

# 2016 Estuary Blueprint Final Report 2016-2021

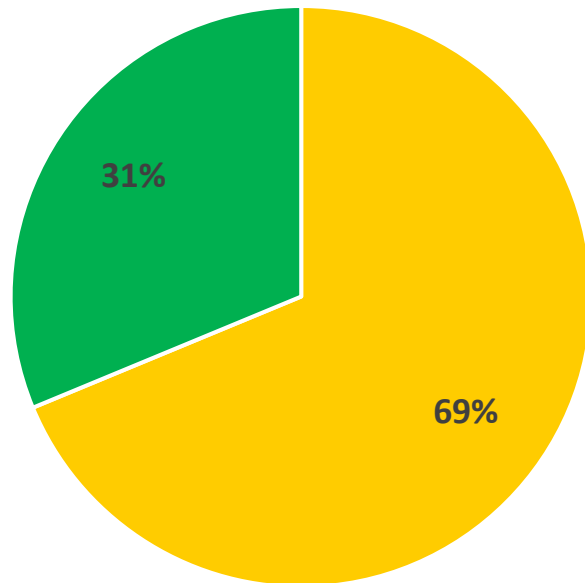


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**ESTUARY PARTNERSHIP**

# 2016 Blueprint - Actions/Tasks Final Status Report

## ACTIONS

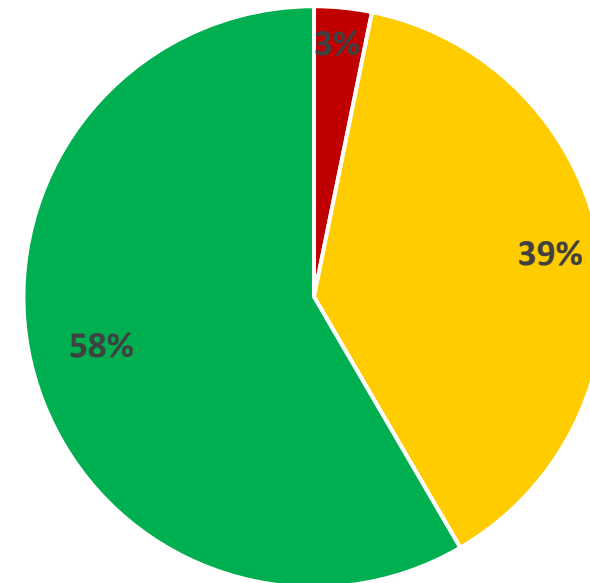
- 32 total Actions – All in progress or complete
- 10 Actions fully completed



■ In Progress ■ Complete

## TASKS

- 125 total Tasks – 121 in progress or complete
- Majority of Tasks fully completed



■ Not Started ■ In Progress ■ Complete



# 2016 ACTIONS - Final Percent Completion

Action	%	Action	%	Action	%	Action	%
Action 1: <u>Implement</u> watershed-scale approach	7	Action 9: Minimize the impact of invasive species	69	Action 17: Improve <u>regulatory processes</u> for climate adaptation	98	Action 25: Address emerging contaminants	100
Action 2: Regional wetland and stream monitoring program	62	Action 10: Increase the efficacy of terrestrial predator management	8	Action 18: Improve freshwater flows	100	Action 26: Decrease raw sewage discharges	79
Action 3: Protect, restore and enhance tidal marsh and tidal flat	30	Action 11: Increase carbon sequestration through wetland restoration	92	Action 19: Develop long-term drought plans	93	Action 27: Implement Total Maximum Daily Load projects	100
Action 4: Identify, protect, and create transition zones	100	Action 12: Restore watershed connections	100	Action 20: Increase agricultural water use efficiency	62	Action 28: Advance nutrient management	100
Action 5: Protect, restore, and enhance intertidal and subtidal habitats	85	Action 13: Manage sediment and advance beneficial reuse	70	Action 21: Reduce water use for landscaping	65	Action 29: Improve monitoring of ocean acidification and hypoxia	100
Action 6: Maximize habitat benefits of managed wetlands and ponds	53	Action 14: Demonstrate how natural habitats and nature-based shoreline infrastructure can provide increased resiliency	70	Action 22: Expand the use of recycled water	63	Action 30: Reduce trash input	43
Action 7: Conserve and enhance riparian and in-stream habitats	45	Action 15: Increase resiliency of shoreline communities	100	Action 23: Integrate water into Plan Bay Area	83	Action 31: Provide Estuary-oriented public access and recreational opportunities	71
Action 8: Protect, restore, and enhance seasonal wetlands	23	Action 16: Integrate natural resource protection into hazard mitigation, response, and recovery planning	38	Action 24: Manage stormwater with low impact development and green infrastructure	100	Action 32: Champion and implement the CCMP	100





# Summary Highlights



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# 2016 Estuary Blueprint- Summary Highlights

## Climate Resilience/Adaptation

- Information/Tools
- Regulatory Policies/Processes
- Regional Planning
- Sediment Management



# 2016 Estuary Blueprint- Summary Highlights

## Climate Resilience/Adaptation

- Project Design and Implementation
  - Resilient by Design Bay Area Challenge
  - Living Shorelines
  - Multi-benefit Flood Control Projects
  - Horizontal Levees/TrUW Initiative



# Summary Highlights

## Habitats

- Transition Zones
  - Bay Inventory complete and Mapping Methodology developed
  - Transition zones included in several tidal restoration projects
- Subtidal/Intertidal
  - Eelgrass: Coverage increased 80 acres
  - Oyster beds: Coverage increased 14 acres
  - Sandy beach, Pacific Rockweed, CA seablight projects completed





# Summary Highlights

## Habitats

- Tidal Marsh
  - Delta: Milestone of 8,000 acres about halfway met, 9,000 acres in construction or planned
  - Bay: Several projects completed, total acreage low (1500 acres) compared to milestone (15,000 acres)
  - Measure AA
  - Wetland carbon sequestration
  - Wetlands Regional Monitoring Program





# Summary Highlights

## Habitats

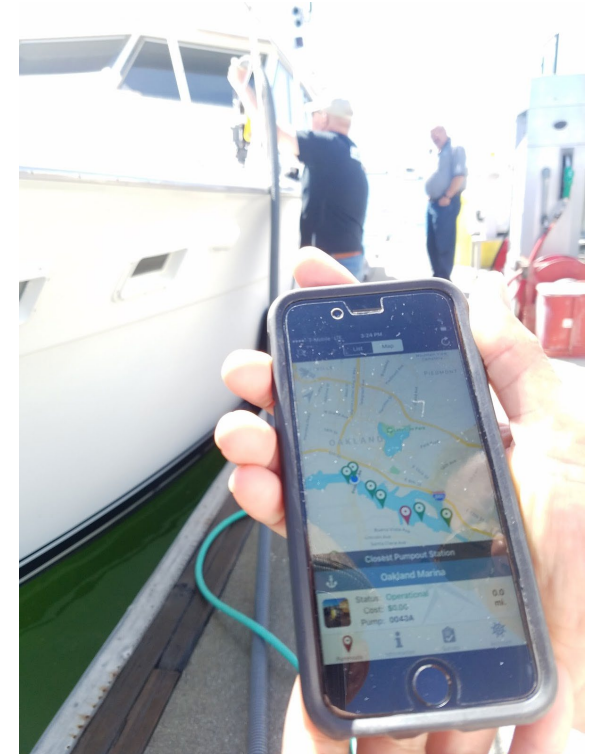
- Riparian
  - Little progress on monitoring, technical guidance, flow enhancement goals
- Seasonal Wetlands
  - Little progress on policy/BMPs tasks
  - Some progress on project implementation



# Summary Highlights

## Water Quality

- CECs
  - Triclosan and triclocarban banned from soap
  - State-wide pharmaceutical take-back program
  - RMP CEC Monitoring Strategy
- Ocean Acidification
  - Science Workshop/Report
  - BOB and MARI
- Raw Sewage
  - Pumpout Nav App





# Summary Highlights

## Water Quality

- TMDL projects implemented
- Nutrient Management
  - Delta Nutrient Research Plan complete
  - DWR Delta nutrients synthesis
  - SF Bay Science Strategy for Nutrients
- Green stormwater management
  - San Pablo Avenue Stormwater Spine
  - GreenPlan-IT
  - Road Map of Funding for Sustainable Streets



# Summary Highlights

## Water Quantity/Water Management

- Long Term Drought Planning
- Recycled Water
- Outreach/Education on freshwater flows

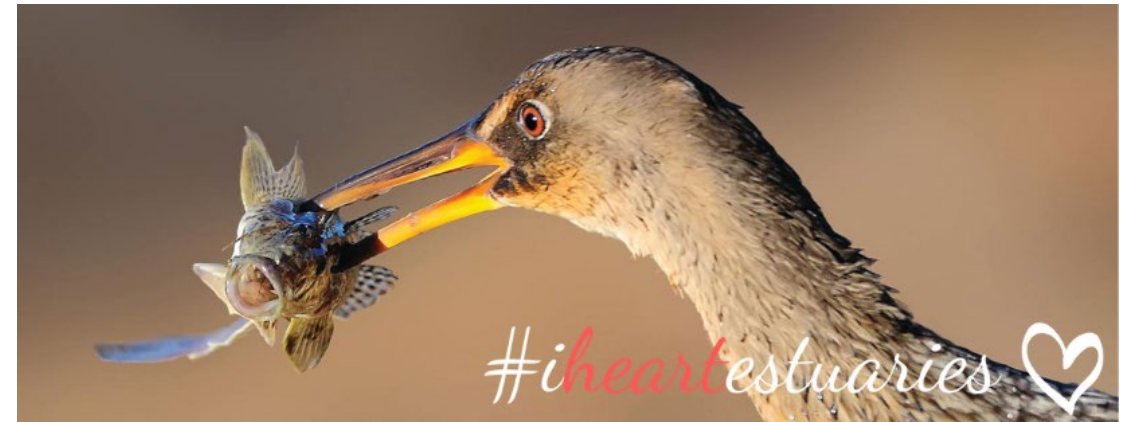




# Summary Highlights

## Outreach, Education, Capacity Building

- 2019 and 2021 State of the Estuary Conferences
- 2016, 2018 and 2020 Bay-Delta Science Conferences
- 2019 State of the Estuary Report
- 20 Issues of Estuary News
- Quarterly Estuary Blueprint Newsletter
- Quarterly Report on Blueprint Progress



# Challenges

- Lack of resources
- Lack of leads
- Ambitious milestones
- Shifting priorities

