

SALINA CITY WATER CONSERVATION PLAN 2021

Salina City
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Salina, UT 84654

July 2021

PREPARED BY:
Sunrise Engineering



SALINA CITY

WATER CONSERVATION PLAN

July 2021

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1.0 INTRODUCTION

A water conservation plan is essential to successful water system management. The efficient use of water in systems and communities mitigates supply challenges, reduces expensive infrastructure costs, and creates opportunity for sustainable growth. In the State of Utah water conservation plans are required by S.B. 73-10-32 to be updated and submitted to the Utah Division of Water Resources every five years. This water conservation plan has been prepared to describe how water conservation programs and practices should play an important role in meeting our future water needs, as well as address the concerns of leaders and citizens of both Salina City and the State of Utah. Salina City's staff and City Council are committed to decreasing the City's per capita water use and meeting the goal of 490 gpcd by the year 2030. This goal represents a 1% decrease in gpcd per year for the next 10 years.

2.0 SYSTEM PROFILE

Salina City is located in northern Sevier County, in the second driest state in the nation. The City's 2021 population is approximately 2,564. Based on past census records and projected growth rates Salina City will see an estimated annual growth rate of 1.5%. Providing water to meet the needs of its citizens has always been a top priority of city leaders and planners. As a result, a well-maintained and operated water system provides the citizens of Salina with water when and where needed. The current culinary water area map is shown in appendix A. Currently, the City's water system provides water to 861 residential, 161 commercial, 23 industrial, and 28 institutional (public) connections.

Table 2.1 City Culinary Connections

Category	Current Connections
Residential	861
Commercial	161
Industrial	23
Institutional	28

Salina City has a secondary water system used for irrigation. Only those connections outside of the city boundaries use the culinary water system for irrigation. The City's irrigation system provides water to 800 residential, 25 commercial, and 6 Institutional connections. This water is used for watering lawns and gardens.

Table 2.2 City Irrigation Connections

Category	Current Connections
Residential	800
Commercial	25
Industrial	0
Institutional	6

2.1 WATER SOURCES

Salina City has 1,665.3 acre-feet per year (ac-ft) of culinary water rights with points of diversion at Boiling Springs and an underground well that the City refers to as the Denmark Well. The City also has 24.1 ac-ft of secondary water rights with points of diversion at Lost Creek and the Sevier River. The City's culinary and secondary water sources are summarized in Table 2.3.

Table 2.3 Salina City Source Summary

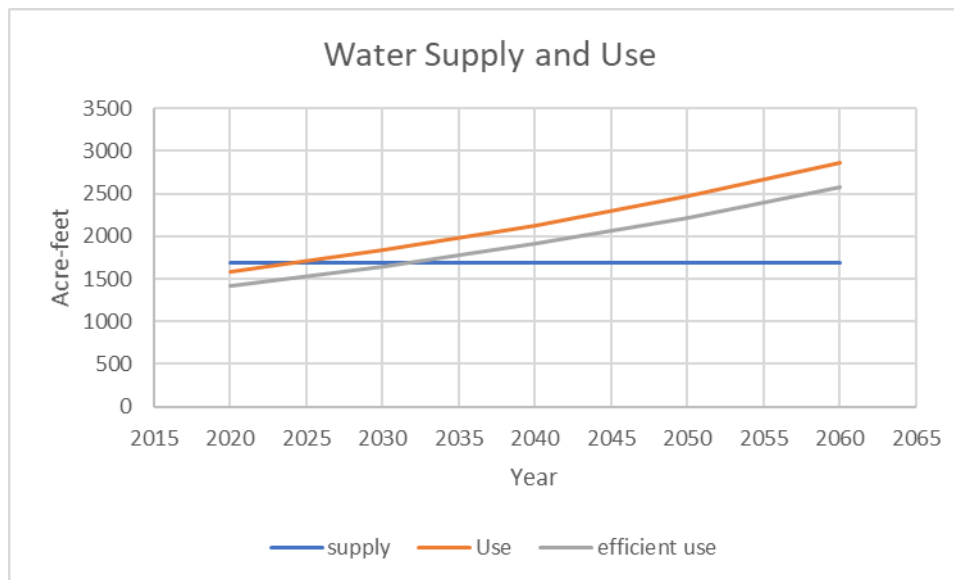
Salina City Source Summary					
	W.R. #	Source	Total Divertible (cfs)	Total Divertible (ac-ft/yr)	Type
1	63-1064	Undergroundwater Well	0.125	90.5	Culinary
2	63-1063	Underground Water Well	0.125	90.5	Culinary
3	63-473	Boiling Springs	1	710.0	Culinary
4	63-4709	Boiling Springs	1	301.5	Culinary
5	63-1135	Underground Water Well	0.0841	15.0	Culinary
6	63-4760	Underground Water Well	1.752	400.0	Culinary
7	63-3230	Lost Creek	2	22.9	Secondary
8	63-4027	Underground Water Well	1	58.0	Culinary
9	63-3169	Sevier River	0.002	1.2	Secondary
Total			7.09	1,689.43	

Salina City is being proactive about ensuring the city continues to have enough water for their citizens. With this in mind each new annexed piece of land must give the city one water right per residential connection associated with the annexed land. This ordinance provides the city with enough water source while allowing for growth in the future.

2.2 WATER SUPPLY & USE

The following graph shows the City's reliable supply for the next 40 years compared to amount of water the city will use with its current gpcd and it's goal gpcd. As can be seen from the graph, if the city reaches the goal of 321 gpcd we will continue to need more water supply due to growth but by 2060 we will need approximately 300 ac-ft less per year than our current use.

Figure 2.1 Water Supply and Use



3.0 WATER MEASUREMENT

The city currently has manual read master meters located at Boiling Springs and at the chlorine shack that track how much water is entering the culinary water system. These meters are read twice a month in order to keep an accurate and current view of how well the city is doing with conservation and leak prevention.

Each connection within the Salina water system is measured and tracked with a residential meter. Currently these meters are all manual read meters and are read once a month. These meters allow the city to keep track of high-water users within the service area.

4.0 WATER LOSS CONTROL

Tracking and preventing water loss is very important to Salina City. The city uses the system of master meters, located at Boiling Spring and at the chlorine shack, and residential meters to keep track of how much water is being lost through leaks each month. This is done by simply subtracting the water being used through residential meters from the total water coming in through the master meters. The city also takes a proactive approach every time a leak is located. The city has a maintenance crew that has the responsibility of finding and fixing leaks as quickly as possible.

5.0 BILLING

Salina City uses a tiered system for water rates to incentivize residents to reduce water use. The culinary fee schedule breaks down rates based on the type of connection. The fee schedule for culinary water is shown in Table 3.1. The city also charges fees for secondary irrigation. The secondary fee schedule is based on the size of lot of the user. The secondary irrigation fee schedule is shown in Table 3.2.

Table 5.1 City Culinary Water Fee Schedule

Culinary Water Fee Schedule		
Type of Connection	Amount of Water	Rate
Residential Base Rate	0-10,000 gallons	\$33.00
Every 1,000 gallons over 10,000 gallons		\$2.00
Agriculture Base Rate	0-10,000 gallons	\$46.80
Every 1,000 gallons over 10,000 gallons		\$2.00
Light Commercial Base Rate	0-10,000 gallons	\$46.80
Every 1,000 gallons over 10,000 gallons		\$2.00
Medium Commercial Base Rate	0-17,000 gallons	\$57.60
Every 1,000 gallons over 17,000 gallons		\$2.00
Heavy Commercial Base Rate	0-32,000 gallons	\$118.80
Every 1,000 gallons over 32,000 gallons		\$2.00

Table 5.2 City Secondary Water Fee Schedule

Secondary Water Fee Schedule	
Size of Lot	Rate
0-.25 acres	\$15.00
Every additional .25 acres	\$0.75

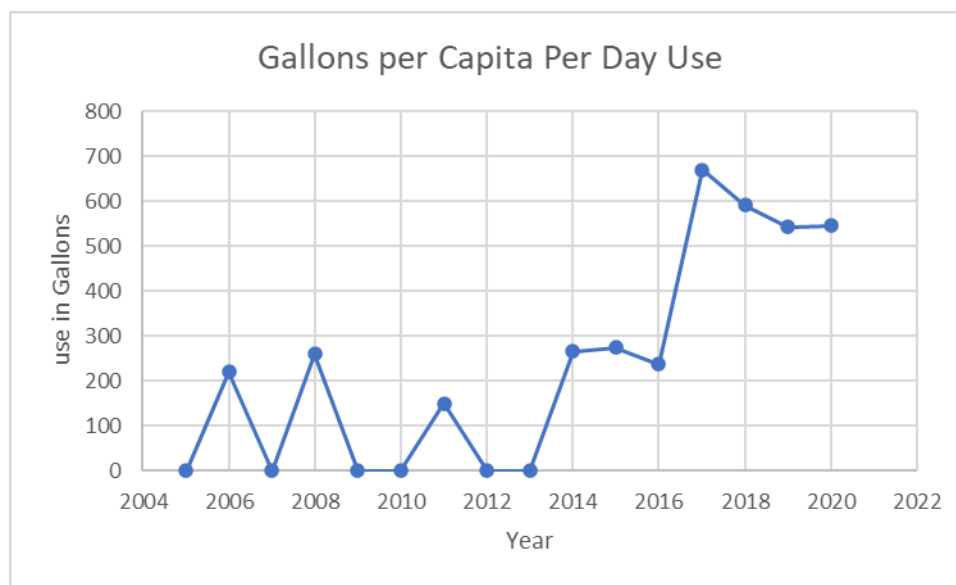
6.0 WATER USE

The new regional goal for Sevier County is 321 gpcd, a reduction of 20% by 2030. As of 2020 our water usage was 342 gpcd for culinary and 545 gpcd total. Below are charts and graphs showing current water usage and gpcd for Salina City including both culinary and secondary water usage. As can be seen in Figure 4.1 the City has data for both culinary and secondary water usage for the last 4 years. Since that time the gpcd has dropped almost every year. We as a city council are proud that our efforts as a city have seen a payoff these past few years. We hope to continue to see progress in the future.

Table 6.1 Current GPCD by Use

	Culinary	Secondary	Total
Residential	88	253	342
Commercial	64	5	69
Industrial	60	0	60
Institutional	72	3	74
Total	284	261	545

Figure 6.1 GPCD Water Efficiency Progress



7.0 CURRENT CONSERVATION PRACTICES

COORDINATION WITH STAFF

Salina City has a full-time maintenance crew that manages the culinary and secondary water systems. They are in charge of detecting and fixing leaks, as well as updating the city council during council meetings on water use and conservation.

WATER SCHEDULE

In an effort to conserve water Salina City has implemented a watering schedule for residents to follow during the summer months. This schedule has been posted in public areas throughout the city as well as on our website at <https://www.salinacity.org/mandatory-water-schedule-starting-july-15/>. The schedule offers each resident a chance to water outside twice a week. Odd numbered houses can water on Wednesday and Sunday. Even houses

can water on Tuesday and Saturday. There is no outside watering allowed on Monday, Thursday, and Friday. As well as between the hours of 10:00 am and 6:00 pm.

With the increased attention given to water conservation the city has made this watering schedule mandatory for all residents. Water users will receive a warning on their first offense and a citation at the second offense.

NEW DEVELOPMENT

The City adopted an ordinance for water requirements placed upon any new development being annexed by the city. The ordinance in the municipal code 17.116.010.C.3 states that any land being annexed by Salina City must be accompanied by water rights sufficient to accommodate the needs of the potential development of the land. This generally equates to one acre foot of water per residential building permit. The goal of this ordinance is to maintain the cities surplus of water rights in order to provide current and future residents with enough water for their homes.

8.0 FUTURE CONSERVATION PRACTICES

RADIO READ METERS

As Salina City looks to the future, we realize the need to conserve water in our area will only grow. It is important that we continue our conservation efforts and focus on implementing further conservation practices moving forward. One plan moving forward will be to install radio read meters in residential areas which currently only have manual read meters. These new meters will allow for more accurate and detailed water tracking. The radio read meters will allow the city to collect data at any time rather than just once a month. Collecting data more frequently makes it possible to detect and fix leaks faster.

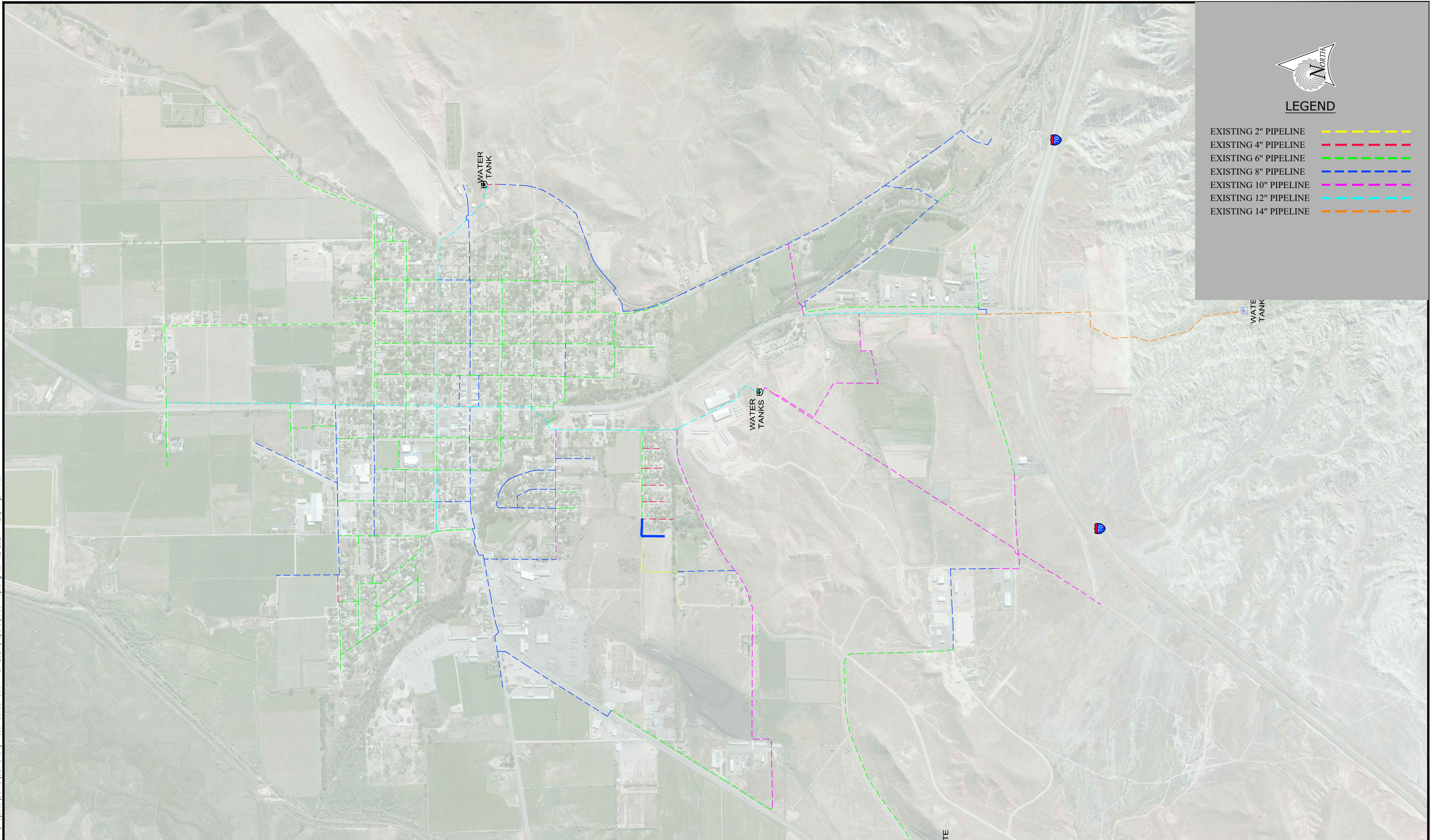
9.0 IMPLEMENTATION SUMMARY

Salina City's council and staff are committed to reaching our water conservation goals. It will be the responsibility of the maintenance crew and city council to enact the projects and practices laid out in this plan. This plan will also be updated and resubmitted to the Utah Division of Water Resources in 2026.

APPENDIX A

AREA MAP

U:\projects\Salina City Water Conservation Plan 2021\Report\Area map.dwg, Jul 13, 2021 11:20pm, jrmmai



LEGEND

- EXISTING 2" PIPELINE
- EXISTING 4" PIPELINE
- EXISTING 6" PIPELINE
- EXISTING 8" PIPELINE
- EXISTING 10" PIPELINE
- EXISTING 12" PIPELINE
- EXISTING 14" PIPELINE

SALINA CITY

Current Water System



25 EAST 500 NORTH
FILLMORE, UTAH 84631
TEL 435.743.6151 • FAX 435.743.7900
www.sunrise-eng.com

**SALINA CITY CORPORATION
COUNCIL MEETING
January 26, 2022**

COUNCIL AND STAFF PRESENT:

Mayor Jed Maxwell
Cade Hunter
Earl Taylor, excused
Jon Maxwell
Daniel Viers
Kevin Mickelsen

Ashlee Larsen, City Recorder
Kathy Maxwell, City Treasurer
Al Taylor, Chief of Police
Kelly Laier, P&Z Chairperson
Eric MacArt Salina City Police
Chris Horne Fire Chief

PUBLIC HEARING: Accepting comments on proposed Ordinance 165-2022 An Ordinance amending Chapter 10.08 Parking; to add Section 10.08.030 overnight parking. **Mayor Maxwell** called the Public Hearing to order at 6:40 p.m. and opened the meeting for comments. **Eric MacArt** voiced his concerns regarding the proposed Ordinance. **MacArt** is concerned being an employee for Salina City and his job would require him to enforce this Ordinance. **MacArt's** concerns with enforcing the Ordinance is with his personal residents being in violation. **MacArt** stated he has teenage drivers with several vehicles parked in front of his house along the street front, he does not have enough parking for all his vehicles within his parcel. **Mayor Maxwell** stated he understands but the streets need to be cleared during this season for the snowplows to remove snow. **Viers** stated this Ordinance is mainly to address inoperable vehicles that are on Salina City streets. **Mayor Maxwell** read section 2 of the Ordinance which states Street Maintenance Overnight Parking Prohibited. "No person shall park a vehicle on any street or city-owned parking lot without it being attended by someone able to immediately remove the same between the hours of one (1) a.m. and five (5) a.m. of any day beginning November 15th and ending April 15th of each year except health care professionals and/or emergency support personnel during emergency calls." **Cade Hunter** suggested revising the proposed Ordinance, to state there shall be no parking during November 15th and ending April 15th for snow removal on any streets from gutter to gutter. **Cade Hunter** closed the Public Hearing at 6:58 p.m. **Daniel Viers** seconded. Motion carried 4 to 0.

PUBLIC HEARING: Accepting comments on proposed Ordinance 162-2022 An Ordinance amending Chapter 8.04 Nuisance Abatement. Revise 8.04.070, Notice to Abate Nuisance; 8.04.080, Remedies to Abate a Nuisance; 8.04.090, Criminal Citation; 8.04.100, Appeals. **Mayor Maxwell** called the Public Hearing to order at 6:58 p.m. and opened the meeting for comments. No comments were made this time. **Cade Hunter** motioned to close the Public Hearing at 7:03 p.m. **Daniel Viers** seconded. Motion carried 4 to 0.

PUBLIC HEARING: Accepting comments under Utah Code Section 11-36a-504 to discuss the proposed adoption of the Water Conservation Plan. **Mayor Maxwell** called the Public Hearing to order at 7:03 p.m. and opened the meeting for comments. **Mario Gonzalez** from Sunrise Engineering stated in the State of Utah the Water Conservation Plans are required to be updated and submitted to the Utah Division of Water Resources every five (5) years. Salina City has done a great job with reporting the water usage but updating the report will detect leaks and will help

reduce water usage. **Cade Hunter** motioned to close the Public Hearing at 7:08 p.m. **Daniel Viers** seconded. Motion carried 4 to 0.

Visitors-

Josh Chapman: Discussion on access/animal rights on Honey Drive parcel, Josh Chapman stated he is a Medical Provider and is new to Salina City. **Chapman** has been looking for property to build a home since he moved here. **Chapman** presented a map of the parcel to Council to review where the parcel is located. **Chapman** and another family would like to divide the property into 5 ½ acres each. **Chapman** stated there's two access points into the property one being off White Drive and the other off Honey Drive. **Chapman** met with Planning and Zoning last week and they had some concerns of the access point off Honey Drive. Planning and Zoning proposed the homeowner will need to construct a hard surface 50-foot radius Cul-de-sac from the city street to the home. **Chapman** asked if he can construct a gravel turnaround at the end of the city street to the home. **Mayor Maxwell** stated no, that won't work because it states in the Ordinance that the homeowner will construct a 50-foot radius hard surface cul-de sac for emergency vehicles and garbage trucks to turnaround. After one-year Salina City will take ownership and maintain the street. **Mayor Maxwell** stated Salina City has dealt with some of these same issues, where streets were not provided with a cul-de-sac. It makes it difficult for emergency and garbage trucks to turnaround. **Viers** discussed his concerns when developing the parcel and not constructing the road. **Kevin Mickelsen** asked where Chapman received the map to the parcel. **Chapman** stated Sevier County, but he had to place two maps together. **Mayor Maxwell** asked if Chapman is planning to purchase the railroad easement. **Chapman** stated if he does they could access the road a different way, but he won't be able to at this time. **Cade Hunter** asked Chapman his concerns on animal rights. Council reviewed the animal ordinance with Chapman on a 5-acre parcel. **Laier** stated if Salina City bends the Ordinances for one what will happen when the next guy comes to Council. **Chapman** stated he's fallen in love with the town and would like to be part of the community, but a lot of these Ordinances are making it difficult for new residents to move in. Council understands Chapmans frustrations but stated they need to follow the Ordinances, and thanked Chapman for coming to City Council.

Jori Koosterman- Wellness Program **Koosterman** stated she's here from the Health Department and spoke of several programs the health department is offering for employees. **Koosterman** stated the Health Department has several inside and outside signage Salina City can post on their buildings, she would be happy to provide some for Salina City. She spoke about the importance of Salina City employees participating in some of these programs. **Koosterman** reviewed the stop smoking and vaping program and the health and wellness program. **Mayor Maxwell** thanked Jori Koosterman for her information and coming to City Council.

AGENDA TOPICS

Mayor

Jed Maxwell:

Ordinance 162-2022 Notice to Abate Nuisance. **Cade Hunter** motioned to approve Ordinance 162-2022 with the change of the date from 2021 to 2022. **Jon Maxwell** seconded. Motion carried 4 to 0.

Ordinance 165-2022 Overnight Parking **Cade Hunter** stated he would like to table this Ordinance until the next scheduled City Council meeting and make the change of the streets being defined as gutter to gutter.

Water Conservation Plan **Jon Maxwell** motioned to approve the Water Conservation Plan. **Daniel Viers** seconded. Motion carried 4 to 0.

Donation Miss North Sevier Pageant. **Daniel Viers** motioned to donate \$150.00 to The Miss North Sevier Pageant. **Jon Maxwell** seconded. Motion carried 4 to 0.

Approval of Local Consent Permit **Daniel Viers** motioned to approve the Local Consent Permit. **Cade Hunter** seconded. Motion carried 4 to 0.

Review Budget **Mayor Maxwell** asked Council to review their department budget and get with Ashlee Larsen with any changes or concerns. Council spoke about working towards the budget meeting for the end of the fiscal year.

Blackhawk Arena

Director Jake Van

Police Chief

Al Taylor

Chief's Conference **Chief Taylor** stated he needs approval to register for the Chief's Conference on March 28th-30th in St. George cost is around \$120.00 per night and the Conference cost is \$175.00 **Cade Hunter** motioned to send Chief Taylor to Chief's Conference in March. **Daniel Viers** seconded. Motion carried 4 to 0.

Statistical Review **Chief Taylor** reviewed the statistical information from 2021. **Taylor** spoke about the stats being extremely high especially in July. **Taylor** spoke about several cases the department has been working on, and how hard it's been keeping up with everything. **Taylor** is concerned with the amount of workload Salina City Police Department is enduring with only having him, (2) two fulltime officers. (1) one fulltime SRO and (2) two part-time officers. **Cade Hunter** is Sevier County able to help with any investigations. **Taylor** stated yes, they will help with bigger cases. **Taylor** stated Sevier County officers are just as busy. **Jon Maxwell** stated the police department needs to eventually hire a fulltime investigator. **Taylor** stated they have dealt

with a lot of fraud and mental health cases. **Cade Hunter** thanked Chief Taylor and his guys for all their hard work. **Viers** thanked Chief for making Salina City a safe place to live.

Planning and Zoning
Chairperson Kelly Laier:

Maint. Supervisor
Brad Allen:

COUNCIL MEMBER BUSINESS

Earl Taylor excused

Jon Maxwell:

Approval of Court Report December 2021 **Cade Hunter** presented the Court Report for December 2021. Total collected \$8,620 with Salina City's portion \$4,830.41 **Cade Hunter** motioned to accept the Court Report for December 2021 **Daniel Viers** seconded. Motion carried 4 to 0.

Daniel Viers:

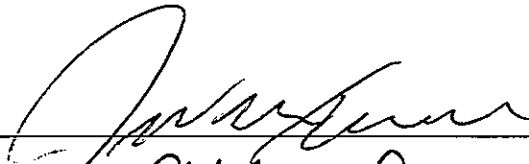
Kevin Mickelsen: **Mickelsen** stated he spoke with Rodger Brazell and he made a list of the roads in town that need to be crack sealed. **Mayor Maxwell** stated yes, we should keep up on the roads in town, but suggested receiving a map of the sewer project and the roads that will be torn up for the project before crack sealing any streets. **Mickelsen** will reach out to Mario Gonzalez to get a map and put a list together for crack sealing.

Mayor Maxwell spoke about the CIB meeting scheduled next week for the sewer project and invited Council to come.

Cade Hunter motioned to adjourn the City Council at 8:25 p.m. **Daniel Viers** seconded. Motion carried 4 to 0.

Date 1/23/2022

Mayor



Date 2/23/2022

City Recorder



AFFIDAVIT OF PUBLICATION

COUNTY OF SEVIER

STATE OF UTAH

I, Troy or Lora Fielding, owners of MOE News, publisher of the Salina Sun, a newspaper of general circulation published weekly in Redmond, Sevier County, Utah, do solemnly swear that the

LEGAL NOTICE: Public Hearing Water Conservation Plan

as per clipping attached, was published once a week for two week(s) in the regular and entire said newspaper commencing with the issue dated December 15 2021 and ending with the issue dated December 22, 2021.

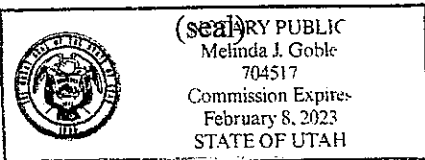
Subscribed and sworn to before me this 22 day of December, 2021

Lora Fielding

Troy or Lora Fielding

Melinda J. Goble

Notary Public signature



Notary public residing at Salina, Utah

My Commission will expire 2/8/23

**SALINA CITY
PUBLIC NOTICE**

Public notice is hereby given that the Salina City Council will hold a public hearing January 26, 2022, at 6:50 p.m. in the Salina City Council Chambers located at 90 West Main, Salina, Utah,

The purpose of the Public Hearing is to accept comments under Utah Code Section 11-36a-504 to discuss the proposed adoption of the Water Conservation Plan. The Water Conservation Plan is available for review at the Salina City Office.

/s/ Ashlee Larsen, Salina City Recorder

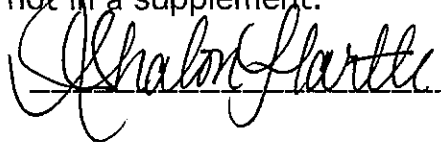
Published in the Salina Sun on December 15 & 22, 2021

AFFIDAVIT OF PUBLICATION

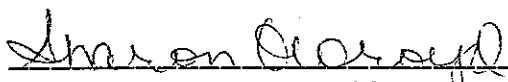
County of Sevier, State of Utah, ss.

I, SHALON HARTLE, being first duly sworn, depose and say I am the Legal Secretary of THE RICHFIELD REAPER, a weekly paper having a bona fide circulation of more than 200 subscribers in the State of Utah, published every Thursday at Richfield, Sevier County, Utah, and that said notice was published on Utahlegals.com, a website established by the Utah Press Association through the collective efforts of Utah's newspapers, on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the last day of publication.

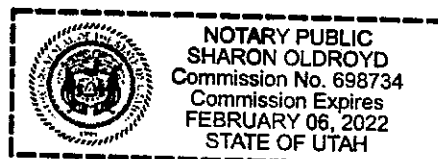
That the notice WATER CONSERVATION PLAN a copy of which is attached hereto, was published in said paper for 2 consecutive issues, the first publication having been made in the issue of the 15 of DEC 2021, and the last publication in the issue of the 22 of DEC 2021 that the said notice was published in the regular and entire issue of every number of said paper during the period of times and publication, and that the same was published in the newspaper proper and not in a supplement.



Subscribed and sworn to before me this
22 of DEC, 2021



Notary Public



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/s/ Ashlee Larsen, Salina City Recorder
Published in the Salina Sun on December 15 & 22, 2021
Published in The Richfield Reaper Dec 15 & 22, 2021.
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