

Carliane Johnson has 29 years of experience conducting environmental effects analyses, preparing best management practices plans, and providing other regulatory compliance support primarily for the marine transportation and offshore energy industries. Ms. Johnson has individually prepared, has led, and has been a part of larger teams that have prepared environmental and feasibility documents both in the United States and abroad. She has also prepared integrated natural resources management for natural resource stewardship and compliance at U.S. Department of Defense bases on the East Coast. She has developed marine resources inventories to identify indicator species and existing environmental conditions. She led the work to create a



searchable database and then helped to categorize, review and summarize all historical documents that were part of a Supreme Court litigation effort over water allocation within the states of Georgia, Alabama and Florida. She currently provides regulatory compliance support for a large, commercial boat yard in California. This diversity and breadth of experience allows her to quickly identify policy, stakeholder, local planning and environmental concerns at the beginning stages of a project, which ensures that appropriate methods or actions are considered early to reduce or eliminate potential project impacts. Some project examples are provided below.

**Shell Oil Company.** Currently providing regulatory support and conducting research on various topics (e.g., marine sound, protected species, air and water permitting, proposed federal regulations, artificial reefs) pertinent to Shell's domestic offshore oil and gas and renewable energy. Also conducting research and collecting environmental data for Shell's wind lease areas offshore the U.S. East Coast. The effort will be used to better understand both the marine ecology and the commercial fishing activities occurring around these offshore lease sites, which will support the required environmental and operational documentation under the National Environmental Policy Act and the Outer Continental Shelf Lands Act.

**Bay Ship & Yacht Co., California.** Providing regulatory compliance support at this large ship building and repair facility in Alameda for all required federal, state, and local permitting requirements. Project work involves proper handling and disposal of hazardous wastes; air quality control permitting including off-road vehicle emissions reporting to the California Air Resources Board; stormwater planning, monitoring, and reporting of discharges under the National Pollutant Discharge Elimination System (NPDES) and the State Water Resources Control Board requirements; and other environmental protection programs.

**SSA Marine Terminal at Port of Oakland, California.** Provided worker training to non-union personnel at SSA Marine to enhance workplace efficiency and safety during maintenance activities on post-Panamax cranes and other material equipment handling at the Oakland International Container Terminal.

**Walsh Perú South America.** Prepared a regulatory document summarizing the applicable international legal framework pertaining to the discharge of drill cuttings containing non-aqueous drilling residues and potential concerns related to the proposed use of thermal-treatment technology to clean those cuttings. The project involved reviewing the applicable international legal framework and guidelines and reviewing technical reports regarding the marine discharge of treated cuttings obtained from a "Hammermill"

process. Also reviewed the Technical Report (or ITS) that was prepared by Walsh Perú S.A. for the Peruvian regulatory authorities.

**National Petroleum Council.** Provided technical and editorial support to the Operations and Environment Subgroup of the National Petroleum Council, a federal advisory committee. The study was requested by former Secretary Chu and was prepared by a team of experts from industry, state and federal government agencies, conservation groups, financial institutions and academia.

**NOAA Office of National Marine Sanctuaries.** Reviewed and issued research, education and salvage permits for activities proposed in the Greater Farallones National Marine Sanctuary (GNFMS) and in the northern Monterey Bay National Marine Sanctuary (MBNMS). Responded as lead coordinator to any vessel grounding or spill incidents and prepared two environmental assessments. One was a programmatic document that assessed effects of existing and proposed research and ecotourism activities on great white sharks off Northern California. The other assessed impacts from discharges of U.S. Coast Guard live fire training activities in newly expanded areas of GNFMS and Cordell Bank sanctuary.

**Oil and Gas Development Project, Southern Gulf of Mexico.** Conducted the technical review and quality assurance of environmental documents to ensure that they met international standards associated with a large offshore development project off the coast of Mexico for a client of Citigroup to meet loan requirements from the Overseas Private Investment Corporation.

**Rubiales Field, Colombia.** Managed the due diligence review to support Marathon Oil Company's decision-making regarding oilfield acquisition. This included an assessment of the current operator's existing documents for compliance with health, safety and environmental standards, Colombian environmental licensing requirements, and consistency with Marathon's policies concerning corporate social responsibility.

**Main Pass Energy Deepwater Port, Gulf of Mexico.** Managed the application process associated with an onshore pipeline under Federal Energy Regulatory Commission (FERC) jurisdiction for the *Main Pass Energy Hub* liquid natural gas terminal project. This involved working closely with the client's team of contractors to develop the application and interacting frequently with state and federal officials to address regulatory and permitting requirements for the pipeline.

**BOOTS Deepwater Oil Port, Gulf of Mexico.** Collected vessel and shipping data and environmental information to support the licensing of a proposed deepwater port, the Bulk Oil Offshore Transfer System (BOOTS), intended to accommodate large vessels for petroleum product offloading.

**Cascade / Chinook FPSO Development, Central Gulf of Mexico.** Prepared an Environmental Impact Assessment (EIA) for Petrobras America, Inc., (a subsidiary of Petróleo Brasileiro SA [Petrobras], the Brazilian national oil company) for the proposed first use of a floating production, storage and offloading (FPSO) system in the U.S. Gulf of Mexico. The EIA was submitted to the Minerals Management Service (since renamed the Bureau of Ocean Energy Management) as part of the exploration plan.

**Petrobras Produced Water Survey, Rio de Janeiro.** Conducted a literature search and prepared a report for Petrobras that evaluated how offshore oil terminals and refineries around the world have managed their produced water. Also presented the study results to the client's technical operations staff in Brazil and hosted Petrobras staff during their visit to a United States facility that treats waste from oil and gas operations in the Gulf of Mexico.