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**ARC Environmental, LLC**  
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## **DISTINGUISHING QUALIFICATIONS**

- Over 20 years of broad-based environmental consulting, senior program management, engineering, remediation, and real estate support experience, with emphasis on regulatory negotiations, property transfer, program and project management, engineering design/implementation, site remediation, and site management activities.
- Regulatory experience related to various Superfund facilities, RCRA Corrective Action sites, New Jersey Industrial Site Recovery Act (ISRA) Cases, and Total Environmental Restoration Contract (TERC) projects. Overall client management for projects located principally in New Jersey, Pennsylvania, West Virginia, and New York, including technical staffing, budgetary costing, annual and long-term reserve setting, construction management, and day-to-day oversight of all aspects of project operations, maintenance, subcontracting, and reporting.
- Extensive hands-on field experience in remedial system design, installation and startup, construction oversight and management of various treatment systems.

## **EXPERIENCE**

I have over twenty years of broad-based environmental consulting, engineering, and remediation experience, with an emphasis on program management, senior consulting, engineering design/implementation, and site remediation. I have worked extensively as a Program/Project Manager on remediation cases in New York, Pennsylvania, New Jersey, and West Virginia, with a focus on regulatory negotiations, strategic closure support, real estate redevelopment, and community relations support. I also have extensive experience with the development of Feasibility Studies (FS), regulatory negotiations of selected remedies, and management of implementation through the remedial system design, installation and startup phases.

My most recent experience is as a Program Manager/Client Service Manager and senior consultant for CH2M HILL. I also functioned as the Business Development Area Coordinator (BDAC) for the Northeast Corridor within CH2M HILL, responsible for developing key clients and evaluating new clients and projects. Other key experience includes site investigations, developing remedial strategies, and senior lead on feasibility studies and technical reviews of design documents for various Superfund facilities, and managed various ISRA cases throughout the State of New Jersey.

**DAKON BRODMERKEL (Continued)**  
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**PROJECT/PROGRAM MANAGEMENT EXPERIENCE**

**Client Service Manager/Portfolio Lead - Former American Cyanamid Facility, Bound Brook, NJ.** Client Service Manager and Portfolio Lead for developing and implementing bench- and pilot-scale testing for in-situ treatment technologies for acid tar. The scope of work involves development and implementation of testing programs for in-situ thermal treatment and in-situ stabilization/solidification, followed by the development of a Feasibility Study (FS) for the acid tar. Responsibilities include strategy development for the testing programs, agency and external stakeholder communications, scope and budget development for all work activities, coordinating with multiple Project Managers and plant staff on implementation of the work, and client communications on the strategy and scope.

**Program Lead/Client Manager - Hampshire Chemical Facility, New York State.** Program Lead for developing overall strategy, conceptual site model, and scope for a site-wide investigation and remediation of a RCRA corrective action case. The site, a chemical manufacturing facility, involves the investigation and remediation of impacted soils, groundwater, a closed landfill, and sediment in an adjacent water body. Responsibilities for the program include strategy development to achieve site closure, scope and budget development for all work activities, coordinating with multiple Project Managers on implementation of the work, agency negotiations regarding site closure, and client communications on the strategy and scope.

**Program Lead/Client Manager - Former Union Carbide Facility, Bound Brook, NJ.** Program Lead for developing strategy master plans, redevelopment plans, and scope for an overall investigation of an ISRA Case. The site, a former chemical manufacturing facility, was closed in 2003 and required expedited investigation, remediation, and redevelopment support to allow for the client to divest the property. Responsibilities include strategy development to achieve site closure, redevelopment support to prepare the site for sale, scope and budget development for all work activities, coordinating with multiple Project Managers and plant staff on implementation of the work, agency negotiations regarding site closure, and client communications on the strategy and scope.

**Program Lead/Client Manager - Former Union Carbide Facility, Charleston, West Virginia.** Program Lead for site closure of a RCRA Corrective Action project. The site, a former chemical processing and pilot plant facility, was placed into the USEPA Voluntary Cleanup Program in 2003. The site includes various closed impoundments, impacted groundwater, and various soil impacts due to pilot testing operations for various chemicals. Responsibilities include strategy development to achieve site closure, redevelopment support to prepare the site for sale, scope and budget development for all work activities, agency negotiations regarding site closure, and client communications on the strategy and scope.

**Program Lead/Client Manager - Former Union Carbide Facility, Charleston, West Virginia.** Program Lead for developing overall strategy, conceptual site model, and scope for a site-wide investigation and remediation of explosive chemical plant. The site, a former chemical manufacturing facility of potentially explosive materials, required proactive investigation and remediation due to potential offsite migration of site chemicals. Responsibilities include strategy development to achieve site closure, scope and budget development for all work activities, and client communications on the strategy and scope.

**DAKON BRODMERKEL (Continued)**  
**ARC Environmental**

**Program and Regulatory Lead - Morton/Rohm and Haas Chemical Facility, Paterson, NJ.**

Program Lead and overall regulatory lead for developing strategy and scope for an overall investigation of an ISRA Case. The site, a former dye manufacturing facility, was closed in 2001 and an expedited investigation and remediation was required by the client to promote redevelopment. Responsibilities include strategy development to achieve site closure, and scope and budget development for all work activities.

**Project Manager - Ventron/Velicol Mercury Processing Facility, Wood-Ridge, NJ.**

Project Manager for developing strategy and scope for an overall investigation of a Superfund Site in northern New Jersey. The site, a former mercury processing plant, had impacted soils, groundwater, surface water, and sediment with mercury and other metals. Project responsibilities included preparation of the Feasibility Study (FS) for impacted soil and groundwater, negotiations with prospective buyers of the facility, overall project management, negotiations with NJDEP and USEPA on the proposed remedial actions, and assisting with site sale/redevelopment of the property.

**Project Manager - Insurance Cost Recovery Case for Central Hudson Gas and Electric, Poughkeepsie, NY.**

Project Manager for an Insurance Cost Recovery case for developing potential costs for remediation at eight former Manufactured Gas Plant (MGP) sites in New York State. The scope of work was to review historical site data on the sites, develop remediation standards needed for each media of concern, and then developing costs for remediation of each site. Responsibilities include project management of staff responsible for data collection and evaluation. Client contact for day-to-day activities and remedial strategy development.

**Project Manager - Former Mortell Facility, Perth Amboy, NJ.**

Project Manager for an ISRA Case in Perth Amboy, NJ. The site, a former chemical processing facility, was closed in 1989. Responsible for managing all site activities, negotiations in support of a natural attenuation remedial strategy, oversight of all groundwater sampling and gauging activities, and report generation for the NJDEP review.

**Project Manager - Former TYCO Electronics Manufacturing Facility, New Brunswick, NJ.**

Project Manager for an ongoing ISRA Case to operate, maintain and conduct troubleshooting of a groundwater remediation system designed to remove trichloroethene (TCE) and other chlorinated compounds that contaminated the groundwater during historical site operations. The system consists of a hydraulic control/treatment system that has been operating since 1995 and pumps groundwater from three recovery wells into a pre-filter unit and air stripper. Responsibilities for the project include daily operation, maintenance, and troubleshooting of the treatment system, agency negotiations regarding site closure, analysis of hydrogeological data from site monitoring wells, oversight of all groundwater sampling activities, and reporting/communicating site activities to the responsible party and the NJDEP.

**Project Manager - Square D Corporation, Bordentown, NJ.**

Project Manager responsible for an innovative solution to address dissolved metals contamination in groundwater. The facility, which previously dissolved copper into sulfuric acid for electroplating, contaminated the subsurface with heavy metals. To remedy the problem, geochemical fixation through calcium polysulfide injection into groundwater to fix the copper contamination was specified. Responsibilities include management of all aspects of the project, design and installation of the

**DAKON BRODMERKEL (Continued)**  
**ARC Environmental**

injection system, agency negotiations/presentations to propose the technology and discuss injection results.

**Project Manager - Bethlehem Steel Corporation, North Arlington, NJ.** Project Manager responsible for the continued negotiations of an ISRA Case. The facility, which originally coated piping for high-temperature use, had polychlorinated biphenyls (PCBs) in soil. Limited hot-spot excavation activities were completed in areas of high contamination and a soil cover was placed over the remaining area. Also, approximately two acres of wetlands were created to assist in future development of the property. Managed all environmental site activities, NJDEP negotiations regarding off-site contamination and risk-based remedial goals development for PCBs left in-place, generation of institutional controls for deed restrictions, and working with redevelopment corporations to generate site re-use plans.

**Regulatory and FS Lead - Martin Aaron Superfund Site, Camden, NJ.** Leader responsible for completing a Feasibility Study at a former drum recycling facility under Superfund. Soil and groundwater at the site was contaminated with arsenic and various semi-volatile organics. The FS summarized the environmental investigation completed at the site and evaluated remedial alternatives for each area of concern. Responsibilities for the project include overall regulatory negotiations on proposed remedy, evaluation of site data and applicable remedial technologies, overseeing junior level staff on developing the remedial alternatives, monitoring budget and schedule, and client interaction related to FS work.

**Regulatory and FS Lead - Pohatcong Superfund Site, Washington, NJ.** Leader responsible for completing a Feasibility Study at a Superfund site in northern New Jersey. Soil and groundwater at the site was contaminated with chlorinated solvents trichloroethene and tetrachloroethene. Responsibilities for the project include overall regulatory negotiations on proposed remedy, evaluation of site data and applicable remedial technologies, overseeing junior level staff on developing the remedial alternatives, monitoring budget and schedule, and client interaction related to FS work.

**EDUCATION**

B. S., Civil and Environmental Engineering, University of Pittsburgh, 1995  
Specialization Program: Environmental Engineering

**PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS**

Engineer-in-Training, 1996  
40-Hour OSHA Certified (per 40 CFR 1910.120)

**EMPLOYMENT HISTORY**

CH2M HILL	Project Manager	2001 - 2014
ICF Kaiser Engineers/IT Corporation	Project Manager	1997 - 2001
BioRemedial Technologies, Inc.	Project Manager	1996 - 1997
PA Earth Technologies, Inc.	Project Engineer	1995 - 1996
U.S. Army Corps of Engineers - Pittsburgh	Co-op through school	1994 - 1995
Cranberry Township Sewer and Water	Co-op through school	1993 - 1994
Triline Associates, Inc.	Co-op through school	1993 - 1993
Gateway Engineers, Inc.	Engineering Inspector	1992 - 1993