



Environmental Science & Engineering Partners, LLC

Statement of Qualifications

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“Making Brownfields Green”

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1 INTRODUCTION

1.1 ESE Overview

Environmental Science and Engineering (ESE) Partners, LLC is a full service environmental engineering consultancy, which specializes in Brownfields initiatives. In order to be an effective leader in the environmental community, we have developed a multi-disciplined team of environmental professionals. ESE diligently recruits from the top 10% of the industry's leading Environmental Engineers, Scientist, and Geologist.

ESE anticipates a client's needs by taking time to understand the specific objectives of a project. Success starts by listening to the problem and is delivered through experience, commitment, innovation, and quality. It is ESE's culture to take ownership of the problems our client's face and to celebrate each success, as if they were our own.

ESE is headquartered in Houston, Texas and provides global environmental engineering services to the public and private sectors. Our clients are made up of Oil and Gas Exploration companies, Chemical Producers, Manufacturers, Fabricators, Developers, Investors, Lenders, Brokers, Law Firms, and Government Agencies.

1.2 ESE Purpose

Our purpose is to recognize and deliver opportunity to stakeholders while at the same time improving the community's quality of life and economic basis through the reclamation of environmentally blighted properties.

1.3 Industry Sectors and Clients Serviced by ESE

OUR CLIENTS are global leaders in their respective businesses that have repeatedly come to ESE for consulting and management assistance. Our client list includes:

Amegy Bank	Duke Energy	Pacific Financial
Beazer Homes	ExxonMobil	Patriot Bank
Betz Company	General Electric	Phillips Development
Brown & Gay Engineering	INSITE Realty Partners	REMAX Commercial
BP	Johnson Development	Shell
BHP Billiton	KBR	Staubach
Caldwell Companies	Koch Pipeline	Terramark
ChevronTexaco	Live Oak Capitol	TrammelCrow
Cherokee Investment Partners	LJA Engineering	Trustmark Bank
City of Houston	Mitsubishi Holdings	TXU
Colliers International	National Oil Well Varco (NOV)	Vetco Gray
Crain Caton & James	NRG	US Zinc
Cushman Wakefield	OPUS	Weingarten Realty

2 QUALIFICATIONS

2.1 Areas of Expertise

ESE has conducted complex environmental assessments and compliance related services in connection with business transactions and operations throughout the region with a focus on Texas. Our experience ranges from preliminary transaction evaluations, Phase I and II Environmental Site Assessments, Remediation, Ecological Studies, Permitting, and Compliance Auditing for small undeveloped sites, to complex large industrial operations.

Environmental regulation is complex. Approaches to addressing soil and groundwater contamination, permitting, and ecological mitigation often depends upon subtle combinations of local, state, and federal requirements. ESE provides you with timely and efficient information in any transaction or compliance related matter, which includes an accurate life cycle cost forecasting model to take any site to regulatory closure or into compliance. Our experience has focused our team to provide efficient use of resources, which takes complex data and regulatory issues related to a given property, and then quickly translates complex data into actual costs to allow you to make the best transaction and or management decisions.

Members of the ESE team have extensive experience in managing environmental assessment, remediation, and compliance related projects under the Texas Commission on Environmental Quality's (TCEQ) Texas Risk Reduction Program (TRRP), Resource Conservation Recovery Act (RCRA), EPA's Superfund, and many other state and local programs associated with compliance and permitting of a facility. ESE's team has completed Affected Property Assessments and Reports (APAR), Response Action Plans (RAP), Remedy Standard A and B closures, Response Action Effectiveness Reports (RAER), Response Action Completion Reports (RACR), Post Closure Response Actions (PCRA), RCRA permits, Notice of Registration (NOR) updates and closures, storm water management plans, and spill plans.

ESE has managed TRRP actions for sites under the TCEQ's Corrective Action and Enforcement Sections. In addition ESE has received numerous Certificates of Completion (COC) for our clients through the TCEQ's Voluntary Cleanup Program (VCP) under TRRP and the former Risk Reduction Rules (RRR).

2.1.1 Phase I Environmental Site Assessments

We provide lender approved ASTM-E1527-05 and similar Phase I Environmental Site Assessments, and related transaction screens which are often required when a property transaction is externally financed. Basic elements of a Phase I Environmental Site Assessments include:

- Site history, based on personal interviews, review of aerial photographs, and historical research.

- Site reconnaissance, to identify visible signs of hazardous substances management or contamination.
- Regulatory compliance and data base review.
- EPA All Appropriate Inquiry (AAI) compliance.
- SBA compliance, when applicable.
- Optional services, such as asbestos surveys, wetlands determination surveys, lead based paint assessments, and radon assessments.

2.1.2 Phase II Environmental Investigations

If a Phase I assessment concludes that an environmental liability may exist, we often are retained to implement a Phase II investigation to confirm the presence of a problem and to help determine its scope. A Phase II investigation typically includes sampling of soil and groundwater, chemical analysis of the samples, data evaluation, and conceptual site modeling with software tools such as Rock Works, Surfer, and Mod-flow.

ESE's staff applies practical steps that can and should be taken to address ongoing releases and to protect human health and the environment. We help clients who seek protection as a Prospective Purchaser or a Contiguous Property Owner in identifying what constitutes Appropriate Care and Reasonable Steps to respond to suspected releases.

2.1.3 Phase III Remediation

When warranted, we will design and apply a practical site remediation program to meet regulatory and other criteria, whether it is through a risk based approach or physical remediation. ESE's Field Services Group, provides specialized environmental remediation and construction management services. ESE provides a single point of responsibility for all of your environmental needs.

2.1.4 Brownfields

ESE's brand promise is "Making Brownfields Green". ESE's Brownfields practice is the cornerstone of our consultancy.

ESE has a team of consulting professionals experienced and focused on Brownfields redevelopment. ESE has taken our local, state, and federal Brownfields experience and applied that expertise to the ever growing entrepreneurial market of redeveloping blighted properties for alternative end uses. ESE assists their clients with these initiatives by providing program management services which include budgetary project life-cycle cost model preparation, project strategy and outcome analysis, program enrollment assistance, site assessment, fixed price remediation, and regulatory negotiations. ESE has been responsible for the reclamation of former power plants, landfills, oilfields, and industrial sites for the purpose of residential and commercial redevelopment.

ESE also delivers a feasibility plan to Brownfields initiatives through budgetary estimation of environmental liabilities prior to the acquisition of a property in order to give our clients basis for negotiation with respect to environmentally impaired properties.

2.1.5 Compliance

In the world of ever changing environmental regulations, ESE's team has the ability to deliver compliance related services. Through experience, licensing, and continued education, ESE is an invaluable resource for those responsible for the environmental compliance of a facility. This assistance is delivered through the service of permitting, auditing, and inspection of facility operations regulated by environmental statutes, policies, and regulations.

2.1.6 Wetlands and Ecology

ESE's team includes biologist and ecologists, which specialize in wetlands determination, mitigation, and delineation. ESE's Range Land Ecologist, assists clients with threatened and endangered species studies which are often required before development of sensitive properties. Together, these scientists perform Environmental Assessments, and Qualitative Risk Assessments.

2.1.7 National Environmental Policy Act (NEPA) Documentation

ESE performs environmental assessments required to be conducted and documented in accordance with the federal standards of the NEPA Documentation [40 CFR Chapter V (Part 1500-1518)]. Environmental Assessments, Environmental Impact Statements, and Qualitative Risk Assessments have been conducted by ESE for transportation rights-of-way, pipeline corridors, power transmission easements, waterways, and other "sensitive" environments.

2.1.8 Oil and Gas Field Reclamation

ESE also has years of project management experience with environmental liabilities associated with oil and gas exploration, production, storage, and transportation. ESE has developed a team of Environmental Engineers, Geologists, and Scientists who specialize in oil field reclamation, spill response, remediation, risk assessment, and compliance. This team's experience has led them to work under numerous oil and gas regulatory agencies throughout the world. ESE has extensive experience working under the jurisdiction of the Railroad Commission (RRC) of Texas under the RRC Voluntary Cleanup Program.

A list and description of TRRP projects among others, completed by ESE are included as an attachment to this Capability Statement.

2.1.9 Environmental Management Systems

ESE has had years of experience managing environmental management systems for various clients. ESE has experience managing systems for large oil and gas companies monitoring and evaluating loss of containment for spills and leaks. ESE has experience in assisting various clients in establishing environmental management systems and fine tuning existing systems. ESE constantly works with the client to establish a system that best works for them.

ATTACHMENTS

Attachment 1
Services Summary and Representative Projects



Environmental Capabilities

ENVIRONMENTAL ASSESSMENTS, MANAGEMENT, AND COMPLIANCE

- Compliance Reviews
- Comprehensive Liability Assessment and Management
- Litigation Support Services
- Onsite Hazardous Waste Management
- Operational Assessments
- Permitting
- Phase I and II Environmental Site Assessments
- Real Estate Transactions
- TRRP Affected Property Assessments

GEOSCIENCES

- Geotechnical Investigations
- Groundwater Modeling
- Hydrogeologic Investigations
- Sampling and Monitoring
- Soil Testing
- Well Installation

ENVIRONMENTAL ENGINEERING

- Operation and Maintenance
- Permitting
- Spill Prevention Control and Countermeasures
- Treatment Systems Design
- Waste Minimization

POLLUTION PREVENTION

- Onsite Hazardous Materials Management
- Programming and Planning

RESTORATION / REMEDIATION

- Brownfields Planning
- Corrective Measures Studies
- Crude Oil / Sludge Treatment and Storage Tank Cleaning
- Decontamination and Decommissioning (Demolition)
- Excavation / Transportation
- Groundwater Remediation
- Municipal Setting Designations
- Preliminary Assessments / Site Investigations
- RCRA Corrective Actions
- Remedial Designs
- Remedial Construction
- Remedial Investigations / Feasibility Studies
- Sediment Remediation
- Soil Treatment / Stabilization
- Storage Tank Removal
- Surface Water Treatment
- Waste Treatment
- Waste Volume Reduction

RISK ASSESSMENT AND ECOLOGY

- Environmental Assessments
- Wetlands Delineation and Permitting
- Human Health and Ecological Risk Assessments
- Modeling and Sampling
- Toxicology
- TRRP Tier II and III PCL Development



Representative Projects

The projects listed below represent a portion of the types of projects that have been managed and worked on as a part of ESE's environmental consulting experience.

PROJECT: DUE DILIGENCE AND PHASE I ENVIRONMENTAL SITE ASSESSMENTS
CLIENT: VARIOUS COMMERCIAL, INDUSTRIAL, AND PETROCHEMICAL COMPANIES
Regulatory Driver: ASTM or Client Specified

ESE has performed numerous Due Diligence, Phase I Environmental Site Assessments, and Environmental Compliance Audits for various clients in the State of Texas and across the country. Activities included work plan development, visual site inspection, interviews, and compilation of reports. Assessed properties include vacant properties, residential facilities, commercial properties, industrial facilities, and bulk-oil storage facilities.

PROJECT: SH 36 CORRIDOR ASSESSMENT
CLIENT: TXDOT
Regulatory Driver: ASTM

ESE's team conducted a 42 mile corridor assessment for a highway widening project which extended from Rosenberg to Freeport, Texas. The assessment was conducted in accordance with ASTM 1527 standards. Findings from the investigation identified potential areas of concern associated with off-site facilities that may have impacted right-of-way. These findings were used to develop further scopes of work designed to confirm or deny the potential presence of soil and or groundwater impacts. The assessment also identified potential wetlands and habitats for potentially threatened and endangered species.

Project: Brownfields Redevelopment of Former Power Plant Site
Client: Cherokee Webster Development
Regulatory Driver: TAC 350, SW, RCRA, OSHA

ESE served as the Project Manager and Engineer for the Brownfields reclamation of the former Texas Genco Power Plant located in Webster, Texas for the purpose redevelopment of the 750 acre site as a master planned mixed use community located along Clear Creek. ESE was responsible for managing the 750 acre project from cradle to grave for the client, Cherokee Webster Development, which consisted of a joint venture between Cherokee Investment Partners, Johnson Development, and the City of Webster. The former gas fired power plant consisted of three boiler units (ranging from 100 to 180 feet in height), turbine decks, warehouses, office buildings, support structures, pipelines, and surface impoundments. Prior to acquisition of the property, ESE conducted the preliminary environmental due diligence assessments and feasibility studies for asbestos abatement, demolition, and environmental corrective actions. Upon completion of feasibility and the acquisition of the plant by Cherokee Webster Development, ESE implemented the actions necessary to complete the reclamation of the Site which included: preparation of Health and Safety Plans, preparation of SOWs and RFPs for public bid of the asbestos abatement and demolition services, preparation of asbestos abatement and demolition contracts, bid evaluations, contractor interviews, and bidder selection. ESE provided full time on-site construction management of all asbestos abatement and demolition activities for the removal of the three boiler units and all associated above and below grade structures. ESE was also responsible

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for managing the project schedule and budget and was responsible for delivering verbal updates to the City Engineer and City Council when requested. In addition to the demolition and abatement activities, ESE also conducted all of the necessary site assessment and remediation of soil, groundwater, and surface water in accordance with Texas Commission on Environmental Quality's Texas Risk Reduction Program's residential standards. ESE delivered the power plant operating area to Cherokee Webster Development as vacant land ready for redevelopment on schedule within 15 months.

PROJECT: CLINTON DRIVE COMPLEX DELINEATION/REMEDATION
CLIENT: KBR
REGULATORY DRIVER: TAC 350 TRRP WITH MSD

Designed assessment and closure strategy for approximately 30 acre industrial facility operated since the late 1800's. ESE designed a detailed assessment strategy, based on review of historic property use and limited environmental data, in order to identify, characterize, and delineate soil and groundwater impacts at the site. Additionally, ESE developed a closure strategy focusing on TCEQ closure through the Voluntary Cleanup Program (VCP) to residential standards. Recent and historic uses of the subject property include residential development, landfill, tank fabrication, pipe fitting, automotive and heavy equipment maintenance and repair, oilfield support services, sand blasting, painting, lumber milling and storage, and cotton/cotton seed oil processing.

In order to fully assess potential soil and groundwater impacts associated with over 100 years of varying industrial activity, ESE advanced approximately 100 soil borings, 50 temporary monitor wells, and 20 groundwater monitor wells. All assessment data was collected in accordance with the assessment strategy developed by ESE in order to satisfy the requirements of the Affected property Assessment Report (APAR) required under 30 TAC 350 TRRP for VCP closure. The assessment strategy implemented by ESE resulted in completion of assessment scopes within the projected budget and approximately 2 months ahead of schedule. This is currently an on-going project.

PROJECT: WETLAND DETERMINATION/DELINATIONS AND THREATENED AND ENDANGERED SPECIES REVIEW
CLIENT: VARIOUS
REGULATORY DRIVER: CLEAN WATER ACT AND THREATENED AND ENDANGERED SPECIES ACT

ESE's team has conducted numerous Wetland Determinations and Delineations in accordance with guidelines published by the U.S. Army Corps of Engineers in the 1987 Manual. ESE's team has also conducted Threatened and Endangered Species reviews, for various clients, as stipulated by the Threatened and Endangered Species Act. ESE has assisted many clients including real estate developers, oil field service companies, and the transportation industry through the delivery of wetlands and threatened and endangered species related services for raw land development and proposed corridor right-of-way studies.



PROJECT: CHLORINATED SOLVENT REMEDIATION IN SOIL AND GROUNDWATER
CLIENT: VARIOUS
REGULATORY DRIVER: TRRP

ESE has extensive assessment and remediation experience associated with chlorinated VOC contamination. ESE has performed over 100 assessments and over 30 remedial actions at chlorinated VOC impacted sites. The sites in this portfolio of projects include heavy and light industrial properties, refineries, petrochemical companies, dry cleaners, abandoned textile plants, and Brownfields sites. ESE has worked under the jurisdiction of the EPA, TCEQ, Superfund, and many other local and state environmental regulatory agencies throughout the United States, dealing with chlorinated solvent impacted sites. ESE has received numerous

regulatory closures or concurrences from various regulatory agencies throughout the United States for projects associated with chlorinated VOC impacts. ESE is currently managing an approximately \$4.5 million chlorinated solvent project portfolio for sites enrolled in the TCEQ's VCP. ESE's consultants have obtained over 20 FCOCs, CCOC and/or Innocent Land Owner Operator (IOP) Certificates from the TCEQ's VCP on behalf of their clients.

ESE has developed and successfully implemented chemical oxidation, enhanced bioremediation, and alternative risk based closure strategies for their client's sites which have significantly reduced overall project cost and time.

ESE has also been recognized as a leader in chlorinated solvent assessment and remediation by AIG and the TCEQ. Many of our clients have been referred to us by these entities due to our demonstrated understanding and success for these types of projects.

PROJECT: BROWNFIELDS REDEVELOPMENT
CLIENT: CITY OF HOUSTON
REGULATORY DRIVER: TRRP

Managed the environmental projects performed under the City of Houston's Brownfields Grant. Responsibilities included the development of the scopes-of-work for various Brownfields projects, management of environmental consulting services provided at various brownfields sites, presentations of project progress to the City of Houston's Land Redevelopment Committee, coordinating with brownfields stakeholders to facilitate communication, preparation of weekly progress reports, budget tracking, and invoicing. The types of projects managed under this program included former/abandoned dry cleaning facilities, gas stations, and light industrial sites. Chemicals-of-concern (COCs) included chlorinated solvents, petroleum hydrocarbons, and metals in both soil and groundwater.

PROJECT: TRRP VCP INVESTIGATION/APAR
CLIENT: SEARS
REGULATORY DRIVER: TRRP

ESE served as Project Manager for a VCP investigation at an undeveloped Site in Dallas for Sears. A critical driver for the project was timeframe in which the project had to be completed. We were able to meet the objectives of the project for the client within the expected timeframe



through significant interaction with the TCEQ and the ability to rapidly assimilate new information and adjust the project scope accordingly. Through development of Tier 2 PCLs, we were able to minimize the amount of remediation required at the Site. Identified COCs included petroleum hydrocarbons, arsenic, cadmium, lead, and PAHs. Since the TRRP rule adoption in 2000 we have completed over 100 assessments and corrective actions under this rule. We pride our selves in being one of the most experienced and educated consultants under this regulatory statute.

PROJECT: CRUDE OIL PIPELINE RELEASE SITES
CLIENT: VARIOUS NATIONAL PIPELINE COMPANIES (EL PASO ENERGY, CHEVRONTEXACO, CONOCO PHILLIPS, AND KOCH)
REGULATORY DRIVER: TEXAS RAIL ROAD COMMISSION (RRC)

ESE has completed field activities to delineate crude oil releases. We have also performed health-based risk assessments to determine site-specific cleanup goals for these pipeline release sites. Tasks included the development of work plans and budget estimates for various stages of the projects, completion and oversight of field activities, and reporting to the client and regulatory agency. Identified COCs included petroleum hydrocarbons, volatile organic compounds, and semi-volatile organic compounds.

PROJECT: OIL FIELD REDEVELOPMENT
CLIENT: MIS OF TEXAS
Regulatory Driver: RRC

ESE managed subsurface investigations and remedial action planning for a former oil production field which was purchased by the client for commercial redevelopment. ESE worked in conjunction with the Railroad Commission of Texas to develop work plans to complete the necessary subsurface investigations and remedial actions at the site. Identified COCs included petroleum hydrocarbons, RCRA Metals, and chlorides.

PROJECT: ENVIRONMENTAL LIABILITY MANAGEMENT
CLIENT: AIG (AMERICAN INSURANCE GROUP), HOUSTON, TEXAS
Regulatory Driver: Client Specified, TRRP, and RCRA

Assisted AIG evaluate Response Action Plans (RAP) in order to determine whether cost cap insurance policies should be given to a third party applicant. This process involved reviewing and testing the validity of past investigation activities and performing cost benefit analysis for the proposed RAP and other probable scenarios of outcome. This same service has been offered multiple times to AIG and other various insurance companies.

PROJECT: PIERCE JUNCTION
CLIENT: CHEVRONTEXACO
Regulatory Driver: RRC

Performed environmental due diligence investigations for a major oil company on former production fields located in Houston, Texas prior to their divestiture. The purpose of the investigations was to limit future environmental liability of the client through the identification of



potential areas of concern and establishing base line environmental conditions within the production fields prior to divestiture of the production fields by the client.

PROJECT: CARSON ROAD UST REMOVAL
CLIENT: CG 7600 LP
Regulatory Driver: TAC 350, RG-411

This is one of many underground storage tank removal and investigation projects completed by ESE. ESE removed two 10,000 gallon gasoline USTs from the ground and completed the necessary Release Determination Report as required under TCEQ regulatory guidance RG-411, which included results from soil and groundwater sampling activities. Upon completion of soil corrective action activities, the TCEQ issued regulatory closure for the site. This is one of over a dozen UST facilities that ESE has closed with issues related to soil and groundwater contamination.

Attachment 2
Resumés of Key Team Members



TITLE

President
ESE Partners, LLC
Houston, Texas

QUALIFICATIONS

Bachelor of Science, Bioenvironmental Science
Texas A&M University.

TRAINING

- OSHA Hazardous Waste Operations Emergency Response Supervisors Training
- February 1997 – TNRCC Seminar on Hazardous Waste Management and the Texas Voluntary Cleanup Program
- October 1999 – National Ground Water Association Course on Natural Attenuation for Remediation of Contaminated Sites
- February 2000 – Environmental Data Resources Seminar on Property Due Diligence
- April 2000 – University of Houston Course in the Texas Risk Reduction Program (TRRP)
- August 2001 – Texas A&M University System, Texas Engineering Extension Service Course in Remediation Technology “Introduction, Theory, Application, and Case Studies”
- March 2002 – Regenesys seminar on the effectiveness of reductive dehalogenation of chlorinated solvents in soil and groundwater through the application of ORC and HRC at sites located in southeast Texas

PROFESSIONAL AFFILIATIONS

- National Association of Environmental Professionals
- National Groundwater Association

Bryan Gay

Principal Environmental Scientist/ President

KEY SKILLS AND EXPERIENCE

Mr. Gay has fifteen years of experience providing project management and technical services for assessment and remedial activities associated with numerous sites throughout the United States. Mr. Gay has provided guidance for the design, construction and implementation of various types of remedial technologies, including: air sparge/soil vapor extraction, free product recovery, soil incineration, land farming, and assisted natural attenuation. His experience also includes performing **compliance audits**, **Environmental Impact Assessments**, subsurface investigations, developing and implementing public relations strategies for various communities in the vicinity of contaminated sites, provided environmental litigation support to attorneys, and Phase I and II Environmental Site Assessments for various commercial, industrial, and public sector clients throughout the United States. In addition, he has prepared Affected Property Assessments Reports, Plan A and Plan B Risk Based Assessments, Subsurface Investigation Reports, cost forecasting models, proposals, cost estimates, and feasibility studies for client accounts. Mr. Gay has also enrolled, managed and received closure for multiple Texas VCP sites.

Examples of Mr. Gay's experience include:

Environmental Due Diligence

Performed and managed greater than 100 compliance audits, Phase I ESAs, and Environmental Corridor Assessments throughout the United States for a variety of clients including lending institutions, insurance companies, attorneys, prospective owners, and sellers, refineries, asphalt facilities, concrete mix batch plants, oil-field service companies, metal fabricators, petrochemical plants, TxDOT, and explosive manufacturers.

Environmental Liability Management

Assisted major insurance companies evaluate Response Action Plans (RAP) in order to determine whether a cost cap insurance policy should be given to a third party applicant. This process involved reviewing and testing the validity of past investigation activities and performing cost benefit analysis for the proposed RAP and other probable scenarios of outcome. The types of sites include industrial properties with petroleum hydrocarbon and chlorinated solvent impacts, former rail yards, and decommissioned oil fields proposed for residential redevelopment.



KEY SKILLS AND EXPERIENCE CONTINUED

Risk-Based Closures and Site Assessment

Managed the site characterization and response actions of various sites under the Texas Risk Reduction Program (TRRP). The sites managed under this program include properties associated with petroleum hydrocarbon and chlorinated solvent impacts to soil and groundwater, from such sources as spills associated with industrial manufacturing, bulk fuel terminal releases, dry cleaning operations, and Class V Injection Wells

Brownfields Redevelopment

Responsible for managing the environmental projects performed under the City of Houston's Brownfields grant. Responsibilities include developing scopes of work and managing environmental consulting services provided at various Brownfields sites, oral presentations of project progress to the City's Land Redevelopment Committee, coordinating with Brownfields stakeholders to facilitate communication, preparing weekly progress reports, budget tracking, and invoicing.

Remediation

Managed multiple remediation projects which included underground storage tank and hydraulic lift sites, landfills, former fabrication facility, a natural gas gathering plant, and dry cleaning facilities. Problems have included impacts from petroleum hydrocarbons, pesticides, and chlorinated solvents.

Bryan Gay

Principal Environmental Scientist / President

Remediation Continued

Performed several innovative approaches to site characterization and cleanup including bioremediation, oxygen release compounds, dual-phase extraction systems, vacuum enhanced recovery wells, horizontal wells, and statistical interpretation and use of data to obviate need for remediation. Most projects completed in Texas under the Texas Risk Reduction Rules (RRR) and have resulted in substantial cost savings to clients.



TITLE

Vice President
ESE Partners, LLC
Houston, Texas

QUALIFICATIONS

Bachelor of Science, Civil Engineering
Auburn University

Masters of Science, Environmental Engineering
Auburn University

CERTIFICATIONS

Licensed Professional Engineer (PE)
State of Texas, 83145

Licensed Professional Engineer (PE)
State of Alabama, 21613

TNRCC Licensed Corrective Action Project
Manager (CAPM), CAPM 01339

TRAINING

- OSHA 40-Hour HAZWOPER Training with current annual refresher.
- Groundwater Services Inc. TCEQ TRRP Training Course.
- TCEQ Environmental Trade Fair and Conference Waste Remediation – TRRP Training.
- RBCA Services, Inc. Implementation of the New Texas Risk Reduction Program (TRRP) Rules.
- Wetland Training Institute Basic Wetland Determination.
- Foster Wheeler Environmental Report Preparation for **FERC Filings**.
- Shipley Group Clear Writing for NEPA Specialists.
- National Groundwater Association Groundwater Recovery and Treatment System Design.

PROFESSIONAL AFFILIATIONS

- Texas Association of Environmental Professionals
- Society of American Military Engineers
- North Texas Association of Energy Producers

Tim O'Neil, P.E.

Principal Environmental Engineer / Vice President

KEY SKILLS AND EXPERIENCE

Mr. O'Neil is an environmental engineer with seventeen years experience in environmental consulting. Mr. O'Neil has diverse experience in design, engineering, field operations, project management, regulatory interaction and negotiation, and reporting for a wide variety of clients including private residential and commercial/industrial developers, industrial facilities, school districts, financial institutions, city, county, and state governments/agencies, and federal facilities. Mr. O'Neil's engineering experience includes design of soils and groundwater remediation systems, UST removal, solid waste landfill design, **compliance permitting, economic feasibility studies,** and construction management. His experience also includes **environmental impact assessments,** subsurface investigations, risk-based closures, construction oversight, health and safety issues, and lead based paint (LBP) and asbestos containing material (ACM) assessment and abatement. In addition, he has prepared Site Investigation and Remedial Action Plans, Work Plans, Health and Safety Plans, and Construction Specifications and Bid Documents. Mr. O'Neil has received regulatory closure of various sites throughout Texas including sites in Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP), Petroleum Storage Tank Program (PST), and Innocent Owner/Operator Program (IOP) programs as well as closures through Railroad Commission of Texas (RRC) Site Remediation Division.

Examples of Mr. O'Neil's experience include:

Environmental Impact Assessments

Mr. O'Neil has been associated with the implementation and management of Environmental Impact Statements through his impact assessments in the area of land, water and air for transportation, pipeline and oil and gas exploration and production projects. Mr. O'Neil's primary responsibilities have been with assessing the potential risk of environmental impact associated with contaminants and their effect on human health through various exposure pathways.

Engineering/Design

Design of solid waste landfill cells, leachate collection systems, monitoring systems, and caps. Design of over 20 groundwater recovery and treatment systems for fuel spills throughout Texas. Design of soil, groundwater, and soil vapor remediation systems, feasibility studies, and excavation plans for impacts associated with hydrocarbons, oil and gas sites, chlorinated solvents, metals, herbicides/pesticides, and PCP and Dioxins. Clients: TCEQ, Lubrizol, ExxonMobil Pipeline, and El Paso Energy.



KEY SKILLS AND EXPERIENCE CONTINUED

Risk-Based Closures and Site Assessment

Managed the site characterization and response actions of various sites under the Texas Risk Reduction Program (TRRP) and Railroad Commission of Texas (RRC). The sites managed include properties associated with petroleum hydrocarbon, metals, chlorinated solvent, and PCP impacts to soil and groundwater, from such sources as spills associated with industrial manufacturing, oil and gas production, dry cleaning operations, and refineries. Clients: Beazer Homes, Crescent Machinery, RYKO Development, TxDOT, and City of Pasadena.

Remediation

Managed numerous remediation projects which included underground storage tank sites, oil and gas exploration and production facilities, industrial/manufacturing facilities, natural gas pipelines and compressor stations, bulk fuel/oil storage terminals, wood treating facilities, landfill and dump sites, petroleum refinery land treatment cells, and dry cleaning facilities. Remediation projects performed under TCEQ Risk Reduction Rules (RRR) and Texas Risk Reduction Program (TRRP) as well as Railroad Commission of Texas (RRC). Problems have included impacts from petroleum hydrocarbons, pesticides, herbicides, metals, PCPs, PCBs, dioxins, and chlorinated solvents. Clients: El Paso Energy, Exxon, ASG Realty Advisors, Woolly Tool Co., Beazer Homes, RYKO Development, Inc., Lubrizol, ExxonMobil Pipeline, Ruska Instruments, Sowell & Company, and Crescent Machinery.

Tim O'Neil, P.E.

Principal Environmental Engineer / Vice President

Performed several innovative approaches to site characterization and cleanup including soil vapor surveys, constituent of concern (COC) fingerprinting analysis for source identification and characterization, bioremediation, land application, dual-phase hydrocarbon/groundwater extraction systems, soil vapor extraction, air sparging, excavation, and implementation of engineering controls including groundwater gradient barriers, caps, solidification, and encapsulation. Most projects completed in Texas under TCEQ's Texas Risk Reduction Rules (RRR) and Texas Risk Reduction Program (TRRP) as well as under Railroad Commission of Texas (RRC). Remediation projects have resulted in substantial cost savings to clients while reducing exposure to liability through regulatory closure and achieving appropriate protective concentration levels (PCLs).

Environmental Due Diligence

Performed and managed greater than 250 Phase I ESAs, Environmental Corridor Assessments, compliance audits, Environmental Assessments (EA), and Environmental Impact Statements (EIS) throughout the southern United States for a variety of clients including lending institutions, attorneys, prospective owners and sellers, refineries, industrial facilities, petrochemical and pipeline companies, developers and builders, school districts, TxDOT, county and city transportation agencies, cities, and federal government facilities. Clients: United States Air Force, Lion Oil Company, TxDOT, Fort Bend County Toll Road Authority, City of Pasadena, Harris County, ExxonMobil Pipeline, Newland Communities, Nations Bank, Robinson Pipe, and Falcon Group.

**TITLE**

Project Environmental Scientist
ESE Partners, LLC
Houston, Texas

QUALIFICATIONS

Bachelor of Science, Environmental Science
Texas A&M University-Corpus Christi, Corpus
Christi, Texas

TRAINING

- 40-hour OSHA HAZWOPER
- Medic First Aid and CPR
- Wetland Delineation
- Wetland Plant Identification
- AutoCAD (2007 version)
- LogPlot
- TRRP
- SWP3 for Industrial Facilities

SOFTWARE

- MS Office
- AutoCAD
- LogPlot
- MODFLOW Groundwater Modeling

PROFESSIONAL AFFILIATIONS

- Member of Texas Association of Environmental Professionals
- Member of North American-Young Generation in Nuclear

Jennifer E. Mucci

Project Environmental Scientist

KEY SKILLS AND EXPERIENCE

Ms. Mucci has 5 years experience encompassing all aspects of investigation and clean-up of groundwater and soil on contaminated sites. This includes (but is not limited to) Direct-Push Technology (DPT) Geo-Probe and Hollow-Stem Auger Drilling, installation of wells, soil and groundwater sampling using low-flow sampling techniques. Other responsibilities include the interpretation of collected data and its organization into technical reports. Expansive knowledge with the components of the Texas Risk Reduction Program (TRRP), Ms. Mucci has completed Stormwater Pollution Prevention Plans (SWP3), Environmental Assessments and Wetland Delineations. Ms. Mucci has achieved TRRP closure for industrial sites.

Environmental Due Diligence

Ms. Mucci has managed and performed greater than 100 Phase I ESAs throughout the United States for various clients including lending institutions, attorneys, prospective owners and sellers, metal fabricators, automobile tire manufacturers, retail centers, and oil field service companies.

Environmental Liability Management

Assisted major property redevelopment companies in determining the potential liability associated with properties. This process involved assisting clients with potential regulatory options and possible outcomes. The types of sites involved included those with chlorinated solvent impacts, former electrical generating stations, and decommissioned oil fields.

Environmental Assessments

Ms. Mucci has extensive experience conducting ecological risk assessments, wetland determinations, and wetland delineations. These projects have been conducted for real estate developers, prospective owners, and oil field service companies.

Permitting

Assisted major companies in the management and compilation of SWP3 plans, SPCC plans, and RCRA permitting. Ms. Mucci has implemented RCRA audits for determination of operational and historical environmental liabilities for acquisition and merger decisions. RCRA activities also include the closure of operating NOR units through the TCEQ. These permitting activities have been conducted for major waste disposal companies, oil field service companies, metal fabricators, and decommissioned electric generating stations.

**TITLE**

Project Environmental Scientist
ESE Partners, LLC
Houston, Texas

QUALIFICATIONS

Bachelor of Science, Environmental Science
Texas A&M University-Corpus Christi, Corpus
Christi, Texas

TRAINING

- 40-hour OSHA HAZWOPER
- Medic First Aid and CPR
- Wetland Delineation
- Wetland Plant Identification
- AutoCAD (2007 version)
- LogPlot
- TRRP
- SWP3 for Industrial Facilities

SOFTWARE

- MS Office
- AutoCAD
- LogPlot
- MODFLOW Groundwater Modeling

PROFESSIONAL AFFILIATIONS

- Member of Texas Association of Environmental Professionals
- Member of North American-Young Generation in Nuclear

Jennifer E. Mucci

Project Environmental Scientist

(Experience continued)

Risk-Based Closures and Site Assessment

Managed the site characterization and response actions of various sites under the Texas Risk Reduction Program (TRRP). Ms. Mucci has prepared APAR reports, multiple closure reports, and has achieved regulatory closure under TRRP for numerous clients in various industries. The sites managed under this program include properties with petroleum hydrocarbon, metals, and chlorinated solvent impacts to soil and groundwater from sources such as spills associated with industrial activities, storage tanks, and dry cleaning operations.

Brownfields Redevelopment

Responsible for field work on projects performed under the City of Houston's Brownfields grant. Responsibilities included installation of groundwater monitor wells, soil and groundwater sampling utilizing low-flow sampling techniques, groundwater injection remediation, and monitored natural attenuation. The sites managed include properties with petroleum hydrocarbon impacts, metals, and chlorinated solvent impacts to soil and groundwater.

Remediation

Managed multiple remediation projects which included underground storage tank sites, former fabrication facility, and dry cleaning facilities. Chemicals of concern have included petroleum hydrocarbons, pesticides, and chlorinated solvents.

**TITLE**

Geologist
ESE Partners, LLC
Houston, Texas

QUALIFICATIONS

Bachelor of Science, Geology
Texas A&M University, College Station, Texas

TRAINING

- 40-hour OSHA HAZWOPER
- Medic First Aid and CPR
- Water and Waste Water Treatment
- Backflow Prevention

SOFTWARE

- MS Office
- AutoCAD
- Rockworks
- Surfer
- LogPlot
- MODFLOW Groundwater Modelling

PROFESSIONAL ASSOCIATIONS

- Association of Environmental & Engineering Geologist (AEG)
- Houston Geological Society (HGS)
- Texas Association of Environmental Professionals (TAEP)

Jeremy M. Jones

Geologist

KEY SKILLS AND EXPERIENCE

Since joining ESE Jeremy's, responsibilities encompass all aspects of investigation and clean-up of groundwater and soil on contaminated sites. This includes (but is not limited to) Direct-Push Technology (DPT) Geo-Probe and Hollow-Stem Auger Drilling, installation of wells, soil and groundwater sampling using low-flow sampling techniques. Other responsibilities include the interpretation of collected data and its organization into technical reports. Familiar with the components of the Texas Risk Reduction Program (TRRP), have helped design Stormwater Treatment systems, and Environmental Assessments.

Mr. Jones' experience includes:

- Ecological Risk Assessments
- Brownfields Initiatives
- Stormwater Treatment Plans
- Underground Storage Tank (UST) Removal
- Soil and Groundwater Sampling (Low-Flow)
- Environmental Impact Assessments (Ecological Emphasis)
- Groundwater Injection Remediation
- Monitored Natural Attenuation Projects
- Soil Classification
- APAR Report Preparation
- Quarterly Groundwater Report Preparation

As a Geologist, Mr. Jones has performed Environmental Assessments by gathering extensive site information and completed reports on both undeveloped and industrial properties during scoping phases of an EIS. Other responsibilities include performing Phase I ESA's, Stormwater treatment feasibility assessments, design and installation and project management. Mr. Jones has also conducted various Phase II investigations and reporting. Mr. Jones has assisted in the collection of data collection, and report preparation under TRRP and achieving closure.