

Saving the Great Salt Lake: A Lake-First Approach

Jeffrey Davis, P.E., CGWP, *Integral Consulting Inc.*

The Great Salt Lake is being destroyed by drought and excessive water diversion.



Changes by the numbers

19 ft	below average natural level
73%	water loss
60%	surface area loss
1.2 mil	acre-feet drop per year since 2020
>0.1 mil	acre-feet returned per year
5 years	to disappear if loss rate continues

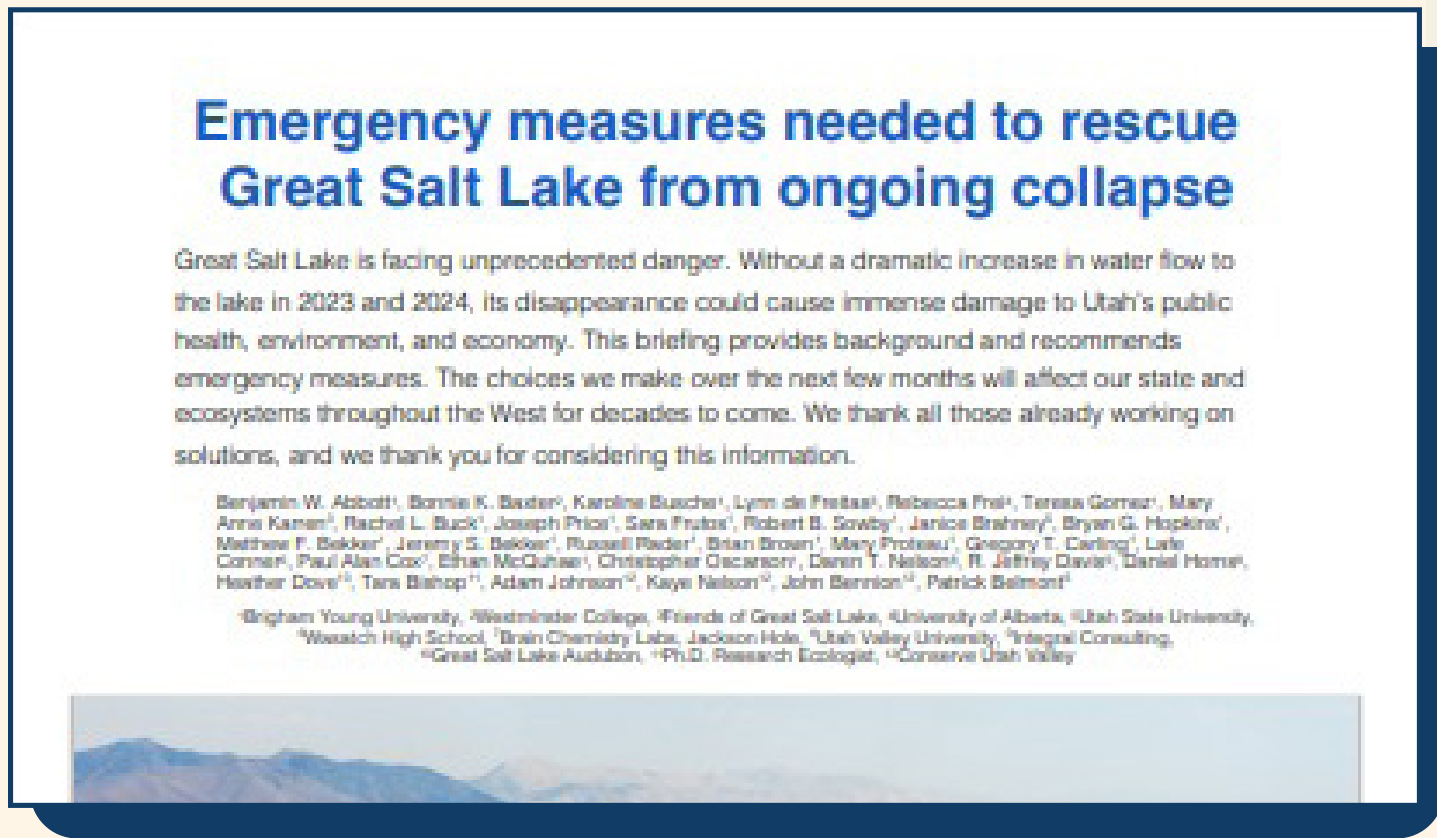
Impacts of a drying Great Salt Lake



The fate of the lake is in our hands.

Emergency Brief, January 2023

Co-authored by scientists and conservationists across the state, the briefing calls on the governor, legislature, and every water user and manager to help rescue the lake in this all-hands-on-deck emergency.



Outlined principles for sustainable water management

LEARN

CONSERVE

AUGMENT



Moving forward

Goal

- Minimum streamflow requirement of 2.5 million acre-feet per year
- 30-50% reduction in consumptive water use in the watershed



- LEARN** — Carefully study the physical, biological, and social dimensions of water
 - Hundreds of millions of state and federal dollars currently set aside to study and implement water saving measures to get water to the lake
 - Greater public, academic, and government awareness resulting in workshops, symposiums, and other meetings to collaborate on solutions
- CONSERVE** — Systematically eliminate water waste and overuse
 - Designating instream flow and sovereign lands as beneficial uses
 - Reducing widespread water consumption
 - Optimizing agricultural water use
 - Metering secondary water
 - Funding—federal and local
 - Raising public awareness
- AUGMENT** — Increase supply as little as necessary after exhausting steps 1 and 2
 - Establishing minimum lake level at 4200 above sea level
 - Recognizing Great Salt Lake's ownership of water rights as a sovereign body
 - Relinquishing and buying water rights
 - Possibly limiting growth

The Great Salt Lake is not just a source of salt; it's a wellspring of life, bridging the gap between the people of Utah and the delicate balance of nature. Let's remember that its preservation is not only our duty but a testament to our commitment to safeguarding the beauty and biodiversity that grace our planet.

Jeffrey Davis, P.E. CGWP
Integral Consulting Inc.
(801)-835-7445
jdavis@integral-corp.com

