

Elizabeth Day

GIS Analyst • Wetland Biologist

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Professional Summary

GIS Analyst and Wetland Biologist with experience in spatial analysis, wetland science, and environmental compliance. Skilled in ESRI technologies and technical reporting for government and environmental clients. Adept at delivering clear, actionable geospatial insights and leading interdisciplinary projects from data collection to final reporting.

Core Skills

GIS & Programming: ArcGIS Pro, ArcGIS Online (Dashboards, Experience Builder, StoryMaps, Survey123), ArcGIS Hub, ArcGIS Maps SDK for JavaScript; Python, Arcade.

Spatial Analysis & Cartography: Spatial statistics, overlay analysis, map algebra, interpolation, symbology, georeferencing, map projections, design for print & web.

Environmental Science: Wetland delineation & rating, soil science, hydrology, botany, invasive species management, mitigation planning & monitoring, ecological compliance (SEPA, NEPA, Clean Water Act 404/401).

Project Management & Communication: Agile & waterfall methods, time & cost estimation, technical report writing, stakeholder engagement, public records compliance.

Professional Experience

Kealamahi GIS / Freelance GIS Analyst & Editor

Honolulu, HI | Jan 2023 – Present

- Drafted and edited technical reports on soil toxicity sampling and remediation.
- Georeferenced soil sample collection units and created spatial data layers in ArcGIS Pro.

Seattle City Light / GIS Analyst Intern

Seattle, WA | Jun 2023 – Dec 2024

- Built interactive dashboards and web apps in ArcGIS Experience Builder, supporting utility operations across multiple departments.

- Designed custom paper and digital map products for field crews and dispatchers, improving efficiency of on-site work.
- Conducted spatial analysis of electrical outage data, identifying high-risk zones and presenting findings through an interactive application to other data teams.
- Updated and maintained GIS datasets with US Census and utility network data, ensuring accuracy for internal and public-facing use.
- Responded to public records requests by preparing redacted map products and datasets.
- Mapped vegetation management areas to support utility corridor maintenance.

Raedeke Associates, Inc. / Wetland Biologist

Seattle, WA | Jul 2007 – Mar 2010

- Delineated and rated wetlands throughout Washington and Oregon using federal and state methodologies.
- Designed wetland mitigation site plans, ensuring compliance with hydrology and vegetation standards.
- Supervised mitigation installation, invasive species management, and long-term monitoring, achieving regulatory performance goals in cost-effective ways.
- Authored technical reports for local, state, and federal agencies under SEPA, NEPA, and Clean Water Act Section 404/401 guidelines.
- Collaborated with wildlife teams on habitat studies including vegetation sampling in Spotted Owl habitat.

Education

- Penn State University – Master of GIS (in progress, expected 2026)
Capstone: Seattle Bike Map Application for Safety-Conscious Cyclists (ArcGIS Online, Python)
- Penn State University – Certificate in GIS, 2020
- University of Washington – Certificate in Wetland Science & Management, 2007
- Hampshire College – B.A. in Environmental Science & Education, 2003

Volunteer Experience

- Seattle Public Schools & Safe Streets Advocacy – Developed GIS map applications supporting public school and safe routes advocacy, used by 100s of advocates.
- Crown Hill Cooperative Preschool – Board Chair & Registrar; coordinated registration for 150+ families annually, led nonprofit board through large organizational change.
- Seattle Parks Department – Urban Nature Guide; led walks for school groups and the public on urban ecology, reaching 100s of Seattle kids and their families.