



Surface water

Our diverse team of experts provides thoughtful designs to reduce waste and create efficiencies.

Surface water management is a complex endeavor. You need to not only design safely around potential flooding conditions and reduce water contacts with contaminants, but ensure your organization is prepared to meet permitting and design requirements under constantly variable conditions. Not to mention, detangling the varying regulatory requirements makes your job even more complicated.

Haley & Aldrich's surface water planning and engineering team understands that you need a partner who provides a thoughtful approach when designing surface water infrastructure, drainage plans, and preparing floodplain mapping. We know that a complex design isn't always the most cost efficient or effective. That's why our team, comprised of geotechnical engineers, civil engineers, hydrogeologists, and hydraulics experts, is able to design with simplicity and resiliency in mind.

Our clients often tell us they save time, money, and effort during construction because our experts continually seek efficient approaches. We consider the most holistic approach to design that integrates into the site setting in a way that reduces infrastructure costs and maintains as much of the natural environment as possible.

Talk to our service experts



[Mark Kelley](#)

Senior Technical Expert, Hydrogeology and Civil Engineering



[Christopher Langham](#)

Technical Expert, Hydrology/Hydraulics

Service highlights

- 404 jurisdictional delineation
- Dam break modeling and Emergency Action Plans (EAPs)
- Floodplain use permitting, mapping, and FEMA processing
- Hydraulics evaluations and design
- Impoundment design
- Scour analysis and mitigation
- Stormwater management and permitting
- Surface water hydrology



Bringing technical excellence and collaboration together for win-win solutions

Navigating the surface water regulations that vary by state, county, and municipality is no easy task. At Haley & Aldrich, we work side-by-side with you and your other team members to guide you through the process and determine the right site design – so you won't have regulatory or noncompliance issues down the road.

Our staff knows that to exceed your expectations, we need to bring more to the table than technical excellence. We combine our deep regulatory knowledge with our ability to align varying stakeholders – including regulators, community groups, and non-governmental organizations – around a common solution. Our ability to develop this common understanding allows us to not only minimize obstacles, but find win-win solutions for all parties.-

We provide surface water management services-for the following markets:-

- [Aerospace](#)
- [Education, healthcare, and cultural institutions](#)
- [Energy](#)
- [Environmental trusts](#)
- [Government infrastructure](#)

- [Industrial and manufacturing](#)
- [Mining](#)
- [Real estate developers](#)

Whether implementing designs meant to withstand the Probable Maximum Flood, minimize contact water, or navigate permitting difficulties, Haley & Aldrich approaches every problem as unique— you won't find any one-size-fits-all solutions with us.-

See us at work



[Southern California Edison--Long Beach, California](#)

[SoCal Edison protects water quality while constructing and relocating power infrastructure](#)



[County of Maui--Maui, Hawaii](#)

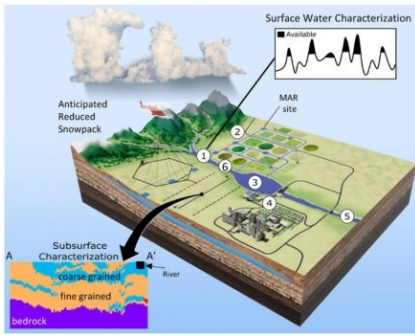
[Haley & Aldrich professionals deliver stormwater management program for the County of Maui](#)



[Industrial facility --San Diego, California](#)

[Our stormwater expertise guides industrial client on long-term compliance and savings](#)

View related resources



1. Potential diversion location.
2. Existing canal infrastructure.
3. Multi-purpose Reservoir
4. Municipal surface water supply
5. Downstream surface water obligations.
6. Ecologically-sensitive stream reach.

Publication

Managed aquifer recharge as a strategy to redistribute excess surface flow to baseflow in snowmelt hydrologic regimes-



Article

What is water risk? Here's how to understand and manage it.



Publication

SERDP and ESTCP Corner: Headlines from the Environmental Restoration Program Area



Contact us for surface water management-services