.
b. Ridgeview Estates project summary from Bruce Ward. It was approved some time ago. They have been building on it for a year. They are just about done. The subdivision was approved and a water easement was in the lot. The water easement was no longer needed. When the title company got involved it was recommended that the easement be abandoned. The mayor signed that today and we are asking council to ratify that action taken by the mayor.
c. MOU/Donation Agreement with University of Utah. Jake Zimmerli via Zoom. Naloxone/Narcan. Jake gave some background information on his group and what they can provide through grants. City libraries tend to be successful with being an access point for this drug. The drug has an antidote like effect on drug overdoses and is effective in reversing the effects of drug overdoses. This grant program does not cost cities anything. They provide it at no cost and no judgement to anyone that needs it. Council asked Jake several questions about his program and the community involvement.

MEETING CONVENED AT: 7:00 p.m.

CONDUCTING: Mayor Kurt L Christensen

COUNCIL PRESENT:

Mayor Kurt L Christensen
Councilperson Sterling Rees
Councilperson Seth Sorensen
Councilperson Howard Chuntz
Councilperson Delys Snyder
Councilperson Tim DeGraw

STAFF PRESENT:

Jeffrey Nielson, Finance/Recorder
Vaughn Pickell, City Attorney
Chief Brad James, Police Chief
Ted Barnett, Power
Matt Marziale, PW/Recreation
Bruce Ward, City Engineer
Steve Cox, Building Dept.
Amy Shelley

OTHERS PRESENT

Appearing in person: Dean Ingram, Justin Gordon, Joshua Lee, Josiah Lee, William Burk, Karen Boothe, Linda Grange, John Bowcut and Kerry Burnham. Participating via Zoom: Heather Youd and Jake Zimmerli.

1. VOLUNTEER MOTIVATIONAL/INSPIRATIONAL MESSAGE

Mayor Christensen asked if anyone would like to give a motivational or inspirational message. Delys Snyder stated he would like to offer a motivational message in the form of a prayer.

2. INVITATION TO SAY PLEDGE OF ALLEGIANCE

Josiah Lee invited those who wish to participate, to stand and say the pledge of allegiance with him. He then led the pledge of allegiance for those who wanted to participate.

3. YOUTH COUNCIL

No Youth Council representatives present.

4. SF/SALEM CHAMBER OF COMMERCE

Heather Youd via zoom told

a. Online business series to help local businesses through the pandemic. It will be released every Wednesday at 4:00. Today's was with Val Hale from the governor's office of economic development.
b. Business of the month tomorrow is Glen Ray's Corn Maze.
c. September 16 Golf Scholarship Tournament initially scheduled for May but was postponed due to COVID. They had enough funds and were able to award 15 scholarships. They are hoping to get more funds to award more. They had about 30 applicants this year.
d. September 17th will be the New Networking Luncheon at Veterans Building in Spanish Fork.

5. EAGLE SCOUT PROJECT- JOSIAH LEE FLAG POLE (VETERAN PARK)

a. Matt introduced Josiah Lee and gave a summary of the project.
b. Josiah is planning on installing an 80 feet flag pole and adding a pyramid base that honors each of the branches of the military at the Veteran's Memorial at the Veteran's Memorial Park. He will be working with Colonial Flag to get the flag and pole. This pole will be 80 feet to 120 feet tall and will have an internal rope system so that it eliminates the sounds that can be an issue with small poles. The height would need to be 80 feet to be above the surrounding tree levels. Flag size approx. 20 feet x 30 feet. He has risen approx. $18,000 for the project. Councilman Chuntz asked if Josiah could provide a rendering or drawing of the project and his plans for the memorial. Josiah said that is something he could get. They will get a rendering that can then be taken to neighbors to get input.
c. Council suggested that Josiah come back in a couple weeks.

6. DIAMOND CREEK DEVELOPMENT, LLC- APPROVE PRELIMINARY PLAT FOR SKYVIEW ESTATES (APPROX. SALEM CANAL ROAD/ELK RIDGE DRIVE)

Skyview Estates is a fifty nine lot subdivision, zoned R-12, and located at Salem Canal Road and Elk Ridge Drive. Dean Ingram is here representing Diamond Creek Development to answer to any questions. Delys Snyder asked when they will be ready to start. Dean said early November. First phase has been updated to include two entrances on Elk Ridge Drive as requested by the county. Dean answered council questions about details. It was asked if any of the lots had been presold. Dean said they don't pre-sale any lots until Final Plat has been accepted. Lumber costs has shifted things in the market. Tim asked Dean would be responsible for any improvements on Elk Ridge Drive. Dean answered that yes that would be part of it but they have to work with the county because they are redesigning the project. There will be sewer brought up from the North and then a turn in – turn out entrances. Also sidewalk, fence trail and wall will line the project. Sterling asked what their plan was for the entrance off of Salem Canal Road, do they plan on waiting for it to be piped? Dean answered that they will pipe just that section and then it may need to be re-done later with the CUWP. Sterling also asked if they will be doing that this season when the canal is empty. Dean answered yes. Tim asked how long he sees the project taking to build out. Dean answered Based on market trends right now we are looking 18-24 months for total build out. He said that Mount Loafer Meadows was 21 lots and it was sold out in 35 days. The housing market is pretty tight here right now.

Councilperson Tim Degraw motioned to approve the Diamond Creek Development preliminary plat. Sterling Reese seconded the motion. The motion passed with all in favor

MOTION BY: Councilperson Tim Degraw
SECONDED BY: Councilperson Sterling Rees
VOTE: All Affirmative (5-0).

7. APPROVE RATIFYING MAYORS SIGNATURE FOR UTILITY EASEMENT RELEASE AND TERMINATION OF EASEMENT (RIDGE VIEW ESTATES SUBDIVISION)

Sterling Reese made a motion to ratify the Mayor's signature for release and termination of the utilities easement in the Ridge View Estates subdivision. Seth Sorenson seconded the motion. All voted in favor.

MOTION BY: Councilperson Sterling Rees
SECONDED BY: Councilperson Seth Sorensen
VOTE: All Affirmative (5-0).

8. MOU/DONATION AGREEMENT WITH UNIVERSITY OF UTAH-NALOXONE/NARCAN KITS AT LIBRARY

Motion to accept the MOU/ Donation Agreement with the University of Utah for the Naloxone/Narcan Kits was made by Delys Snyder. Seth Sorenson seconded the motion. All voted in affirmative.

MOTION BY: Councilperson Delys Snider
SECONDED BY: Councilperson Seth Sorensen
VOTE: All Affirmative (5-0).

9. APPROVE A RESOLUTION AMDENDING THE SALEM CITY WATER CONSERVATION PLAN

Bruce stated that The Water Conservation Plan is a Utah Board of Water Resources requirement that municipalities are required to update on a regular basis. Salem City must update ours by December of 2020 before the current plan expires. As part of the Master Plan, Hansen Allen, and Luce has prepared an updated Water Plan. The purpose of the plan is to outline basic high level priorities that the City is taking to continue to encourage water conservation. Bruce gave council a report that gave bullet points of how the city can do better at conserving water and how our metering plan will help conservation. He answered questions by council. He talked about the suggestions of how to implement the conservation measures and how the city will improve once the metering is in place. He suggested a discussion at a later date to update the plan once metering is installed and in use city wide. He gave his recommendation to approve the current plan as recommended by Hansen, Allen and Luce.

Tim Degraw made a motion to accept and approve the updated conservation plan. Howard Chuntz seconded the motion. The motion passed with all in affirmative.

MOTION BY: Councilperson Tim Degraw
SECONDED BY: Councilperson Howard Chuntz
VOTE: All Affirmative (5-0).

10. APPROVE CITY RECORDER AND CITY TREASURER TO SET UP AND ADMINISTER CREDIT CARD ACCOUNT AT ALTA BANK AND TO SET A LIMIT

Jeff told how back on February 19, 2020, he approached the council to move the city credit card from Banner Bank to Alta Bank. Since then COVID hit and he had not really pursued it. Recently he spoke with Alta Bank about this to get it moving forward again. He found out that council needed to approve a limit on the motion. So it is back on the agenda to approve the city recorder (Jeff Nielson) and the city treasurer (Tammy Beck) to set up and administer the Salem City credit card and to set a limit of $5,000 or less.

Motion to approve the Alta Bank Credit card with a limit of $5,000.00 was made by Seth Sorenson. Delys Snyder seconded the motion and all were in favor.

MOTION BY: Councilperson Seth Sorensen
SECONDED BY: Councilperson Delys Snider
VOTE: All Affirmative (5-0).

11. APPROVE RESOLUTION MAKING CHANGES TO THE PERSONNEL POLICY

With COVID hitting this year, we have many employees who were not able to take vacation and are at risk of losing their vacation time. We reached out to other cities (and a couple of other entities) to see what they allow their employees to carry over on vacation hours. We found that most of the cities allowed 240 hours or more to be carried over. We currently allow 80 hours for employees and 160 hours for directors. We want to change that to 240 hours for all employees. Staff answered council questions on this policy change. Delys asked if this would change the amount paid to employees that retire. It was answered yes.

Sterling Reese made motion to approve the changes to the personnel policy allowing for employees to carry over up to 240 hours. Tim Degraw seconded the motion. All voted in favor of the motion.

MOTION BY: Councilperson Sterling Rees
SECONDED BY: Councilperson Tim Degraw
VOTE: All Affirmative (5-0).

12. APPROVE CEMENT WORK (FOUNDATION/FOOTINGS/FLOOR) ROADS/WATER BUILDING

Matt summarized the need for Footings and Foundation - Flat work at the Roads Shop and Building before winter comes. They can't store the building on the ground over the winter. This bid award is to get the footings and fountain of the previously purchased building underway. Also includes all flat work. The Steel building was purchased and is on site at the Public Works yard on Arrowhead trail. The roads department is desiring to

get the concrete work done and the building standing before winter arrives. Matt explained about the bids they've received. Council asked if this was already budgeted. Jeff clarified that yes it was budgeted last year and was carried over to this year.

Motion to approve Paul Giles Concrete Inc to do the cement work, foundation footings and flatwork for the roads/water building. Motion seconded by Howard Chuntz. All voted in favor.

MOTION BY: Councilperson Delys Snider
SECONDED BY: Councilperson Howard Chuntz
VOTE: All Affirmative (5-0).

13. APPROVE LICENSE AGREEMENT WITH BUREAU OF RECLAMATION FOR BRIDGE AND UTILITY CROSSING ON LOAFER CANYON ROAD

This is a license agreement between Salem City and the Bureau of Reclamation to allow us to continue to build and ultimately construct the bridge over Loafer Canyon Road and the Highline Canal. We have to get a licensing agreement every time we cross this canal. We multiple of these because we've crossed the canal several times with our utilities. It doesn't bind us to anything it just allows us to move forward in the planning process with the Bureau. Questions were asked where funding would come from. Bruce answered impact fees.

Motion to accept the licensing agreement with the Bureau of Reclamation for the bridge and utility crossing on Loafer Canyon Road was made by Seth Sorensen. Seconded by Tim Degraw. All voted in favor.

MOTION BY: Councilperson Seth Sorensen
SECONDED BY: Councilperson Tim Degraw
VOTE: All Affirmative (5-0).

14. APPROVE MINUTES OF AUGUST 19, 2020

Howard Chuntz made a motion to approve the minutes of August 19, 2020. Delys Snyder seconded the motion and all voted in favor.

MOTION BY: Councilperson Howard Chuntz
SECONDED BY: Councilperson Delys Snider
VOTE: All Affirmative (5-0).

15. APPROVE BILLS FOR PAYMENT

Mayor Christensen asked if there were any questions with the bills that need approval. Jeff answered council questions and explained bills that needed clarification.

Seth Sorensen motioned to approve the bills for payment in the amount of $2,278,779.02. Sterling Reese seconded the motion and all voted in favor.

AMOUNT: $2,278,779.02
MOTION BY: Councilperson Seth Sorensen
SECONDED BY: Councilperson Sterling Rees
VOTE: All Affirmative (5-0).

16. CHIEF BRAD JAMES, PUBLIC SAFETY DIRECTOR

Council members asked Chief about his thoughts on Naloxone. He gave his full support to the grant and getting this implemented to our city.

17. STEVE COX, BUILDING OFFICIAL DIRECTOR

Steve gave a report of how successful it has been using the Vinyard City inspectors. We've been using the Tuesday, Wednesday, and Thursdays. It's been so busy. Wyatt passed his Building tests today. He has his plumbing, electrical and mechanical to do.

18. ATTORNEY VAUGHN PICKELL

Did not have anything to report tonight.

19. JEFFREY NIELSON, CITY FINANCE DIRECTOR/CITY RECORDER

Carylee Baker is retiring in October. It's time to have another full time person in the office so we've opened this position as full time.

20. MATT MARZIALE, RECREATION/PUBLIC WORKS DIRECTOR

a. Hand sanitizing stations throughout city buildings. 3,000 masks for staff and city wide events. COVID funds purchased these items.

b. West end of pond to get moss out of west pond. Dredging will take place in a month or so. Because of the depth, it grows moss quickly. When it cools off a bit they will be able to dredge and slow the growth. Fountains have been a successful tool to keep water circulating.

c. Cole park bids to level have been sent out and the 10th will be the closing date. Working on leveling and getting spread out. Planting trees and seeding will happen in October. The whole project is funded with impact fees.

d. PI metering project will start in about two weeks. Interviewing will happen tomorrow to hire the installation crew. Looking at hiring 3-4 which has been budgeted.

e. Ricky is a street taco vendor that reached out to the city after the location he has been previously located in Payson. He is seeking approval to relocate to the Exon at the south end of town. Vaughn needs to do some research on our ordinances and if and how it relates to this situation. Council recommends issuing a temporary permit for 90 days and re-evaluate at that time.

21. TED BARNETT, ELECTRICAL DIRECTOR

a. Poles removed from Arrowhead trail.
b. Boring was started on the canal piping under Salem Canal Road.
c. Ridgeview SESD has been moving their lines.
d. New hire Kyle (Alby?) is starting soon. He is a local; raised in Payson and has his pre-apprenticeship. His apprenticeship will be a four year program. We're excited to have an extra guy.

22. BRUCE WARD, ENGINEERING

Did not have anything to report tonight.

23. JOHN BOWCUT, FIBER

Working on some bonding and we have meetings tomorrow on that. It's also on the next agenda schedule so we should have updates at that time.

COUNCIL REPORTS

24. MAYOR KURT CHRISTENSEN

Did not have anything to report tonight.

25. COUNCILPERSON STERLING REES

a. UMPA meeting tentatively scheduled March 24-26th in St. George coming up.
b. Solar Project coming to the North Spanish Fork area.
c. There will be another rebate program coming up.

26. COUNCILPERSON SETH SORENSEN

Did not have anything to report tonight.

27. COUNCILPERSON HOWARD CHUNTZ

Did not have anything to report tonight.

28. COUNCILPERSON DELYS SNYDER

The city is at 78% of census participation. The library will be doing a campaign to try to get the other 22 %

29. COUNCILPERSON TIM DEGRAW

Did not have anything to report tonight.

30. CLOSED SESSION- REAL PROPERTY

Motion to close the meeting and move into closed session was made by Seth Sorenson and seconded by Howard Chuntz. All voted in favor. Mayor closed the meeting at 8:40 pm.

MOTION BY: Councilperson Seth Sorensen
SECONDED BY: Councilperson Howard Chuntz
VOTE: All Affirmative (5-0).

MEETING ADJOURNED AT 8:40 PM AND MOVED TO CLOSED SESSION.

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Jeffrey Nielson, City Recorder