



STATEMENT OF QUALIFICATIONS

PROTEUS Consulting is a boutique consulting firm that catalyzes the synergy between Water, Energy, Information Technology, Economics, and Communication sectors. We exist to bring about metamorphosis in the Water Industry. With versatile and high quality solutions, we facilitate the transformation of business-as-usual to high-energy and productive environment. We are known for our creativity and problem-solving skills, and our clients appreciate the individual attention this small, flexible firm is able to provide.

The Water Industry is at the threshold of a radical transformation. We help our clients undergo that change systematically by removing barriers and releasing the pressure, while enhancing the metamorphosis through cross-discipline flow of innovative ideas and strategies.

With climate change and population growth, design and management of water infrastructure is getting in increasingly complex. PROTEUS Consulting provides unique hands-on background and insight into planning, design and implementation of water, waste water and recycled water solutions.

We see water in context. Our solutions are fresh, innovative, fit-for-purpose and balanced.

PROTEUS Consulting is a minority and woman-owned, small disadvantaged micro-business.

CONTACT INFORMATION

CEO:	Soma Bhadra, P.E.	Skype:	consultproteus
Email:	soma@consult-proteus.com	Facebook:	PROTEUS Consulting
Phone:	+1 858 353 2805	Twitter:	consultproteus
Website:	www.consult-proteus.com		

WATER+ENGINEERING

Our success stems from our ability to quickly and effectively understand the unique physical, cultural, and economic opportunities of each assignment. We specialize in building creative solutions that honor each project's distinct features and are committed to integrating design, engineering, and community in a manner that creates value and conserves resources – human and material capital.

- Traditional Engineering
 - Research and Reports – research advanced and innovative technologies and deliver an analytical report highlighting applicability, cost-benefit analysis, and constructability review
 - Alternatives Development & Evaluation
 - Preliminary Design
 - Project Implementation Plans
 - Instrumentation and SCADA Design

-
- Construction Plans, Specifications, and Estimates
 - Budget and Schedule Management
 - Bid Phase Assistance
 - Shop Drawing Submittal Review
 - Field Engineering, Construction Inspection
 - Training for engineering, operations, and maintenance staff
 - Commissioning assistance
 - Regulatory Compliance
 - NPDES / WDR Permit Applications
 - Title 22 Engineering Reports
 - Water Recycling Permit Applications
 - Groundwater Recharge Permits
 - State and Federal Regulatory Approvals
 - California DPH Regulatory Approvals
 - Permit Management Plans
 - Regulatory Compliance Reports, Annual Reports
 - Design-Build Services
 - Engineering lead for contractor led DB teams furnishing design for all disciplines
 - Consultant for design firms to develop the DB program by creating a customized Project Delivery Model
 - Owner's Representative for clients interested in setting up DB contracts per industry standards
 - Assist DB consortiums to set up compatible project teams – Design, Procurement, Document Control, Quality, Construction, Commissioning, and, Handover

PROJECTS

INFLUENT LIFT STATION, HALE AVENUE RESOURCE RECOVERY FACILITY (HARRF), CITY OF ESCONDIDO, CA.

Proteus Consulting is the Engineering partner for the TC Construction Design-Build project with the following scope of work at the influent structure of HARRF: (1) Demolition of existing facilities and equipment including structural, mechanical, and electrical components; (2) Mechanical improvements to the existing pump station; (3) Slide gates replacement; (4) Construct bypass channel, weir wall and install multi rake screen; (5) Construct temporary vector dump station; (6) Structural improvements to the existing pump station building and underground structure; (7) Construct new screenings building; (8) Construct an electrical overcrossing; (9) Improvements and modifications to various pipelines throughout the site; (10) Electrical improvement including new electrical building, electrical components, and all associated controls systems; (8) Concrete flow structure; (9) Odor control facility including structural, mechanical, ductwork, and electrical systems; and (10) Noise attenuation enclosure system.

Updated 2/10/2013



CONSULTING SERVICES FOR OPERATIONS OPTIMIZATION, CITY OF SAN DIEGO, CA.

Proteus Consulting is a valued team member for the Operations Optimization project led by CH2M Hill and Brown & Caldwell. The scope of the project includes a thorough review and evaluation of City of San Diego's Public Utilities Department's existing facilities, operations and business processes to determine where improvements in operational efficiencies and/or cost savings or revenue improvement can be made in the areas of energy utilization, water production and distribution, chemical usage, data utilization, wastewater sludge processing and disposal, operator staffing, and warehouse practices and procedures.

WASTEWATER TREATMENT PLANT OPTIMIZATION AT MCAGCC, 29 PALMS, CA.

Proteus Consulting teamed with Potomac Hudson Engineering (PHE) / Michael Baker Corporation to optimize the wastewater treatment plant at the Marine Corps Air Ground Combat Center at 29 Palms, CA. The Combat Center operates a 1.5 million gallon per day (MGD) Wastewater Treatment Plant (WWTP) that treats both domestic and industrial wastewater. In addition to protecting human health and a fragile desert environment, the WWTP produces reclaimed wastewater that is used for landscape irrigation aboard the Combat Center. The WWTP is a mission-critical facility whose continued operation is essential to the long-term function of the Combat Center as the Marine Corps' only desert training facility. Given the current DOD budget climate, it is highly unlikely that funding for replacement of the WWTP will be available in the foreseeable future. Therefore, it is essential that the WWTP be operated and maintained in a manner that maximizes its lifespan; ensuring reclaimed water is available and utilized efficiently. Proteus Consulting will undertake a detailed study to optimize the operations at the plant including operations, water use, and energy.

CITY OF SAN DIEGO AS-NEEDED ENGINEERING SERVICES FOR ASBESTOS CEMENT WATER MAIN REPLACEMENT PROGRAM MASTER PLAN, CA

PROTEUS Consulting has teamed with Arcadis/Pirnie team to provide Permitting/Safety Procedures services including the preparation of work plans from a safety/OSHA perspective. We estimate the percentage of work/participation by our firm will be approximately 1%, but understand that the actual percentage will be defined during contract negotiations. Through this project the City intends to develop a system-wide Asbestos Cement (AC) pipeline replacement program master plan. The contract will be for a projected two-year period. The scope of services for this \$2 million contract includes assessment of over 2,100 miles of AC water mains with varying diameters.

CITY OF SAN DIEGO AS-NEEDED ENGINEERING SERVICES, CA

PROTEUS Consulting has teamed with Brown & Caldwell for a three-year \$5 million contract to provide as-needed engineering services to the City of San Diego. The scope of work for PROTEUS Consulting includes (1) Water, Wastewater, and Recycled Water Engineering (portions of): Design water, sewer, and recycled water systems, Review and/or perform specific hydraulic analysis, Provide value engineering services as a third party review of proposed water, wastewater, and recycled water projects, Perform condition assessment of water, wastewater, and recycled water pipelines including raw, recycled and potable water transmission pipelines, trunk sewers and force mains, Assess water quality in source water reservoirs, including reservoir nutrient budgets, oxygen

Updated 2/10/2013

depletion, sediment nutrients, and oxygen demand; and prepare feasibility designs for oxygenation systems, circulations systems, and other in reservoir remediation methods, and Provide field inspection/monitoring services; (2) Environmental Services (portions of): Provide expert support services in environmental compliance including permitting, and grants; (3) Secondary Treatment Processes (portions of): Provide experience in Secondary Treatment processes and Pilot Study design and implementation; and (4) Commercial, Industrial & Institutional (CII) Water Conservation Surveys/Audits: Provide water audit services for CII customers to assist them in evaluating their onsite water use and developing a water efficiency program to optimize water usage and savings by identifying potential water reduction alternatives.

CITY OF OCEANSIDE ON-CALL WATER AND WASTEWATER ENGINEERING SERVICES, CA

PROTEUS Consulting has been awarded the water and wastewater engineering on-call professional services contract by the City of Oceanside for fiscal year 2012 – 2013. The scope of work for PROTEUS Consulting includes design of water, sewer, and recycled water systems including hydraulic analysis, design and development of plans, specifications and cost estimates, as well as on-call permitting and grant writing services.

HAYMAR AVENUE DISCHARGE TECHNICAL REPORT AND RESPONSE, CITY OF OCEANSIDE, CA.

Proteus Consulting assisted the City of Oceanside to prepare a formal response to Investigative Order No. R9-2011-0035 issued by the California Regional Water Quality Control Board, San Diego Region, to the City of Oceanside. The response letter and accompanying 1,200+ page Technical Report furnished all the requested information on the nature, circumstances, extent, and impacts related to the discharge of untreated sewage to Buena Vista Creek, Buena Vista Lagoon and the Pacific Ocean from a 15-inch gravity sewer line near North Haymar Drive from December 23 – 28, 2010. This discharge occurred when an existing 50+ year old VCP pipeline failed during a heavy storm event. While relocation plans for this critical pipeline was ready for implementation for over four years, the project was unfortunately held up in the permitting process.

AQUIFER STUDY AND PRELIMINARY DESIGN AT MCAGCC, 29 PALMS, CA.

Proteus Consulting teamed with Rore Inc. to conduct a hydrogeological/aquifer study and engineering feasibility study for potable water supply at the Marine Corps Air Ground Combat Center at 29 Palms, CA. The project included a detailed review of the aquifer and groundwater well field design, demarcation of the aquifer boundaries and water quality profile, followed by preliminary design of water storage, blending facility/treatment, and water delivery infrastructure. Proteus Consulting evaluated feasible blending alternatives from varied groundwater sources to meet potable water quality objectives. This involved the conceptual design of water storage tanks, including number, size, and location, mechanical blending process configurations, and treatment options.

WASTEWATER TREATMENT ALTERNATIVE STUDY, SERE CAMP, SAN DIEGO, CA.

Proteus Consulting teamed with Thomas/Wright, Inc. to conduct a preliminary engineering study for the wastewater treatment options at the Survival, Evasion, Resistance, and Escape (SERE) training



facility at the U.S. Navy's Training Site in Warner Springs, CA located in the Cleveland National Forest. It is in a remote area near the community of Warner Springs in the northeastern San Diego County, at an elevation of about 3,200 feet. The Camp consists of a headquarters area with an administrative building, several staff barracks building, a wastewater treatment plant, and a training compound. All west coast Navy/Marine Corps personnel who risk capture during wartime (e.g. aviators) undergo SERE training at this facility. The Warner Springs SERE Facility covers 6,100 acres and trains over 1,500 students each year.

The project included a detailed review of the existing treatment plant, followed by preliminary design of proposed new facilities/ upgrades. Proteus Consulting evaluated feasible alternatives to ensure that the new plant will consistently meet the NPDES permit.

CROSS CONNECTION CONTROL REGULATIONS UPDATE, RINCON DEL DIABLO MWD , CA.

Proteus Consulting is reviewing and updating the cross-control regulations for Rincon del Diablo Municipal Water District. This includes a clear definition of the scope of work performed by the District, by developers, and by homeowners.

MT. ISRAEL PIPELINE REPLACEMENT, OLIVENHAIN MUNICIPAL WATER DISTRICT, CARLSBAD, CA.

Proteus Consulting has completed a project with OMWD for the replacement of approximately 1,400 lineal feet of 8-inch potable water pipeline and appurtenances on Mt. Israel Road. The key elements included location of the main in County road and right-of-way, easement analysis, design of pipeline in rock, traffic issues, and community assurance.

RANCHO LA CIMA/ALISO CANYON PIPELINE RELOCATION, OLIVENHAIN MUNICIPAL WATER DISTRICT, CARLSBAD, CA.

Proteus Consulting has completed the design of relocation of an 8-inch PVC water pipeline at the intersection of Aliso Canyon Road and Rancho La Cima for OMWD. This relocation was necessary due to a conflict with the proposed new 60-inch County storm water pipeline along Aliso Canyon Road. The intent of this project was to lower the current water main to clear the proposed storm drain.

SEWER PUMP STATION DESIGN FOR LOT 7, TRACT 4805.

Proteus Consulting teamed with Sol Engineering to design a packaged sewer pump station to handle the wastewater from a large luxury house situated on the side of a hill and deliver the wastewater along the slope to a manhole situated approximately 500 feet higher. The design involved preparation of plans and specifications and approval by the County.

BUSINESS INFORMATION

Structure: S Corporation
Established: October, 2010
ORCA/DUNS: 831677229
EIN: 90-0614930

Updated 2/10/2013



STATEMENT OF QUALIFICATIONS

www.consult-proteus.com

soma@consult-proteus.com

+1 858 353 2805

NAICS: 541330, 541340, 541490, 541611, 541618, 541620, 541690, 541990, 611430, 221310, 221320,
PSC: AD24, AD26, AH34, AH35
FSC: 4601, 4620, 4630, 7030, 7435
SIC: 1623, 1629, 1781, 4941, 4952, 4953, 4959, 4971, 4619, 7389, 8299, 8711, 8712, 8741, 8742, 8744, 8748
NIGP: 91820, 91831, 91832, 91835, 91838, 91842, 91843, 91846, 91875, 91887, 91888, 91890, 91897, 92517, 92524, 92528, 92533, 92535, 92538, 92544, 92555, 92567, 92570, 92583, 92587, 92596, 92597, 95816, 95826, 96110, 96156, 96161, 96896

CERTIFICATIONS

Small Business Enterprise – Port of Long Beach, San Diego County Water Authority, San Diego Association of Governments (SANDAG) Architecture and Engineering (A & E) Small Business “Bench” (#103011)

Small Local Business Enterprise (SLBE & ELBE) – City of San Diego (#12PC0555)

Small Business (Micro) – California Department of General Services (#1417140)

Woman and Minority Owned Business Enterprise (WMBE) – California Public Utilities Commission (CPUC) (VON 10100168)

Emerging Business Enterprise (EBE) – Office of Small Business & Disabled Veteran Business Enterprise Services, City of Los Angeles

Disadvantaged Business Enterprise (DBE) – California Unified Certification Program (CUCP) - pending approval

Small Disadvantaged Business – Small Business Administration (Self certified)

Minority Owned – Small Business Administration (Self certified)

Woman Owned – Small Business Administration (Self certified)

Updated 2/10/2013