



June Lake Cleanup

FY22 Summary

Background Information

- GPS Coordinates: 37.7798° N, 119.0754° W
- Elevation: 7,654'
- Circumference: 2.59 miles
- Project Objective: Take the CUTL dive teams around the full circumference of the lake while removing small and medium litter items and identifying non-collection items, potential aquatic invasive species and algal blooms. Categorize litter pulled out of the lake.

The background of the slide is a high-angle photograph of June Lake. The water is a vibrant turquoise color, and the surrounding shoreline is covered in dense green forest. A small boat is visible in the distance. A large, semi-transparent circular overlay is positioned on the left side of the image, containing the title and a bulleted list. The title is 'Background Information Continued' in a large, black, sans-serif font. Below the title is a horizontal line. The list consists of four bullet points, each starting with a black dot. The text is in a smaller, black, sans-serif font. The overall composition is clean and informative, with the natural beauty of the lake providing a visually appealing backdrop.

Background Information Continued

- June Lake is located against the southern rim of Mono Basin 12.5 miles south of Lee Vining.
- June Lake has long been a popular fishing destination, seeing recreation types that yield potential litter in the form of fishing debris, alcohol and other food and drink containers, and more.
- The lake sits in a horseshoe shaped canyon that was formed by glacial action.
- The area experiences warm, dry summers and cold, snowy winters.

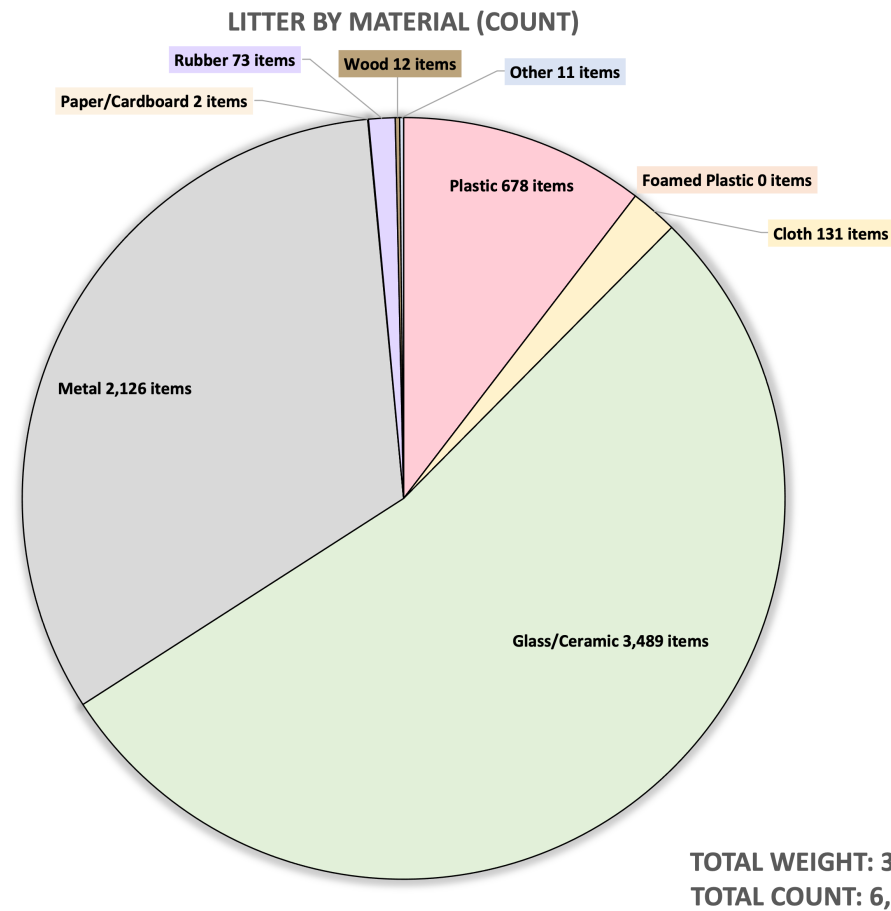
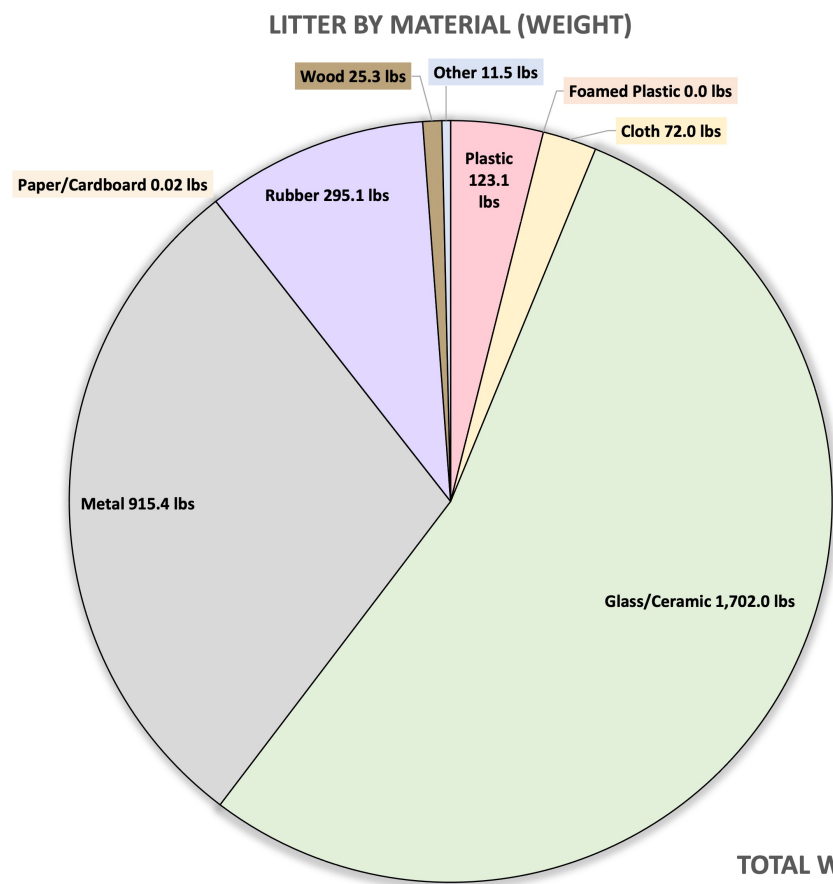
Project Totals

- Miles Cleaned: 2.59 mi
- Weight Removed (wet): 3,404 lbs
- Weight Removed (dry): 3,144.4 lbs
- Items Removed (count): 6,522 items
- Total Dive Days: 6 days
- Total Cleanup Dives: 11 dives
- Air Cylinders Used: 59 cylinders
- Volunteers to Date: 28 volunteers
- Volunteer Positions Filled: 84 positions
- Volunteer Hours (dive days): 547 hours
- Volunteer Hours (litter categorization): 46.5 hours
- Non-collection items: 47
 - Hot Spots: 16
 - Heavy Lift: 22
 - Unknown/Historic Items: 9
 - Vista Points: 0
- Potential AIS: 11
- Algal Blooms : 1
 - Includes all forms of algal blooms*

Project Totals – Category Specific

Material Type	Total Weight (lbs)	Total Count (#)
Plastic	123.1	678
Foam Plastic	0.0	0
Cloth	72.1	131
Glass/Ceramic	1,702.1	3,489
Metal	915.3	2,216
Paper/Cardboard	0.02	2
Rubber	295.0	74
Wood	25.2	12
Other	11.5	11

Litter Breakdown Visual Aid



General Litter Items Found

- Most of the litter collected was glass, specifically **powerbait jars and mason jars**; with over 3,000 power-bait jars equaling 47% of the quantity of litter items found in June Lake.
- Outside of glass, there were numerous **beer cans** and dozens of **anchors**.
- Typically, we average 472 items per mile of clean up. For June Lake the concentration of litter was **2,518 pieces of litter per mile**, making it 5 times dirtier than lakes we have previously cleaned.



Vegetation and Possible Aquatic Invasive Species

- Minimal algae growth seen.
- There was significant vegetative growth in 3-10 ft of water. The photo to the right displays the only vegetation found around the lake. Our data's photo and video content is currently being sent off for analysis by contracting environmental scientists.



Lakebed Composition and Bathymetry



- The lakebed was predominately composed of sand, small rocks, and silt. Most of the silt was concentrated in the flatter sections of the lakebed.
- The bathymetry (shape and depth of underwater formations) for the first couple of feet was a rocky/sandy wall. At 2.5-3 feet deep, vegetation began to grow and continued down to about 8-10 feet. From there the vegetation sloped off and a more gradual decline began. This area was littered with glass and beer cans. In some sections on the south shore, there was still litter at 40ft.

Conclusion

After circumnavigating the lake, the observations and data collected conclude that June Lake would benefit from further remediation work. CUTL recommends implementing further litter removal programs followed by lake monitoring, community awareness projects, educational programming, litter prevention signage and more.





**MAMMOTH LAKES
RECREATION**

Donors

In Kind Donors



June Lake Villager - Accommodation Partner



Golden Pine RV Park – Accommodation Partner



Big Rock Resort – Launch Location Partner



June Lake Marina – Pontoon Boat Donor

Volunteers

- Kalika Baker
- Mike Crow
- Sadye Easler
- Hayden Farris
- Brad Flora
- William Garnica
- Sydney Hamren
- Dave Hoop
- Carley Kaney
- Nikky Lipovsky
- Milena Torres London
- Jose Marquez
- Danielle McCord
- Eve O'Neill
- John Peltier
- Jamie Rathje
- Nicole Sands
- Pamela Sinclair
- Andrew Slucky
- Anne Slucky
- Sophia Slucky
- Drew Smith
- Ashley Thompson
- Brooker Veoni
- Colin West
- Elise Whittal
- Louise Wholey
- Shelly Witters
- **TOTAL = 28 volunteers**