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**CITY OF SELDOVIA – RESERVOIR SUPPLY UPDATE  
COMMUNITY UPDATE  
AUGUST 29, 2019**

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***Gallons Used in the last 24 hours: 90,952 gallons  
DECREASED BY 1,683 GALLONS FROM THE  
PREVIOUS DAY***

***Estimated amount of water in Reservoir: 2.471 million gallons  
Estimated amount of water in days based on monthly average use:  
16.09 days***

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The information that we are focusing on is daily community consumption which as follows:

- Treated (Potable Water) water going to Seldovia measured in Gallons Per Day (GPD)
- Estimated Reservoir Level measured in acre feet or acre inches, then converted to gallons.
- Estimated water availability to City of Seldovia measured in days; this is an everchanging number as it is based on usage which fluctuates day to day.

There are several phases of this critical situation; they are being laid out and developed in house and with coordinating with other agencies, and once they are ready for public consumption we will share and communicate that as this situation progresses.

It is helpful and important to keep in mind, that droughts and water supply deficiencies have not been an area of concern for the Seldovia or the Kenai Peninsula Borough due to its climate. It is safe to say, that droughts and water supply deficiencies will be added to our EOPs. Please bear with us as we have a steep learning curve on working out efficient, productive, useful processes to mitigate this emergency.

## Backup water status:

- 10 PALLETS OF BOTTLED DRINKING WATER ARRIVING Sunday September 1, 2019;  
126 jugs/pallet = 1260 Gallons  
  
126 PALLETS OF BOTTLED DRINKING WATER ARRIVING Thursday September 5, 2019;  
126 jugs/pallet = 1260 Gallons
- NON-POTABLE/GREY WATER STATION FOR RESIDENTS TO ACCESS GREY WATER FOR NON-DRINKING PURPOSES; LOCATED ON LOADING DOCK BEHIND CITY SHOP

**POTABLE WATER:** Drinking water; is safe to drink or to use for food preparation. The amount of drinking water required to maintain good health varies, and depends on physical activity level, age, health-related issues, and environmental conditions.

**NON-POTABLE WATER:** Water that has not been examined, properly treated, and not approved by appropriate authorities as being safe for consumption. Links.  
About non-potable water: Non-potable water is water that is not of drinking water quality, but which may still be used for many other purposes, depending on its quality.

## City of Seldovia's Conservation Measures

(8/27) On Tuesday, city staff met and developed a conservation plan for municipal buildings and services. The bulk water station at the harbor will be available for those seeking to obtain bulk water Mondays, Wednesdays and Saturdays. 10-4:30pm. That schedule was decided upon to coincide with the dump schedule.

- The senior meals program will be put on hold after the 8/28 lunch until further notice.
- The library director and I also spoke and collaborated on the library schedule. In an effort to minimize the multi-building use, we coordinated our schedules and the library will be open with the following schedule:
  - Monday - CLOSED
  - Tuesday - Normal hours (2-6)
  - Wednesday - CLOSED
  - Thursday - Normal hours (2-6)
  - Friday - CLOSED
  - Saturday - Normal hours (2-4)
  - Sunday - CLOSED
- The multi-purpose building will be closed on Monday, Wednesday and Friday unless there are community meetings.
- The harbor water has been completely shut off until further notice.
- The Alaska Marine Highway is no longer receiving water until further notice.
- The boat wash down building is closed until further notice.
- Public works employees were able to complete the water leak repair on Main Street and Dock Street. This repair completes the outstanding list of repairs and leaks that we had identified with ARWA (Alaska Rural Water Association) when they audited our system last fall. This repair saved around 60,000 gallons of water per day.
- An aggressive public education campaign was started, with going door to door to educate and share information on our current water shortage situation.
- An informational email is being sent out regularly to the community; to be included on the list, please contact Heidi
- Community notices have been posted throughout town and on our website.

## Layers of Emergency:

There is a tremendous amount of data and information still to be obtained. There are numerous questions at this point that are unanswered. We are working with a variety of agencies throughout the state to get the answers to the questions.

### Short term:

- What is happening today, tomorrow and in the next week.
- Alternative water sources in the form of bottled water and non-potable sources as stated above will be available starting next week. How will they be distributed?
- Continue conservation levels.
- Consider a “Rolling blackout schedule” for community.
- What outside resources could be recruited?

### Mid-Term:

- What is happening if this emergency proceeds at the current rate, without improvement?
- How will COS coordinate with KPB and the State?
- How will resources be identified and obtained?
- Are there alternative or outside water sources or equipment that can be transported into Seldovia?

### Long-Term:

- What are the effects for the future of Seldovia?
- If there is no improvement in conditions, how will COS manage when it freezes this winter?
- How will mitigation measures be funded?
- Identifying backup water sources, is Fish Creek an option?
- Is drilling a well an option?
- Can we dredge our reservoir and will dredging be enough to diminish the likelihood of another drought or water supply shortage?
- Can the COS receive capital improvement monies in order to repair and replace our aging infrastructure?
- COS needs to incorporate a mitigation plan and strategy into the Emergency Operations Plan for the future.

**WEATHER FORECAST PROVIDED BY NATIONAL WEATHER SERVICE- NOAA 8/29/19**

**Detailed Forecast**

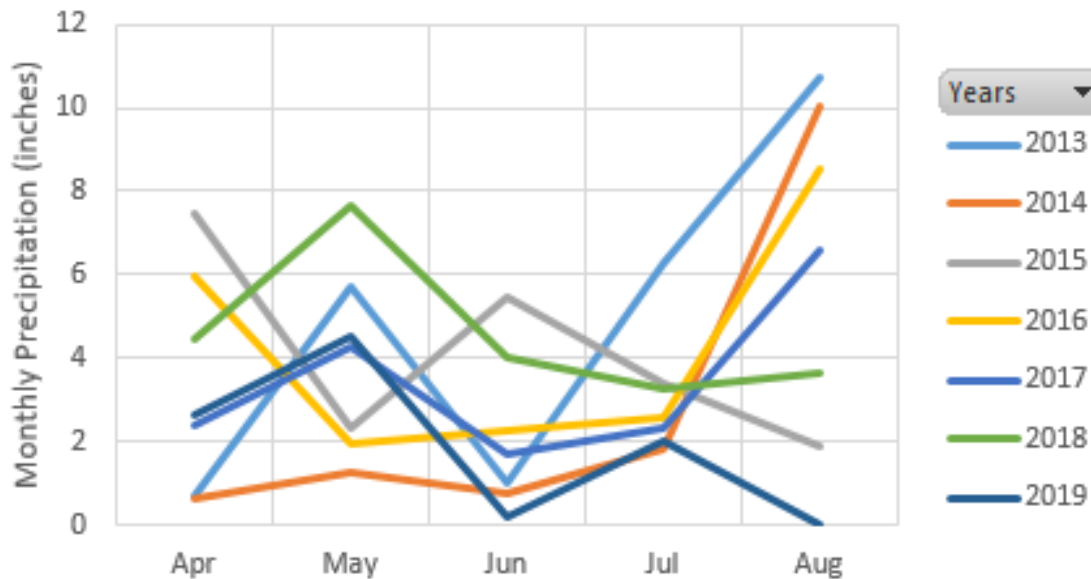
Mostly sunny, with a high near 64. Southwest wind around 5 mph.	<b>This Afternoon</b>
Partly cloudy, with a low around 48. Calm wind becoming southeast around 5 mph in the evening.	<b>Tonight</b>
A 30 percent chance of rain after 4pm. Partly sunny, with a high near 63. East wind around 5 mph becoming south in the afternoon.	<b>Friday</b>
Rain, mainly after 7pm. Low around 49. North wind 10 to 15 mph. Chance of precipitation is 90%.	<b>Friday Night</b>
Rain likely, mainly before 7am. Cloudy, with a high near 62. Northeast wind 5 to 10 mph. Chance of precipitation is 60%.	<b>Saturday</b>
A 40 percent chance of rain. Mostly cloudy, with a low around 52. East wind 5 to 10 mph.	<b>Saturday Night</b>
Rain. High near 62. Chance of precipitation is 80%.	<b>Sunday</b>
Rain likely. Cloudy, with a low around 52.	<b>Sunday Night</b>
Rain likely before 10am, then showers likely between 10am and 4pm, then rain likely after 4pm. Cloudy, with a high near 63.	<b>Labor Day</b>
Rain likely before 10pm, then showers likely after 10pm. Mostly cloudy, with a low around 50.	<b>Monday Night</b>
A chance of showers. Mostly cloudy, with a high near 63.	<b>Tuesday</b>
A chance of showers. Mostly cloudy, with a low around 48.	<b>Tuesday Night</b>
A chance of showers. Partly sunny, with a high near 63.	<b>Wednesday</b>

## Historical Precipitation Data for Seldovia

Monthly Precip (in)	Year							
Month		2013	2014	2015	2016	2017	2018	2019
Apr		0.69	0.61	7.47	5.98	2.37	4.48	2.64
May		5.74	1.28	2.31	1.95	4.25	7.63	4.55
Jun		1	0.74	5.48	2.26	1.69	4.03	0.2
Jul		6.27	1.82	3.37	2.58	2.31	3.25	2.01
Aug		10.71	10.03	1.92	8.56	6.56	3.64	0.04
<b>Grand Total</b>		<b>24.41</b>	<b>14.48</b>	<b>20.55</b>	<b>21.33</b>	<b>17.18</b>	<b>23.03</b>	<b>9.44</b>

Monthly Precip (in)

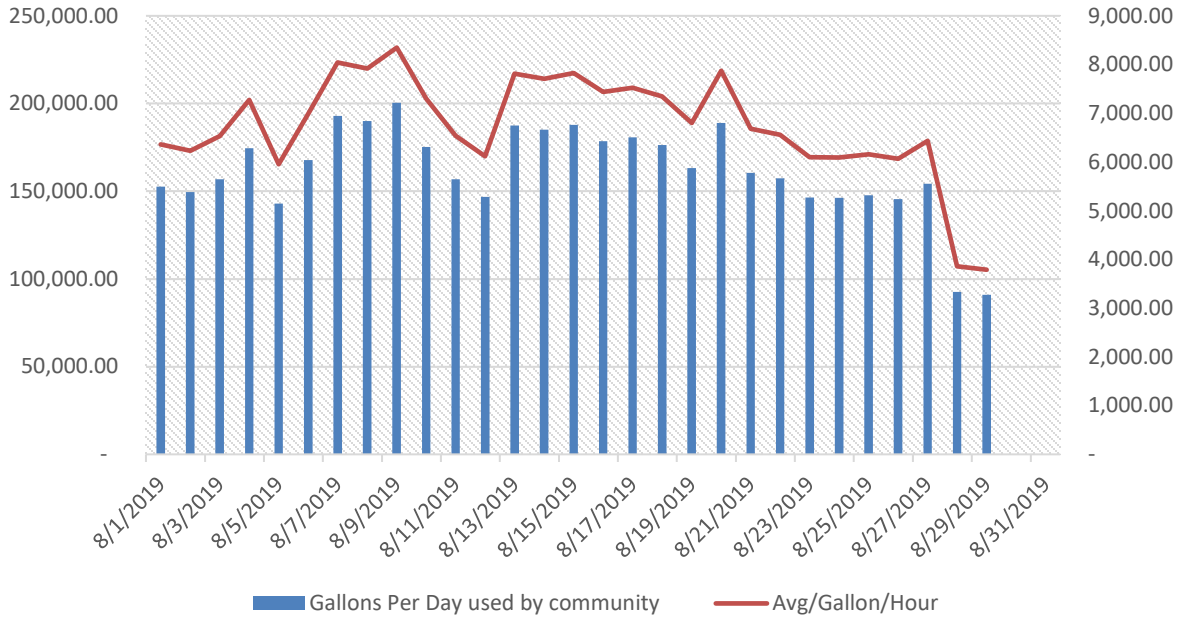
Seldovia - Total Monthly Precipitation 2014-2019



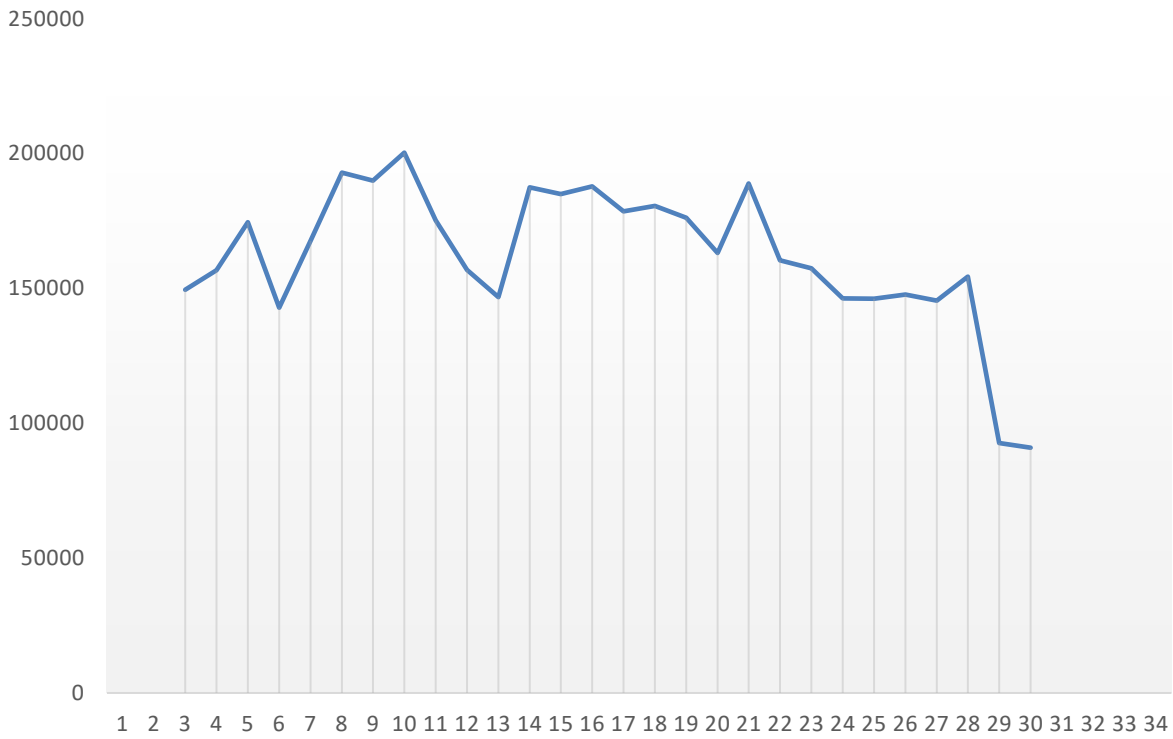
DATE



## City of Seldovia Daily Water Usage - Community Wide



### GALLONS USED PER DAY



## Repair Project Data

Alaska Rural Water Association has been an integral part of our community's efforts to repair the failing infrastructure in Seldovia. Kevin Schoneman has been to our community on several occasions in the last year. With the leak detection equipment, he was able to identify major leaks in our system. We have made the repair of these leaks a priority. In the last year, our Public Works/Water Department has completed 13 major water projects. The result of these repairs equal to an estimation of 370,455 gallons of water saved.

PROJECT	DATE COMPLETED	GPD Change
<b>Eagle Run to Young Street Reroute</b>	7/1/2018	No change due to reroute and not repair
<b>Main Street Valve replacement</b>	8/1/2018	No change due to reroute and not repair
<b>Anderson Way Leak One - resulted in the leak being on property owner's line, property owner repaired and fixed leak</b>	8/1/2018	34,878.00
<b>Anderson Way Leak Two -</b>	8/1/2018	44,269.00
<b>Inlet Street - Leak/Broken Lines</b>	9/1/2018	35,198.00
<b>Main Street Keybox Replacement</b>	9/1/2018	No change due to reroute and not repair
<b>Anderson Way Leak Three</b>	10/19/2018	23,309.00
<b>Main Street Southend Keybox Replacement</b>	4/1/2019	17,085.00
<b>Augustine Repair</b>	4/1/2019	33,166.00
<b>Willards Way Repair</b>	5/1/2019	43,150.00
<b>Main Street Phase I</b>	6/28/2019	29,718.00
<b>Young Street Repair</b>	7/1/2019	47,954.00
<b>Main Street Phase II</b>	8/27/2019	61,728.00
	<b>CUMULATIVE CHANGE IN CITY CONSUMPTION (GALLONS SAVED)</b>	<b>370,455.00</b>