



ENVIRON has gained an international reputation for assisting clients in cost-effective evaluation and remediation of industrial facilities and hazardous waste sites. To ENVIRON, the process is not simply one of developing “cleanup numbers” for environmental media, but rather represents a fundamental approach to problem solving. We focus first on the threshold issues of whether and why a site should be remediated, rather than simply collecting design data to address the question of how to remediate.



STRATEGIC PLANNING

From the outset ENVIRON works with clients to fully understand project goals, regulatory and political drivers, potential legal liabilities, and other factors to be considered during the remediation process. We also develop a framework for identifying and addressing the technical and policy issues that will most significantly affect remediation decisions at a site. Our success in this phase of the process creates a solid foundation for achieving client goals by establishing strong working relationships with regulatory agencies, community groups, and private parties.

SITE CHARACTERIZATION

ENVIRON has developed and implemented comprehensive site evaluations at hundreds of industrial and hazardous waste sites. Our experienced staff of health-and-safety-trained professionals conducts or oversees a complete range of field services for collecting data to meet project-specific data quality objectives. Our skills in risk assessment are often relied on early in the site investigation process to perform risk-based evaluations using preliminary data to help focus subsequent data collection efforts. Similarly, our expertise in collecting, interpreting, and managing site data complements our capabilities in engineering, enabling our investigators to provide valuable input into the development of site-specific remediation goals and the best approaches to meeting those goals.

RISK EVALUATION

ENVIRON's unique abilities in human health and ecological risk assessment are a critical asset in developing risk-based strategies to determine the need for remediation, develop cleanup goals, and identify the most appropriate remedies. We have performed hundreds of risk assessments at industrial sites and hazardous waste facilities throughout the world. Because our specialists are experts in the toxicological, biological, and physical-chemical principles underlying the risk assessment process, we can apply innovative, scientifically defensible approaches, rather than relying solely on standard regulatory methodologies. We are thus able to identify and successfully negotiate acceptance of the most cost-effective strategies.

REMEDIAL DESIGN & ENGINEERING

ENVIRON has successfully designed and overseen the implementation of a broad range of remedies for soils, sediments, ground water, buildings, and landfills, ranging from simple soil covers to the use of more sophisticated technologies. We typically rely on a multidisciplinary approach encompassing a spectrum of remedy design, engineering, and implementation services, including performing feasibility studies of alternative technologies, designing and conducting treatability studies, preparing design reports and final bid documents, and developing remedy drawings and design specifications.

Our multidisciplinary experience in environmental science, engineering, and site remediation allows us to effectively implement and complete projects related to landfill remediation,

Site Solutions

design of engineering control systems for landfills, and landfill closure. ENVIRON has designed and overseen the implementation of numerous systems for landfill emission control-recovery; biomass-to-energy conversion; leachate control, collection, and treatment; and waste stabilization, consolidation, and/or containment.

We also help clients evaluate and select cleanup contractors and coordinate and oversee the work of these contractors in the field. We offer professional management and project oversight throughout the equipment acquisition and field construction phases of the project, assisting in the preparation of specifications and construction bid documents, reviewing bid proposals, and assuring compliance with project specifications, budget, and schedule.

CHEMICAL FATE & TRANSPORT MODELING

ENVIRON's engineering and risk assessment capabilities are supported by our expertise in applying mathematical models to simulate chemical behavior in the environment, including ground water, outdoor/indoor air quality, surface water, sediments, and soil. Many risk-based remediation strategies rely heavily on fate and transport modeling to establish whether exposures exist (now or in the future) and to quantify the magnitude of those exposures in instances where they are likely to occur. ENVIRON is a recognized leader in all aspects of environmental modeling, including contaminant migration in ground water, vapor intrusion from subsurface sources into buildings, and chemical uptake in the food chain.

Fate and transport models can also be critical in the design and engineering of remediation systems. While we rely on simple, screening-level models when they will be most cost-effective in meeting project needs, we can develop more sophisticated modeling approaches when warranted. For example, based on a sophisticated three-dimensional ground water flow model with optimization routines, ENVIRON designed a plume containment system for a site in New Jersey, resulting in client savings of over \$100 million. Our expertise in chemical fate and transport modeling has been critical in supporting natural attenuation arguments for ground water at a number of sites.

PROJECT REVIEW & VALUE ENGINEERING

Clients often ask ENVIRON to peer review site investigation and remediation plans and to suggest modifications to achieve project goals more cost-effectively. For example, we have been successful in reducing the potential costs of implementing remedial designs through independent critical review of the design approach and constructability of a final design. This value engineering approach has resulted in potential savings of millions of dollars. Our independent quality assurance oversight

during construction ensures that work meets project specifications, regulatory requirements, and client's objectives.

ENVIRON's senior scientists routinely serve on peer review committees. For example, ENVIRON was represented on the National Research Council committee on the technical feasibility of restoring ground water quality. Our senior scientists have also acted as Subject Matter Experts on Independent Technical Review (ITR) Teams at more than 20 Army Installations across the US. These Teams were established to develop recommendations for cost-effective remediation of Army installations and to promote the use of risk-based approaches as decision-making tools.

CLIENT REPRESENTATION

ENVIRON's consulting engagements frequently involve substantial interaction with regulators and the public on our client's behalf. We have developed an outstanding reputation with regulatory agencies, forging the credibility and trust that are critical to a successful project. We can effectively synthesize and communicate complex technical, economic, and policy issues to successfully address both public and regulatory concerns.

BROWNFIELD REDEVELOPMENT SOLUTIONS

ENVIRON's approach of understanding project goals first, and then considering strategies for realizing those goals, is particularly valuable to our work with the development community, for whom projects entail creating something new from something old. We anticipate the environmental obstacles to development and prepare sound and defensible arguments that are put in place long before the obstacles are raised. For site redevelopment, we adequately integrate land use and building elements into optimum remediation and environmental control system options. This anticipation and advance preparation is key to reducing liability and maintaining project schedules, to which the economic viability of the entire endeavor is so closely tied. We remain acutely aware that time is money in the development process and that bringing the product to market in the available window of opportunity makes or breaks the financial performance of development. Our attention to the details of development drivers as they manifest in environmental management measures defines our successful participation in these projects.

EXPERIENCE

For 25 years, ENVIRON has assisted clients in all aspects of the site remediation process, including remedial investigation/feasibility study, remedy selection, remedial design, remedial action, removal actions, agency negotiations, and community relations. We are currently working on site redevelopment projects that include former hazardous waste treatment facilities, closed landfills, and former manufacturing sites.

www.environcorp.com/site_solutions



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EXPERTISE

Due Diligence

Environmental Management Systems (EMS)

Environmental Reporting

Waste Management

Phase I Environmental Review

Environmental Training

CREDENTIALS

M.S., Environmental Pollution Science, Brunel University, West London

B.S. (Hons), Environmental Sciences, Plymouth Polytechnic, Devon

Nicola Eury has more than fourteen years of wide ranging experience, specializing in international merger and acquisition environmental due diligence and liability assessments. Nicola has project managed multi-site international environmental audit programs in the UK and throughout Continental Europe, the US, South Africa, and Australia. She has also been responsible for the development of environmental compliance and management system reviews for major corporate clients. She has presented papers and provided training for FTSE100 company executives and lending managers on the due diligence process, auditing, and waste management. More recently, she has been involved with the development of ENVIRON's Greenhouse Gas (GHG) service offerings, including development of due diligence scopes to include GHG assets and liabilities, and the assistance of Corporate clients to assess their GHG Footprints. She is an Associate of the Institute of Wastes Management and a Principal Environmental Auditor with the Institute of Environmental Management and Assessment.

EXPERIENCE HIGHLIGHTS

- Served as Project Manager of due diligence acquisition audits for an international chemical company, as a part of their acquisition of the 112 ink production facilities. The environmental due diligence assessment included audit visits by ENVIRON and Associate auditors to 14 European facilities (Denmark, Finland, France, Italy, Italy, Norway, Spain, Sweden, Switzerland), plus audits of other facilities in the US, China, Indonesia, and Australasia.
- On behalf of a Norwegian power company, project manager during pre-divestiture audits of their gas turbine power stations in Scotland, UK, and Ireland.
- Served as Project Manager during pre-acquisition audits of 140 automotive accessories (industrial belts, rubber products and fuel systems) facilities. The project included audit visits to facilities in UK, Spain, Italy, Belgium, and France, in addition to telephone interviews and desk research relating to a further 21 facilities in Italy, France, Sweden, Argentina, Brazil, Germany, and UK.
- Led project for a Global Environmental Review of a major packaging company, comprising 98 facilities worldwide. Incorporation of Environmental Management Systems gap analysis, review of sustainability issues and identification of Key Performance Indicators for establishment of ongoing monitoring and reporting of environmental performance.
- Instrumental in the development and coordination of a waste vendor auditing association and steering committee to eventually comprise 25 International Blue Chip member companies. To date, Nicola has conducted twenty full compliance audits for WFAA, including co-disposal landfills, hazardous waste treatment and incineration, oil and solvent recovery and component recycling in the UK and Continental Europe. The audits focus upon compliance with the Duty of Care Regulations and site sensitivity and potential environmental risk to local receptors.





ENVIRON Locations

From a global network of offices and affiliates, ENVIRON has successfully completed projects in more than 50 countries. Our vision calls for expanding our international presence to areas of the world where our clients require services through the addition of strategically located offices and mergers or alliances that will enhance both our global presence and our service mix.



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