

# MILFORD CITY WATER CONSERVATION PLAN 2022

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*September 2022*

**PREPARED BY:**  
Sunrise Engineering



# MILFORD CITY

## WATER CONSERVATION PLAN

*September 2022*

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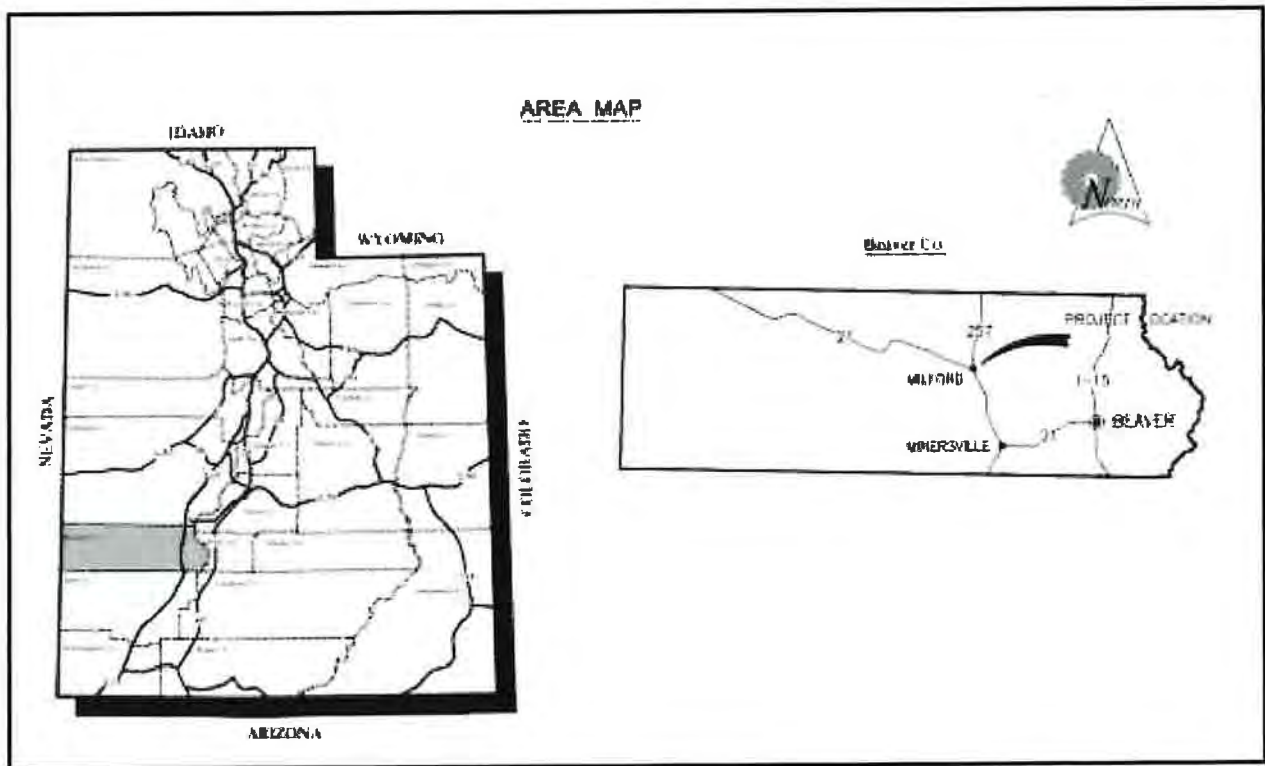
## 1.0 INTRODUCTION

In response to the continual growth that the State of Utah has seen statewide, Milford City has become increasingly aware of the future cost and availability of a finite supply of water. Similar concerns have been demonstrated by the state legislature as shown by the Water Conservation Plan Act described in Section 73-10-32 Utah Code Annotated. This document constitutes the Water Conservation Plan for Milford City. It is intended to address the concerns of both Milford City and the State of Utah.

## 2.0 BACKGROUND INFORMATION

Milford City is a growing community in Beaver County located approximately 30 miles northwest of Beaver, Utah. The Milford City culinary water system provides water to approximately 1,431 residents, in addition to several commercial and industrial facilities. The culinary water system supplies water for both indoor and outdoor use. In addition to residential growth, Milford City is also preparing for possible commercial and industrial growth. A map of the area is shown below in Figure 2.1 and a map of the current service area is included in Exhibit 1.

Figure 2.1: Area Map



Milford City has commissioned Sunrise Engineering, Inc. to complete a water conservation plan. The intent of this plan is to implement better management practices and conservation efforts which will aid in maintaining and conserving the city's water resources for many years to come.

Milford City understands the critical nature of maintaining and conserving water resources in order to meet the water needs of their customers. As a result, the protection and maintenance of the City's water sources and distribution system is a recognized priority that is critical to providing the continuous water supply that the customers depend on.

Currently there is no one fulfilling the role as the Water Conservation Coordinator for the City. Milford City is a small community, and it would be a burden to have additional staff, therefore any conservation coordination will be accomplished by existing City Council members, city staff and the water system operator.

## **2.1 Culinary Water Connections**

According to the data provided by Milford City, there are currently 683 connections on the system. This includes 592 residential connections, 67 commercial connections, 4 industrial connections, and 20 hospital/school connections. The hospital/school connections include multiple connections at the high school, elementary school, old high school, and hospital. A portion of these 20 connections is not currently used or have seasonal or low usage. For the purpose of the conservation plan, these connections will be grouped into three facility connections representing the high school, elementary school, and hospital. The City also sells metered bulk water to construction companies working on large scale construction projects in the area on a sporadic basis.

All culinary water connections in Milford City are currently metered. Newly installed radio read meters allow for all water connections to be metered and read year-round.

## **2.2 Secondary Water Connections**

Although the City does maintain a separate secondary irrigation water system, the only facilities served by the secondary system are the City parks, cemetery, golf course, and the schools. This secondary system includes a total of 8 institutional connections. All other residential and commercial connections utilize culinary water for outdoor irrigation.

## **3.0 EXISTING RESOURCES**

### **3.1 Existing Water Rights**

The existing Milford City culinary water rights are listed in Table 3.1.

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**Table 3.1: Milford City Water Rights**

<b>Milford City Culinary Water Rights</b>				
	<b>W.R. #</b>	<b>Change App.</b>	<b>Status</b>	<b>Ac. - Ft.</b>
<b>1</b>	71-497	45723	Approved	10.00
<b>2</b>	71-498			807.03
<b>3</b>	71-499			-
<b>4</b>	71-500			726.62
<b>5</b>	71-1226			175.97
<b>6</b>	71-1227			1,334.09
<b>7</b>	71-1270			0.85
<b>8</b>	71-1936			186.08
<b>9</b>	71-4699			14.00
<b>10</b>	71-3341	239370	Approved	250.00
<b>Total</b>				<b>3,434.64</b>

It should be noted that Table 3.1. represents a summary of the city’s water rights inventory as compiled in the Milford City 40-year Water Rights Plan dated July 2021.

### **3.2 Existing Sources and Distribution Facilities**

#### **3.2.1 Milford City Culinary Sources**

Milford City’s culinary water system is supplied by a primary culinary well, which is known as the Mineral Mountain Well. The well is approximately 2 miles southeast of Milford. The well was test pumped at 2.28 cfs, or 1,024 gpm. The well is currently equipped to pump up to 900 gpm.

A second culinary well, known as the Granite Peak well, was recently constructed approximately ½ mile northeast of the Mineral Mountain Well. The well was test pumped at 1,500 gpm and is currently equipped to pump up to 1000 gpm.

The City also has a backup well located approximately one mile south of Milford on 700 West that is rated at approximately 1,200 gpm. However, the arsenic levels in the water are approximately 29 ppb, which exceeds the EPA maximum containment limit of 10 ppb. As such, this well should not be used in the culinary water system.

The total culinary source capacity for Milford City is therefore 1900 gpm or about 3,066 AF of water per year. Historical source water is shown below in table 3.2:

**Table 3.2: Historical Culinary Source Water in Acre-feet**

<b>Historical Source Water in Acre-feet Data</b>				
<b>Year</b>	<b>Mineral Mountain Well #1</b>	<b>Golf Course Well #5</b>	<b>Granite Peak Well</b>	<b>Total</b>
2021	512.42	0	0	512.42
2020	572.15	0	0	572.15
2019	467.94	0.39	NA	468.33
2018	463.58	0.58	NA	464.16
2017	444.83	0.21	NA	445.04
2016	470.44	0	NA	470.44
2015	521.35	0	NA	521.35
2014	480.66	0	NA	480.66
2013	451.53	0	NA	451.53
2012	480.76	0	NA	480.76
2011	524.13	0	NA	524.13
2010	451.66	0	NA	451.66
2009	507.73	0	NA	507.73
2008	516.49	0	NA	516.49
2007	510.24	0	NA	510.24
2006	456.13	0	NA	456.13
2005	386.48	43.94	NA	430.42

**3.2.2 Existing Culinary Distribution System**

The Milford City distribution system has been analyzed for compliance with the State of Utah Rules Governing Public Drinking Water Systems (Rules). The analysis was performed based on a review of the existing system’s physical attributes, along with the outputs from the hydraulic model created for the Milford City system. It is noted that the distribution system is supplied from two existing concrete storage tanks with a combined capacity of approximately 2,500,000 gallons. The storage tanks supply a newly constructed booster station at the discharge side of the tanks to boost pressures and flows throughout the system.

The culinary water system has been hydraulically modeled using the H2O Net hydraulic modeling software. The intent of the water model is to analyze the current system pressures and flow capacity under average day and peak day demand scenarios. The current pressures in the Milford City water system range from approximately 60 psi up to approximately 95 psi at the end of the system. The pressures under peak instantaneous demands range from approximately 47 psi up to approximately 78 psi at the end of the system. The projected available fire flow in the system under peak day demands is generally at or above 1,500 gpm.

**3.2.3 Milford City Secondary Sources**

The secondary water system is supplied by two wells known as the Golf Course well and the Fire House well. As previously stated, the Golf Course well is rated at about 1200 gpm and the Fire House well is rated for about 400 gpm.



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The total secondary source capacity is therefore 1600 gpm or about 2582 AF of water per year.

Historical Source Data is shown below in table 3.3. It should be noted that no data was reported before the year 2016.

**Table 3.2: Historical Secondary Source Water in Acre-feet**

<b>Historical Secondary Source Water in Acre-feet Data</b>			
<b>Year</b>	<b>Golf Course Well #5</b>	<b>Fire House Well #3</b>	<b>Total</b>
2021	122.99	124.84	247.83
2020	213.01	55.24	268.25
2019	NA	163.59	163.59
2018	NA	202.15	202.15
2017	NA	200.64	200.64
2016	NA	206.35	206.35

### 3.2.4 Existing Secondary Distribution System

The secondary distribution system runs from the wells to the City parks, cemetery, golf course, and the schools.

## 4.0 CURRENT AND FUTURE WATER USE

### 4.1 Projected Growth Rates

The average annual growth rate for Milford City from 1990 through 2020 was 0.82%. With the continued economic and industrial development in and around Milford City, it is reasonable to assume that the City will grow at or near this proven historic growth rate. As such, a projected average annual growth rate of 1.00% will be used for the purposes of this Water Conservation Plan through the 20-year planning period beginning in 2022 and extending through 2042.

Table 4.1 shows the projected population for Milford City using an annual growth rate of 1.00%.

**Table 4.1: Projected Milford City Population**

<b>Year</b>	<b>Projected Population</b>
2022	1431
2027	1504
2032	1581
2037	1662
2042	1747



**4.2 Equivalent Residential Connections (ERC's)**

One ERC is defined as the amount of culinary water required by an average residential connection. According to the Utah Division of Drinking Water, the average indoor residential demand is 400 gpd per residential connection, or approximately 12,000 gal/month. Because an ERC relates to the amount of water required for the average residential connection, use of this term allows commercial, institutional, or other large water users to be equated to a residential connection. ERC's are factored into calculations for impact fees, user rates, and other analyses as required for design purposes.

A review of all commercial, industrial, and hospital & school connections currently on the system was performed to determine the ERC value to assign to each type of connection. Based on these records, it appears that the average indoor usage among the current commercial connections is approximately twice the usage of a typical residential connection and will therefore be assigned an ERC value of two per connection. The average indoor usage among the industrial connections is approximately two and a half times the usage of a residential connection, and as such will justify an ERC value of two and a half per connection for industrial connections. The average indoor usage among the hospital and school facilities is approximately twice the usage of a typical residential connection. However, since there are twenty actual connections, an ERC value of three will be used in order to represent a minimum of one ERC per actual hospital and school connection.

Table 4.2 shows the number of connections for each usage category along with its associated ERC value.

**Table 4.2: ERC Equivalents per Connection Category**

<b>Current ERC's</b>			
<b>Category</b>	<b>Connections</b>	<b>ERC/Connection</b>	<b>Total ERC's</b>
<b>Residential</b>	592	1	592
<b>Commercial</b>	67	2	134
<b>Industrial</b>	4	2.5	10
<b>Institutional</b>	20	3	60
<b>Total</b>			<b>796</b>

The number of culinary water ERC's expected at the end of the planning period can be calculated using the compound interest formula and inserting the projected growth rate, the existing number of culinary water ERC's, and the 20-year planning periods for the culinary water system.

The projected number of ERC's for the 20 year planning period is calculated as follows:  $F = \text{Connections} \times (1 + \text{rate})^{20 \text{ years}}$  where F is the projected number of connections and the rate of growth is 1.00% per year.

$$\text{Total ERC's: } F = 592 \text{ ERC's} \times (1 + 0.01)^{20} = 722 \text{ ERC's}$$

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The projected number of ERC's for each category is shown in Table 4.3.

**Table 4.3: Projected ERC's by Category**

<b>20 Year Projected ERC's</b>			
<b>Category</b>	<b>Connections</b>	<b>ERC/Connection</b>	<b>Total ERC's</b>
Residential	722	1	722
Commercial	82	2	164
Industrial	5	2.5	12
Institutional	24	3	72
<b>Total</b>			<b>970</b>

**4.3 Present Water Use and Future Water Needs**

As noted previously, all culinary water connections on the Milford City water system will be metered with newly installed radio read meters by the end of 2022.

The billing summary for April 2021 to April 2022 indicates a total of 164,407,670 gallons were metered during this period. The usage is summarized by connection type in Table 4.4 below.

**Table 4.4: Annual Estimated Usage**

<b>Milford City Culinary Water Usage (April 2021 - April 2022)</b>					
	<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>	<b>Institutional</b>	<b>Total</b>
Annual Metered Usage (gal)	123,855,870	15,060,750	19,205,000	6,286,050	164,407,670
Annual Usage (ac-ft)	380	46	59	19	505
Avg Daily Use (gal)	339,331	41,262	52,616	17,222	450,432
Avg Dail Use Per Capita (gal)	237	N/A	N/A	N/A	N/A

It should be noted that most of the culinary connections in Milford City use culinary water for outdoor watering. The average daily use per residential connection is 573 gpd, and the average residential per capita use is 237 gpcd. The overall average daily use per ERC for the system (total usage divided by total ERC's) is 566 gpd.

As stated before, secondary water is used in the City parks, cemetery, golf course, and the schools. A combined average of 239,478 gpd are used. The overall average daily use per ERC (total usage divided by total ERC's) for the secondary system is 301 gpd.

As part of the Milford City Culinary Water Master Plan 2016, Sunrise Engineering calculated the current required amount of water rights for the Milford City water system based on the requirements stated in the Sunrise Engineering, Inc.

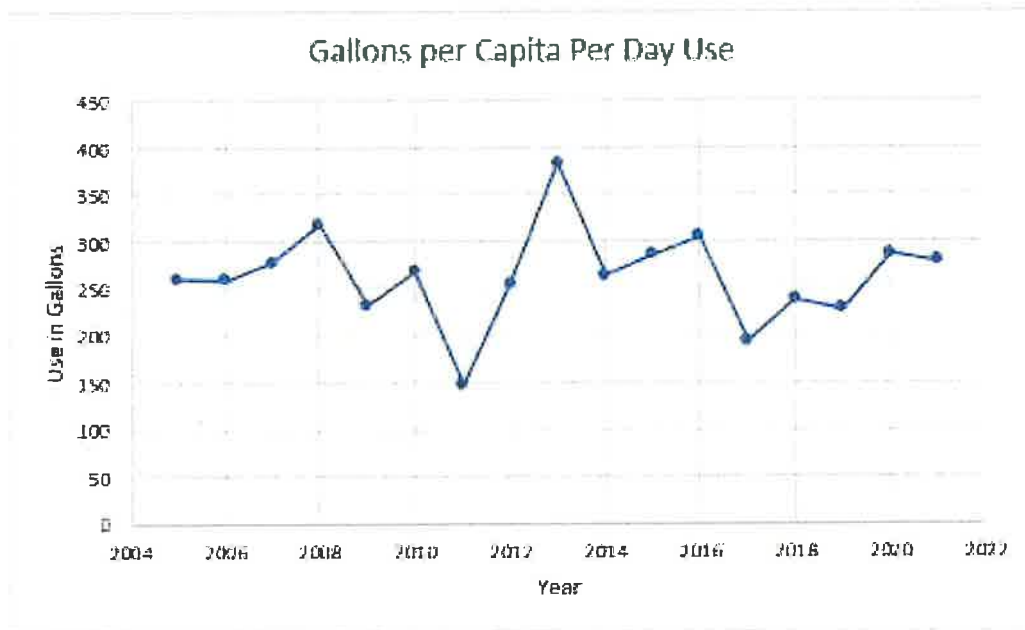
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Rules. The required water rights represent the average annual demand on the system using the States recommended quantities for indoor use (400 gal/ERC/day) and outdoor use (1.87 ac-ft/irrigated acre). The calculated water right requirement is 713 ac-ft, or approximately 232,331,763 gal/year. Milford City is using approximately 67,904,093 gallons less than the estimated average annual demand using the State's values for indoor and outdoor usage.

The projected number of ERC's at the end of the 20-year study period is 970. If the average daily water usage per ERC remains the same at 566 gal/ERC/day, the total system water usage in 20 years will be about 615 ac-ft or 200,324,410 gal/year. In comparison, the 20-year projected annual system water demand using the State's estimated values for indoor and outdoor water use would be 956 ac-ft, or 311,469,528 gal/year.

Figure 4.5 below shows the number of gallons used per capita per day for the last 15 years. On average water usage in Milford has been approximately 200-300 gpcd.

**Figure 4.5: Water Efficiency Progress**



### 4.4 Water Budget

Milford City's culinary water system is currently supplied by two wells, the Mineral Mountain Well and the Granite Peak well. The wells are equipped for a combined discharge of 1900 gpm. The City's current culinary water rights total 3,434.64 ac-ft. As noted in Section 4.3, the total estimated annual culinary water usage for the period of April 2021 to April 2022 was 505 ac-ft. It should be noted that this usage only represents the metered water in the culinary water system and does not include the irrigation water that is used to irrigate the City parks, cemetery, golf course, and schools.

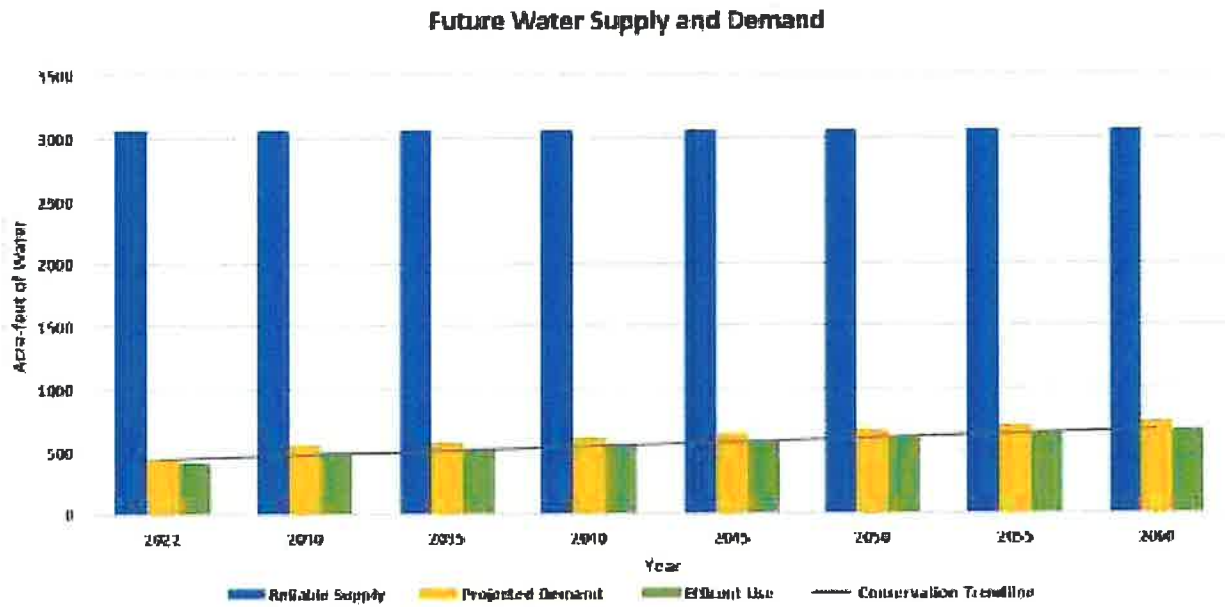
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As calculated in the Milford City Culinary Water System Master Plan 2016, the 20-year projected required water right for Milford City is 956 ac-ft. Milford City has sufficient municipal water rights to satisfy the projected system requirement.

**4.5 Future Water Supply and Demand**

Milford City’s current culinary water supply and demand in ac-ft are shown in Figure 4.6.

**Figure 4.6: Milford City Future Water Supply and Demand**



**4.6 Culinary Water Rate Structure**

Milford City’s current culinary water rate structure is shown in Table 4.6.

**Table 4.6: Milford City Culinary Water Rate Structure**

Type of Service	Base Rate	Tier 1 Lower Limit	Tier 1 Cost Per Thousand
Residential	\$50.00	10,000	\$1.50
Commercial	\$54.00	10,000	\$3.50
Hospital/School	\$217.00	60,000	\$3.50
Industrial	\$258.00	40,000	\$4.00
Bulk Rate	\$35.00	1,000	\$7.50

## **5.0 CURRENT CONSERVATION PRACTICES**

### **5.1 Public Education and Outreach**

A major factor in conserving water within a community is to educate residents about ongoing water issues. Milford sends a newsletter to each resident to encourage wise use of water. Milford promotes conservation ideas and informs the public of techniques and ideas that are easy and can effectively be put into practice. Examples of these techniques include sweeping sidewalks and driveways with a broom instead of spraying with a hose, using mulch around trees and shrubs as well as garden areas to retain moisture, and avoid watering during the heat of the day. Other water reducing measures that have been mentioned in past newsletters include not letting the water run continuously, making sure to run full loads of laundry or dishes, and shorting shower times.

### **5.2 Radio Read Meters**

Milford is currently installing radio read meters on all culinary water connections. The meter network monitors usage over time and can alert the city of potential water leaks based on changes in flow patterns over time. The meter network allows staff to identify problems before significant amounts of water are used or lost and damage to property occurs. The meters can monitor the distribution system giving accurate, timely water reads and information.

### **5.3 SCADA System**

Milford is also installing a system-wide SCADA network. This system provides advanced monitoring, reporting, and controlling capabilities for critical components of the water system. SCADA allows control of the system locally or remotely and gathers data in real-time. This upgrade to the water system will help provide more accurate monitoring and reporting of water usage throughout the system.

## **6.0 WATER CONSERVATION GOALS AND SOLUTIONS**

### **6.1 Conservation Goals and Solutions**

Milford City's current average residential water usage is 237 gpcd. According to the presentation titled "Water Resources Plan" dated December 2021 and prepared by the Utah Division of Water Resources, the statewide average per capita culinary water usage from 2015 to 2019 is approximately 238 gpcd. Milford City's per capita residential culinary water usage is in line with state averages. It is again noted that all of Milford City's culinary water connections, with the exception of the parks, cemetery, golf course, and schools, use culinary water for outdoor irrigation.

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Milford City also recognizes the importance of conserving its limited water resources and acknowledges the growth that may be experienced in the near future will place a higher demand on the water that is currently available. Milford City also recognizes that the State of Utah Division of Water Resources has established a goal to reduce per capita water usage in the Lower Colorado River North region by 18.7% between the years 2015 and 2030. Although significant progress has been made towards this goal, additional efforts are required to achieve it in the desired time frame. As such, Milford City will make efforts to reduce its per ERC water usage by 20% by the year 2050. A 20% reduction in the per ERC water usage by the year 2050 would equate to an annual water savings of 43,404,559 gallons/year, or about 133 ac-ft.

In order to meet this goal, Milford City will implement the following measures:

1. Maintain a financially stable water system with conservation in mind. Continue to monitor and track the rates charged to ensure that the City's system is operated responsibly. As rate increases are required, overage tiers that penalize excessive use will be targeted first, rather than simple base rate increases.
2. Monitor use patterns to detect leaks. With the newly-installed radio-read meters, Milford City will increase efforts to monitor water meters on a regular basis. This will improve the chances of finding leaks sooner after they occur.
3. Continue the public education program. Milford City will support state and local water education programs in local schools. It is expected that as time passes young adult citizens that have been introduced to statewide "Slow the Flow" advertising during their youth will be more aware of the need to conserve water, and act accordingly. Milford City will also continue to send periodic public education flyers to the general public. It is believed that if people are continuously exposed to water conservation messages, they will improve their water conservation habits.
4. Adopt resolutions that prohibit general waste of water and set time of day watering restrictions. General waste of water is any practice that allows the water to run in one place over an extended period of time. Use of culinary water for irrigation during the hottest parts of the day would be restricted during hours determined by the City Council.
5. Establish emergency water conservation contingency plans. The water conservation contingency plan for implementation due to severe drought or other system supply shortages is outlined in section 7.0 below
6. Encourage the use of high efficiency fixtures and watering. Milford City will encourage the installation of water efficient fixtures in homes and low water use landscaping in yards for both new construction and retrofit of existing structures. This, however, will not be required as the expense would be a hardship on individual households and the City could not afford to subsidize them.



Milford City realizes that effective goals must be measurable. While the effectiveness of the measures listed above would be difficult to measure on an individual basis, Milford City recognizes that the combined effectiveness of the measures can be assessed by comparing overall system usage data, and per capita usage data on an annual basis. Milford City will therefore review the usage data on an annual basis to determine if progress is being made toward the water conservation goal previously discussed.

## **6.2 Reflection on Past Water Conservation Goals**

In the Milford City Water Management and Conservation Plan revised in April 2016, the following water conservation measures were identified:

- Invest and install a water system improvement project
- Meter all connections to the culinary water system
- Maintain a pricing structure with overage rates
- Perform public education in the form of a soil conservation program administered by the county agricultural agent and sending conservation information to residents on a yearly basis.
- Limit watering of lawns, shrubs and flowers to a specified amount of inches per week
- Construct sprinkler systems that do not waste to streets, walks or parking areas
- Utilize sprinkler control systems to allow sprinkling other than in the heat of the day
- Not allowing water to run to waste in gutters
- Using drought resistant grasses and other vegetation, and encouraging shade trees in yards
- Control all leaking faucets and other plumbing leaks
- Utilize soil preparation for yards to hold water longer at the root level

As has been noted previously, all connections continue to be metered, and the overage use pricing structure has been enforced consistently since 2019. The soil conservation program is not currently being presented in the schools by the county agricultural agent. Milford City does not currently intend to pursue a continuation of this program, as it feels that conservation will be more effectively achieved through the other current conservation goals listed in Section 6.1. As indicated in Item 3 of Section 6.1, the City does intend to continue sending conservation flyers to the residents on an annual basis in order to encourage indoor and outdoor water conservation.

The City has recognized that it is neither practical nor desired at this time to attempt to implement the level of oversight and support that would be required to manage a program that would monitor the specific amount of water being applied to residents' lawns and gardens. This measure will therefore be removed from the plan. Similarly, the City Council does not currently feel that it is in the City's best interest to require specific vegetation to be planted, or specific sprinkler control systems to be used on the residents' property, although the City will continue to encourage efficient vegetation and irrigation systems through the public



education efforts. While the City will continue to encourage residents to repair leaks within their homes and properties, the City also acknowledges that it does not currently have the resources to detect and repair all leaks within the residents' properties and will therefore remove this measure from the plan.

The City will amend the measure which does not allow water to run to waste in gutters by adopting the new measure listed in Section 6.1, which prohibits the general waste of water, to include allowing water to run to waste in gutters. The City Council and the City Staff will be responsible for responding to reports of general waste of water.

### **6.3 Education Program Information**

The following information on efficient outdoor and indoor water use will be disseminated periodically as a one-page conservation mailing (also included in Appendix A).

#### *Efficient Outdoor Water Use:*

- Water landscape only as much as required by the type of landscape, and the specific weather patterns of your area, including cutting back on watering times in the spring and fall.
- Do not water on hot, sunny, and/or windy days. You may actually end up doing more harm than good to your landscape, as well as wasting a significant amount of water.
- Sweep sidewalks and driveways instead of using the hose to clean them off.
- Wash your car from a bucket of soapy (biodegradable) water and rinse while parked on or near the grass or landscape so that all the water running off goes to beneficial use instead of running down the gutter to waste.
- Check for and repair leaks in all pipes, hoses, faucets, couplings, valves, etc. Verify there are no leaks by turning everything off and checking your water meter to see if it is still running. Some underground leaks may not be visible due to draining off into storm drains, ditches, or traveling outside your property.
- Use mulch around trees and shrubs, as well as in your garden to retain as much moisture as possible. Areas with drip systems will use much less water, particularly during hot, dry and windy conditions.
- Keep your lawn well-trimmed and all other landscaped areas free of weeds to reduce overall water needs of your yard.

*Efficient Indoor Water Use:*

- Approximately two-thirds of the total water used in a household is used in the bathroom. Concentrate on reducing your bathroom water use. Following are suggestions for this specific area:
  - Do not use your toilet as a wastebasket. Put all tissues, wrappers, diapers, cigarette butts, etc. in the trashcan.
  - Check the toilet for leaks. Is the water level too high? Put a few drops of food coloring in the tank. If the bowl water becomes colored without flushing, there is a leak.
  - If you do not have a low volume flush toilet, put a plastic bottle full of sand and water to reduce the amount of water used per flush. However, be careful not to over conserve to the point of having to flush twice to make the toilet work. Also, be sure the containers used do not interfere with the flushing mechanism.

**7.0 CULINARY WATER CONSERVATION CONTINGENCY PLAN**

The following water conservation contingency plan is adopted as part of this plan:

**Level 1 – Normal Years** – In this condition there is currently plenty of culinary water available for normal purposes.

- Encourage voluntary public water conservation measures (i.e. only watering during the cooler parts of the day).
- Mail information on conservation measures, which can be used outside as well as inside.

**Level 2 - 75% of Normal Required Supply** – In this condition, it is difficult to keep the water tanks full during the daylight hours if people are using culinary water for outdoor purposes.

- Educate the public about the water supply shortage and request cooperation using local public service radio announcements and local newspapers and posted public flyers.
- Enact emergency rate increase to double all overage tiers.
- Enact mandatory public conservation measures.
- Enforce outside watering restrictions, including watering times and quantities.

**Level 3 - 50% or Less of Normal Required Supply** – In this condition, it is difficult to maintain tank levels during the full 24-hour day.

- Warn the public about water supply shortage and request continued cooperation using local newspapers advertisements and posted public flyers.

- Enact emergency rate increase to quadruple all overage tiers.
- Strictly enforce all conservation policies with stiff fines for non-compliance.
- Physically restrict water supplies to (in order of priority):
  1. All outside irrigation systems.
  2. Parks and other non-essential support facilities.
  3. Commercial users, restricting the largest, non-animal life support users first.
  4. Residential areas
  5. Commercial animal life support users.
  6. Any other non-life support areas, ensuring water supplies to hospitals, hospices, and all other health care facilities, and controlled designated area water facilities.

## **8.0 IMPLEMENTING AND UPDATING THE WATER CONSERVATION PLAN**

This Water Conservation Plan shall be adopted by the Milford City Council. The Milford City Council will have responsibility to coordinate the water conservation program goals for Milford City and coordinate the education program. All council members, City staff, and members of the general public have the duty and responsibility to report general waste of water, and to conserve water wherever possible.

This Water Conservation Plan will be revised and updated as required to meet changing conditions and needs. The resolution for amending the Water Conservation Plan is attached as Appendix A.

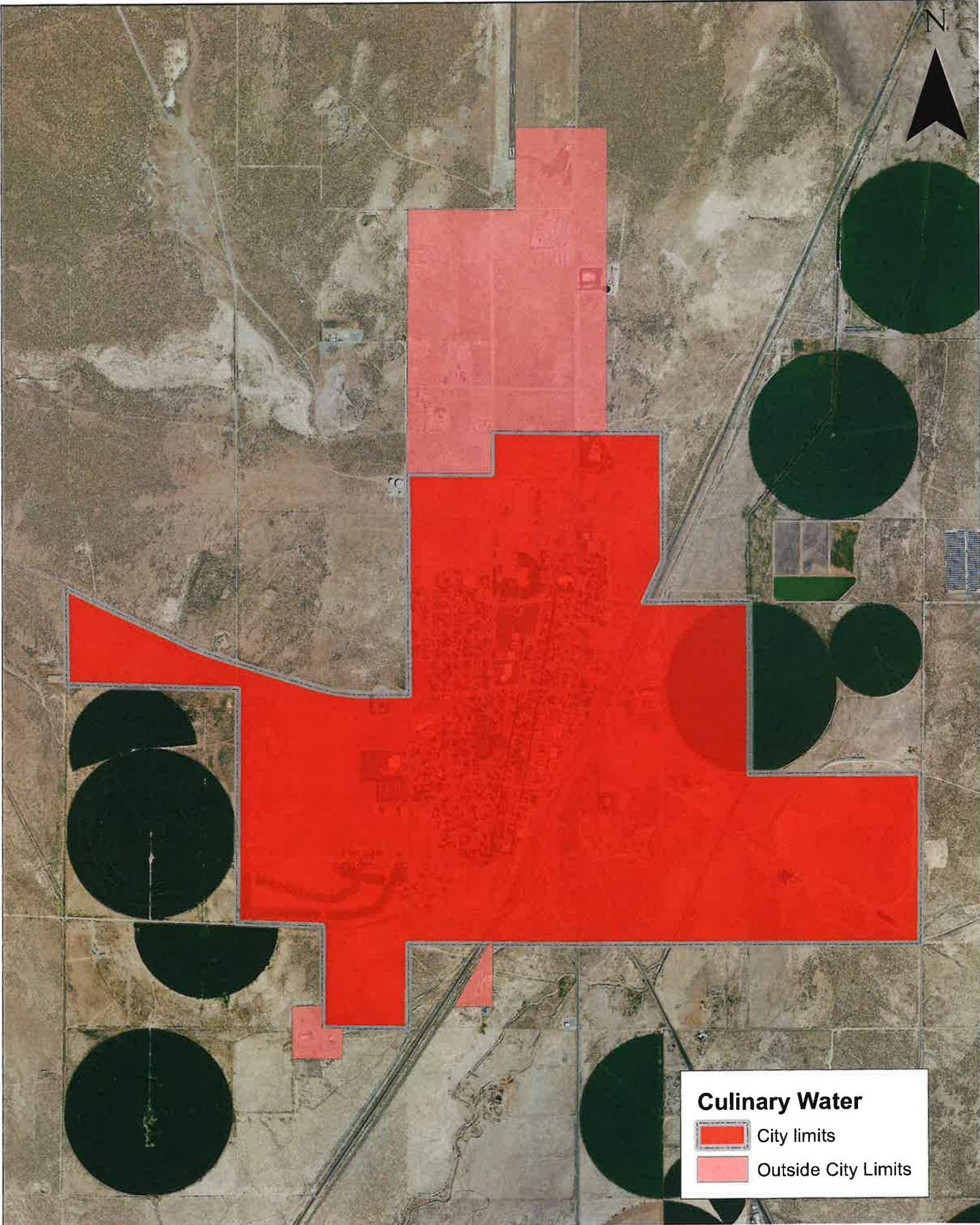
# EXHIBIT 1:

## *CULINARY WATER SYSTEM SERVICE AREA MAP*

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# Milford City Culinary Service Area



## APPENDIX A:

### *WATER CONSERVATION PLAN RESOLUTION*

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MILFORD CITY, A Municipal Corporation

**RESOLUTION NO. 14-2022**

**A RESOLUTION OF THE CITY COUNCIL OF MILFORD CITY, UT, AMENDING THE MILFORD CITY WATER MANAGEMENT AND CONSERVATION PROGRAM PLAN, RELATING TO GENERAL LAND USE PLANNING.**

**Preamble**

In order to provide for the health, safety and general welfare of the citizens of Milford, Utah, the City Council is committed to establish a water conservation program plan which will specify goals, relating to water management and conservation practices which the residents of Milford hope to achieve during the next twenty years and policies which will facilitate those goals.

**WHEREAS**, the governing body of Milford City desires to amend the April 2016 plan to be known as the Water Management and Conservation Program Plan 2022 of Milford City, Utah; and

**WHEREAS**, the City Council is authorized to amend this plan.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of Milford City, Utah, as follows:

Section 1. Adoption of the Water Management and Conservation Program Plan 2022. The Water Management and Conservation Program Plan attached is hereby amended as the Water Management and Conservation Program Plan 2022 of the City of Milford.

Section 3. This resolution shall take effect immediately on passage.

Passed by the City Council of Milford, Utah this 20 day of September, 2022 by the following vote:

Ayes:

[Signature]  
[Signature]  
[Signature]  
[Signature]  
[Signature]

Nays:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Absent:

\_\_\_\_\_  
\_\_\_\_\_

Milford City

By:

[Signature]  
Nolan Davis, Mayor

Attest:

[Signature]  
Monica D. Seifers, City Recorder





**Mayor**  
Nolan Davis

**City Administrator**  
Makayla Bealer

**City Council**  
Russell Smith  
Ian Spaulding  
Scott Symond  
Les Whitney  
Terry Wiseman

## NOTICE AND AGENDA

PUBLIC NOTICE IS HEREBY GIVEN that the City Council of Milford, Utah will hold a meeting at **4:00 PM** at the **Milford City Administrative Office, Council Chambers, 26 South 100 West, Milford, Utah** for the purposes described below on **Tuesday, September 20, 2022**.

1. **MAYOR'S WELCOME & CALL TO ORDER:** Roll Call & Pledge of Allegiance
2. **VISITORS**
  - a. Paul Beaver-Request for exemption on asphalt on 100 North
  - b. Pete Brown – Update on Main Street Bar and game center renovation
3. **CONSENT ISSUES**
  - a. Financial report: August 2022
  - b. Approval of bills and payroll
  - c. Approval of Minutes: August 16, 2022 Regular Meeting
4. **NEW BUSINESS**
  - a. Approval of Apron and Taxiway Turnaround Pavement Maintenance Grant Agreement with Utah Department of Trans Aero Operations Division
  - b. Beaver County Children's Justice Center update
  - c. Beaver County Travel Council Members
  - d. Sanitation Survey update
5. **OLD BUSINESS**
  - a. Senior Citizen Center AC unit discussion and action
  - b. Culinary Water Project update
  - c. 150<sup>th</sup> Birthday Celebration/Historical Park update
6. **ORDINANCE AND RESOLUTIONS**
  - a. Resolution 14-2022 "Adopting the 2022 Water Conservation Plan"
7. **COMMENTS**
  - a. Staff member reports and comments
  - b. Councilmember reports and comments
8. **ADJOURNMENT**

*Notice: The City Council may adjourn to Executive Session pursuant to the provisions of §52-4-204 and §52-4-205, Utah Code Annotated (1953), as amended.*

### **CERTIFICATE OF DELIVERY & POSTING**

I, Monica D. Seifers, duly appointed and acting City Recorder do hereby certify that the above Notice and Agenda was posted in three public places within the Milford City Limits on this 15<sup>th</sup> day of September, 2022. These public places being 1) Milford City Office; 2) U.S. Post Office; and 3) Milford Public Library. The foregoing Notice and Agenda was also delivered to each member of the governing body and posted on [www.utah.gov/pmn](http://www.utah.gov/pmn) and linked to [www.milfordcityutah.com](http://www.milfordcityutah.com) and the Milford City Facebook page.

*In compliance with the Americans with Disabilities Act, the City of Milford will make efforts to provide reasonable accommodations to disabled members of the public in accessing City programs. Request for assistance can be made by contacting the City Recorder at 435.387.2711 at least 24 hours in advance of the meeting to be held.  
\*\*City Council Members or the Mayor may participate in the public meeting electronically and/or telephonically.*

*DRAFT*  
**Milford City Council Meeting**  
**Tuesday, September 20, 2022, 4:00 PM**  
**Milford City Hall, 26 South 100 West**  
**Milford, Utah 84751**

**Members Present:** Mayor Nolan Davis, Council Members Russell Smith, Ian Spaulding, Scott Symond, Les Whitney, and Terry Wiseman

**Staff:** City Administrator Makayla Bealer, City Recorder Monica Seifers, Attorney Leo Kanell, and Foreman Benjamin Stewart

**Absent:** Administrative Assistant Lisa Thompson.

**Visitors (Official Roster):**

Paul Beaver, Patty Young, Pete Brown, Melanie Brown

**Call to Order**

Mayor Davis called the meeting to order at 4:00 p.m. followed by the Pledge of Allegiance.

**Visitors**

**a. Paul Beaver – Request for exemption on asphalt on 100 North**

Mr. Beaver understood that there was an ordinance that would be considered. He found that 400 linear feet by 20 feet wide was his requirement on asphalt and he is concerned with the price of asphalt being high. Mayor Davis explained that the Planning Commission was working on an ordinance that would help alleviate his concerns and asked Mr. Beaver to wait for the ordinance to be passed.

Paul and Patty left the meeting at 4:03 PM

**b. Pete Brown – Update on Main Street Bar and game center renovation**

Updated on the properties he has recently purchased which include the Horn Silver Hotel, Dolly's Floral, the salon, and the bar. He has met many of the locals and had the opportunity to return/gift many items from the building (Horn Silver). They have been removing a lot of material from the building. He has it posted for people visiting the building that it is a construction zone advising for caution. He has contracted with Delta Fire Systems to draw a full set of plans to be used for renovation and permit obtaining. He is hoping to have all required permits obtained soon to enable work through the winter. He asked the council if they had any questions or concerns relating to the project. Council Member Whitney commended Mr. Brown on his efforts so far. Council Member Spaulding asked what all the project entailed. Mr. Brown explained that at some point in the past the hotel was divided. They are cleaning out the debris and anything that is dangerous currently but no renovation or construction will happen until phase 2. Phase 1 will be geared toward opening a game center for youth, this will be located where the flower shop was. The salon/dance studio will be converted into stairs that will access the office area which used to be part of the hotel. They are hoping to get nine office spaces to be utilized by local businesses or individuals. Two offices will be combined for a conference area complete with audio and video equipment. The Derailed Bar will be renovated to rebrand and update the atmosphere and bring a new image to the business which would offer pool, skee-ball, foosball, air hockey, darts, etc. as well a dance floor expansion that would allow entertainment such as live music, comedy shows, entertainment. There will be 6-8 large screen

48 multi-media systems installed that would stream sports events. A walk-in cooler has been purchased  
49 that would allow them to offer 10-15 draft beers on tap as well as wine options. They will also have  
50 non-alcoholic drinks including a specialized root beer. They are hoping to remarket the area to have  
51 a nicer atmosphere and less of a bar feeling. Mr. Brown is working with someone to restore the Horn  
52 Silver Sign for historical value. He would also like to have more visibility and a welcoming atmosphere  
53 along Main Street. City Administrator Bealer inquired about the beer license. Mr. Brown explained  
54 that they are currently in the process of transferring those licenses from the previous owner.

55  
56 Mr. Brown will have preliminary plans for the zoning commission meeting next month.

57  
58 Paul left at 4:23 PM

59  
60 **Consent Issues**

61 **a. Consent issues including bills and payroll, Financial Report August 2022, and minutes of August 16,**  
62 **2022 regular meeting were presented.**

63  
64 ➤ **MOTION:** *Council Member Scott Symond moved to approve the consent issues as presented. The*  
65 *motion was seconded by Council Member Russell Smith. All were in favor, and the motion carried.*

66  
67 **New Business**

68 **a. Approval of Apron and Taxiway Turnaround Pavement Maintenance Grant Agreement with Utah**  
69 **Department of Trans Aero Operations Division**

70 Straight Stripe is not ready to start the project, they will give us a start date later this week. We can  
71 authorize the grant agreement today.

72 ➤ **MOTION:** *Council Member Les Whitney moved to authorize Mayor Davis, City Recorder Seifers,*  
73 *and Attorney Kanell to sign the grant agreement. The motion was seconded by Council Member*  
74 *Terry Wiseman. All were in favor, and the motion carried.*

75  
76 **b. Beaver County Children’s Justice Center update**

77 Maine Cox requested this be placed on the agenda and that we announce the Beaver County Children’s  
78 Justice Center is independent of the Iron County Justice Center. Attorney Kanell updated that the grant  
79 for the justice center goes through Iron County and covers Beaver, Garfield, and Kane counties. The Iron  
80 County center’s director has resigned. The commissioners are concerned that they are paying the bills  
81 for the Beaver and Garfield centers, but the money came from a grant. Beaver’s center will become an  
82 independent branch with Garfield coming under the Beaver branch. This is just an informational update.

83  
84 **c. Beaver County Travel Council Members**

85 Beaver County will be accepting applications for Travel Council Members. Administrator Bealer has asked  
86 Stephanie Laws to notify our office so the residents of Milford will have the information for applying.

87  
88 **d. Sanitation survey update**

89 A sanitary survey is completed by the state every three years with Milford City’s held last week. We had  
90 good feedback; the city crew and Sunrise Engineering should be commended. We have one item that  
91 needs to be corrected and it is tied to the construction during our water project. When we drained the  
92 tanks on Baldy Hill, there is an outflow pipe that had a mesh screen that was cut and needs to be repaired.  
93 Foreman Stewart is working on getting a new mesh screen. The inspector stated that our city was his  
94 best inspection this year and commended everyone involved. Mayor Davis thanked Foreman Stewart  
95 and asked him to pass their appreciation on to the crew.

97 **Old Business**

98 **a. Senior Citizen Center AC unit discussion and action**

99 Administrator Bealer reported that the AC unit has crashed again since the last meeting. It was  
100 determined that the unit also provides heat during the winter so the urgency of correction is high.  
101 \$11,385.31 is the cost to replace. Charron will be installing the unit as soon as it arrives. Mayor Davis  
102 inquired about the kitchen unit. Makayla explained that the kitchen unit (portable) was put in a few years  
103 ago and will continue to serve that area. Mayor Davis inquired because if they are continuing to have  
104 issues with cooling the kitchen area, he would like to find out if ductwork could be installed off the new  
105 unit into the kitchen in the future. Makayla will reach out to Charron and find out.

106

107 **b. Culinary Water Project update**

108 Terry Brotherson will be back the second week of October to finish the meter and fire hydrant  
109 installations and tie up punch list items on the project. Still waiting on the column pipe for the Mineral  
110 Mountain Well to be delivered; Gardner Brothers arrived last week and began brushing and bailing the  
111 well. Foreman Stewart explained that the brush and bailing was completed yesterday. The engineer told  
112 Ben this morning that they brought up quite a bit of sand. Looking at the records for that well, it is pretty  
113 course gravel pack and that might be expected. They want to have it re-camera'd to make sure there  
114 was no damage to the screens and to see where the gravel was coming in at. They will be here Friday or  
115 Monday, should know more then. Council Member Whitney asked if hard surfacing was included in the  
116 work the contractor would be taking care of. Administrator Bealer reported that there was concrete and  
117 asphalt that did not get completed and will be done at this time.

118

119 **c. Milford City 150<sup>th</sup> Birthday Celebration/Historical Park update**

120 The committee has continued working on the historical park and it is really coming together. The  
121 monuments look amazing following their rehabilitation. The city will need to maintain the monuments  
122 moving forward. The company is suggesting \$500 every other year to maintain the monuments moving  
123 forward. Makayla has added this to the budget scheduling them to return next year prior to the  
124 celebration and then will rotate each year thereafter. Rollins Construction donated decorative rock as  
125 well as the delivery, the crew moved it yesterday. Martin Marietta donated the road base and Justin and  
126 Kara Finch donated labor and equipment to deliver the road base. Adrien Jones also donated labor. The  
127 committee is hosting a work party tonight.

128

129 The celebration committee is still planning and fundraising. There was a Jail-N-Bail conducted during  
130 Homecoming week at the high school that was enjoyed by everyone involved. Council Member Symond  
131 added that the Travel Council was complimentary of how Milford's application for funding was  
132 presented.

133

134 **Resolution 14-2022 "Adopting 2022 Water Conservation Plan"**

135 Sunrise Engineering has been hired to assist the city with preparing the plan.

136 ➤ **MOTION:** Council Member Scott Symond moved to adopt 14-2022 "Adopting 2022 Water  
137 Conservation Plan". The motion was seconded by Council Member Les Whitney. Roll call votes:  
138 Council Member Russell Smith – yes, Ian Spaulding – yes, Les Whitney – yes, Terry Wiseman – yes,  
139 and Scott Symond - yes. The motion carried.

140

141 **Staff and Council Reports**

142 **Makayla Bealer ~ City Administrator**

143 ➤ Met with the airport engineer regarding improvements to the airport office and restrooms. There  
144 is grant money available through UDOT. She has applied and will report back. The feedback from  
145 pilots is that a lounge is needed.

146 ➤ Karen Nelson has inquired about closing 500 West on the north side of Center Street for  
147 Halloween. Administrator asked the council for approval. Mayor Davis wanted more discussion  
148 to ensure there is a traffic plan and affect it will have on the neighborhood. Council Member  
149 Spaulding asked if they could estimate how many car spots would be available. Makayla  
150 explained that a plan would need to be made, they were simply wanting to know if the council  
151 would entertain the idea of closing the street down before they worked out the details. Mayor  
152 Davis was in support of the idea but wanted them to consider closing the block of 400 West as  
153 well to accommodate traffic. Council Member Whitney was also in support of it but had a concern  
154 of emergency response if he was called out on an emergency.  
155

156 **Council Member Ian Spaulding**

157 ➤ Thanked the city staff, crew, and pool employees for making the pool season work. The MHS  
158 shop teacher is wondering if the city would like additional shades made for the pool. The  
159 consensus was to approve the fabrication of more shades for the swimming pool.  
160 ➤ A huge thanks to the citizens for the service projects that are taking place in the community. He  
161 also wanted to recognize the volunteer work that goes into the golf course and recreation  
162 complex. He appreciates those who contribute.  
163

164 **Council Member Scott Symond**

165 ➤ Collette Cox has reported that there are grants for beautification and main street renovations.  
166 He will update as he receives more information.  
167

168 **Meeting Adjournment** ~ *as there was no further business the meeting adjourned at 4:53 PM.*

169 ***THESE MINUTES ARE IN DRAFT FORM AND HAVE NOT BEEN APPROVED BY CITY COUNCIL – SUBJECT TO***  
170 ***CHANGE***