



# EXCALIBUR GROUP, LLC

ENVIRONMENTAL CONSULTANTS, ENGINEERS & LIABILITY MANAGEMENT EXPERTS

## KEY STAFF

**Mr. Jim Ackerman, P.G. Senior Geologist.** Mr. Ackerman is a Senior Geologist with over 30 years of geology and project management experience in the environmental and geotechnical fields. Mr. Ackerman holds a B.S. in Geology from The Pennsylvania State University. He is a licensed Professional Geologist in North Carolina, Pennsylvania and Missouri. Over his career he has conducted and led a broad range of environmental and engineering projects including planning and managing remedial investigations, designing test boring and groundwater monitoring programs, evaluating hydrogeologic conditions, and preparing comprehensive technical reports and proposals. Mr. Ackerman has extensive field investigation experience and has expertise in subsurface exploration, monitoring well construction and environmental sampling.

Mr. Ackerman has also supported the insurance industry performing expert technical evaluations of prospective sites and properties in support of the environmental insurance underwriters. This work included reviewing site documentation, assessing the level and quality of site characterization, judging the potential for unknown on- and off-site contamination, and assessing the potential risk of bodily injury, property damage, and natural resource damages claims.

Mr. Ackerman has provided environmental consulting to industry and government clients in 12 different states under various regulatory programs including UST, RCRA, and CERCLA. Projects he has led include chrome site investigation, Superfund landfill site RI/FS, production well field chlorinated solvent contamination investigation, lead and zinc mining waste impact evaluation, mining subsidence evaluation, multiple UST evaluations and closures, hydrogeologic studies, abandoned mine and mine drainage investigations. Mr. Ackerman provides expert geological and hydrogeological



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technical support in **EXCALIBUR**'s Site Characterization and Engineering & Remediation practices.

Mr. Ackerman holds a B.S. in Geology from The Pennsylvania State University. He is a licensed Professional Geologist in North Carolina, Pennsylvania and Missouri.

***Mr. Geoff Back, M.S., P.E.A., Senior Branch PM and Due Diligence Practice Manager.***

Mr. Back is a senior consultant, professional environmental auditor, and EH&S due diligence / business transaction specialist with over 30 years experience in the environmental consulting industry. Mr. Back holds a M.S. degree in Public Health, Environmental Science and Engineering from the University of North Carolina-Chapel Hill and a B.A. with High Honors in Biology from Kenyon College, summa cum laude. Mr. Back directs **EXCALIBUR**'s Environmental Due Diligence and Phase I ESA practice and leads other environmental consulting projects in **EXCALIBUR**'s Technical Expertise serve area. Mr. Back is a member of the American Society for Testing and Materials (ASTM) subcommittee responsible for developing and updating ASTM E 1527, the nationally recognized Standard Practice for Environmental Site Assessments.

As a senior environmental due diligence assessor, Mr. Back has designed and conducted merger & acquisition/divestiture assessments and compliance audits for domestic and international law firms, businesses, investment funds, and other clients. From multi-billion dollar business acquisition to commercial property sales, or third-party reviews of prior assessment reports his assignments—over 750 projects in all—have spanned a wide range of industries across the globe as well as various commercial/retail operations and military installations. Each has been delivered within critical timeframes, on budget, and usually without needing any material revisions.

By virtue of his broad exposure to assisting all sides of a transaction — buyers, sellers, investors, lenders, and attorneys — Mr. Back tailors his work products to recognize (if



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not actually speak to) each perspective. Time and again his clients have trusted his judgment and input as a member of the transaction team, knowing his work product will be exactly what is needed to support the high profile and often time-sensitive negotiations.

Mr. Back also participates in wide range of other environmental assessment and engineering projects. For example, he is a member of Excalibur's senior team of environmental claim reviewers conducting detailed third party reviews of claims presented for reimbursement to the successful \$300M Pennsylvania UST Indemnification Fund (PAUSTIF). Mr. Back also completed projects for the U.S. Departments of Energy and Defense, assisted the USEPA's Office of Underground Storage Tanks in developing the corrective action regulations for petroleum USTs, and, in the 1980s, conducted market studies and surveys of the commercial hazardous waste management industry.

Mr. Back holds a M.S. degree in Public Health, Environmental Science and Engineering from the University of North Carolina-Chapel Hill and a B.A. with High Honors in Biology from Kenyon College, summa cum laude.

***Ms. Waverly Braunstein, B.A., Sr. Chemist & Data Validation / QC Manager.*** Ms. Braunstein has over 26 years of broad-based environmental chemistry and quality assurance experience supporting EPA, United States Army Corps of Engineers (USACE), Department of Energy (DOE), and other state and federal programs. Ms. Braunstein holds a B.A. degree in Chemistry from Wesleyan University and has completed course work for an M.S. degree in Environmental Sciences and Engineering from Virginia Polytechnic Institute and State University. In recent years, Ms. Braunstein's primary focus has been overall management of all chemical analytical efforts for site assessments, remedial investigations, and remedial actions for USACE and private



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clients. In support of these efforts she has prepared quality assurance project plans (QAPPs), evaluated and selected analytical laboratories; coordinated field and analytical activities; identified and resolved field and analytical QA problems; performed and/or managed data validation; managed, reviewed, and distributed resulting analytical databases; and prepared QC summary sections for RI/FS, SRI, and RA reports. Ms. Braunstein has validated hundreds of data packages in accordance with USEPA, USACE, and method and project specific requirements for inorganics, semivolatile organics, volatile organics, total petroleum hydrocarbons, pesticides, PCBs, herbicides, explosives, and agent degradation products in water, soil, sediment, and tissue matrices.

In addition, Ms. Braunstein has over seven years of experience in both commercial and DOE environmental laboratories, including more than six years of bench-level experience preparing and analyzing air, biological tissue, hazardous waste, oil, sediment, soil, and water for organic constituents using various gas chromatographic (GC) methods. She has analyzed and produced the associated documentation for more than 5000 environmental samples using EPA methodologies. She has also managed and operated on-site gas chromatography laboratories for the analysis of volatile organics in water and air. Ms. Braunstein also has more than three years of supervisory experience in environmental laboratories in which she was responsible for managing 10 chemists and technicians and more than 20 laboratory projects. Ms. Braunstein was also responsible for developing and then supervising the Special Projects Department of a major environmental laboratory, and was the Quality Assurance Chemist for a prominent environmental laboratory located in Southern California for two years. Ms. Braunstein is **EXCALIBUR's** lead chemist responsible for monitoring QA/QC of subcontract laboratories and validating laboratory analytical results for litigation-related projects or for client-specific requirements under **EXCALIBUR's** Technical Expertise service area.



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Ms. Braunstein holds a B.A. degree in Chemistry from Wesleyan University and has completed course work for an M.S. degree in Environmental Sciences and Engineering from Virginia Polytechnic Institute and State University.

**Mr. Robert Breakwell, P.G., Senior Hydrogeologist / Project Manager.** Mr. Breakwell is a senior hydrogeologist and project manager with over 25 years of environmental experience in environmental site assessments, groundwater and surface water quality characterizations, hydrogeologic evaluations, waste and landfill permitting, litigation support, and remediation. Mr. Breakwell holds a B.S. in Geology from The Pennsylvania State University and is a Licensed Professional Geologist in Pennsylvania. Mr. Breakwell has led the geologic, hydrogeologic, and groundwater assessment work for more than 50 industrial, utility, and commercial sites located in several states including subsurface characterization work for four hazardous waste disposal facilities located in Missouri, Ohio, and Pennsylvania under a variety of regulatory programs including the Pennsylvania Department of Environmental Protection's Act 2 program and the USEPA's RCRA and EE/CA programs. Mr. Breakwell has additional specialized experience in LNAPL and DNAPL studies including tracer dye programs, surfactant injection research, remedial design of customized in-situ groundwater and soil vapor extraction components, aerial photograph interpretation, geophysical measurement logging and interpretation relative to bedrock stratigraphy, structure, and jointing, aquifer characterization and analyses. Mr. Breakwell has also led the technical efforts needed for the geologic and hydrogeologic modules for deep mine expansion permits in Pennsylvania. He currently leads geological / hydrogeological efforts in **EXCALIBUR's** Site Characterization and Engineering & Remediation service areas and serves as a senior technical resource for geological / hydrogeological or related evaluations.



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Mr. Breakwell holds a B.S. in Geology from The Pennsylvania State University and is a Licensed Professional Geologist in Pennsylvania.

**Mr. Mike Lowe, P.E., Project Engineer / Claims Investigator.** Mr. Lowe is a civil / environmental engineer with over 20 years experience conducting a broad range of civil and environmental engineering, remediation, and construction management projects in over a dozen states. Mr. Lowe holds a B.S. in Civil Engineering from Virginia Polytechnic Institute and State University. He is a licensed Professional Engineer in Virginia. Mr. Lowe successful lead engineering project efforts for private and public sector clients working at state and federally regulated petroleum UST and hazardous waste sites. He has a demonstrated track record successfully implementing key phases of site assessment, remediation and engineering work from conceptual design to project closeout including detailed reviews of consultant-developed engineering designs, complex project scheduling / tracking, cost estimating, interfacing with property owners, and citizens groups, coordinating public utility relocations, developing bid documents and construction contracts, and soliciting / evaluating contractor bids. Mr. Lowe's characterization and site restoration experience includes Brownsfields redevelopment, public and private sector sites under state, UST, RCRA, CERLA and other federal regulatory programs. He currently provides technical and engineering evaluations and analyses for **EXCALIBUR**'s site restoration and insurance claims oversight projects under **EXCALIBUR**'s Engineering & Remediation and Petrochemical Cleanups service areas. He also brings his experience / knowledge of commercial and industrial operations to Excalibur's due diligence practice.

Mr. Lowe holds a B.S. in Civil Engineering from Virginia Polytechnic Institute and State University. He is a licensed Professional Engineer in Virginia.



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**Ms. Rachel Miller, Contract / PM Support Specialist.** Ms. Miller is a financial information systems management specialist with over 7 years experience of project and program management support. At **EXCALIBUR**, Ms. Miller supports project controls functions that account for project resource expenditures and providing **EXCALIBUR**'s project managers and clients with up to date information on project progress and problems relative to work scope requirement and budget. Ms. Miller works hand in hand with **EXCALIBUR**'s project managers to ensure that projects are completed on budget with effective client communications on work progress every step of the way.

**Mr. Lawrence M. Martin, P.E., Senior Engineer / Project Manager.** Mr. Martin has over 30 years project management and engineering experience on a range of environmental assessment and remediation projects. Mr. Martin holds both a M.S. and a B.S. in Civil Engineering from Lehigh University. He is also a registered Professional Engineer. Mr. Martin's technical experiences include hydrogeological evaluations, groundwater pumping and conveyance system design, groundwater supply and construction dewatering evaluations, extraction well design and selection, chemical data interpretation, treatment system selection, and groundwater modeling.

Mr. Martin has managed, led or provided senior engineering support on a variety of contaminated sites including, a combination Gore-Sorber soil gas survey / soil boring program at a New Jersey Superfund site, arsenic contaminated soil pre-remediation delineation at Superfund site, injection well system expansion design, California hazardous waste storage facility design, ozone-peroxide groundwater treatment system design-build, turnkey remedial design / remedial action at major airport in New York, lead / arsenic waste stabilization, design / build of large-scale air sparge / SVE system using 197 sparge wells and 77 SVE wells, remedial design / remedial action at Vermont Superfund site, pesticide soil remediation at New Jersey site, stream restoration at Massachusetts site, design and construction of in-situ treatment of groundwater to remove iron and manganese from potable water supplies, coal tar seep





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evaluation, Pennsylvania municipal well field VOC source investigation, crude oil release evaluation at Pennsylvania bulk storage tank farm as well as other similar projects. Mr. Martin serves as one of **EXCALIBUR**'s professional engineers providing technical support to **EXCALIBUR**'s Engineering and Remediation service area.

Mr. Martin holds both a M.S. and a B.S. in Civil Engineering from Lehigh University. He is also a registered Professional Engineer.

**Mr. Joe Ozog, P.G., Sr. Scientist / Claims Investigator.** Mr. Ozog is a professional geologist and consultant with specialized training and more than 20 years experience practicing environmental geology and in site remediation. Mr. Ozog holds a B.S. degree in Geology from the University of Pittsburgh and is a registered Professional Geologist in PA. Mr. Ozog holds a Bachelor of Science Degree in Geology and with more than 20 years of environmental consulting experience he has established a solid track record and an earned client reputation for his technical consulting and managing skills in developing and implementing insightful, efficient and effective plans addressing a wide variety of site characterization and remediation projects. Mr. Ozog's areas of expertise includes Phase I and Phase II assessments, asbestos inspections, site characterizations, radiological investigations / surveys, drilling of test borings, well design, drilling, and installation, geologic stratigraphy characterization and mapping using rock and soil cores and other site data, conducting aquifer tests and analyzing slug and pump test data, statistical analysis of laboratory analytical data, tri-linear diagramming, hydrogeochemical characterization modeling, geotechnical evaluations, UST removals, soil excavation planning and oversight, groundwater and surface water sampling and remediation system design. He has a strong experience-based knowledge of Pennsylvania Act 2 and UST as well as other state and federal regulations. He currently brings his technical, scientific expertise to a variety of **EXCALIBUR** projects and clients under **EXCALIBUR**'s Site Characterization, Petrochemical Cleanup and Engineering & Remediation service areas. Mr. Ozog is





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OSHA 40-hour health and safety trained and annually refreshed and is a certified Asbestos Building Inspector in multiple states.

Mr. Ozog holds a B.S. degree in Geology from the University of Pittsburgh and is a registered Professional Geologist in PA.

**Mr. Will Peyton, Environmental Specialist.** Mr. Peyton is a seasoned environmental specialist with broad based training and over 15 years experience in the industry. His diverse experience and skill sets include anthrax chlorine dioxide decontamination design and on-site Level A oversight work conducted at the Hart Senate Office Building, Washington, D.C., directing and completing on-site removal of soil contamination at UXO site, supervising and managing abatement of asbestos-containing materials (ACMs) in public schools for the Army Corps of Engineers. Mr. Peyton has also completed lead paint remediation, demolition planning and oversight, RCRA closures, UST removal and cleanups, design and implementation of chemical oxidation and other remedial pilot testing and Phase I and Phase II environmental investigations. Mr. Peyton provides advanced planning, manages and provide in-field QA/Q/C for **EXCALIBUR**'s on-site assignments in various service areas.

Mr. Peyton holds a Virginia Asbestos Inspector License and is trained for Hazardous Waste Activities per OSHA 29CFR 1910.120.

**Mr. Bryan Roberts, P.G., Principal Geologist.** Bryan Roberts has over 30 years experience as a hydrogeologist and project manager designing, implementing, managing, and budgeting complicated groundwater, soil, and underground storage tank (UST) investigations, assessing insurance risks and insurance claims management. Mr. Roberts holds a B.A. in Geology from Western State College and is a M.S. candidate in Hydrogeology at San Jose State University, San Jose, California, and



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is registered as a Professional Geologist in Tennessee. Mr. Roberts' expertise in underground storage tank (UST) testing, characterization, removal, replacement, closure and remediation was recognized by several clients during his hands-on Project Manager and Lead Geologist/hydrogeologist on several large multi-facility UST management programs. In each of these multi-facility, UST programs, Mr. Roberts played the critical technical and project oversight role. Three such sample UST management programs managed by Mr. Roberts covered hundreds of USTs: a 7-year program for the U.S. Postal Service (over 100 USTs); a 5-year project covering USTs at over 200 telephone facilities in 10 states; and a program for the Washington D.C. Public School System (126 USTs).

Mr. Roberts has provided risk management guidance for dozens of environmental insurance policy quotes for commercial and industrial portfolios and sites worldwide. He leads Excalibur's team of environmental insurance risk assessment professionals in evaluating the potential of environmental insurance claims exceeding the self-insured retention for both new and pre-existing conditions, and has consulted on a range of topics such as policy eligibility, contamination sources, contaminant release timing, co-mingled releases, petroleum forensic dating, and other topics. His team routinely makes insightful and critical recommendations to clients on risk avoidance on Pollution Premises policies covering mergers and acquisition site portfolios, UST coverage portfolios, Contractor's Pollution Liability policies covering new construction and other environmental insurance instruments.

Mr. Roberts also supports insurance clients in the management of environmental claims to ensure efficient and effective spending under policy terms and conditions. His extensive hands on experience working in the environmental field to characterize, remediate and close sites has equipped him with what has been needed to save



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insurance clients millions of dollars in unnecessary or inappropriate work and/ or unreasonable billings for reimbursement.

Mr. Roberts has extensive experience managing environmental construction projects ranging from first-hand supervision of construction, demolition, utility installation, complex well installations, trenching, remedial system installations, system trouble shooting and start-ups, to other related environmental construction work elements. He has personally supervised the closure of over a hundred separate facilities with leaking USTs in multiple states. His broad based experience has enabled Mr. Roberts to gain extensive insights into cost effective field procedures which emphasize effective screening over more time consuming sampling programs. This experience has also enabled him to develop personal relationships with multiple state and federal environmental regulators often resulting in stream lined negotiations, facility closures, and permitting. He has received site safety officer training through personal safety Level A, and leads **EXCALIBUR**'s Site Characterization practice. He holds a B.A. in Geology from Western State College and is a M.S. candidate in Hydrogeology at San Jose State University, San Jose, California, and is registered as a Professional Geologist in Tennessee.

**Mr. Eric P. Roberts, P.E., P.G., Principal Engineer.** Mr. Roberts is both a certified professional geologist and professional engineer with over 25 years of remediation, engineering, consulting, site assessment, legal services support, environmental liability management, insurance risk assessment and claims management, and related environmental experience. He received a B.S. in Geology and an M.S. in Civil Engineering, both from the University of Maryland, and is registered as a professional engineer (P.E.) in Maryland, Virginia, Ohio, Connecticut and Pennsylvania and is certified as an Industrial-II Waterworks and Waste Systems Operator in Maryland. He has personally completed and managed the design, installation, and O&M of dozens of



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remediation systems and regulated site closures under RCRA, CERCLA, UST and other regulatory-driven projects in the United States and Europe. Mr. Roberts has applied his significant experience and technical skills to develop and negotiate very creative, yet practical, site closure solutions favored by his clients and the regulators alike. Consistent creation of such win-win scenarios have resulted from Mr. Roberts' ability to interpret detailed field investigation and site characterization results relative to identifying remedies most appropriate for his customers.

In pursuit of his clients' interests and advocacy, he has evaluated emerging and established remediation technologies to identify the most appropriate site-specific applications. Similarly, Mr. Roberts has also completed bench- and pilot-scale feasibility testing of numerous remedial and wastewater treatment technologies, designed the remediation systems, estimated construction and installation costs, developed construction bid specifications, managed construction, and performed system trouble-shooting and start-up for several types of soil and groundwater remediation applications. For many of these systems, Mr. Roberts has used his expertise to further control downstream costs by integrating the operation, maintenance, and monitoring components into the systems he designs and installs. This approach, which has often relied on the use of computerized telemetry remote sensing equipment tied into his office, has allowed him to optimize the performance of remedial systems while saving travel time and costs associated with more traditional, labor intensive manual approaches.

Mr. Roberts has directed and completed over 30 full-scale remediation system designs and installations for industrial, commercial and public clients, many which included the integration of combinations of proven and emerging technologies. Recent examples include: multi-phase extraction/treatment; air sparging/soil vapor extraction/treatment;



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enhanced in-situ and ex-situ bioremediation; in-situ chemical oxidation; selective excavation; in-well air stripping; and other technologies.

Mr. Roberts has nearly 20 years hands-on experience supporting the environmental insurance and related environmental fund industries, specializing in both technical and related business aspects of identifying, addressing, costing, verifying and managing environmental releases covered by some sort of insurance coverage. He has considerable experience in determining the eligibility and magnitude of environmental claims, assessing the reasonableness and appropriateness of technical measures proposed by claimants to address the spills, leaks and other releases, as well as providing much-needed engineering and remediation insights leading to notably cost effective remedies under coverage. He has also led scores of objective competitive bidding efforts for claim investigation and response actions by independent contractors, developed and totally let bid packages and coordinated with and advised clients on these competitive efforts to ensure technical completeness and value under available insurance and related coverages.

Mr. Roberts has published numerous technical articles and papers and is a principal author on of a recent text book on designing and implementing air sparging and soil vapor extraction technologies sponsored by the U.S. EPA, DOD, DOE, and the American Academy of Environmental Engineers. He received a B.S. in Geology and an M.S. in Civil Engineering, both from the University of Maryland, and is registered as a professional engineer (P.E.) in Maryland, Virginia, Ohio, Connecticut and Pennsylvania and certified as an Industrial-II Waterworks and Waste Systems Operator in Maryland. Mr. Roberts leads **EXCALIBUR**'s Engineering & Remediation service area, and the company's Environmental Insurance and Claim Support service area, and provides senior level technical support to **EXCALIBUR**'s other service areas.



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**Mr. Michael Smith, Chief, Field Services.** Mr. Smith has more than 20 years experience in providing environmental field services to a wide variety of petroleum retailers, distributors, refiners and other companies and has developed a reputation as a technical expert in remediation system operation, performance optimization, equipment maintenance, trouble-shooting / repair, system monitoring and other site environmental operations. Mr. Smith is a certified Class II Industrial Wastewater Operator and is trained for Hazardous Waste Activities per OSHA 29CFR 1910.120, Hazardous Materials Transportation per DOT 49CFR 172H, Excavation & Trenching Safety per OSHA 29CFR 1926P, Confined Space Entry per OSHA 29CFR 1910.146 and Electrical Safety per OSHA 29CFR 1910.332 & 1926.416. Mr. Smith has developed a reputation as a technical expert in site environmental operations. He has successfully completed field service assignments at more than 100 petroleum and other contaminated sites. His extensive client following results from his strong communication and management skills as well as his understanding of client's bottom line and the need to minimize disruption to facility operations during site activities. Mr. Smith's areas of expertise include planning and completing on-site construction work, source area excavation, soil screening and management, interim remedial measures, product recovery, remediation system installation, operation and maintenance, permit compliance air and water process stream sampling, groundwater monitoring and sampling, and construction cost estimating. He has constructed, operated and maintained and decommissioned a broad spectrum of remediation systems including technologies such as soil vapor extraction, air sparging, groundwater extraction and treatment, high-vacuum multi-phase extraction, and in-situ and ex-situ bioremediation. Mr. Smith currently schedules, manages and implements **EXCALIBUR's** Field Services projects.

Mr. Smith is a certified Class II Industrial Wastewater Operator and is trained for Hazardous Waste Activities per OSHA 29CFR 1910.120, Hazardous Materials



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Transportation per DOT 49CFR 172H, Excavation & Trenching Safety per OSHA 29CFR 1926P, Confined Space Entry per OSHA 29CFR 1910.146 and Electrical Safety per OSHA 29CFR 1910.332 & 1926.416.

**Mr. David Seaman, Manager, Remediation Field Services.** Mr. Seaman has more than 20 years of environmental field services experience and widely regarded as a technical expert in remediation system operation, performance optimization, equipment maintenance, trouble-shooting / repair, system monitoring and other site environmental operations. Mr. Seaman is a certified Class II Industrial Wastewater Operator and is trained for Hazardous Waste Activities per OSHA 29CFR 1910.120, Hazardous Materials Transportation per DOT 49CFR 172H, Excavation & Trenching Safety per OSHA 29CFR 1926P, Confined Space Entry per OSHA 29CFR 1910.146 and Electrical Safety per OSHA 29CFR 1910.332 & 1926.416. He acquired much of his field expertise working for one of the largest publicly held environmental consulting and engineering companies in the world where he was soon promoted to manage all field services in one of the most productive offices in the country. Mr. Seaman has assisted in the design and has implemented a wide variety of remedial solutions for petroleum and other contaminated sites located in the Mid-Atlantic region. At the request of his clients, he has taken over many remedial system installations from other consultants who were unable to operate and maintain the equipment to the satisfaction of the customer. His excellent rapport with both site personnel and corporate client contacts has resulted in a remarkable customer following ranging from major oil to petro-chemical Fortune 500 companies. Mr. Seaman has installed, operated, maintained, repaired, upgraded, and decommissioned remediation systems involving soil vapor extraction, air sparging, groundwater extraction and treatment, high-vacuum extraction, in-situ and ex-situ bioremediation and other technologies. He currently manages field remedial operations under Field Services at **EXCALIBUR**.





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Mr. Seaman is a certified Class II Industrial Wastewater Operator and is trained for Hazardous Waste Activities per OSHA 29CFR 1910.120, Hazardous Materials Transportation per DOT 49CFR 172H, Excavation & Trenching Safety per OSHA 29CFR 1926P, Confined Space Entry per OSHA 29CFR 1910.146 and Electrical Safety per OSHA 29CFR 1910.332 & 1926.416.

**Ms. Cynde Sears, M.A., Sr. Regulatory & Compliance Training Specialist.** Ms. Sears has over 30 years teaching and professional training experience in environmental sciences and on federal, state and local environmental regulations. Ms. Sears holds a M.A. degree in Environmental and Resource Policy from George Washington University and a B.S. degree in Geology from George Washington University. Additionally, Ms. Sears has received extensive training at the Emergency Management Institute. She was named in "Who's Who of America's Teachers" in 1992 and received the Klingenstein Award for Excellence in Teaching (Columbia University) in 1987. She has provided senior-level regulatory, technical, and communications support to Federal and state environmental programs and regulated entities including managing more than \$3 million in individual work assignments and task orders; served as Deputy Contract Manager on multi-million dollar mission support contract to EPA; served as on-site contract manager and environmental expert for U.S. Army's chemical weapons destruction program. Ms. Sears offers subject matter expertise, training, document development, meeting planning and execution, and other services to Federal and state environmental programs. Along with other EXCALIBUR staff, Ms. Sears wrote the USEPA's Office of Underground Storage Tanks Guide to Reviewers of Corrective Action Plan. Ms. Sears prepares course and presentation material for conferences and webinars EXCALIBUR holds for its environmental insurance and other clients.

Ms. Sears holds a M.A. degree in Environmental and Resource Policy from George Washington University and a B.S. degree in Geology from George Washington



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University. Additionally, Ms. Sears has received extensive training at the Emergency Management Institute. She was named in "Who's Who of America's Teachers" in 1992 and received the Klingenstein Award for Excellence in Teaching (Columbia University) in 1987.

***Dr. Ross M. Tabachow, P.E., Sr. Environmental Engineer / PM.*** Dr. Tabachow is a civil / environmental engineer with over 15 years experience in the environmental industry focused on site characterization and remediation with additional consulting experience in developing, designing and implementing environmental management systems for large organizations. Dr. Tabachow holds a Ph.D. and M.S. degrees in Environmental Engineering from Duke University, and a B.S. degree in Civil Engineering from the University of Maryland at College Park. He is a registered and certified in multiple states as a professional engineer. His wide ranging environmental experience includes remediation system design, construction bid specification preparation, specialty contractors procurement, construction management and oversight, project planning, permitting, preparing SPCC plans, system operation & maintenance, remedial system performance evaluations, sediment and erosion control plans, demolition, UST removal / closure oversight, hazardous waste investigations, groundwater flow modeling and project management. Dr. Tabachow has lead and provided engineering support on dozens of projects located in east coast states from New York to Florida in addition to other locations. His experience includes public and private sector sites under state, UST, RCRA, CERLA and other federal regulatory programs. He currently provides technical engineering evaluations & analyses and project management for **EXCALIBUR**'s site restoration and insurance claims oversight projects under **EXCALIBUR**'s Site Characterization, Technical Expertise and Engineering & Remediation service areas. Dr. Tabachow is currently managing a portfolio of legacy multi-state environmental sites for a Fortune 500 company under Excalibur's Environmental Liability and Asset Management Service area.



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Dr. Tabachow holds a Ph.D. and M.S. degrees in Environmental Engineering from Duke University, and a B.S. degree in Civil Engineering from the University of Maryland at College Park. He is a registered and certified in multiple states as a professional engineer.

***Mr. Stephen L. Wendt, M.S., Environmental Liability and Asset Management Director.*** Mr. Wendt has over 35 years experience in environmental consulting, site assessment and investigation, engineering, remediation, industrial siting, regulatory compliance/enforcement, legal support, and environmental liability & risk management services. Mr. Wendt holds a B.S. in Biology and a M.S. in Microbiology from Virginia Polytechnic Institute and State University. He has personally conducted over 1,000 detailed on-site assessments of industrial and commercial facilities on 5 continents, and supervised project teams to pinpoint environmental risks, quantify financial and regulatory liabilities, and develop / implement winning solutions. As a Senior Technical Advisor on a wide range of strategic, high-level facility closure, remediation, due diligence, insurance claim and divestiture challenges, he has a demonstrated track record of helping clients avoid unnecessary and unreasonable costs while exceeding their business objectives. As inner-circle environmental due diligence and site closure consultant on strategic industrial/ site development investments cresting \$100M or more, Mr. Wendt has helped corporate clients discover and avoid significant, otherwise unknown business obligations and cost liabilities as high as \$50M. He has served as long-term point of contact and Senior Liability Asset Manager Advisor to major corporations and environmental fund providers, frequently identifying more effective and timely strategies directly leading to several millions of dollars in client cost savings.

Mr. Wendt has headed major due diligence and other investigations focused on providing critical analyses and remedial cost information within compressed



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schedules. He is a proven manager of multidisciplinary teams, having led many complex environmental assessment and audit projects with teams of up to 50 professionals, innovative environmental engineering/remediation assignments, key industrial siting programs, and several other value-added client business initiatives. He has spearheaded successful negotiations with various environmental regulatory agencies, directed teams engaged in identifying remedial solutions most compatible with clients' business needs, and written and published many articles on environmental topics. Mr. Wendt has also consulted international and domestic manufacturers and investors on planning, locating, designing, constructing, and permitting major industrial facilities in the U.S.

As an Industrial Investigator for an environmental enforcement division, he helped develop and implement industrial wastewater pretreatment, monitoring, and waste management protocols in compliance with the Clean Water Act and local and state discharge requirements. As an Environmental Field Microbiologist on National Institutes of Health grants, Mr. Wendt conceptualized and implemented pioneering field investigations and sampling methodologies and made major epidemiological breakthroughs which helped solve unique human infection patterns. He served as Field Research Team Leader in Antarctica for the National Science Foundation (NSF) to conduct environmental impact studies and model unique ecosystems. For his significant research contributions he received the NSF Antarctic Service Medal of the United States and the NSF Exploration and Scientific Achievement Award. He holds a B.S. in Biology and a M.S. in Microbiology from Virginia Polytechnic Institute and State University. Mr. Wendt supports **EXCALIBUR**'s Due Diligence and Technical Expertise service areas and leads **EXCALIBUR**'s Environmental Liability and Asset Management practice.



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**Ms. Mary Lynn Yurko, P.G., Project Geologist / Claims Investigator.** Ms. Yurko is a senior geologist and project manager with over 12 years of environmental experience in environmental site assessments, groundwater and surface water quality characterizations, hydrogeologic evaluations, waste and landfill permitting, litigation support, and remediation. Ms. Yurko holds a M.S. degree from the University of Pittsburgh in Geology and Geochemistry and a B.S. degree in Microbiology from Pennsylvania State University. She has been a licensed Pennsylvania Professional Geologist since 2006. Ms. Yurko has completed dozens of Phase I and Phase II environmental site assessments for banking, commercial, and industrial sectors in accordance with ASTM E-1527, as updated. Ms. Yurko has led response actions and closures at hundreds of facilities owned by natural gas clients under administrative consent orders. In addition to leading and completing site investigations, she has been responsible for contractor oversight at several Superfund, RCRA, and Brownfield sites.

Ms. Yurko is one of **EXCALIBUR**'s specialized insurance liability assessors and claims managers. In this capacity, she advises **EXCALIBUR**'s insurance clients of potential liabilities and risks associated with environmental insurance policies under consideration. Additionally, she assists these and other environmental insurance carriers of the reasonableness, necessity and appropriateness of claim expenditures, including using forensic information to assist insurance clients with assessing claim eligibility.

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