

Matthew H. M^cDuffie, P.G.
Associate

CREDENTIALS/CERTIFICATIONS

B.S./Ecology, University of Georgia, 1996
Registered Professional Geologist: Georgia (#1982)
Registered Professional Geologist: South Carolina (#2532)
Registered Professional Geologist: North Carolina (#2269)

FIELDS OF SPECIALIZATION

Polychlorinated Biphenyls (PCBs) Contamination Investigations; RCRA, CERCLA,
TSCA
Risk Assessment: Calculation of Risk Reduction Standards and Background
Concentrations, Exposure Pathways Analysis
Hydrocarbon Investigations; Underground Storage Tanks
State Superfund: Site Investigation, Risk Assessment, Remediation, and Monitoring
Phase I and II Environmental Site Assessments
State Brownfields Programs

EXPERIENCE

As an environmental consultant, Mr. M^cDuffie has over 18 years' experience in the environmental field. The majority of his expertise lies in the planning and implementation of environmental investigations dealing with soil and groundwater contamination and environmental site assessment. Mr. M^cDuffie has contributed to projects involving both risk-based and the development of alternate clean-up levels of both organic and inorganic constituents in soil and groundwater. In addition, Mr. M^cDuffie has been involved in the investigation and remediation of PCB contamination and surface water quality assessments.

Prior to joining Genesis Project, Inc., Mr. M^cDuffie served as Staff Scientist for CATLIN Engineers and Scientists.

SELECTED PROJECTS

RCRA Program

*Solutia
Oxford, Alabama*

- Served as principal Field Scientist for an investigation associated with the RCRA permit involving PCB contamination of city recreational playing fields. This project required a fast-track preliminary investigation, the development and implementation of a comprehensive soil investigation and remediation plan, and the supervision and documentation of contamination removal and disposal. Real-time plume delineation of PCB impacted soils was utilized during all phases of the project.

TSCA Program

*Solutia
Anniston, Alabama*

- Served as principal Field Scientist for an investigation associated with the RCRA permit involving PCB contamination within a large warehouse formerly used for PCB production. This project required the assessment of both the interior and exterior surfaces of the building as well as soil immediately adjacent to the structure. In order to fully assess these areas soil, debris, and wipe samples were collected. Real-time analysis of PCB impacted material and surfaces were utilized to direct the fast-track investigation, which was completed in approximately one week.

*QuikTrip Corporation
Greenville, South Carolina*

- Served as Project Manager for site being redeveloped under the South Carolina Department of Health and Environmental Control Voluntary Cleanup Program. This project required the removal, management, and off-site disposal of PCB Remediation Waste in accordance with the "Self-Implementing Rule".

CERCLA Program

*Solutia
Anniston/Oxford, Alabama*

- Served as principal Field Scientist for EPA mandated investigation of residential properties involving PCB contamination of soil. This project, which included EPA oversight, was part of an extensive investigation of the greater Anniston/Oxford, Alabama area.

*Ward Transformer
Raleigh, North Carolina*

- Served as a Field Laboratory Technician providing real-time delineation of PCB-impacted sediments and material in support of PCB remediation effort. This project, which included EPA oversight, was part of an extensive investigation of the former Ward Transformer site and surrounding area.

Risk Assessment

*Confidential Client
HSI Prospective Purchaser Corrective Action Plan (PPCAP)
Cobb County, Georgia*

- Served as Project Manager for a HSI site in the investigation and remediation of both organic and inorganic soil contaminants in Cobb County, Georgia regulated under HSRA and HSRRA. The investigation included an assessment of soil and groundwater data, calculation of Risk-Reduction Standards (soil and groundwater) and Naturally Occurring Background Concentrations (soil), and the preparation of a PPCAP.

*Confidential Client
HSI Compliance Status Report (CSR)
Martinez, Georgia*

- Served as Project Manager for a HSI site involving the remediation and monitoring of dissolved chlorinated solvent plume in Martinez, Georgia regulated under HSRA. Following failed remediation efforts of a previous consultant, Genesis Project conducted an assessment of site conditions and developed and implemented an alternative remedial approach. This project also included the calculation of Risk-Reduction Standards (soil and groundwater) and exposure pathway analysis.

*Green Isle Apartment Complex
Non-HSI Prospective Purchaser Corrective Action Plan (PPCAP)
Fulton County, Georgia*

- Served as Project Manager for a non-HSI site involving the investigation of chlorinated solvent impacts to soil and groundwater in south Fulton County, Georgia regulated under HSRRA. The initial investigation included the collection of soil and groundwater data, calculation of Risk-Reduction Standards and the preparation of a PPCAP. A subsequent investigation was initiated after the real estate closing to complete the preparation of a PPCSR.

Hydrocarbon Investigations

*Perlis/Bridges Travel Plaza
Cusseta, Alabama*

- Served as Project Manager for a hydrocarbon release sites in east central Alabama. The project included a comprehensive evaluation of soil and groundwater contamination concentrations, development of risk-based corrective action (RBCA) levels, implementation of interim corrective action measures, and groundwater monitoring.

*QuikTrip Corporation
Multiple Sites in Georgia*

- Served as Project Manager of numerous hydrocarbon release sites in Georgia. Activities have included Corrective Action Plan development, remedial system design, system installation, and system operation. Remedial actions include development of risk based corrective action (RBCA) levels, free product recovery and groundwater corrective action.

*Confidential Client
Gwinnett County, Georgia*

- Served as principal Field Scientist in the assessment of more than 20 underground storage tank (UST) facilities. Activities included supervision of UST system removal, soil and groundwater quality investigation, data analysis, and the development of remediation and/or monitoring objectives.

State Superfund

*Confidential Clients
Multiple Sites in Georgia*

- Served as Project Manager and principal Field Scientist in the investigation of a release from dry cleaning facilities. The purpose of the projects was to provide sufficient data to submit a HSRA notification to the State of Georgia. Data collection activities included historical research, a hydrogeological study to determine site-specific hydrogeological characteristics, characterization of waste, calculation of Risk Reduction Standards and background concentrations, and completion of reportable quantities screening method (RQSM) scoring.

*Former Anchor Metals
Anniston, Alabama*

- Served as principal Field Scientist for metals contamination site located at an abandoned zinc plating facility. Activities included supervision of removal and disposal of source material, implementation of risk-based groundwater monitoring program in place of active groundwater remediation, and completion of ARBCA Risk Assessment.

Phase I and II Environmental Site Assessments

QuikTrip Corporation

Georgia, South Carolina, North Carolina

- Served as Project Manager on multiple environmental site assessments involving the assessment of environmental liability associated with commercial real estate development.

John Wieland Homes and Neighborhoods

Atlanta, Georgia

- Served as Field Scientist on multiple environmental site assessments involving environmental liability associated with large real estate development.

State Brownfields Program

Green Isle Apartment Complex

Georgia Brownfields Program

Fulton County, Georgia

- Served as Project Manager for a non-HSI site involving the investigation of chlorinated solvent impacts to soil and groundwater in south Fulton County, Georgia. The investigation included the collection of soil and groundwater data, calculation of Risk-Reduction Standards and the preparation of a PPCAP and PPCSR.

QuikTrip Corporation

North Carolina Brownfields Program

Gastonia, North Carolina

- Served as Project Manager for a site involving the investigation of petroleum and metals impacts. The investigation included the collection of soil and groundwater data, identification of potential receptors and exposure pathways, and management of impacted material throughout the redevelopment process.

QuikTrip Corporation

South Carolina Brownfields Program

Multiple Sites in SC

- Served as Project Manager for sites involving the investigation of various soil and groundwater impacts. The investigations included the collection of soil and groundwater data, identification of potential receptors and exposure pathways, and management of impacted material throughout the redevelopment process.