

Port of San Francisco
RFQ for As-Needed Environmental and Related Professional Services

Appendix A - Scope of Work

This Scope of Work is to be used as a general guide for anticipated services the Port will require under any contract or contracts it enters into as a result of this solicitation. It is not intended to be a complete list of all work necessary in all cases. The services called for under this scope of work shall be performed in accordance with the terms, conditions, and specifications stated herein.

To minimize the potential for a conflict of interest or an unfair competitive advantage, Respondents (including Lead Consultant and all sub-consultants) should be aware that if they enter into a contract with the Port to provide services sought by this RFQ, the Port reserves the right, in its sole discretion, to disqualify them from later serving as a consultant or sub-consultant to others (such as a developer) for the project(s) or site(s) for which the consultant or sub-consultant provided services to the Port. Such relationships must be disclosed to Port staff as the situation arises.

Due to the nature of as-needed services, it is not feasible to define the precise scope of work in advance. Instead, the Port can only indicate the types of professional disciplines and work that might be required. After the Master Agreements have been awarded, CSOs will be issued to consultants based upon the Port's evaluation of all available Consultant Teams' qualifications and technical expertise for the needs of the task or tasks under consideration. Depending upon the project task, the Port may seek proposals from all contracted Consultant Teams to determine the most suitable and available Consultant Team for the task.

Anticipated Services

The types of work and disciplines will likely include the categories listed in the table below. The Port does not guarantee that any or all of the services or disciplines will be required under any of the as-needed contracts. The categories are to be used as a guide only.

MAJOR CATEGORIES OF WORK	MINOR CATEGORIES OF WORK
Site Assessment, Investigation, and Characterization	Climate Change Planning
Environmental Engineering	Environmental Information Management Services/GIS
Environmental Planning & Compliance	Hazardous Materials & Solid Waste Management
Storm Water Management	Green Building Design Services
Industrial Hygiene Services	

Details of these services/disciplines follow.

Site Assessment, Investigation and Characterization

- Research and evaluation of historical documents, agency records, aerial photographs, Sanborn maps and other resources to determine historical land uses, operations and site contamination sources.
- Conduct site sampling of environmental media (soil, sediment, groundwater, soil gas, stormwater, air) and perform physical and chemical laboratory analysis to characterize environmental conditions, delineate nature and extent of environmental impacts, and determine proper handling, storage, treatment, and disposal procedures.
- Prepare San Francisco bay sediment Sampling and Analysis Plans and Sediment Characterization Reports, and obtain Dredge Material Management Office review and approvals.
- Implement sediment sampling and laboratory testing protocols including physical, chemical and biological analyses of sediments in support of dredge material characterization and suitability determinations for disposal and beneficial re-use.

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- Perform land topographic and multi-beam hydrographic surveys and prepare reports.
- Perform environmental site assessments, site investigation, human health and ecological risk assessments and prepare reports.

Environmental Engineering

- Development of environmental site investigations, feasibility studies, and remedial action plans, including remedial alternatives analyses and cost estimates in accordance with state and federal protocols.
- Analyze and report on physical shoreline conditions, including tidal circulation, sediment transport, hydrodynamic, wind-wave, vessel scour and climate impacts.
- Design, operation, and maintenance of wastewater treatment systems for treating sewage, oily wastewater and other wastewater, potentially including monitoring, reporting, and recommendations for system improvements.

Environmental Planning, Permitting, and Compliance

- Preparation of project applications for regulatory agency permits and related studies for upland, shoreside and in-water construction.
- Support Port staff in communications and presentations to local, state and federal regulatory agencies, including permitting, reporting, and responding to information requests. Interactions include but are not limited to the San Francisco Department of Public Health, the San Francisco Planning Department, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, San Francisco Regional Water Quality Control Board, National Marine Fisheries Service, U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, Bay Area Air Quality Management District, and the Bay Conservation and Development Commission.
- Development and implementation of environmental compliance mitigation and monitoring plans and inspection programs, including dust, naturally occurring asbestos, stormwater, biological, underwater and above-ground noise, water quality monitoring, and dredge monitoring and inspection.
- Air emissions evaluation, emissions reduction strategies, and compliance monitoring and reporting, including for the Bay Area Air Quality Management District and California Air Resources Board regulatory programs for maritime facilities and operations.

Storm Water Management

- Stormwater program management, including public outreach and education, illicit discharge investigation and enforcement, construction site management, post-construction stormwater control design, and total maximum daily load and trash reduction.
- Industrial General Permit technical support.

Industrial Hygiene Services

- Environmental health and safety plan preparation and technical review.
- Develop and implement hazardous materials (including lead and asbestos) surveys and prepare written survey results reports.
- Assist in developing hazardous material abatement work plans and contract specifications.
- Provide third-party abatement oversight and monitoring services.

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Climate Change Planning

- Impacts assessment and adaptation planning including: greenhouse gas and carbon footprint evaluation, sea level rise vulnerability and preparedness, and development of adaptive plans and strategies, including feasibility analysis and funding strategies.

Environmental Information Management Services /GIS

- Support of management systems for environmental information, including document control; development, analysis and maintenance of spatial data including data acquisition from field and remote methods; creation and implementation of spatial databases; and integration with existing databases and information systems.

Hazardous Materials & Solid Waste Management

- Provide professional services to specify mitigation and/or remediation measures for minor hazardous materials releases or conditions posing risk of hazardous materials release (e.g. underground storage tank), including containment, removal, disposal site waste profiling, manifesting, transporting and disposal or recycling of hazardous and non-hazardous wastes; as well as providing oversight of contractors performing these activities as requested.
- Facility assessment for compliance assistance and specification of best management practices.

Green Building Design Services

- Evaluation of design and construction plans for new construction, building rehabilitation, and interior renovations for certification by LEED or an equivalent green building standard.
- Provide expertise in application of green building measures to historic buildings.
- Provide expertise in implementation of green building technologies in new construction, building renovation, and operation and maintenance.