

## **Joseph J. Hochreiter, Jr., CGWP**

### **Site Remediation and Risk Management**

Completed accelerated ISRA compliance under the New Jersey Cleanup Star Program for a plastic-component manufacturer in Gloucester County, New Jersey, that moved its operations outside New Jersey.

Working on behalf of a Superfund site committee since 1992, directing a project that has completed the soil RI/FS activities (groundwater pending) at the EPLC Superfund site in central New Jersey. Working with Arcadis and de maximis, we obtained a ROD for the site soil, implemented a study of two in-situ remediation technologies (chemical oxidation and enhanced biological degradation) for chlorinated VOCs in on-site groundwater, suspended the groundwater IRM, and started work on a groundwater FS for the site. A groundwater ROD is anticipated in 2010.

For a Fortune 500 pharmaceutical company, served as project officer of the RCRA Corrective Action process, which included an RFI of an 800-acre research/manufacturing facility in Pearl River, New York. Directed sampling of more than 50 SWMUs/AOCS and a range of media (concrete impacted with RCRA-hazardous constituents, soils, groundwater, and surface water in a nearby river).

Provides technical analysis and negotiation strategies for the evaluation and resolution of Natural Resource Damage Assessments at numerous sites in New Jersey including the GEI Metramatic site in Landing, the EPLC NPL site in Old Bridge, the iPort440 site (Phase 1) in Perth Amboy, among others.

On behalf of the owner of a retail center in Central New Jersey, investigated the occurrence of VOCs (vapor intrusion) at a childcare facility within the center. Developed a multi-element corrective action plan that resulted in compliance with NJDOH requirements and recertification of the facility.

Managed the RI, risk assessment, and FS for a site committee at the KOP NPL Site in the Pinelands region of Camden County, New Jersey. Assisted the PRP Committee in negotiating a procedure for remedy selection and served as the initial project manager for the remedial design. The remedy for this site involved soil washing, as well as the off-site recovery and treatment of groundwater in the Cohansey Aquifer for VOCs and metals.

Working for a global high-technology company, evaluated the environmental compliance history of an electronic circuits manufacturing facility that the client once owned in Minnesota. The evaluation is in response to a cost-recovery action initiated against our client by a subsequent owner of the property.

Assisted the firm of CH2M HILL with the investigation and preparation of a Remedial Investigation/Remedial Action Selection Report for soil impacts at a facility in Ocean County, NJ.

Directed the Independent Quality Assurance Team activities that oversaw construction of a component of the final remedy at the Ewan NPL Site in Burlington County, New Jersey.

On behalf of a major commercial property owner, consulted on a Vapor Intrusion case involving a daycare facility located in a high-rise office building in Northern New Jersey. This building was underlain by a groundwater "plume" from a nearby former MGP facility.

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Managed the RI at a combined former solvent recovery site and municipal landfill in the Piedmont region of North Carolina. This site was ranked number one on the State Abandoned Site list. Conducted an extensive investigation of the bedrock hydrogeology (including continuous coring, discrete-interval hydraulic testing, borehole geophysics, aquifer testing, fracture trace analysis, and surface geophysics) to refine a conceptual model of fractured groundwater flow. Our report relied on a multilayer numerical model to demonstrate that contaminated groundwater and DNAPL was migrating preferentially through a well-defined set of interconnected fractures in the diabase-intruded, granite bedrock. The ultimate receptor appeared to be a nearby river, with monitored natural attenuation as the likely eventual remedy for groundwater. NCDENR approved this complex report with very few comments.

Led a team of engineers, geologists, and toxicologists that conducted an RI/FS and implemented a risk-based site remedy at an industrial chemicals company in the Port Richmond section of Philadelphia. Our risk-based approach allowed for the passive remediation of heavy fuel oil NAPL that had seeped beneath houses and precluded the need for active groundwater remediation for chlorinated hydrocarbons.

Conducted investigation and remediation activities at several dry cleaning facilities. Work included the auditing of environmental compliance for a number of facilities owned by a commercial cleaner in Southeastern PA, the investigation and remediation of a dry cleaning plant in Bergen County, NJ, and the ISRA compliance for a shopping center with a dry cleaning plant in Carteret, NJ.

Implementing the ISRA remediation at a 100-year-old manufacturing facility in Northern New Jersey. Constituents of concern include chlorinated VOCs, PAHs, and metals in soil and groundwater. Over 80% of the original areas of concern have been addressed to NJDEP's satisfaction. Recently, SEC removed lifts and tanks associated with a former vehicle maintenance facility and conducted a priority Vapor Intrusion investigation at part of the facility..

Successfully pilot tested (with regulatory approval) the remediation of a chlorinated solvent plume at a confidential site in New Jersey using in-situ, chemical oxidation (persulfate) technology. This plume originated from a former manufacturing process that employed the use of methylene chloride and other chlorinated solvents. Our confidential food-industry client had retained the services of several other consultants before being selected to test a cost-effective alternative to their existing pump-and-treat approach. Worked with the firm XDD, LLC on this work. Additionally, we optimized the facility's long-term groundwater monitoring requirements by cutting the program's size by 50% and by gaining regulatory approval for a passive diffusion bag (PDB) sampling approach.

Working for the banks that foreclosed on the property, directed the RI/FS and remedy recommendation process at a bicycle plant in eastern Pennsylvania. Based on the investigation work performed and coupled with discussions with the local regulators (PADER and USEPA), developed a risk-based remediation strategy that made site redevelopment possible. Constituents of concern (COCs) included metals in on-site soil and sludges, metals in surface-water runoff, and VOCs (chlorinated solvents) in groundwater.

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For a confidential Pennsylvania electric utility, evaluated the impact of a nearby quarry expansion on the mission-critical, groundwater-based water supply beneath their nuclear power plant. Negotiated with the appropriate state and federal regulatory agencies to confirm that our client's water supply would not be adversely impacted by this off-site development activity.

Working with the law firm of Wilentz, Goldman & Spitzer PA, assisted a client with the environmental due diligence and permitting associated with the client's proposed acquisition of a large recreational lake in New Jersey.

Directed compliance activities at the JIS NPL Site in central New Jersey on behalf of the PRP Committee. Activities included regulatory negotiations, design of a landfill cap, implementing a groundwater monitoring program, constructing a numerical groundwater flow model, and specifying the pilot testing of a chemical oxidation technology for the destruction of VOCs in groundwater.

Designed and managed the investigation and management of more than 60 on-site waste management units for a Fortune 100 chemical manufacturing facility in the New Jersey Coastal Plain (Sayreville, Middlesex County). This investigation met the requirements of the USEPA's RCRA Facilities Investigation/Corrective Measures Study (RFI/CMS), with an emphasis on developing cost-effective technical strategies for the client. The study showcased the client's approach to implementing RCRA Corrective Actions nationwide. As a result, much of the initial work was performed at risk prior to formal USEPA Region II involvement. A major accomplishment of this study was to obtain acceptance by the USEPA Region II of a strategy for contaminated groundwater that emphasized compliance at the downgradient boundary of the site, as opposed to multiple areas of source area compliance within the site.

Conducted an assessment of the New Jersey Coastal Plain hydrogeology beneath a nuclear power plant for a confidential client. This assessment was used by the client to argue for realistic remedial measures in the event of a release of nonradioactive contaminants to the subsurface.

Directed the investigation and remediation of a former pesticide manufacturing facility in eastern West Virginia. This work was performed on behalf of an industrial client who once owned the property. In the early 1970s, the building burned, and the State of West Virginia requested that a soil and groundwater study be completed and that fire residuals buried on site be excavated and properly disposed. All contaminated residuals were remediated to the satisfaction of WVDEP.

For a confidential telecommunications company, utilized expertise as an experienced (35 years) Licensed Amateur Radio Operator working with historic radio equipment to conduct an environmental divestiture audit and pre-disposition inventory of four original Marconi MW/HF transmit and receive stations, two on each coast of the U.S. This assessment involved creating detailed inventories of all radio and electronic components (tagging, spreadsheet tallies, and photography), identifying special waste-disposal characteristics, and segregating/appraising equipment with special historic value.