



Waterfront Redevelopment, Shipyard Operations, and Environmental Sustainability



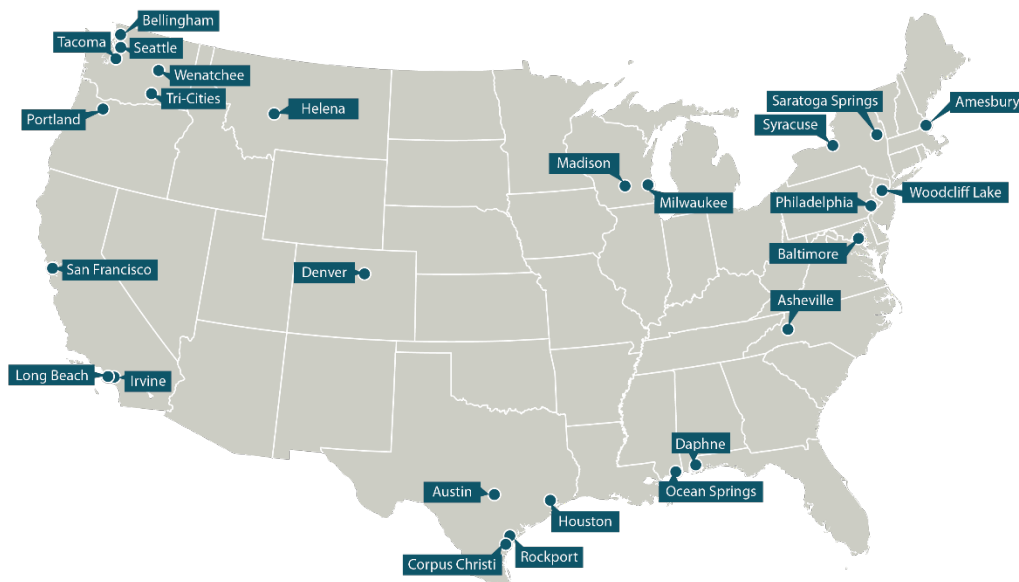
Presented by:

Michael Whelan, PE and David Templeton

June 6, 2024 | NSRP Workforce & Compliance Panel



Introduction to Anchor QEA



- National firm with offices on Pacific, Gulf, and Atlantic coasts
- Shipyards, ports, harbors, and waterfront operators make up significant portion of clientele
- Scientists, regulatory specialists, engineers, construction managers, and project strategists

Recent NSRP Panel Project

- In 2019, conducted 1-day short course sponsored by NSRP: *Dredging Fundamentals – Shipyard Operations and Environmental Sustainability*
 - Held in Biloxi, Mississippi
 - 26 shipyard (NSRP) attendees
 - Discussed all aspects of dredging and sediment management in shipyard settings
 - Permitting, site studies, design, contracting, and construction management

Overview of Shipyard-Related Technical Areas

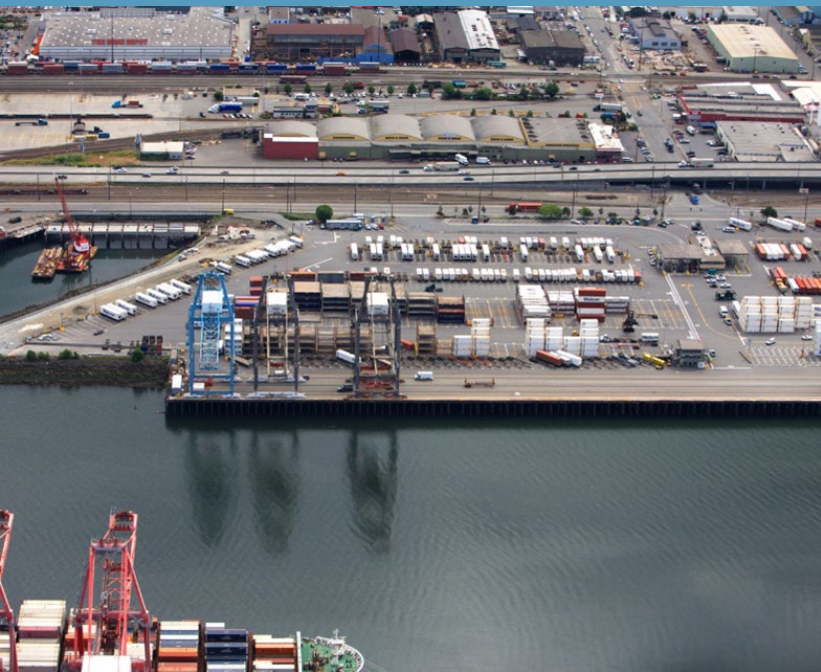
- Waterfront Improvement
- Facility Planning and Permitting Strategies
- Coastal Protection and Waterfront Resiliency



Waterfront Improvement

- Site and process improvements
- Support for new markets
- Dredging and sediment management
- Emerging contaminants
- Demolition and decommissioning



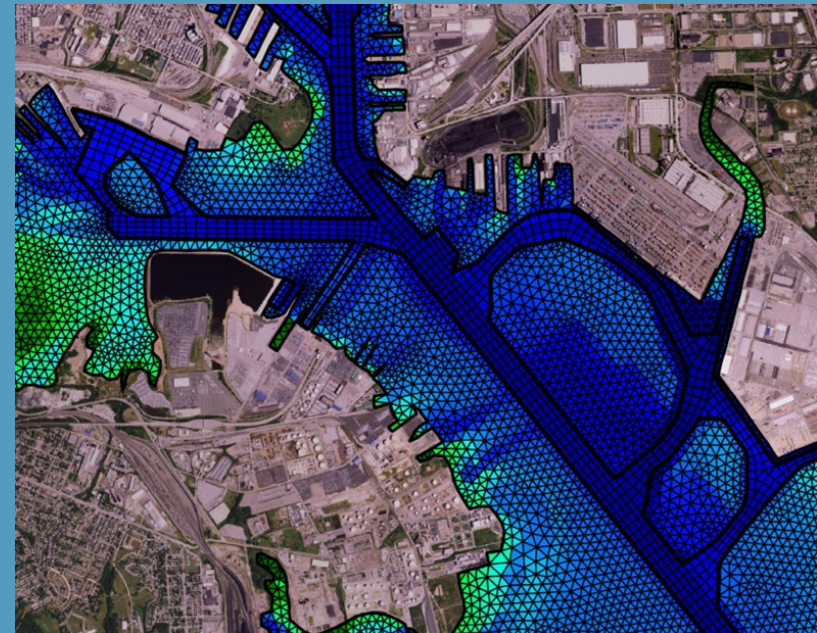


Facility Planning and Permitting Strategies

- Advance planning
- Realistic timelines
- Programmatic approaches/
project bundling
- Importance of internal
collaboration
- Air and water quality
- Community interaction
- Environmental justice

Coastal Protection and Waterfront Resiliency

- Asset protection
- Vulnerability assessments
- Storms, waves, and sea level changes
- Coastal and hydrodynamic modeling
- Long-term permitting strategies
- Cost and prioritization
- Grant opportunities



Gauging Interest in Potential Follow-Up Short Course

- Consistent with Technology Investment Plan, FY24
 - SIP 7.3: Infrastructure, Logistics and Sustainment
- Could cover dredging again or a wider scope
- Waterfront improvement considerations for shipyards
- Shipyard operations and environmental sustainability
- Developed to interest both the Sustainment Panel and the Workforce & Compliance Panels

Short Course on *Waterfront Improvements for Shipyard Operations and Environmental Sustainability*

Concept/Idea/Objective	Justification/Deliverables
<ul style="list-style-type: none"> • Develop and Deliver Short Course: <i>Waterfront Improvements for Shipyard Operations and Environmental Sustainability</i> • Focused on approaches to successfully implement Waterfront Improvements, Facility Planning and Permitting, Coastal Protection, and Waterfront Resiliency 	<ul style="list-style-type: none"> • Short course curriculum developed from direct industry experience, identifying appropriate practices for optimizing the complex process of planning, permitting, designing, and executing waterfront improvement projects at active shipyard sites. • Course would be developed for in-person attendance with handouts and recorded content that can be accessed by others <p>Justification: SIP numbers 7.3.1 and 7.3.2 under Infrastructure, Logistics, and Sustainment</p>
Benefits/ROI	Project Participants/Financial Information
<ul style="list-style-type: none"> • Cost-effective and reliably scheduled project planning efforts • Integration of various shipyard operational departments • Managing scheduling uncertainties • Strategies for successful interactions with regulators • Strategies for waterfront work contracting amongst active shipyard operations 	<p>Project Lead: David Templeton and Michael Whelan PE, Anchor QEA Team Members: Under development / outreach ongoing</p> <p>Duration: 3 Months (Prep, 2-day course, closeout)</p> <p>Program Funds: \$48,000 Cost Share: TBD Public Sector: TBD</p>

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