



## Colorado Science and Engineering Fair

## 2025 Individual Project Abstract Form

**Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.**

Title of Project: Toxic Tributaries 2: Rivers Effect On Soil Chemistry

Finalist's Name: Colter Dennison

School and City: Mancos High School Mancos CO, 81328

Sponsor's Name: Sensa Wolcott

Category: Earth & Environmental Sciences

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

For this project I went from a high point of the Mancos river to a low point in the Mancos river, Through this process we dug up soil from the bottom of the river and Scanned it with the XRF (X-Ray Fluorescence meter) to find what metals hide within. We waded through the river at different water testing sites and got dirt samples from underneath the water. We then compared this to the already existing water quality data to tell what kind of metals are in the water. The results show that the top of the river is more contaminated at the bottom and often gets diluted when it enters in with all other tributaries. In conclusion this project was a success and could have gone better if the river was not as rocky or had any rapids.

*I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.*

Finalist's Signature:

Date:

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**