



State of Utah

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Department of  
Environmental Quality

Kimberly D. Shelley  
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DIVISION OF DRINKING WATER  
Nathan Lunstad, PhD, P.E.  
*Director*

August 28, 2024

Via Email: [agarland@mtregional.org](mailto:agarland@mtregional.org)  
Andy Garland  
Mountain Regional Water Special Service District  
P.O. Box 982320  
Park City, Utah 84098

Subject: **2024 System-Specific Minimum Sizing Standards—Final Determination**  
Mountain Regional Water Special Service District, System #22137, File #11517

Dear Andy Garland:

**DETERMINATIONS**

Based on the findings set forth below, the Division of Drinking Water (the Division) hereby establishes the following system-specific minimum sizing standards for Mountain Regional Water Special Service District (the System):

**Peak Day Source Demand (gallons/day/ERC) – 1,384**  
**Average Annual Demand (gallons/year/ERC) – 184,808**  
**Equalization Storage (gallons/ERC) – 506**  
**Fire Storage (gallons) – 2,842,000**

**Introduction**

Pursuant to Utah Code Section 19-4-114, the Director of the Division (Director) is required to establish system-specific minimum sizing standards based on, among other factors, water use data submitted to the Division of Water Rights (DWRi). The Director's determinations may also be based on engineering analyses and other evidence if this is available. This final determination letter is addressed to you in your capacity as the Administrative Contact for the System. The Director has delegated the responsibility for making system-specific minimum sizing standards under Utah Code Section 19-4-114 to the Engineering Manager for the Division.

Prior to issuing this final determination letter, the Division analyzed applicable DWRi water use data and sent a draft summary of the Division's proposed 2024 system-specific minimum sizing standards to the System on July 9, 2024. The System provided comments on July 30, 2024, and worked with the

Division and DWRi to update applicable data which was completed on August 26, 2024. The Division has taken these comments into account in reaching this final determination of the system-specific minimum sizing standards for the System. A summary of the water use data and calculations the Division used to make these determinations is attached as part of the administrative record.

### **Water Use Data Definitions**

As used in this Final Determination, the following terms have the following meanings:

*Peak Day Source Demand* is the total flow into a public water system to meet the demand of the water system on the day of the highest water consumption in a calendar year.

*Average Annual Demand* is the total quantity of drinking water flowing into a public water system within a calendar year.

*Total Equivalent Residential Connections (ERCs)* term represents the number of residential service connections and the number of equivalent residential connections for non-residential connections (commercial, industrial, institutional connections).

*Minimum Equalization Storage* requirement is a volume that is equivalent to the amount of water needed to meet the average day culinary demand for public water systems. Equalized storage per ERC is calculated by dividing the Average Annual Demand per ERC data by the number of operational days in a year.

### **Water System Background Facts**

Mountain Regional Water Special Service District is a community water system serving a population of approximately 9,500 and 6,783 ERCs.

### **System-Specific Minimum Sizing Standards—Background**

Under Utah Code Section 19-4-114, the legislature required that the Director establish minimum sizing standards on a system-specific basis instead of statewide, as the Division has done in the past. System-specific determinations need to be based on system-specific information. The code allows the Director to rely on water use data submitted to DWRi. Alternatively, a community water system may perform and submit an engineering study to the Division if the water system's water use data is not representative of future use or the water system does not yet have actual water use data. In this matter, actual water use data was available through DWRi, and an engineering study was not submitted to the Division for review. Therefore, the Division has relied upon DWRi information and other relevant data.

### **Additional System-Specific Basis for Determinations**

The Division established Fire Storage requirements based on information provided from the System on August 21, 2024.

The System requested the Division to use a variability factor for the Peak Day Demand of 20%.

### **Storage Capacity**

Based on the System's storage facilities and the storage minimum sizing requirement established in this letter, the Director hereby determines that the System is **compliant** with the minimum storage capacity requirements.

### **Source Capacity**

The Division has adequate documentation of the established safe yields for all wells, capacity of the Signal Hill Filter Plant and the maximum daily purchase rate from the consecutive connection with Summit Water Distribution Company. Using total system-wide source capacities and the source minimum sizing requirement established in this letter indicates that the System is **compliant** with minimum source capacity requirements.

### **Effective Date**

The determinations made in this letter are effective immediately and will become final 30 days from the date of this letter unless the System files a contest as provided below.

### **Notice of Right to Contest**

The Director has determined this determination made under Section 19-3-114 qualifies as a "permit order" within the meaning of Utah Code Section 19-1-301.5(1)(f). *See* Utah Code § 19-1-301.5(1)(e) (defining "permit" to include a "plan" or "other administrative authorization").

The System may contest any determinations made herein by delivering a notice of contest to the Director. The notice of contest must be in writing and must be delivered to the Director on or before 30 days after the date this letter is signed. There is no particular form for the notice of contest, but it must include the System's reasons and rationale for the contest. The Director's address for purposes of submitting a notice of contest is as follows:

#### U.S. Mail

Division of Drinking Water  
Attention: Director  
P.O. Box 144830  
Salt Lake City, UT 84114-4830

#### Email

A notice of contest may be submitted to the Director by email, provided, however, that the Director confirms receipt of the email. The Director's email address is: [nlunstad@utah.gov](mailto:nlunstad@utah.gov). The email submission must be received by the Director before the expiration of the contest deadline.

If the System files a timely notice of contest, the Director will evaluate the matter and attempt to resolve the matter through negotiations. If the Director is not able to resolve the matter, the Director

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will issue a final agency action regarding the contest. At that point in the process, the System shall have the right to seek further internal agency and judicial review pursuant to Utah Admin. Code R305-7 and Utah Code Section 19-1-301.5.

### **Right to Request Reconsideration**

The Director plans to evaluate the determinations made herein every three years. However, this requirement is not mandatory. At any time, a water system whose system-specific minimum sizing standards have been established by the Division under Section 19-4-114 may request reconsideration of the Director's determinations by submitting a written request. A request for reconsideration shall be submitted to the Director in the same manner as a notice of contest provided above.

### **Conclusion**

If the System management has any questions regarding this letter, please contact Julie Cobleigh, of this office, at (385) 214-9770, or me at (385) 515-1464.

Sincerely,



Michael Newberry, P.E.  
Permitting and Engineering Support Manager

JJC/mrn/mdb

#### Enclosures

1. Utah Department of Environmental Quality Division of Drinking Water Minimum Sizing Standards Summary Report

cc: Nathan Brooks, Summit County Health Department, nbrooks@summitcounty.org  
Andy Garland, Mountain Regional Water SSD, agarland@mtregional.org  
Sam Grenlie, P.E., Mountain Regional Water SSD, sam@mtregional.org  
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Hunter Payne, Division of Drinking Water, hnpayne@utah.gov  
Mike Owens, Park City Fire Department, mowens@pcfd.org  
Ted Black, Office of the State Fire Marshal, tblack@utah.gov

DDW-2024-010393



Utah Department of Environmental Quality  
Division of Drinking Water  
Minimum Sizing Standards

**MOUNTAIN REGIONAL WATER SSD**

**PWS ID: UTAH22137**

**Admin Name:** ANDY GARLAND  
**Address:** 6421 N Business Park Loop Rd Suite A  
**City, State, Zip:** Park City, UT 84098  
**Phone:** 435-940-1916  
**Email:** agarland@mtregional.org

**System Type:** Community  
**Population:** 9,500

**MINIMUM SIZING STANDARD**

**Date Standard Effective:** Mon Aug 26 10:03:25 MDT 2024  
**Peak Day Source Demand per ERC (gal/day):** 1,385  
**Average Annual Demand per ERC (gal/year):** 184,809  
**Equalization Storage per ERC (gal/day):** 507

**MINIMUM SIZING STANDARD CALCULATIONS**

**VARIABILITY**

<b>Data from these reporting years:</b> 2021, 2022, 2023				
<b>Peak Day Source Demand per ERC (gal/day):</b> 1,154	x	(1 + 0.2)	=	1,384
<b>Average Annual Demand per ERC (gal/year):</b> 137,917	x	(1 + 0.34)	=	184,808
<b>Equalization Storage per ERC (gal):</b> 378	x	(1 + 0.34)	=	506

**DWRI WATER USE DATA REPORTED**

Year	Peak Day Source Demand (gal/day)	Average Annual Demand (gallons)	ERCs	Peak Demand per ERC (gal/day)	Avg Annual Demand per ERC (gal/year)	Equalization Storage per ERC (gal/day)	OP Days
2023	5,764,304	942,566,378.13	6,783	850	103,074	282	365
2022	5,177,772	910,183,305.75	6,110	847	105,609	289	365
2021	5,829,474	1,083,070,070.82	5,053	1,154	137,917	378	365
<b>Variability:</b>			0.342	0.2	0.34	0.34	

Year	Peak Month Average (gal/day)	Peak Month Average per ERD (gal/day)	Ratio of PD/ERC to Peak Month Avg/ERC
2023	4,060,629	599	1.42
2022	3,689,369	604	1.4
2021	4,102,569	812	1.42

## CAPACITY CALCULATIONS FOR STORAGE

**Equalization per ERC (gal):** 507  
**Existing Storage (gal):** 12,297,512  
**ERCs:** 6,783  
**Required Storage w/o Fire Flow:** 3,438,981  
**Required Fire Storage (gal):** 2,842,000  
**Required Storage w/Fire (gal):** 6,280,981  
**Storage Deficiency:** 0  
**Storage Deficiency (%):** 0.0  
 No Storage Deficiency

## CAPACITY CALCULATIONS FOR SOURCES

**Peak Day Source Demand per ERC (gpm):** 0.96  
**Existing Source Capacity (gpm):** 6,679  
**ERCs:** 6,783  
**Required Source Capacity (gpm):** 6,512  
**Source Deficiency:** 0  
**Source Deficiency (%):** 0  
 No Source Deficiency

# SYSTEM STORAGE AND SOURCE INVENTORY

Storage ID	Storage Name	Effective Volume (GAL)
HD001	SUMMIT BOOSTER HYDRO	
ST002	SUMMIT PARK TANK 2	100,000
ST003	SUMMIT PARK TANK 3	700,000
ST004	TIMBERLINE TANK	120,000
ST006	BLACKHAWK TANK	350,000
ST007	GLENWILD TANK	650,000
ST008	RED HAWK TANK	400,000
ST009	ATKINSON TANK	700,000
ST010	SPORTS PARK TANK	1,000,000
ST011	BEAR HOLLOW TANK	160,000
ST012	SPRING TANK	500,000
ST013	MCDONALD DRAW TANK	250,000
ST014	WHITE PINE TANK	500,000
ST015	DUTCH DRAW TANK	250,000
ST016	SNOWSLIDE TANK	1,000,000
ST017	WEST HILLS TANK	800,000
ST018	SIGNAL HILL TANK	447,512
ST019	PRESERVE TANK	350,000
ST020	MIDDLE VALLEY TANK	1,050,000
ST021	STAGECOACH TANK NORTH	100,000
ST022	STAGECOACH TANK SOUTH	80,000
ST023	SILVER CREEK TANK	2,000,000
ST024	COLONY PHASE 5 TANK	300,000
ST026	CANYONS TANK 1	240,000
ST027	SUMMIT PARK TANK 1 - RPL	250,000

**Storage Totals: 12,297,512 GAL**

Source ID	Source Name	Flow Rate (GPM)
WS001	ATKINSON WELL 2	800
WS002	JAILHOUSE WELL 3	120
WS003	SILVER CREEK WELL 10	300
WS004	STAR POINTE WELL 15B	N/A (The safe yield is 817 gpm; however, 15B and 15C cannot operate simultaneously therefore only 15C will be counted for capacity purposes.)

WS005	3 MILE WELL	115
WS008	BLACKHAWK WELL 2R	100
WS009	GORGOZA WELL 6	472
WS010	NUGGETT WELL	350
WS013	LAKE WELL 1	220
WS014	SUN PEAK WELL 2	67
WS015	SUN PEAK WELL 3	99
WS016	SUMMIT PARK WELL 2	48
WS018	SUMMIT PARK WELL 5	120
WS019	SUMMIT PARK WELL 7	230
WS024	BISON BLUFFS WELL 15C	1,000
WS025	ROCKPORT RESERVOIR INTAKE/ TP002	2,083.32
WS027	TANK WELL NO. 16	39.3
WS029	UTAH22059 SWDC	400
WS030	WAGON TRAIL#2 WELL	16
WS031	GULCH NO 1 WELL	100
		<b>Source Totals: 6,679 GPM</b>