

## Summary of Federal Contracting Qualifications

Q&S Engineering is HUB Zone, SDB, and DBE minority owned business dedicated to providing *Quality and Service* (Q&S) in the field of environmental, geotechnical, and oceanographic investigations.

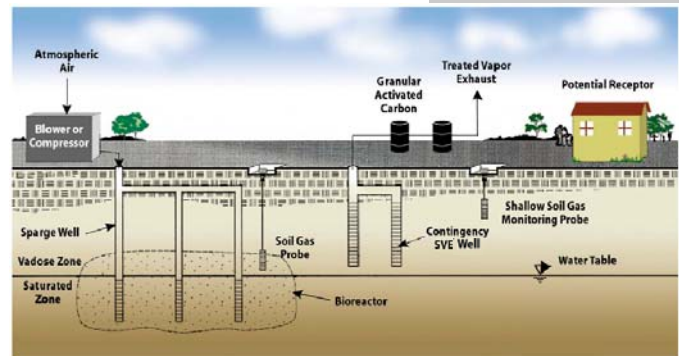
Q&S Engineering (Q&S), was founded in 1999 by Conrad Leslie, REA. Prior to Q&S, Mr. Leslie served as Vice President and direct share holder of an ENR Magazine "TOP 80" engineering firm where he served as Deputy Program Manager on Navy CLEAN managing multiple CTOs.



Q&S is dedicated to providing quality and service to large prime contractors and federal clients. Q&S has a proven track record of meeting quality, schedule and budgetary requirements. Q&S has completed multiple federal task orders and is committed to providing added value in every project.

### Q&S staff includes:

- environmental scientists,
- water quality specialist,
- ecological risk assessor,
- hydrogeologist,
- hazardous waste specialist,
- marine biologist, and
- oceanographer



### Q&S experience within the SWDIV footprint includes:

- |                  |                   |                   |
|------------------|-------------------|-------------------|
| • NAVSTASD,      | • NB Pt Loma,     | • Concord Naval   |
| • NAB Coronado,  | • NB Pt Magu,     | Weapons           |
| • North Island,  | • MCAS El Toro,   | Station,          |
| • Medical Center | • MCAS El Centro, | • NAS Lemoore,    |
| SD,              | • MCAS Tustin,    | • Hawthorne Naval |
| • MCAS Yuma,     | • Palos Verdes    | Ammunition Depot, |
| • NBVC - Point   | Naval Housing,    | • NAS Fallon,     |
| Hueneme,         | • Mare Island     | • Hunters Point   |
| • NAWS China     | Naval Shipyard    | Naval Base        |
| Lake,            | • NAS Alameda,    |                   |



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NAVFAC experience includes:

- ASTs
- Bathymetric surveys / high resolution sonar
- Biological surveys
- Contaminated marine sediment management
- Dredging studies,
- Endangered species
- Environmental compliance (NEPA, CERCLA, RCRA, CWA)
- Environmental oversight during maintenance / construction
- Environmental planning
- Essential Fish Habitat surveys,
- Groundwater investigations
- Groundwater well abandonment
- Groundwater well development
- Hazardous waste / materials management,
- Installation of monitoring wells,
- Marine biology / ecology,
- Multimedia sampling,
- Other Environmental Liabilities (OEL) audits
- Preparation of Proposed Plans for RI/FS
- Preparation of SAPs and HASPs
- Property transfer suitability studies
- Storm water management,
- Storm water sampling
- Vibro-Core sampling,
- Water quality



***But why select Q&S Engineering?***

- Experienced staff and consultants
- Multidisciplinary services
- Familiarity with SWDIV installations
- Federal contract expertise
- Excellent references
- HUB Zone / SDB / DBE certification,
- A commitment to Quality and Service

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## Select Federal Project Experience

### **Monitoring Well Installation, IR Sites 2 and 7, US Naval Station San Diego, CA**

Installation and development of 40 groundwater MWs at various IR sites. Soil and groundwater sampling; geologic logging, MW permitting; health & safety monitoring, and IDW management. Q&S received letter of commendation.



### **Groundwater Sampling, MCAS EI Toro, CA**

Installation of dedicated sampling pumps, micro purging of MWs, collection of GW samples from approximately 35 monitoring wells located at MCAS EI Toro, CA.



### **Groundwater Monitoring Well Abandonment**

Abandonment of approximately 14 groundwater monitoring wells from MCAS Tustin.

### **Sediment Sampling / Contaminated Sediment Disposal Feasibility Study; Naval Base Ventura County; Ventura, CA**

Collection of approximately 45 sediment core samples for characterizing bottom sediments; and preparation of contaminated sediment disposal feasibility report. The samples were analyzed for aquatic toxicity, physical, and chemical parameters. The chemical samples were screened against various guidelines including: EPA Region 9 PRGs, SOGs, ERLs, ERM, AETs, TELs, PELs, SLs, BTs, MLs, STLCs, TTLCs and TCLP. The disposal options included: upland disposal; confined disposal facility (CDF); confined aquatic disposal (CAD); unconfined ocean disposal, cement stabilization / permanent storage at NBVC; beach sand replenishment, temporary storage at NBVC /subsequent disposal at Port of Long Beach (POLB) as fill; and other beneficial uses. Based on the relatively high silt and clay content; the majority of the dredge sediments were not compatible for beach replenishment. Results from the bioassay were compared with reference sediments to evaluate possibility of unconfined ocean disposal. The disposal option was over \$2 million less than a previous US Army Corps recommendation for disposal at a Class I Landfill. Q&S received letter of recommendation



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## Soil, Water, and Sediment Sampling, Naval Command Control and Ocean Surveillance Center (NCCOSC) Morris Dam, IR Site 2, Azusa, CA

Perform drilling and collected soils samples at various locations of IR Site 2. Use small vessels to collect water samples from the reservoir at various locations at 5 foot intervals in depth. Used Vibro-core barge to perform sediment coring and sampling at 9 locations. The project required an innovative approach to assembling and launching the barge since there was no suitable boat ramp in the reservoir.



## Biological Monitoring Services, Palos Verdes Naval Housing OU-1 Landfill; San Pedro, California

Performed biological monitoring services at a landfill in order to evaluate the conditions of the habitat and population of the Palos Verdes Blue butterfly (*Glaucopsyche lygdamus palosverdesensis*). The Palos Verdes Blue (PVB) butterfly is considered among the most endangered butterflies in the United States. *Q&S received letter of commendation*



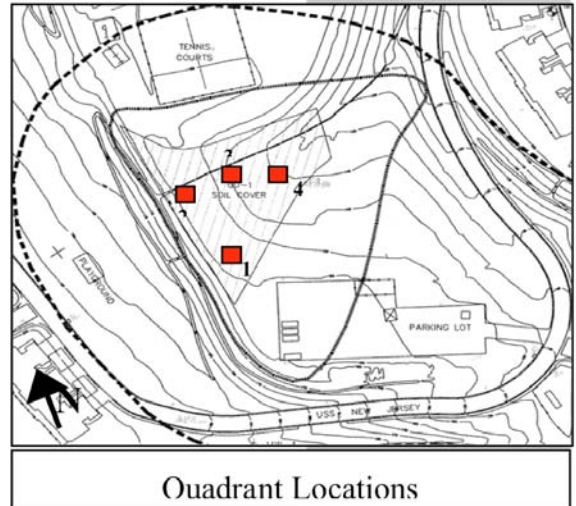
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## Vegetative and Mammals Survey, Palos Verdes Naval Housing; San Pedro, California

Characterization of vegetation and small mammal burrows in the landfill cover area in order to evaluate whether they were compromising the integrity of the engineered soil cover and creating a conduit for contaminants to the under laying aquifer. Q&S received letter of commendation



## Other Environmental Liabilities (OEL) Project, Southwest Naval Division, CA and NV

Performed environmental compliance for the Navy's Southwest region at various installations in CA, AZ and NV. The project required detailed assessment of Navy-owned equipment that may possess an inherent environmental liability and/or associated contingent environmental hazard. Field data was analyzed and cost estimates were created to develop a budget for the Navy to predict potential closure costs and to develop a baseline inventory of equipment. Subsequently provided hazardous materials specialist, environmental geologist, and environmental specialist to assist in the fast track preparation of the regional report.

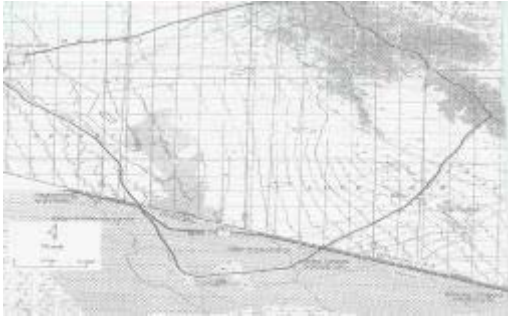


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## Storm Water Management and CWA Compliance, MCAS Yuma, Yuma Arizona



The objective of the project was to determine the potential for storm water discharges from MCAS Yuma Munitions Treatment Range (MTR) to reach Waters of the United States, and confirm the assumption that a NPDES permit was not required. Q&S identified the closest down gradient Water of the United States, evaluated the topography of the basin, mapped surface materials, and the evaluated drainage patterns up gradient and down gradient of the MTR.

Existing detailed USGS topographic maps were not available. Rather than requesting for a change order for aerial detailed mapping, Q&S used USGS National Elevation Data (NED) files to develop a project contour map (innovative money saving approach) for the approximate 80 square mile area using a compilation of 15 seven-mile plots (approx. 200,000 elevation data points each). The resolution on each data set made it possible to identify potential discernable stream paths. Review of the drainage overview indicated that there was not a discernable pathway to Waters of the United States. Discharge from the MTR reached a down gradient desert fan area with high permeability sandy soil. Q&S concluded that storm water discharge from the MTR would not reach Waters of the United States and therefore, a National Pollutant Discharge Elimination System (NPDES) storm water permit was not required (innovative compliance).

Q&S used engineering assumptions and calculations to estimate the infiltration capacity of the down gradient desert fan area. The area required to dissipate the volume of storm water was then calculated based on this infiltration capacity.

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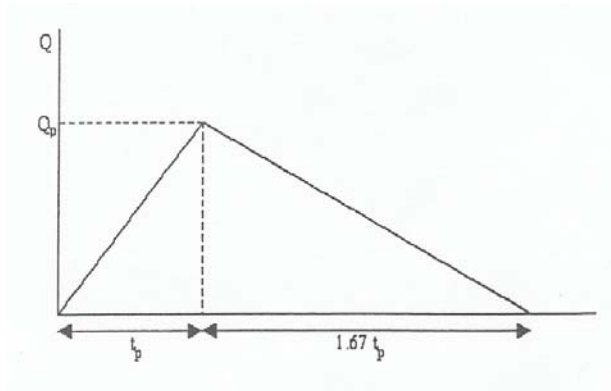
## Storm Water Monitoring / Observations, *Naval Air Station El Centro, CA*

Q&S provided personnel to be available within 24 hours notice of an anticipated rain event with sufficient rainfall to provide storm water runoff within one hour of the start of an identified rain event. After collection of the storm water samples, Q&S submitted the samples directly to an environmental laboratory for testing.



## Hydrologic Study, US MCAS Yuma, Yuma Arizona

Q&S performed a flood plain study for a drainage basin that extended from a parcel within MCAS Yuma into Mexico. Engineering calculations, mapping techniques, and Hydraulic Engineering Center-River Analysis System HEC -RAS modeling were used to survey for the 100-yr flood plain and identify stream paths during the 100-yr storm peak discharge. Based on HEC-RAS modeling, the peak flood discharge from a 100-year storm event ( $Q_p$ ) was estimated. The prime contractor subsequently used this data to develop designs for storm water Best Management Practices that would protect the site.



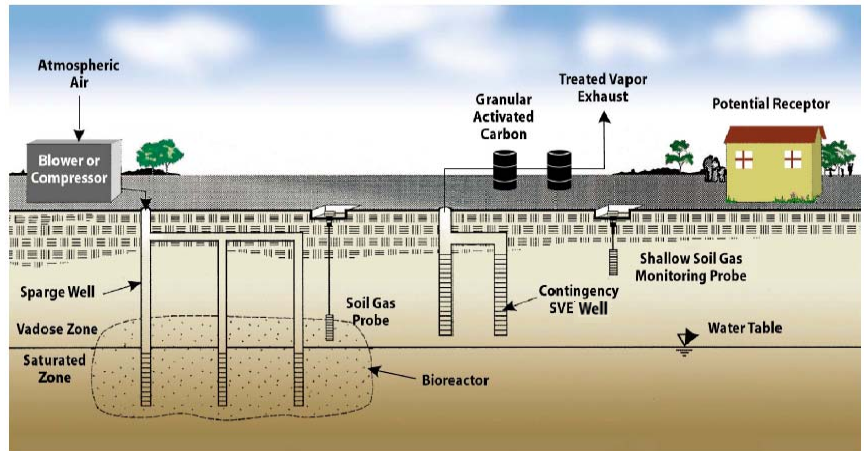
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## Proposed Plan for Operable Unit 5, Alameda Point, CA

A Remedial Investigation/Feasibility Study (RI/FS) for groundwater was completed on former Naval Air Station Alameda (now Alameda Point) Site 25 and Alameda Annex Installation Restoration Site 02. The RI/FS described the results of prior environmental investigations, the cleanup alternatives evaluated for the contaminated groundwater, and the Navy's proposed preferred remedial action alternative to remediate OU-5 groundwater. The Proposed Plan is a brief, generally non-technical summary of the site and the remedial action proposal. The proposed plan provided a summary of the RI/FS and presented supporting information for the Navy's proposed preferred remedial action alternative for the impacted groundwater. Q&S worked with the Alameda Point BRAC Cleanup Team, made up of representatives from the Navy, U.S. Environmental Protection Agency (USEPA), California Environmental Protection Agency Department of Toxic Substances Control (DTSC), and the California Regional Water Quality Control Board (RWQCB).



## AST Removal and Installation: NAB Coronado, Coronado, CA

Provided technical project review in AST installation at NAB Coronado. Duties included review of draft documents, site visits, and review of final documents.



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## Preparation of Pollution Prevention Plan (P2 Plan), Hazardous Waste Management Plan, and Solid Waste Management Plan, Naval Medical Center San Diego

Updated P2 Plan, HWMP, and SWMP. The plans were updated using state and federal regulatory framework for waste management. The plans were inclusive of 32 facilities within the NMC command.



## Hazardous Waste Characterization Study, Naval Medical Center, San Diego

Q&S performed a waste characterization study of the 13 waste streams at the Naval Medical Center. The scope of work included site visits to each process, interviews with staff with knowledge of each waste stream process, collection of MSDS for each of the chemicals the formulate each waste streams, development of process flow information / diagrams, generator history, regulatory classification / determination / or finding, and transport / disposal criteria relevant to the waste streams; and collection of available general information / documentation used to make a determination if the waste stream is hazardous or non hazardous.



## Preparation of Oil, Hazardous Substances, and Spill Prevention Control and Countermeasures (SPCC) Plan, Naval Medical Center, SD

Performed reconnaissance and completed plans as per the applicable state, federal and local requirements for each activity the exceeded the regulatory threshold. The stand alone plans were accumulated into a single source document (*Integrated Contingency Plan*) designed to meet the regulatory requirements of the US Environmental Protection Agency (EPA) Spill Prevention Control and Countermeasure (SPCC) Plan. The plan also addresses the emergency planning, notification, and response actions directed by the Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Emergency Planning and Community Right-to-Know Act (EPCRA) and the Occupational Safety and Health Administration (OSHA). The plan was consistent with the National Contingency Plan (NCP), the San Diego Area Contingency Plan (ACP) and complies with the Oil Pollution Act of 1990 (OPA 90).



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## Essential Fish Habitat Assessment, West Coast Navy Tactical Training Theater Assessment and Planning (TAP) Program, SOCAL EIS

Q&S completed the EFH Assessment for the U.S. Navy SOCAL Range Environmental Impact Statement (EIS). The SOCAL Range Complex is a 120,000 square nautical mile area that includes four southern California Channel Islands. This EFH was one of the most wide-ranging and complex assessments prepared under the new fish habitat conservation requirements for Federal Agencies.

The Sustainable Fisheries Act (SFA) established a new habitat conservation tool: the Essential Fish Habitat (EFH) mandate. The SFA requires that EFH be identified and mapped for each species covered under Fishery Management Plans. An Essential Fish Habitat Assessment, required for actions and activities in coastal waters with potential impacts to EFH, includes a description of the proposed action, an analysis of the effects of the action on EFH, and proposed mitigation, if applicable.



## Essential Fish Habitat Assessment, East Coast Navy TAP Program, EIS Support / EFH

Q&S completed EIS support work at 3 east coast range complexes. The assessment of the impact of Navy training on "Essential Fish Habitat" (EFH) covered regulatory issues, fishery management plans and Managed Species, the project area, proposed actions, impacts, and mitigation measures. East coast NAVFAC experience includes:

- Cherry Point Range Complex, North Carolina;
- Jacksonville Range Complex, Florida;
- Virginia Capes Range Complex, Virginia



### About Our Organization...

*Q&S was founded in 1999, as a (HUB Zone / SDB / DBE) that provides added value / resources of a large firm, and flexibility / cost effectiveness of a small business. Q&S is dedicated to providing Quality and Service (Q&S) in the environmental, geotechnical, and oceanographic fields. Our definition of Quality is deliverables that meet or exceed expectations. Our definition of Service are deliverables that are provided on schedule, safely, and within the agreed upon budget.*

*Q&S staff include: environmental scientists, engineers, geologists, hydrogeologists, hazardous waste specialist, terrestrial biologist, marine ecologist, risk assessor, coastal engineer, oceanographer, and marine surveyor. Most have advanced degrees, and all have US Navy and international experience.*

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