RMS Environmental

Matthew **Mercuri**, PG, CPG
Professional Resume

Education

Temple University, Philadelphia, PA

Relevant Graduate Courses: Advanced Hydrogeology, Low-Temperature Geochemistry, Groundwater Modeling, Planetary Geology, Contaminant Transport in Urban Streams, Remote Sensing and GIS, Geophysics

La Salle University, Philadelphia, PA

B.S. in Geology, Magna Cum Laude

Professional Registrations/ Affiliations

Professional Geologist Commonwealth of Pennsylvania PG005242;

Professional Geologist State of New York License # 000105;

Certified Professional Geologist State of Virginia DPOR #2801002285;

OSHA 40 hour HAZMAT training

Pennsylvania Council of Professional Geologists

American Institute of Professional Geologists

Equipment

GPS Trimble Equipment, Ground Penetrating Radar, Magnetometer, Gradiometer, EM-31, Data Loggers, Resistivity, Nuclear Magnetic Resonance

Years in the Industry

17

Computer Programs

Accounting Software: Quickbooks.

ArcGIS, Microstation, AutoCAD, TurboCAD, Modflow, Groundwater Vistas, Craflush, Frac3DVS, HydroGeoSphere, COMSOL, EarthImager, Res3D, Matlab, ArcGIS, Surfer, RADAN, Vectorworks, CorelDraw; Microsoft Office: Word, Excel, Outlook, Power Point.

Summary of Qualifications

Mr. Mercuri has over 15 years of experience as a project to principal geologist/hydrogeologist. Mr. Mercuri is a licensed Professional Geologist in Pennsylvania, New York, and Virginia. Among the hydrogeologic projects completed are: groundwater resource development and management in various settings and for various uses; design and implementation of pump tests and analysis of well fields; selection of drilling sites for large yield wells; horizontal and vertical distribution of contaminants in groundwater; design and implementation of remedial plans; investigation and evaluation of sites contaminated with dense non-aqueous phase liquid compounds (DNAPL); evaluation of groundwater flow systems, evaluation of leachate migration in fractured bedrock settings, underground storage tanks sites; site evaluation for land disposal of domestic sewage effluents. Mr. Mercuri has taken numerous sites through the Pennsylvania Department of Environmental Protection Act 2 Program and obtained Release of Liability for the sites. Additionally, Mr. Mercuri has specialized in ArcGIS and AutoCAD and designed and taught 'An Introduction to ArcGIS' at LaSalle University. Professional services have included projects in Pennsylvania, Delaware, New York, Maryland, Virginia, and New Jersey.

AREAS OF EXPERTISE:

- Groundwater resource development and management
- Fractured bedrock hydrogeology
- Photogeologic analysis
- Selection of drilling sites for high yield wells
- Preparation of drilling records and geologic logs
- Design and implementation of long-term pump tests
- Preparation of hydrogeologic reports for protected area projects
- Surface water monitoring and analysis of data
- Contaminant hydrogeology
- Soil and groundwater contamination studies
- Design and implementation of remedial plans
- Heavy metals contamination of soils, occurrence and significance
- DNAPL contamination of fractured bedrock aquifers
- LNAPL contamination of soil and groundwater
- Preparation of quality assurance/quality control plans
- Project management and proposal preparation
- Clients/regulatory agencies relations
- Phase I & II Environmental Site Assessments

Professional Experience

7/20-Present

RMS Environmental LLC, Jamison, Pennsylvania
MANAGING PARTNER

Summarizing and evaluating groundwater quality data. Geologic and hydrogeologic cross-sections. Design of drawings prepared on AutoCAD and ArcGIS. Preparation of permit applications to local and state governments for townships. Groundwater resource development and management. Contaminant fate and transport in the subsurface; design and implementation of plans for the investigation and remediation of soil and groundwater contaminated by petroleum hydrocarbons, chlorinated solvents, metals, Per- and Polyfluoroalkyl Substances and other contaminants. Meetings and correspondence with firm's clients. Field work including pump tests, well monitoring and sampling at contaminated sites. Oversee all aspects of business: technical, financial, marketing and business development.

04/19-7/20

Comstock Environmental Services, LLC. Conshohocken, Pennsylvania
PRINCIPAL HYDROGEOLOGIST

Summarizing and evaluating groundwater quality data. Geologic and hydrogeologic cross-sections. Design of drawings prepared on AutoCAD and ArcGIS. Preparation of permit applications to local and state governments for townships. Groundwater resource development and management. Contaminant fate and transport in the subsurface; design and implementation of plans for the investigation and remediation of soil and groundwater contaminated by petroleum hydrocarbons, chlorinated solvents, metals, Per- and Polyfluoroalkyl Substances and other contaminants. Meetings and correspondence with firm's clients. Field work including pump tests, well monitoring and sampling at contaminated sites.

05/03-05/04
02/06-04/19

Mercuri & Associates, Inc. Bucks County, Pennsylvania
PRESIDENT/PRINCIPAL HYDROGEOLOGIST

Summarizing and evaluating groundwater quality data. Geologic and hydrogeologic cross-sections. Design of drawings prepared on AutoCAD and ArcGIS. Preparation of permit applications to local and state governments for townships. Mapping of water systems using GPS technology and importing information onto aerials. Meetings and correspondence with firm's clients. Field work including pump tests, well monitoring and sampling at contaminated sites. Ran day to day operations of the business. Oversaw all aspects of business: technical, financial, marketing and business development.

01/13- 05/14

LaSalle University Philadelphia, Pennsylvania
ADJUNCT FACULTY
Designed a new course, Introduction to ArcGIS. Only faculty member on campus that taught this course. Course begins with the basics of ArcGIS and expands to the level of the students being able to garner jobs in the GIS field based solely off this class. Due to the success of this class LaSalle University is in the process of building a new GIS lab. Taught Geochemistry through the Geology Department.

12/01-01/03 **Taylor, Weisman & Taylor**, Doylestown, Pennsylvania
CIVIL ENGINEERING INTERN

Participated in all phases of land development and hydraulic calculations, including revisions to engineering plans and documents. Prepared permit applications for state and local governmental agencies, including Environmental Protection Agency, for the construction of a multi-million dollar high density residential development on ± 15 acres. Other responsibilities included meetings and correspondence with clients.

KEY PROFESSIONAL EXPERIENCE INCLUDES:

- Conducted and managed numerous hydrogeologic projects and investigations in the Southeastern Pennsylvania Groundwater Protected Area.
- Implemented numerous photogeologic and field investigations for the selection of drilling sites for large yield wells in the Triassic Formations of Southeastern Pennsylvania for municipal and other clients.
- Designed and implemented and/or supervised all types of pumping tests on production wells.
- Developed large yield wells for many municipalities and other local governments in Bucks and Montgomery Counties.
- Reviewed hydrogeologic work performed by other consultants within boundaries of municipal clients.
- Developed groundwater supply for large commercial property in the diabase terrain of East Rockhill Township, Bucks County.
- Designed and implemented long-term operational tests of large yield wells in order to comply with regulatory requirements for expanded groundwater withdrawals.
- Designed and implemented the necessary hydrogeologic investigations that resulted in the resolution of water supply problems of municipalities in central and northern Bucks County.
- Evaluated groundwater contaminated with chlorinated hydrocarbons at a municipal well and estimated vertical distribution of contaminants.
- Implemented, on behalf of a county government, a Level II environmental assessment of industrial site, which included remediation of soils exhibiting high levels of metals.
- Implemented a Level II environmental assessment of property, located in lower Bucks County, scheduled for residential development. Concerns included the possible soil contamination by metals, among others.
- Designed and implemented, for a municipal client, a detailed investigation of a former foundry site which revealed the presence of very high levels of metals in the soil and groundwater.

- Designed and implemented site characterization studies, including completion of soil borings and construction of monitoring wells at sites contaminated with petroleum products.
- Defined the extent of subsurface contamination by petroleum hydrocarbons at several gasoline stations and implemented the necessary remedial measures.
- Successfully closed sites heavily contaminated with gasoline by taking them to the natural attenuation stage.
- Worked in conjunction with LSRP in New Jersey on dozens of contaminated sites completed ArcGIS requirements and helped projects approach completion.