WATER QUALITY MONITORING PROGRAM

Program Update for the City Commission

City of Key West, Florida

September 3, 2026 | Evening Session

STANTEC

MEETING OVERVIEW

Today's discussion

01

Water Quality Monitoring Program Scope Overview

02

Successes to Date

03

Remaining Deliverables

04

Next Steps

Water Quality Monitoring Program Scope Overview

Task 0	Resume Key West Harbor Monitoring
Task 1	Review of Existing Data and ID Opportunities
Task 2	ID of Pollutant Mitigation Actions
Task 3	Design of Water Quality Monitoring Programs
Task 4	Increased Availability of Recent Beach Reports
Task 5	Increase Community Knowledge of Beach Data and Trends
Task 6	Assist with Design of a New Beach Water Quality Monitoring Plan

Work Completed to Date

Task 6 Assist with Design of a New Beach Water Quality Monitoring Plan

- Beach Water Quality Monitoring Plan developed and submitted to the City in February 2026
- Scope of Work was included in EPA grant funding proposal and identified innovative technologies
- Plan is ready to guide future beach monitoring through alternate funding source (e.g., 2027 EPA grant)

Task 0 Resume Key West Harbor Monitoring

- Key West Harbor Monitoring Plan developed and submitted to the City in March 2026
- Technical memorandum identifying monitoring alternatives submitted to the City in May 2026
- Amendment 1 allows harbor monitoring through the contract performance period
    - Pending City purchase of monitoring equipment

Task 1 Review of Existing Data and ID Opportunities

- Collected and processed existing data for the geographic area of concern
    - Over 395,000 data points from over 130 locations
- Recently received College of the Florida Keys harbor monitoring data and EPA report

Work to Come

Task 2 ID of Pollutant Mitigation Actions

- Use results of data analysis from Task 1
- Will provide mitigation actions with costs for City implementation for pollutant load reduction

Task 3 Design of Water Quality Monitoring Programs

- Use results of Tasks 1 and 2
- Will provide design of science-based, comprehensive water quality monitoring plan that will comply with Chapter 80 when implemented
- Plan implementation will provide meaningful, data-driven results that can guide future mitigation and management

Task 4 Increased Availability of Recent Beach Reports

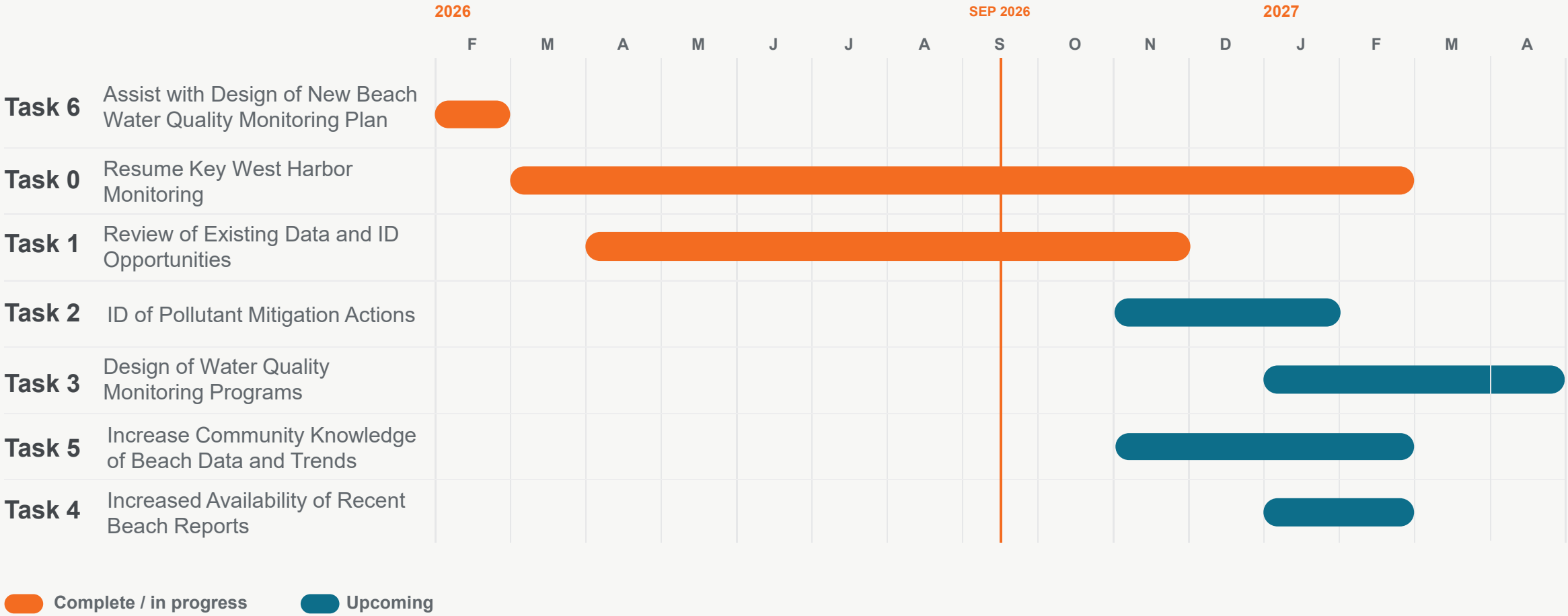
- Funding re-allocated to Task 0 due to seeking of alternate funding source
- Use monitoring plan developed under Task 6
- If funded, sampling would be more frequent and comprehensive than the current strategy

Task 5 Increase Community Knowledge of Beach Data and Trends

- Use results of data analysis from Task 1
- Will provide public communication tools with FDOH beach health results and recommendations

PROGRAM SCHEDULE

Task Timeline

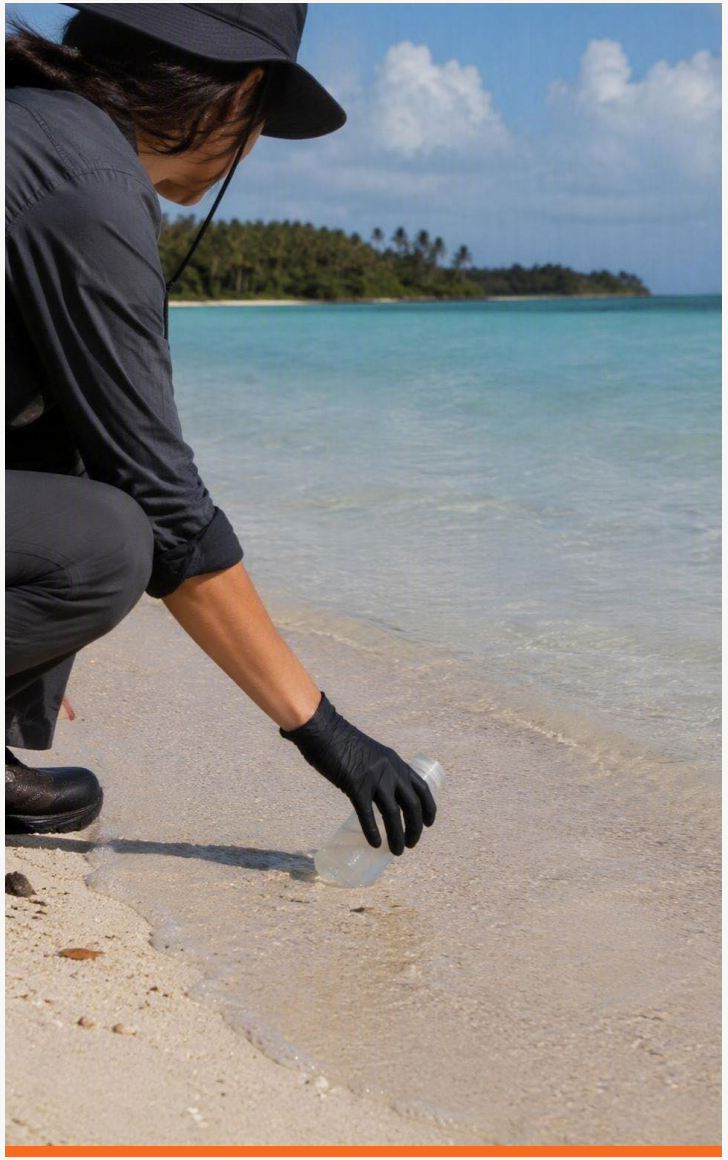


NEXT STEPS

Moving Forward

TASK 0	• Procure monitoring equipment • Perform monitoring through contract performance period
TASK 1	• Complete the data analysis to inform Tasks 2 and 3
TASK 4	• Use remaining funds to enhance proposal for EPA grant funding
REPORTING	• Monthly progress reports shared to keep you informed • Milestone presentations to Commission as tasks are completed

Immediate priority: resume harbor water quality monitoring



Questions / Discussion

Program Scope • Monitoring Readiness • Future Reporting