

The logo consists of two concentric, stylized crescent shapes. The outer one is light blue and the inner one is a vibrant green. They are positioned behind the company name.

EnviroSwell

ENGINEERING SOLUTIONS

PREPARED FOR:

STATE, COUNTIES AND PRIVATE SECTORS

RAMZI I. MANSOUR, P.E. PRESIDENT & CEO www.EnviroSwell.com

**PRESIDENT & CEO
www.EnviroSwell.com**



EnviroSwell, Inc.

As a Hawai'i-based firm with offices in Kailua-Kona, our practice is rooted in environmental engineering, planning, and infrastructure solutions, bringing an innovative, multi-disciplinary approach to the State's evolving transportation needs.

Prior to our firm's founding at the conclusion of 2024, we had notched over 40 years experience serving both public and private sectors across the Hawaiian Islands and the State of California. EnviroSwell understands the complexities of delivering planning services that meet Federal and State requirements while incorporating sustainable, resilient, and community-centric practices. Our team is equipped to respond rapidly, work collaboratively across agencies, and apply emerging technologies such as digital twins, AI-assisted environmental documentation, UAV-based surveying, and AR visualization to streamline and enhance the planning process.

We appreciate the opportunity to continue contributing to Hawai'i's infrastructure development and are committed to supporting HDOT's goals throughout the duration of this contract. We look forward to the opportunity to discuss how our team can support your objectives in delivering safe, efficient , and future-ready transportation solutions statewide.

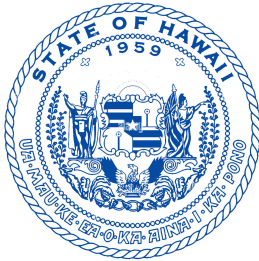
Thank you for considering Enviroswell. Should you require any additional information, please feel free
Sincerely,

//S//

Ramsey I. Mansour
Principal Engineer EnviroSwell. Inc.
+1 (661) 203-1933

W - ramzim@enviroswellsolutions.com P- mansour23@sbcglobal.net www.EnviroSwell.com

1. EXPERIENCE, QUALIFICATIONS AND MANAGEMENT STRUCTURE



Project Manager:

Ramzi I. Mansour, PE
Principal, EnviroSwell, Inc.

**W/ Professional Support
Services Team**

Subconsultant:

BRYAN CHILDRESS, PE,
Principal, the Wallace Group

**w/ Planning & Environmental
Design Team**

RAMZI I. MANSOUR, PE



With more than 40 yrs of unparalleled professional experience in both the private and public sectors, Ramzi specializes in the planning, design, construction, operations, and maintenance of complex infrastructure projects. He has a proven record of bridging public-private partnerships, serving as a trusted liaison in regulatory compliance and policy development. He is an expert in delivering innovative, value-engineered, and sustainable solutions, consistently achieving on-time project completions *while driving cost savings in the range of tens of millions to hundreds of millions of dollars.*

BRYAN CHILDRESS, PE



Bryan is a California and Hawaii-licensed civil engineer-in-responsible charge who is a leader at the award-winning interdisciplinary team of civil and transportation engineering experts at the Wallace Group. Proudly recognized for consistently planning, designing and delivering *beautiful multimodal projects that improve vital circulation, enhances user safety and provides expanded access for pedestrians, bicyclists and transit while reducing congestion and delay.* Bringing meticulous technical capacity for complex projects involving significant utility coordination, geotechnical investigations, traffic operations analysis, corridor studies, visual simulations, aesthetics & landscape architecture treatments, water quality & hydraulics, environmental review, interagency coordination, PM/CM and gorgeous, sustainable transportation infrastructure.



East Boronda Road Corridor Congestion Relief Project
Salinas, CA



Golden Hill Road/Union Road Roundabout
Paso Robles, CA



City of Goleta Los Carneros and Calle Real Roundabout
Goleta, CA



City of Paso Robles Pine Street Long-Term Parking
Paso Robles, CA



US 101/Betteravia Interchange Improvements
Santa Maria, CA



US 101/Avila Beach Drive Interchange Improvement Project
Avila Beach, CA



13th Street Streetscape Enhancement
Paso Robles, CA



Buckley Road Extension
San Luis Obispo, CA

2. PAST PROJECTS of Prime Consultant: HIGHWAYS

Kapu'e Stream Bridge 10 Suspended Gravity Sewer Main Emergency Replacement, Hilo, HI. As Director of Environmental Management, Principal Ramzi Mansour and team worked closely with HDOT on the emergency repair of the public sewer line network at Papa'ikou, South Hilo.

Fairfax Road Bridge at Edison Hwy, Kern County, CA. Construction management of this major project. This was a challenge due to the superelevation and vertical/horizontal curves located throughout the bridge layout. Successfully, and within low tolerances, Ramzi sat the survey grades and elevations for the contractor to place the columns and the deck of the bridge to grade during the falsework and final build stages. Modified the abutment and the bearing design to accommodate for a better outcome.

Railroad Crossing at Edison HWY and Bena Rd, Kern County, CA. This crossing brought challenges to our designers and surveyors given the location and the grades. Ramzi designed, stake and managed the construction on site and "it was a success."

Wastewater, Landfills & General Civil

COUNTY OF HAWAII

*Reference: Mr. Mitch Roth, Former Mayor
808-989-0385*

Hilo Wastewater Treatment Plant Planning, environmental, permitting, design and construction documents. The Hilo WWTP was built in the early 90s and was under violations from the DOH and EPA. Directed the negotiation to settle violations with the issuance of Administration Order On Consent (AOC) which allowed the county to comply by re-designing the facility in multiple phases. Ramzi Mansour, P.E. was able to lead this project from conception to completion in less than one year, successfully awarding the contract for approx. \$370m.HDOH

Kealahou WWTP Permitting, legal issues and litigation, R-1 upgrade, site improvements. This facility is partial-mix aerated lagoons and is designed for approx. 6 MGD and is receiving 2 MGD. It is discharging to a percolation basin which makes its way to the ocean. This was also under EPA and DOH compliance order and an AOC was negotiated for facility upgrades of multiple components including the headworks, odor control and the septage receiver, in addition to the R-1 sand filter upgrade.

Facility Condition Assessments to determine the status and current facilities conditions and propose projects to upgrade needed improvements.

Cesspool Conversion Master Plan. Directed a countywide study to address the cesspool issue and the DOH requirement of conversion to Septic tanks or wastewater systems. This was a major study that placed the COH on the frontline in the State to strategize and obtain funding for the scale of the challenge since the COH currently is the the largest county with over 50,000 cesspools in the State.

Countywide Integrated Wastewater Management Plans. Directed the study and the generation of the IWWMPs to allow the county to have a clear road map of how to manage and allocate capital projects over the coming 10 year forecast.

Financial Facilities Planning Created 10 yr forecast with expenditure projection of grant, loans and GBO.

Pahala & Na'alehu Wastewater Treatment Plants. Directed and negotiated federal AOCs with EPA to convert these plantation community gang cesspools to secondary wastewater treatment facilities. Led the planning, environmental, permitting, design and construction documents.

CITY AND COUNTY OF HONOLULU

*Reference: Mr. Mike O'Keefe, Deputy Director of
Environmental Services 808-768-3486*

Sand Island Secondary WWTP Pre-final design construction documents evaluation. The CCH was under Consent Decree from EPA and DOH to convert the Sand Island Facility from primary

treatment to a secondary treatment. The plans were about 30% complete and Ramzi directed the design and completion of the construction documents of this \$500m project.

Honouliuli WWTP Improvements. Directed the wastewater treatment and disposal operations of this facility which also was under consent decree by the EPA and DOH. Performed value engineering and managed construction of the secondary treatment process, which was in progress. Was able to eliminate major projects and expenditures by improving process engineering and component operations.

Kailua Digesters Improvement. Converted the floating cover to a fixed cover.

Forensic Investigations and Consent Decree on non-compliances and violations.

HART value engineering of utilities relocations.

Plastic Foodware Ban implementation.

KERN COUNTY, CALIFORNIA

Reference: Mr. Doug Landon, Former Director of Waste Management 661-742-3071

Bena Sanitary Landfill (SLF) Development. Served as design and construction engineer overseeing the the Bena Road Landfill, the scales and gate fee stations. Generated plans, construction documents for clay, 40 FML, Access Road, Water System, Scales, Gatehouses, Recycling area, Water Storage Reservoir, excavations of tens of millions of cubic yards, leachate system, SLF gas system, and drainage diversions system.

SLFs at Mojave/Rosamond, Tehachapi, Boron, Ridgecrest, and Shafter/Wasco, CA Designed permitted and constructed SLFs in accordance with Subtitle D requirements w/ GCL design. Landfill access roads, water systems and gatehouses with scales. Major hydrology studies with designing, permitting and construction of stormwater drainage diversions around the landfills. Railroad crossings.

Mount Vernon and California Ave. Sewer trunk line horizontal boring and manholes coating and replacements.

Bena Water System. Design and construct new water well to provide 800 gpm with two large storage tanks 1 MG. The terrain was difficult, and finding the required GPM was challenging but after multiple efforts and design changes the well was developed.

Designed 18 SLF gate houses. Prepared architectural, civil, electrical and mechanical plans, construction management.

Remediation of 154 Burn Dump Sites.

Recycling Facilities, oil recycling receiving stations, hazardous waste receiving lockers.

Projects in Lamont and Taft, CA. Road design/constructions, resurfacing, curbs/gutters, water and sewer pipes. Storm drain improvements with catch basins, sumps, and CMPs. Biolac Wastewater Facility and septage receiving facility for RVs.

Lebec Sanitary Landfill Closure. Utilizing Ramzi Mansour's own world renowned research to implement novel closure cover using geosynthetic clayliner with hydro-mulching vegetation. Design and construction of a solid waste transfer station, gate house, scale, water, electrical and sewer services, Lebec Access Rd, 404 permit modifications, and major drainage structures.

Arvin Highway design and construction of safety turn lanes in compliance w/ AASHTO. SLF expansions, ET final cover system with major drainage structures, access road, inbound and outbound scales, habitat fencing for endangered kangaroo mice, Burn Dump closure and adaptive reuse for airplanes. Major storm drain facilities to divert 100-year events within the flood zone. Remediated 1000s of yards of petroleum-contaminated soil.

SLF Clean Closures for Glennville, Kern Valley and China Grade/Bakersfield, CA. Restoration of sites, buildings and transfer stations. Major drainage scouring projects to divert and control a river of 100-year storm event of approx. 4000 cfs with proper check dams and energy dissipaters.

Green Acres, CA. Design/construct 7 miles of sewer force mains with pump stations connected to KSA WWTP.

3. CAPACITY TO ACCOMPLISH THE WORK

At the present time, EnviroSwell, Inc. and our sub consultants, the Wallace Group, are yet to be engaged on any HDOT projects. We are full capacity available.

4. INNOVATION METHODS & ALTERNATIVE CONCEPTS

Introduction

EnviroSwell is pleased to submit this proposal for General Planning Engineering Services to the State of Hawai'i Department of Transportation (HDOT), Planning Branch. With our lifelong commitment to sustainable infrastructure, resilient design, and regulatory excellence, EnviroSwell offers the agility and breadth of expertise to deliver high-quality planning engineering services on an as-needed basis for State and Federal-aid projects.

Our multidisciplinary team and partners blend technical proficiency with strategic foresight, enabling us to respond quickly to shifting project priorities, emerging community needs, and evolving regulatory landscapes across the state.

Understanding of Scope & Requirements

EnviroSwell understands as contractor and consultant, we shall:

- Provide a full spectrum of planning engineering services on an as-required basis.
- Be prepared to respond to project assignments and scope discussions within 48 hours.
- Assist in the development of corridor studies, NEPA/HEPA documentation, PS&Es, and provide technical services including surveying, geotechnical, traffic, landscaping, and construction-phase design support.
- Ensure compliance with all applicable State, Federal, and AASHTO design standards.

We also understand the indefinite delivery/indefinite quantity (IDIQ) nature of the contract, the \$5 million ceiling, and the 5-year term.

Challenges and Mitigation Strategies

1. Rapid Response Timeframes

Challenge: Multiple project assignments within short timeframes.

Approach: EnviroSwell maintains a scalable team model with pre-allocated staff for rapid deployment. We will be utilizing cloud-based project management tools to immediately mobilize and collaborate in real-time with the STATE.

2. Geographic Disparity & Statewide Coordination

Challenge: Coordinating projects across islands and jurisdictions.

Approach: We will be utilizing GIS-based mapping, remote sensing technologies, and local partner networks across counties to reduce delays and improve field investigation efficiency.

3. Integration of Complex Regulatory Requirements

Challenge: Ensuring compliance with AASHTO, ADA, NEPA, HEPA, and local mandates.

Approach: Our regulatory specialists use AI-supported review systems to cross-check

designs against applicable criteria and streamline environmental documentation workflows.

Innovations and Creativity to be utilized if compatible with the State system

- Digital Twin Integration: Simulate future use scenarios, traffic flows, and environmental impacts.
- Parametric Design Tools: Fast-turnaround Product, Simulation, and Engineering, (PS&E) packages with built-in design flexibility.
- AI-Assisted Environmental Documentation: Streamlined NEPA/HEPA document drafting.
- Smart Surveying: UAV-based LiDAR and photogrammetry for efficient field assessments.

Emerging Technologies to be considered

- IoT-Enabled Traffic Monitoring
- Augmented Reality (AR) Visualization
- Cloud-Based Data Management

Commitment to Quality & Compliance

We rigorously follow the latest editions of:

- AASHTO's Policy on Geometric Design of Highways and Streets
- Hawaii Statewide Uniform Design Manual for Streets and Highways
- AASHTO's Roadway Lighting Design Guide
- ADA Accessibility Guidelines

All planning, design, and support services will be performed to meet or exceed HDOT standards and good engineering judgment. Our internal QA/QC process includes three-stage peer review and automated clash detection to ensure quality and accuracy.

Team Structure and Availability

EnviroSwell maintains a dedicated partners for planning and engineering team that includes civil, traffic, structural, and environmental engineers, as well as certified surveyors and GIS professionals. Our team is committed to a 48-hour turnaround for initial project scoping and will maintain active communication channels throughout the contract term.

Conclusion

EnviroSwell is uniquely positioned to support HDOT through a combination of technical excellence, responsiveness, innovation, and a deep understanding of Hawai'i's infrastructure needs. We are committed to delivering planning engineering services that not only meet baseline requirements, but drive efficiency, resilience, and sustainability across the transportation network statewide. We welcome the opportunity to support the State on this critical five-year initiative and are ready to begin mobilization immediately upon notice to proceed.

Appendix: RESUMES

RAMZI MANSOUR, P.E.

ramzi@enviroswell.com
mansour23@sbcglobal.net
Cell: 661-203-1933

Education & Certifications:

- Bachelor of Science degree in Civil Engineering, California State University, Fresno, May 1985.
- P.E. Professional Engineer in the State of Hawaii #PE-17684
- Numerous certifications and awards within the Civil Engineering industry.

DIRECTOR, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, COUNTY OF HAWAII

Countywide environmental projects, wastewater, solid waste facilities, countywide master sewer and cesspools conversion plan, Integrated wastewater management plan, financial long-term planning and project completion scheduling forecasting until fiscal year 2035.

CHIEF, WATER TREATMENT AND DISPOSAL DIVISION, DEPARTMENT OF ENVIRONMENTAL SERVICES, CITY AND COUNTY OF HONOLULU

Operations, treatment and disposal of wastewater treatment facilities for the entire Island of O'ahu. Value engineering on billions of dollars of valued projects (Sand Island WWTP, Honouliuli WWTP, Kailua WWTP), the Honolulu Authority for Rapid Transit rail project, the H-POWER facility, and the solid waste facilities.

SENIOR MANAGER WASTE MANAGEMENT DIVISION KERN COUNTY, CALIFORNIA

Roads, highways, bridges, large culvert crossings, sidewalks, curbs and gutters, drainage basins, reservoirs, drainage conveyance systems, railroads, utility relocations and coordination, parks, bike paths, buildings, solid waste facilities, wastewater facilities and operations.

ASSISTANT ENGINEERING DIRECTOR, LAND CONCEPTS, INC. & DESIGN ENGINEER, RICKETT WORD DELAMATER

Technical Skills Engineering Design and Construction principles and applications, Skills: Claims, Mechanical Liens, Change Orders, Land Surveying, Technical Proven record of technical, supervisory, managerial, and reporting, research and development, benchmarking proficiency; adept in sensitive negotiations; optimist; Engineering dispute resolutions, with a sociable personality; Pursues creative approaches; Aggressive problem solver. Litigation Expert Witness, Wastewater problem solver; Favors visionary leadership; Diplomatic; Team oriented; and possesses a solid well-developed analytical, focused, can-do aptitude.

Supervisory- Staff performance management, planning, regulatory requirements, cost assessment, evaluations and development; Promotion, administration, forecasts, scheduling, budgeting, finance, design, mentoring, and guidance of professional construction, operations, and maintenance of public works engineering and technician career infrastructure and capital improvement projects. Development and growth; Team culture implementation; Diversity expansion; Extensive background in contract administration and Alternative and succession organizational construction management on all types of projects up to ONE Billion planning; Project management including Dollars in CIP. Negotiated and resolved major change orders disputes. Planning, scheduling, leadership, fiscal budgeting, economic forecasting, needs. Extensive background in parcel subdivision Engineering; assessments, and work scope tract development for homes, infrastructure, roads, bridges, water and sewer systems, architectural structures, electrical and mechanical preparations.) stakeholder resources distribution and guidance; needs. Public complaint resolution, Diversity accomplishments, Diplomacy modeled principles; Compromise development; Creative thinking and vision formulation;

Appendix: RESUMES

BRYAN CHILDRESS, P.E.

Education and Accolades

- B.S., Mechanical Engineering, California Polytechnic State University, San Luis Obispo, CA
- Hawaii Registered Civil Engineer, #PE19975
- Co-inventor, Patent US 8,540,457 B2

PRINCIPAL, THE WALLACE GROUP

Bryan's diverse engineering background includes roles in sales, customer service, quality assurance, engineering, and management. He's a highly motivated, disciplined, and resourceful leader with depth experience in engineering design, project and personnel management, and technical support. Bryan's career started with a role as a sales engineer, designing and selling complex automation components and systems to a variety of industries. He transitioned into the water and wastewater treatment industry where he supported the commissioning and operation of over 150 municipal and industrial ultrafiltration water and wastewater treatment plants. Building on that experience, he took an engineering management role with a growing water treatment equipment manufacturer and expanded the company's product offerings into new markets and applications before joining Wallace Group. His unique dual licensure in civil and mechanical with a comprehensive operational knowledgeable enables him to act as engineer in responsible charge for a variety of projects.

REPRESENTATIVE WORK

- *US 101/Avila Beach Drive Interchange Improvement Project, Avila Beach, CA*

The interchange is a key access point to the Avila Beach community for residents and tourists alike. The proposed improvements included a roundabout at the US 101 South Ramp intersection with an adjacent park-and-ride lot.

Wallace Group is the prime consultant and design lead for a team approach to deliver the project. The project includes roundabout design, park-and-ride lot design, significant utility coordination, multi-level wall design, geotechnical investigation, traffic operations analysis, aesthetics and landscape architecture treatments, water quality and hydraulics, environmental review, and Caltrans coordination. Contemporary transportation design focuses on serving the fullest range of users and Avila Beach Drive is no exception. The improvements will allow all users efficient and safe travel through the interchange.

- *East Boronda Rd Corridor Congestion Relief Project, Salinas, CA*

Planning/design services for 2 miles of the E. Boronda Rd corridor. The City of Salinas is the largest city in the County of Monterey. Boronda Road is a Major Arterial roadway and serves a combination of urban, residential and ag areas, nearby schools, and commercial retail zones in a 2-lane configuration with signalized intersections operating at or near unacceptable levels. The City of Salinas had planned a six-lane arterial to accommodate projected growth. The Wallace Group team suggested the potential for a four-lane arterial with roundabouts as an alternative and was selected to provide planning and traffic analysis services. Our team spearheaded an Intersection Control Evaluation (ICE), which compared the performance of both options and the 4 lane with roundabouts were chosen as the preferred alternative. After proving the feasibility of the concept, the project was broken out into three phases, and the City contracted with Wallace Group to begin phase 1 final design.

The corridor design includes buffered bike lanes, transit, stormwater, utilities, public outreach and grant writing. The typical cross section will include swales in the median to treat runoff and pavement analysis to determine cost effective roadway construction. Ultimate planning will also determine potential Right of Way needs for development to proceed on the north.

APPENDIX: INSURANCE COVERAGE

From: Derek Kawano DKawano@bisihi.com
Subject: RE: Enviroswell Inc. - Insurance Information
Date: April 7, 2025 at 10:35 AM
To: Cesspool Solutions cesspoolsolutions@gmail.com
Cc: Ramzi Mansour mansour23@sbcglobal.net, ramzi@enviroswell.com

Shawn,

Per the requirements below, I can confirm that we will work on getting the proper coverage. Per our discussion, you will not have an auto liability policy because you don't have owned autos under the business. The general liability and professional liability coverage should be finalized if you folks are chosen for the contract.

Please let me know if you have any questions.

Thank you for your time,

Derek Kawano CIC
[Business Insurance Services, Inc](#)
615 Piikoi Street, Suite 1901
Honolulu, HI 96814

Phone: (808) 592-4235
Cell: (808) 256-1744
Fax: (808) 697-6826
Email: dkawano@bisihi.com

Schedule a meeting with me using the link below:
<https://calendly.com/dkawano/meeting-derek>

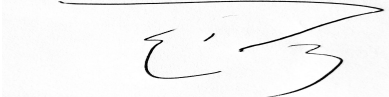
I appreciate your referrals. I'm always grateful for the opportunity to educate others. If you know business owners that could benefit from an insurance consultation, please share my contact information.

Include in your firm's submittal Proof of Insurance for:

- a. General liability insurance for limit of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate. The STATE shall be named as additional insured.
- b. Automobile liability insurance for limit of not less than \$1,000,000 per accident. The STATE shall be named as additional insured.
- c. Professional liability insurance for limit of not less than \$1,000,000 per claim and \$2,000,000 annual aggregate.

If a firm is not able to provide the above insurance certificates at this time, a letter from an insurance company stating, if the firm is selected, they will insure the firm for the insurance policies and the amount of minimum coverage required above, will be accepted as proof of insurance.

CERTIFICATION OF NON-EXCLUSION

Date:
Name of Prime Consultant Firm: EnviroSwell, Inc.
List of Sub-Consultants Proposed for the Project: The Wallace Group
Certification: I certify that my firm and its principals, and the sub-consultant firms proposed for this project and their principals, are not currently excluded by the State of Hawaii or the Federal Government from providing the services to be furnished for the proposed project, and that none of the parties listed herein appear on the following suspension or debarment lists: Hawaii State Procurement Office Circulars Federal Government Excluded Party Listing System (GSA List) Current Suspensions/Debarment Actions List by FHWA Ramzi I Mansour _____ Name of Officer and Title  Signature of Officer 4/7/2025 _____ Date