

CivicSpark Fellow Presentation: Clear Lake Shoreline Inventory and Stewardship for the Lake County Water Resources Department

July 26, 2022
Emma Belanger
CivicSpark Fellow



CivicSpark Fellowship

What is CivicSpark?



CivicSpark is a Governor's Initiative AmeriCorps program that is dedicated to **building capacity for local governments** to address emerging **environmental and social equity resilience challenges** such as climate change, water resource management, affordable housing, and mobility. The CivicSpark program is administered by **CivicWell** (*formerly the Local Government Commission*).

Served with Lake County Water Resources

Sep 2021
Began CivicSpark
Fellowship

Aug 2022
Complete CivicSpark
Fellowship



Lack of natural shorelines can contribute to **decreased water quality**

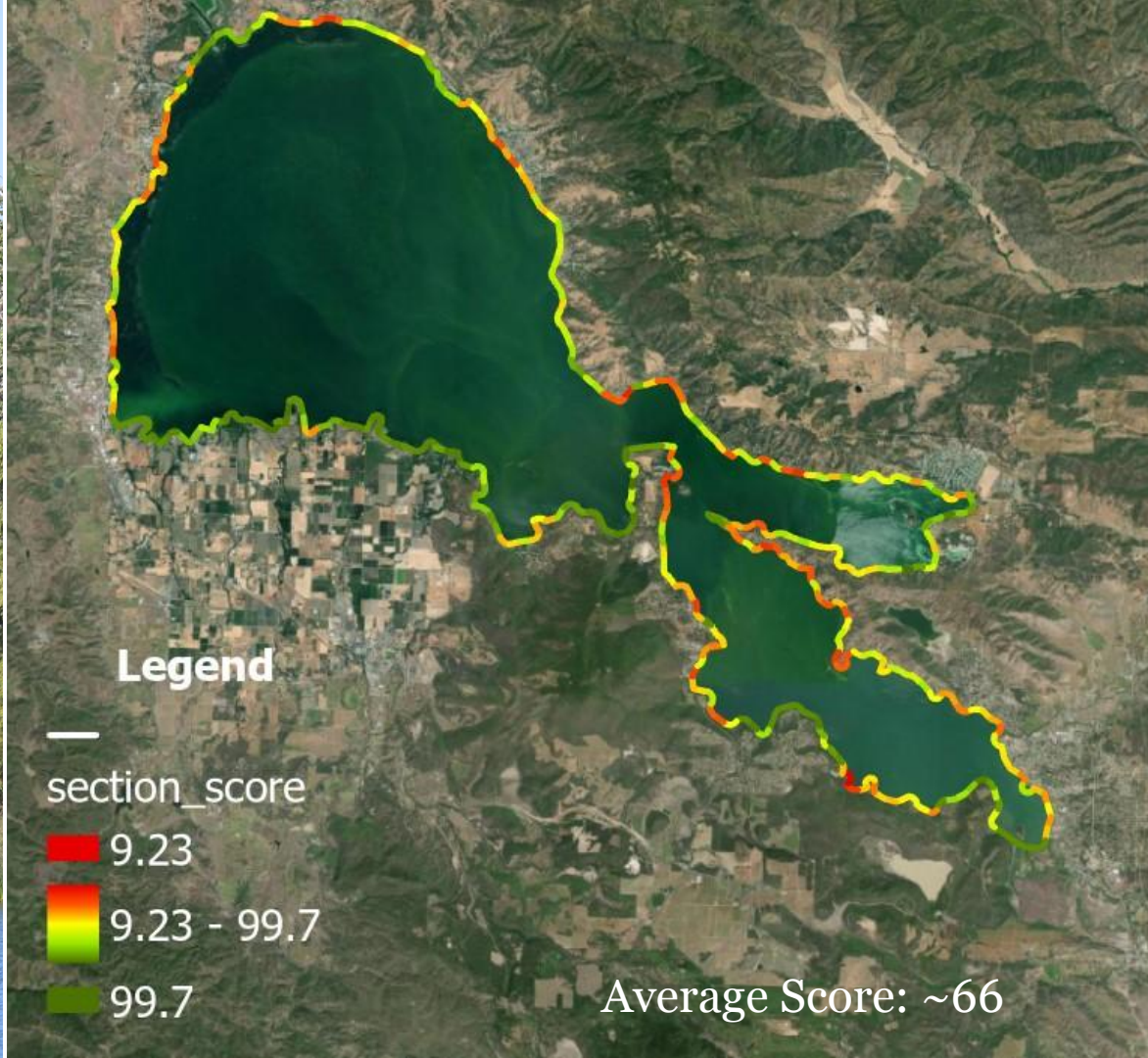
Improving shorelines means having **natural buffer system** for run-off, **more habitat** for wildlife and fish, **increased aesthetics** around the lake, and **economic opportunities** for local businesses



Shoreline Inventory and Assessment – Score the Shore



- Aims to delineate shoreline and give “score” based on field survey of 1000 ft sections
 - Affected by vegetation, structures, woody debris, and erosion
- 17 regions
- 353 total transects



Regional Data

Developmental Density (DD) = $[(\# \text{ of houses}) + (\# \text{ of docks})] / (\# \text{ of transect per region})$ = average # of structures per 1000 feet

Region	Number of Transects	DD	Avg. Score
Sulphur Point South	19	19.579	47.375
North Lakeport	21	18.33	51.11
Buckingham	18	13.01	59.44
Lakeport	14	11.86	57.17
Glenhaven	6	11.5	59.66
Nice	19	10.89	59.15
Riviera	29	10.34	64.84

Region	Number of Transects	DD	Avg. Score
Clearlake Oaks	33	9.758	64.78
Soda Bay	21	9.24	75.91
Lucerne	38	8.13	55.08
Big Valley	27	2.59	90.13
Konocti Vista Casino	12	1.92	88.13
Clear Lake State Park	10	0.2	86.92
Rodman Slough	8	0	89.76

Shoreline Stewardship Program Development

Designed to **engage the community** and **encourage natural shorelines & best management practices**





A shoreline stewardship program for Clear Lake will aim to:

- **Restore vital natural shorelines** in areas where development has reduced them
- Support projects that **provide habitat to wildlife and ecosystem services**
- **Bolster the resiliency of Clear Lake's shoreline** to erosion and degradation
- **Enhance sense of community** around a common goal and shared knowledge
- **Provide economic incentives** for participants

CLEAR LAKE NEEDS YOU TO BE A SHORELINE STEWARD!

Why care about your shoreline?

Shorelines with native vegetation can help improve Clear Lake's water quality, increase the aesthetic value of the lake, provide habitat for native wildlife., and act as a natural buffer system for pollutants.

How you care for your shoreline and adjacent land matters!

Shoreline stewardship is A PROPERTY INVESTMENT

Well cared-for shorelines add property value to your real estate.

By maintaining healthy shorelines, you are investing in the attractiveness of your real estate and property.

Poorly maintained shorelines can become a significant liability.

Keeping native vegetation on your shoreline can reduce wave energy that can damage your docks and seawalls or cause erosion.

WHAT YOU CAN DO:

- Keep or restore native vegetation on your land close to the shoreline and along the waters edge. Good options are willows, cottonwoods, and tules. They're great for wildlife and help the water stay clean!
- Reduce your use of pesticides, herbicides, and fertilizers that can degrade water quality.
- Pick up pet waste so that toxins don't enter the water.

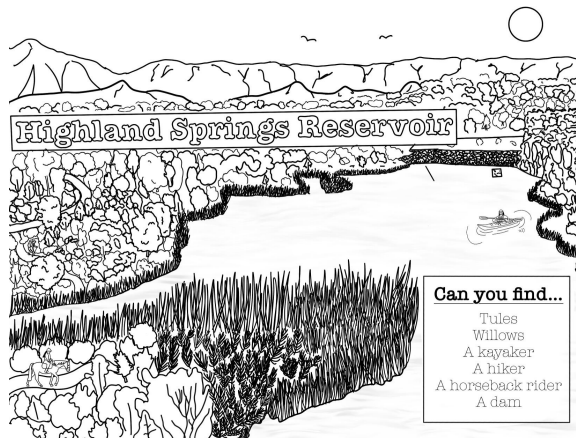


For more information, contact the Lake County Water Resources Department:
Phone: (707) 263-2344
Email: water.resources@lakecountyca.gov
255 N. Forbes Street
Room 309
Lakeport, CA 95453

AQUATIC RESOURCES OF LAKE COUNTY, CA

Activities Blue Book Fun for All-Ages

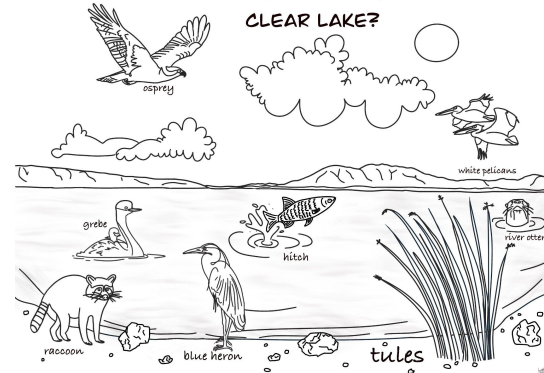
Prepared for you by
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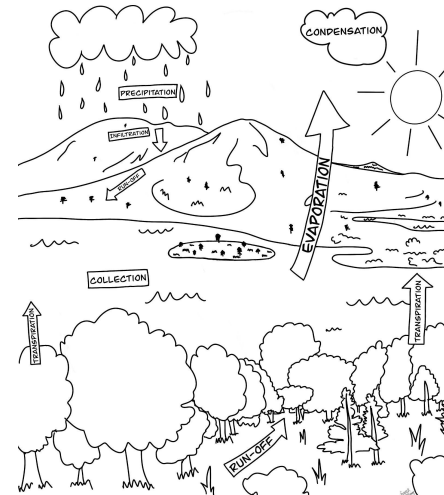
Can you find...

- Tules
- Willows
- A kayaker
- A hiker
- A horseback rider
- A dam

WHO LIVES IN AND AROUND CLEAR LAKE?



THE WATER CYCLE





Next Steps

- For the 2023-2024 service year, a CivicSpark Fellow will continue the development and implementation of the Shoreline Stewardship Program
 - A 2022-2023 CS Fellow will be working on Aquatic Invasive Species outreach and engagement (Quagga/Zebra mussels)

Questions?

Email me: ebelanger@civicspark.lgc.org

Or Contact the Lake County Water Resources Department

(707) 263-2344

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