

NEAL A. PARKER

Experience

Parker Consults

Franklin, PA

Senior Soil Scientist/Owner

(February 2008 – present)

- Soil Science, Soil Profiles and Interpretation.
- Wetland Delineation and Compensation Design/Monitoring.
- ArcGIS Advanced Mapping.
- Advanced BMP Design Drawings.
- Liaison to Federal and State Regulatory Offices and Conservation Districts.
- Environmental Assessments and Environmental Impact Statements.
- Preparation and submission of Federal NPDES, Nationwide and state environmental permit applications.
- Watershed Assessment and Restoration planning.
- Cultural resource review and screening.

Applied Geology and Environmental Science

Clinton, Pennsylvania

Principal Scientist/Corporate Health and Safety Officer

(March 2013 to April 2015)

- Project development and management.
- Preparation and submission of Federal NPDES, Nationwide and state environmental permit applications.
- Environmental Assessments and Environmental Impact Statements
- Pipeline release response permitting and regulatory coordination.
- Environmental Remediation Project Management
- ArcGIS Advanced Mapping.
- Health and Safety Management.

Borton-Lawson Engineering, Inc.

Wexford, PA

Senior Environmental Scientist/Corporate Health and Safety Coordinator

(July 2011 – June 2012)

- Environmental lead for Western Pennsylvania.
- Wetland and stream delineations for Marcellus pad and impoundment sites, roads and pipelines.
- Preparation and submission of federal NPDES, Nationwide and state environmental permits.
- Wetland and Soil Science Trainer.
- Soil Science, Soil Profiles and Interpretation.
- ArcGIS Advanced Mapping.
- Managed the ISNetworld safety program for the company for compliance with the Borton-Lawson gas clients' requirements.

Moody and Associates, Inc.

Meadville, PA 16335

Soil Scientist

(January 2009 - July 2011).

- Wetland determinations for the Marcellus pad and impoundment sites, and pipelines.
- Supervised and trained two wetland delineators.
- Project Management for water withdrawal permits.
- Preparation and submission of federal NPDES, Nationwide and state environmental permits.
- Wetland and Soil Science Trainer.
- Soil Science, Soil Profiles and Interpretation.
- ArcGIS Advanced Mapping.
- Advanced BMP Design Drawings.
- Water sampling.
- Liaison to Federal and State Regulatory Offices and Conservation Districts.

USDA Natural Resources Conservation Service

Franklin, PA, Huntingdon, PA

District Conservationist - Retired

(May 1989 - May 2008).

- Natural Resources Conservation Service (NRCS) Program Administered for Venango and Warren Counties, PA.
- NRCS Field Offices Management for Venango and Warren Counties.
- Project Manager, Scrubgrass Creek Watershed Restoration Plan. Project cost of \$300,000+
- Wetland determinations, delineations and jurisdictional wetland reviews.
- Project Management and Design for the construction of 80+ acres of restored and created wetlands.
- Project Management and Design for the construction of 5600+ linear feet of stream bank stabilization and bioengineering.
- NRCS Soil Scientist for Northwestern PA.
- Project Management and Design for one abandoned mine reclamation project and contract under the Rural Abandoned Mine Program.
- Design for a passive wetland treatment system for bring discharge.
- Preparation and submission of federal NPDES, Nationwide and state environmental permits.
- Planning, Design and Supervision of conservation projects on private and public lands.
- Liaison to Federal and State Regulatory Offices, Conservation Districts, conservation organizations, and non-profits.
- Preparation of environmental assessments and plans for land use programs to meet NEPA requirements.
- Advanced GIS mapping experience. AutoCAD experience.
- Review of Erosion and Sediment Control and Storm Water Management Plans for the conservation districts.

USDA Natural Resources Conservation Service

Sunbury, PA, Clarion, PA

Soil Conservationist

(June 1987 - May 1989).

- Planning, Design and Supervision of conservation projects on private and public lands.
- Project Management and Design for one abandoned mine reclamation project and contract under the Rural Abandoned Mine Program.
- Review of Erosion and Sediment Control and Storm Water Management Plans for the conservation districts.
- Stream and fisheries assessments; stream stabilization and restoration (channel design); habitat enhancement; constructed/restored wetlands.
- Environmental research (experimental design, field protocols and collections, and statistical analysis).

Education

- Bachelor of Science (Environmental Resource Management - Soil Science), The Pennsylvania State University, University Park Pennsylvania (1978)
- Certificate Soils Analysis U.S. Army Engineer School - Regular Army, Fort Belvoir, VA, (1973)
- Certificate Terrain Analysis (Geographic Intelligence), U.S. Army Defense Mapping School - Regular Army, Fort Belvoir, VA, (1973)

Appointments/Volunteer Positions

2005 - 2007 Franklin Public Library Association, Franklin, PA; Vice Chairman

1995 – present Northwest Medical Foundation, Franklin, PA: Member

1991 – 1996 Allegheny Valley Trails Association, Franklin, PA; Secretary and Vice Chairman

1988 – 1989 Walker Township Municipal Authority, Huntingdon, PA; Chairman and Member.

1983 – 1986 Misty Marsh Chapter of Ducks Unlimited, Clarion, PA; Member

Professional Membership

2009 to Present Pennsylvania Association of Professional Soil Scientists

Selected Publications and Reports

Parker, N.A. 2015. Soil Profile and Infiltration Reports (seven) for Gas Industry Clients ESCGP3 permit applications, Parker Consults and Borton-Lawson Engineering.

Parker, N.A. 2015. Wetland Delineation Report for 10-acre wetland delineation, Nemacolin Woodland Resort, Farmington, PA. Parker Consults and McMillen Engineering.

Parker, N.A. 2015. Environmental Assessment, Nine Hole Addition to Golf Course, Nemacolin Woodland Resort, Farmington, PA. Parker Consults and McMillen Engineering.

Parker, N.A. 2015. Alternative Analysis, Nine Hole Addition to Golf Course, Nemacolin Woodland Resort, Farmington, PA. Parker Consults and McMillen Engineering.

Parker, N. 2010. Stream and Riparian Assessment Reports, Stream Mitigation Banking, Resource Environmental Solutions.

Parker, N.A. 2009. Stream Channel Assessment Report, Engineered Mine Subsidence, Green County, PA, Moody and Associates.

Parker, N.A. 2010. Wetland Delineation Report for 24-acre wetland delineation, Mukina Land Development, Edinboro, PA, Parker Consults and Lake Engineering.

Parker, N.A. 2010. Environmental Assessment, Mukina Land Development, Edinboro, PA, Parker Consults and Lake Engineering.

Parker, N.A. 2010. Alternative Analysis, Mukina Land Development, Edinboro, PA, Parker Consults and Lake Engineering.

Parker, N.A. 2009. Wetland Delineation Report for wetland delineation, Franklin General Authority, Franklin, PA, Parker Consults and Wodzianski Engineering.

Parker, N.A. 2009. Environmental Assessment, Franklin General Authority, Franklin, PA, Parker Consults and Wodzianski Engineering.

Parker, N.A., Dickson, B.C. and McClelland H. 2001. Scrubgrass Creek Watershed Restoration and Engineering Plan. Growing Greener Program, Pennsylvania Department of Environmental Resources. Venango County Commissioners, Sponsor.

Parker, N.A., and B.C. Dickson, 2001. Rivers Conservation Plan for the Scrubgrass Creek Watershed. Pennsylvania Department of Conservation and Natural Resources Rivers Conservation Program, Pennsylvania Department of Conservation and Natural Resources, Harrisburg, PA.

Selected Project Experience

Design and Permit Support to RedHorse Environmental: Scott Run Restoration Project, Erie, Pennsylvania (2015 - present). RedHorse Environmental developed the design and permitting necessary to restore Scott Run, a direct tributary to Lake Erie, in Erie, PA. RedHorse teamed with River Research and Design and Environment Erie and other organizations to develop, stream and terrestrial enhancements. Designs are geomorphically based and developed for long-term restoration goals. The design included nine (9) instream structures and riparian enhancements.

Design and Permit Support to RedHorse Environmental: Nine Mile Run Stream Restoration Post Project Assessment and Reconstruction, Pittsburgh, Pennsylvania (2015-present). The US Army Corps of Engineers Pittsburgh District commissioned a post project assessment of Nine Mile Run following completion of a \$7.7 million natural channel design stream restoration. The assessment included GPS location and mapping of all in-stream structures (e.g., j-hooks, cross-vanes), bank failure sites, and sediment deposits. All structures were identified, characterized, and examined for structural/functional integrity. Information developed from the assessment was used to design and implement a \$100,000 reconstruction plan to remove, replace, or modify failed structures and stabilize locations where bank failure and channel migration occurred. Reconstruction works were completed in September 2007 with follow-up channel monitoring conducted in November 2007. Recommendations for additional modifications and maintenance, stream and terrestrial enhancements, geomorphically-based reassessments, and long-term environmental assessment and planning were provided. RedHorse has partnered with River Research and Design to complete channel structures that will eliminate two (2) fish passage barriers below Commercial Avenue during 2016.

Design Support to RedHorse Environmental: Porcupine Run/Horse Creek Fish Passage Culvert Project (2015). The project involved the installation of six aquatic organism passage designed culverts to facilitate Brook Trout passage in Porcupine Run and Horse Creek near President in Venango County. Squash pipes of various diameters as long as 45' replaced multiple plugged and/or perched culverts that restricted fish passage. The project was a cooperative effort involving non-profits, the PA Fish and Boat Commission, and Industrial Timber and Lumber of Marienville, PA. The project was completed on private timber lands. RedHorse managed the project and coordinated with project partners.

Project Manager: Environmental Cleanup of an Asphalt spill into the Allegheny River and Tributary, Allegheny National Forest, Warren County, PA (2014). AGES responded to an asphalt spill two mile west of Kinzua dam on the Allegheny River. The project consisted of an emergency environmental cleanup of 7,500 gallons of asphalt that entered a culvert and traveled in a three hundred-foot-long tributary channel then into the Allegheny River. The work consisted of hand removal of the asphalt, channel reconstruction and habitat restoration to meet the USDA Forest Service's criteria.

Principal Investigator: Hazardous Material Phase I Assessment, NISource – NIPSCO New 100 Mile Transmission Line, Indiana (2014). The investigation consisted of prescreening a one-hundred-mile long proposed high voltage transmission line right-of-way for Perceived Recognizable Environmental Conditions (PRECs) and doing filed investigations of the identified PRECs. The field investigations consisted of documenting the sites, debris or material and sampling for hydrocarbons.

Principal Investigator: Stream and Wetland Assessments Pennsylvania and West Virginia, Resource Environmental Solutions, L.L.C. (RES), Pennsylvania Statewide Umbrella Mitigation Instrument (PSUMBI) (2011). Completed stream and wetland assessments using the Rosgen and USDA Natural Resources Conservation Service methodology for RES. RES developed a state wide PSUMBI approved by the all three Corps Districts governing Pennsylvania. The RES program was set up to offer mitigation options to the gas drilling industry. Assisted in development of the landowner conservation easement for the program.

Principal Investigator: Stream Assessments for Controlled Mine Subsidence, Green County Pennsylvania (2009). Investigated and classified and mapped (GPS/ArcMap) stream channels for avoidance during required controlled deep mine subsidence in the Dunkard Creek watershed. Controlled subsidence is used to eliminate mine discharges. The stream classification followed the guidelines in PA Department of Environmental Protection, Bureau of Mining and Reclamation, Document Number 563-2000-655 Surface Water Protection – Underground Bituminous Coal Mining Operations.

Project Manager/Principal Investigator/Client Liason: Scrubgrass Creek Watershed Assessment/Restoration Plan, Venango County, Pennsylvania (1999-2003). A \$289,000 planning grant was used to develop a detailed environmental assessment of the 25,000 acre Scrubgrass Creek Watershed relating to environmental, recreational, cultural, and economic activities and issues. Historical data were collected from available sources and new data were developed from extensive interpretation and mapping of natural resources and land uses from low altitude aerial photography. The initial assessment directed the development of a second study, begun in July 2000, designed to collect new data from a comprehensive physical, hydrological, and biological assessment of the watershed. This new data was used to characterize physical and biological conditions in the watershed, identify pollution sources and quantify their environmental impact, assess cumulative impacts, and provide the necessary information to develop and implement a watershed restoration plan. Watershed data was developed over a twenty-four-month period. Field surveys were conducted to verify known pollution sources and identify and plot new locations with GPS. Approximately 60 well locations and 2 major AMD seeps were confirmed and mapped. All land use, abandoned mines and well sites were mapped. On-site inspections and water quality/quantity evaluations were used to design treatment options, provide basic data for engineering planning and cost estimates, and allow the research team to prioritize and group pollution sources for subsequent restoration. The BMP/restoration engineering practices were cost estimated and amortized over a ten-year period. Lastly, restoration plans were presented to local stakeholders, community leaders, and project partners to facilitate grant preparation and submission for future environmental restoration works.

Project Manager: Scrubgrass Creek Watershed Restoration Plan Implementation, USDA Natural Resources Conservation Service (NRCS) (2003-2004). The Alliance for Wetlands and Wildlife sponsored a Growing Greener Program grant for the first phase of the watershed restoration in the Scrubgrass Creek watershed. This involved plugging thirty-one priority abandoned oil wells with point source discharges. The phase one work eliminated all well discharges in two tributaries and the middle reach of Scrubgrass Creek. The USDA NRCS was contracted by the Alliance to manage the well plugging contract.

Project Manager/Designer: PG&E Scrubgrass Generating Plant Filtration Pond and Reservoir (2002). The USDA Natural Resources Conservation Service (NRCS) Venango County Field Office was contacted by the Scrubgrass Generating Plant to survey, design and manage the construction of a five acre by twelve-foot-deep reservoir with an adjacent one-acre sedimentation pond. The system was designed to eliminate sediment that was being pumped from the Allegheny River (the plant's water source) from entering the cooling system. It also allowed the plant to pump water during low electric demand periods. The design received the PG&E J. P. Kearney Environmental Award for Environmental Stewardship.

Project Manager/Designer: PA State Game Lands 39 - Partners for Wildlife Wetland Development (1998). The USDA Natural Resources Conservation Service (NRCS) Venango County Field Office was contacted by the Pennsylvania Game Commission to survey, design and manage the construction of a fifty-five-acre wetland and habitat. The project was completed through the Partners for Wildlife Program. The Partners for Wildlife Program is lead by the U. S Department of Interior, Fish and Wildlife Service and works with the USDA Natural Resources Conservation Service, the PA Game Commission, Ducks Unlimited, and the National Fish and Wildlife Foundation. The Natural Resources Conservation Service provides technical services to the program.

Project Manager/Government Inspector/Landowner Liaison: Four Stream Restoration Projects, USDA Natural Resources Conservation Service (NRCS) - Emergency Watershed Protection Program (1996). The USDA NRCS completed 280 thousand dollars of stream restoration work under the Emergency Watershed Protection Program in Venango County. The four projects were managed by NRCS with local municipalities acting as sponsors.

Project Manager/Government Inspector/Landowner Liaison: Nine Abandoned Mine Restoration Projects, USDA Soil Conservation Service - Rural Abandoned Mine Program (1979 - 1987). The USDA Soil Conservation Service completed nine abandoned mine reclamation projects in Northumberland, Clarion and Venango Counties. These projects were managed from landowner applications, survey and design, contract preparation and bid, and construction project management. This program was a federal program funded by a \$0.35 per ton coal tax.

Project Manager/Government Inspector/Landowner Liaison: Seven Stream Restoration Projects, USDA Soil Conservation Service - Emergency Watershed Protection Program (1977 - 1978). The USDA Soil Conservation Service completed eight million dollars of stream restoration work under the Emergency Watershed Protection Program after the Johnstown flood of June 1977. The seven projects combined involved over eight linear miles of stream restoration, stream bank stabilization, debris removal and federal contract control over a ten-month period.