

# ELENA BLITCH

Hydrologist

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## PROFILE

Dedicated Hydrologist with 1 year of experience in analyzing and monitoring water resources. Proficient in utilizing advanced hydrological tools and techniques for data collection and interpretation. Strong background in watershed management and water quality assessment. Committed to providing accurate, reliable information for sustainable water resource management and policy development. Excellent communication and teamwork skills, with a strong aptitude for problem-solving and innovation.

## LINKS

[linkedin.com/in/elenablitch](https://www.linkedin.com/in/elenablitch)

## SKILLS

GIS Mapping

Remote Sensing

Hydrological Modeling

HEC-RAS Software

SWMM Software

Groundwater Analysis

Water Quality Assessment

## LANGUAGES

English

Indonesian

## HOBBIES

## EMPLOYMENT HISTORY

### Senior Hydrologist at Hazen and Sawyer, CO

Feb 2023 - Present

- Led a team of hydrologists to develop and implement a comprehensive stormwater management plan for a major city, resulting in a 25% reduction in flood risk and saving an estimated \$10 million in potential damages.
- Conducted a detailed hydrological assessment of a 50-square-mile watershed, which led to the identification of key water resource vulnerabilities and the development of a strategic water resource management plan that increased water supply reliability by 15%.
- Successfully managed a \$5 million budget for a multi-year groundwater monitoring and remediation project, ensuring timely completion of all project milestones and a 20% reduction in contaminants at targeted remediation sites.
- Developed an innovative flood forecasting system that provided accurate and timely flood warnings for a vulnerable community, resulting in a 50% decrease in flood-related property damages and a 30% reduction in emergency response times.

### Hydrologist I at Leonard Rice Engineers, CO

Aug 2022 - Dec 2022

- Successfully conducted a comprehensive water resources study for a 50-square-mile area in Colorado, resulting in the identification of potential water supply options and the development of a long-term water management plan for the region.
- Led a team of engineers in the design and implementation of a groundwater monitoring network, consisting of over 100 monitoring wells across five counties, which significantly increased the accuracy and reliability of data collection for regional water resource management.
- Developed and calibrated a complex hydrologic model for a major river basin, accurately simulating historical streamflow conditions and predicting future water availability under various climate change scenarios. This model was utilized by local government agencies to make informed decisions on water resource allocation and infrastructure planning.
- Authored a technical report detailing the findings of a two-year study on the impacts of land use changes on groundwater recharge rates and water quality in a rapidly urbanizing area. The report was well-received by stakeholders and contributed to the establishment of new policies aimed at protecting critical water resources.

## EDUCATION

Master of Science in Hydrology at Colorado State University, Fort Collins, CO