
JULIE BETHKE

Education

M.A. - Marine Affairs, Environmental Management Emphasis, University of Rhode Island, 1998

B.S. - Wildlife and Fisheries Science, Pennsylvania State University, 1995

Professional Development

Overview of the CEQA Approach: A Step-by-Step Process. University of California, 2001

Professional Experience

Ms. Bethke is a Senior Project Professional providing support for projects performed out of the SCS's Medford, New Jersey office. She provides SCS with over 15 years of experience in a variety of environmental disciplines and has performed various environmental assessments and investigations throughout the country. Her experience includes regulatory compliance and permitting, field investigation and sampling activities, environmental due diligence, and environmental impact analyses.

Environmental Compliance and Permitting Services

Western Berks Landfill, PA. Prepared the Initial Title V Operating Permit Application and obtained Title V Operating Permit approval. Reviewed performance test protocol and performance test report. Prepared and submitted annual and semi-annual Title V reports. Provided Title V compliance support and monthly oversight of operations data to ensure compliance. Provided support in response to PADEP compliance inspection.

Modern Landfill, PA. Performed Greenhouse Gas data compilation and reporting via EPA's online e-GGRT system. Provided data evaluation support for landfill gas system operations and compliance.

Cumberland County Improvement Authority, Millville, NJ. Provided Title V and NSPS compliance for the facility. Coordinated with site personnel on the monitoring requirements of NSPS. Reviewed monthly monitoring data and directed compliance monitoring rechecks as required by NSPS. Troubleshoot wellfield operational issues with respect to compliance timeframes and prepare and submit alternate timeline requests to USEPA. Performed Title V reporting including annual emission statements, annual compliance certifications and semi-annual deviation reports. Prepared semiannual NSPS reports and provided Greenhouse Gas Reporting Rule compliance services including data collection, emissions calculations and reporting. Prepared applications for modification and renewal of the facility's Title V Operating Permit. Provided support in response to NJDEP compliance inspections.

Burlington County Solid Waste Complex, NJ. Provided monthly oversight of operations data to ensure compliance with the NSPS. Coordinated with site personnel and directed compliance

monitoring rechecks as required by NSPS. Troubleshoot wellfield operational issues with respect to compliance timeframes and prepare and submit alternate timeline requests to USEPA. Provide assistance during NJDEP air inspections, pump test monitoring and reporting. Greenhouse Gas Reporting Rule compliance including data collection, emissions calculations and reporting.

Gloucester County Improvement Authority, NJ. Provided NSPS compliance services including data review and evaluation of NSPS applicability. Coordination of Tier 2 sampling to determine NSPS applicability; preparation of Tier 2 sampling protocol and report; and coordination with USEPA. Consulting services for the procurement of a state or federal grant to partially fund the construction of a landfill gas collection system.

Monroe Township Landfill, NJ. Provided compliance assistance associated with the NJDEP General Construction Activity Stormwater permit and the Soil Erosion and Sediment Control Plan Certification.

Republic Services Incorporated. Provided Greenhouse Gas Mandatory Reporting Rule services for 13 Landfill sites. Services included data compilation, client interface during data gathering, emissions calculations and reporting.

Western Fumigation, Permitting Services. Prepared the initial Title V Permit Application and emission statements for fumigation operations at the Gloucester Marine Terminal. Performed air monitoring services to demonstrate compliance with NJDEP directives regarding air pollution during facility operations.

Ameresco Energy of Delaware, LLC, Delaware Solid Waste Authority (DSWA) Central Facility. Prepared the pre-construction permit application for the addition of 3 landfill gas-to-energy generators and associated flare system. Responsibilities include working with Ameresco to develop a permitting strategy, performing emissions calculations, preparing application forms, responding to regulatory comments, and reviewing the draft permit.

Waste Management Renewable Energy LLC. Consulting services in support of a New Jersey Economic Development Authority, Clean Energy Solutions Capital Investment (CESCI) Loan/Grant application for the financing of a solar power project on a former landfill.

Environmental Services

Hudson Tank Terminals, Compliance and Permitting, Stormwater Pollution Prevention Plan (SWPPP) and Prevention, Control and Countermeasures (SPCC) Plan, NJ. Conduct monthly compliance inspections as required by the site SPCC and SWPPP plans. Prepared application for New Jersey Individual Stormwater Permit. Provided support as necessary in conjunction with a state and federal site inspections.

Confidential Client, NJ. Provide research and analysis services in support of ongoing litigation regarding the allocation of responsibility for the remediation of a New Jersey Superfund site.

Durham School Services, Stormwater Pollution Prevention Plans, NJ, CT, MA. Prepared or updated the site stormwater pollution prevention plans in accordance with State and Federal

General Permit specifications. Provided support as necessary in conjunction with a state site inspections. Tasks included a site inspection, submittals to regulatory agencies and performing employee training on the contents and requirements of the Stormwater Pollution Prevention Plan.

Durham School Services, Prevention, Control and Countermeasures (SPCC) Plans, PA, MA.

Prepared SPCC Plans for commercial bus maintenance facilities. Tasks included a site inspection and employee training on the contents and requirements of the SPCC plan.

Custom Building Products, Logan Township, NJ. ISRA Preliminary Assessment Report and Phase I ESA. After conducting the Phase I environmental site assessment, a preliminary assessment was conducted for the property. The investigation and report was completed in association with a NJ LSRP and the case was closed.

Canadian Environmental Assessments. Typical tasks included field reconnaissance to identify potential areas of contamination, review and interpretation of historical data, employee and third-party interviews, and regulatory record researches to identify past management practices. Assessments conducted for US clients with property in Canada are completed in general conformance to the most recent ASTM 1527 standard. Deviations from this standard are result of differences in the nature and extent of available information for properties outside the U.S. The investigation and review of regulatory agency information was conducted in general conformance with the CSA Standard Z768-01 for Phase I Environmental Site Assessment in Canada.

City of New York, Department of Sanitation, Shoreline Evaluation. Conducted an investigation of the existing condition of the shoreline along the Fresh Kills Landfill in Staten Island, NY to identify the types of storm-related issues likely to impact the shore and identify shoreline protection options.

MD, Integrated Contingency Plan (ICP). Updated the ICP for the Naval Support Activity Annapolis, including the U.S. Naval Academy, in Annapolis, MD. Various plan components include: storage tank management plan, emergency response procedures, response planning, facility hazard analysis, and a SPCC plan.

MD, Integrated Pollution Prevention Plan (IP3). Updated the IP3 for the Naval Support Activity Annapolis, including the U.S. Naval Academy, in Annapolis, MD. Various plan components include: pollution prevention plan, hazardous waste management plan, solid waste management plan, hazardous materials control and management plan and affirmative procurement plan.

NJ, NY, PA, CT, MA, MD, GA and RI, Phase I ESAs and Limited Environmental Reviews.

Typical tasks included field reconnaissance to identify potential areas of contamination, review and interpretation of historical data, employee and third-party interviews, and regulatory record researches to identify past management practices. Assessments are conducted in accordance with industry standards (e.g., ASTM E1527) or within other client-specific parameters.

CT Phase II ESA. Tasks included soil and groundwater sampling, data analysis, and report writing. Technical experience in investigative activities (soil borings, temporary groundwater wells), multi-media sampling, and chemical data interpretation.

MD, FL, GA Spill Prevention, Control and Countermeasures (SPCC) Plans. Updated and administered SPCC Plans for commercial facilities.

FL Stormwater Pollution Prevention Plan (SWPPP). Administered and maintained SWPPP for a cement plant and limestone mining facility in Medley, FL.

Environmental Management Outreach. Served as an Environmental management team member responsible for the preparation of advisory reports to the Government of Belize. Identified environmental impacts and viable mitigation measures; addressed coastal development, water quality, and solid waste management issues in coastal communities. Identified proper environmental practices for new development projects, as well as procedures for mitigating impacts resulting from past development.

Groundwater and Soil Sampling

Vineland, NJ, ISRA Compliance Activities. Provided consulting services for ISRA compliance activities associated with the closure of a former cogeneration facility in Vineland, NJ. Typical tasks at the site include groundwater sampling, soil sampling and reporting.

Stony Brook Waste Water Treatment Plant, Princeton, NJ, Site Investigation and Soil Sampling. Provided consulting and oversight services for the excavation of historic landfill material. Conducted site investigation and characterization, including soil sampling and field screening for volatiles.

CT Phase II ESA. Tasks included soil and groundwater sampling, data analysis, and report writing. Technical experience in investigative activities (soil borings, temporary groundwater wells), multi-media sampling, and chemical data interpretation.

MD, Underground Storage Tank (UST) Closure. Provided consulting and oversight services for the UST removal and closure activities. Typical tasks include soil sampling, coordinating laboratory analysis, data interpretation, and the preparation of a UST Closure Report.

Piscataway, NJ. As a part of a Phase I ESA, hydraulic oil releases on a heavy equipment storage lot were identified. Remediation of the releases included construction oversight, excavation of contaminated soils, soil sampling and reporting.

National Environmental Policy Act (NEPA)

NJ, OH, CA, NV, HI, Environmental Baseline Surveys (EBSs). Typical tasks included field reconnaissance to identify potential areas of contamination, review and interpretation of historical data, interviews, and regulatory record researches to identify historical releases and past management practices.

NJ, OH, NC, CA, NV, Environmental Assessments (EAs). Involves the analysis of potential environmental impacts associated with proposed projects such as the construction or destruction of base infrastructure, transfer or lease of land, or changes in base activities or mission. Examples of potentially impacted area include: natural and cultural resources, solid waste, transportation, noise, population, and land use.

NC, Environmental Impact Statement, U.S. Air Force, Pope AFB. Deputy project manager for the preparation of an EIS for a proposed runway extension involving the acquisition of federal and private land. Assisted with report preparation, supplemental data collection, document submittals, and coordination with principle investigators and internal support departments.

HI, Site Summary Reports, U.S. Navy, Pearl Harbor Naval Complex. Author of site summary reports designed to evaluate property for past and current releases of hazardous substances or petroleum products. The reports present the environmental findings of the investigation and determine the environmental condition of the property. These findings are used by the U.S. Navy to determine the proper allocation of funds for the remediation of historic releases of hazardous materials. Project tasks included a records search of Navy and regulatory agency documents; visual site inspections of all buildings; visual site reconnaissance of open areas and adjacent property; reviews of aerial photographs, historical engineering drawings and property surveys; and interviews with current and former military personnel.

California Environmental Quality Act (CEQA)

CA, Environmental Impact Report. Served as an assistant project manager for the preparation of an EIR for the remediation of the former Benicia Arsenal to levels acceptable for residential development. Primary involvement with client and agency relations, project planning and project management. Served as a principal investigator for land use, recreation, cumulative impacts, and alternatives to the project. Assisted in the impact analysis for population, public services, transportation, and utilities.

Publications and Presentations

Bethke, J.A. *Applying the Public Trust Doctrine in Rhode Island to Protect Instream Flow*, University of Rhode Island, Department of Marine Affairs, Unpublished Thesis, 1998.

Corea, J., J.A. Bethke, et al. *A Guide for the Mitigation of Development Impacts on the Belizean Coastal Cayes*, Department of Marine Affairs, University of Rhode Island, Kingston, Rhode Island, 1997.