**Zenodo Release Title:** Cameron Peak Fire Reservoir Water Chemistry May 2021- June 2023

**Authors:** Samuel Struthers (https://orcid.org/0000-0003-1263-9525), Matthew R.V. Ross (https://orcid.org/0000-0001-9105-4255), Timothy S. Fegel, Kathryn Willi (https://orcid.org/0000-0001-7163-2206), Charles C. Rhoades (https://orcid.org/0000-0002-3336-2257)

**Data Description:** This data is water chemistry grab sample data collected post-Cameron Peak Fire in the Cache La Poudre Watershed. This data is focused on basic water quality parameters, as well as cations and anions. This data was collected at various reservoirs in the Cache La Poudre watershed as well as the mainstem of the Cache La Poudre River. This project is ongoing and additional data will be released in future versions.  
  
Background Information:

**Methodology:**This publication is primarily water sample data but also contains some code to merge chemistry data collected in the lab with location, burn severity and extent metadata added by ROSSyndicate.

Samples were collected and processed using the Rocky Mountain Research Station’s Biogeochemistry Lab, overseen by Timothy Fegel and Charles Rhoades, according to the following methods.

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| Analyte | Reference Method | Method Description | Minimum Detection Limit | | Practical Quantitation Limit |
| Carbon, Total | EPA 415.1 | Shimadzu  TOC-V  Combustion Analyzer | | 0.03 mg/L | 0.1 mg/L |
| Carbon, Inorganic | EPA 415.1 | 0.03 mg/L | 0.1 mg/L |
| Carbon, Dissolved Organic | EPA 415.1 | 0.03 mg/L | 0.1 mg/L |
| Nitrogen, Total | ASTM D5176 | 0.01 mg/L | 0.01 mg/L |
| Nitrogen, Total Dissolved | ASTM D5176 | 0.01 mg/L | 0.01 mg/L |
| pH | EPA 150.1 | Mettler Toledo InMotion Pro | | NA | 0-14 pH units |
| Conductivity | EPA 120.1 | 0.20 µS/cm | 0.80 µS/cm |
| Acid Neutralizing Capacity | EPA 310.1 | 0.20 µeq/L | 1.00 µeq/L |
| Anions - F, Cl, Br, NO2, NO3, PO4, SO4 | EPA 300.0 | Thermo Fisher IntegrIon Ion Chromatograph | | 0.01 mg/L | 0.05 mg/L |
| Cations - Na, NH4, K, Mg, Ca | ASTM D6919-03 | 0.01 mg/L | 0.05 mg/L |
| Chlorophyll a | EPA 445 | Turner Designs Model 10 Series Fluorometer | | .01 µg/L | .1 µg/L |

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**Keywords:** Cameron Peak Fire, water quality, reservoirs, chlorophyll a, biogeochemistry

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