



Statement of Qualifications
to provide
Professional Engineering Services
to the
State of WV Purchasing Division
WV Division of Natural Resources
for the Repair and Rehabilitation
of Various State Fish Hatcheries
DNR213227

07/02/13 10:22:46 AM
West Virginia Purchasing Division

200 Sixth Avenue
St. Albans, WV 25177
304.727.5501
FAX 304.727.5580

Buckhannon, WV
Martinsburg, WV

www.chaptech.com

July 2, 2013



July 2, 2013

Department of Administration
Purchasing Division
2019 Washington Street, East
Post Office Box 50130
Charleston, West Virginia 25305-0130

**Re: A/E Services for Repair and
Rehabilitation of State
Fish Hatcheries
RFQ DNR213227**

Dear Selection Committee:

Chapman Technical Group is most interested in providing engineering and architectural services for the design and construction of various improvements at numerous warm and cold water hatcheries throughout the state as listed in the EOI. We have assembled a highly-qualified and experienced team to meet the unique requirements for these projects.

Chapman Technical Group has in-house registered civil engineers, architects, and landscape architects who have proven their capabilities on several major West Virginia State Park projects. Joining our team to assist with any necessary hydrogeological work is Smith-Comeskey Ground Water Science. We understand that one of important components of the project is water supply rehabilitation, and, Chapman Technical Group and Ground Water Science have worked separately and together on previous projects with the State Parks Section, and as a result, our team has a good working relationship and a successful track record. Together our experienced team offers the reliable services needed for this most important project.

We have a proven track record of developing successful projects for the West Virginia Division of Natural Resources, and not only just with the State Parks Section. We have completed successful projects at Apple Grove SFH, and Spring Run SFH, as well as several smaller projects involving dock facilities throughout the state for the Wildlife Resources Section. One reason for our success is our ability to clearly communicate with all parties involved. We assign a Project Manager to handle all project communications who not only coordinates all design issues with the Owner and the consulting team, but also conducts project meetings, pre-bid conferences and pre-construction conferences. During construction, the Project Manager conducts regular progress meetings and coordinates all communications between the Owner and the Contractor. Brad Leslie, Assistant Chief of State Parks, can attest to the effectiveness of our project communications.

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Selection Committee
July 2, 2013
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Chapman Technical Group has a wealth of experience with water supply, treatment, storage, and distribution, along with wastewater collection and treatment, as this type of work accounts for over 50% of the firm's past and current workload. Our water & wastewater engineers have a combined experience of nearly 75 years working here in WV, and our repeat clients are a testament to the quality services we provide.

You can be assured that we will be available at the project site on short notice and can be available to whatever extent is required during the critical construction phase.

You will find all of the requested information regarding our team and our ability to execute the requirements of this project within this submittal. We would very much appreciate the opportunity to present our project team and further discuss your project. In the meantime, if you have any questions or need additional information, please contact me at your earliest convenience.

Sincerely,

CHAPMAN TECHNICAL GROUP

Robert G. Belcher, PE
Vice President, Engineering



1

**Overview of
Chapman Technical Group**

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**Overview of
Ground Water Science**

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Relevant Project Experience

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Project Team Resumes

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References

Company Overview



Chapman Technical Group's St. Albans Office

Chapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places.

Chapman Technical Group offers a broad range of professional services.

- Airport Design
- Architecture
- Civil Engineering
- Fire Pumping & Protection
- Interior Design
- Landscape Architecture
- Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems

Awards



AMERICAN INSTITUTE OF ARCHITECTS - HONOR AWARD FOR EXCELLENCE IN PLANNING & DESIGN PROJECTS, 2012 - Upper Big Branch Miners Memorial.

AMERICAN INSTITUTE OF ARCHITECTS - MERIT AWARD FOR EXCELLENCE IN PLANNING & DESIGN PROJECTS, 2012 - Nuttallburg Mine Complex.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2012, Gold Award - Water & Wastewater Category for the Corporation of Shepherdstown Wastewater Treatment Plant Project.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2012, Gold Award - Transportation Category for the Appalachian Regional Airport Project, Mingo County.

WINNER - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", WVDOT - DIVISION OF HIGHWAYS - 2011: Large Roadway Category for WV10 North Davy Branch to Rum Creek; 2000: Large Bridge Category for WV10 Buffalo Creek Bridge, Logan County, West Virginia.

AMERICAN INSTITUTE OF ARCHITECTS - MERIT AWARD FOR EXCELLENCE IN ARCHITECTURE, 2009 - Interstate 79 Rest Areas.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2009, Gold Award - Special Projects Category for the Mercer County Airport Runway Safety Area Project.

AMERICAN SOCIETY OF CIVIL ENGINEERS, 2009, National Superior Employer in the Private Sector Award.

AMERICAN INSTITUTE OF ARCHITECTS - HONOR AWARD FOR EXCELLENCE IN ARCHITECTURE, 2008 - Upshur County Courthouse Restoration and Renovations.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2008, Bronze Award - Wastewater Category for the Spring Run State Fish Hatchery Improvements.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2007, Silver Award - Structures Category for the Mercer County Airport Runway Safety Area Project.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 2003, Gold Award - Water Treatment Category for the City of Fairmont Water Treatment Plant Project.

FINALIST - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", WVDOT - DIVISION OF HIGHWAYS - 1999: Large Roadway Category for WV10 Buffalo Creek - Taplin Project; 2000: WV10 Buffalo Creek - Huff Junction Project, both in Logan County, West Virginia.

AMERICAN COUNCIL OF ENGINEERING COMPANIES - WV - ENGINEERING EXCELLENCE AWARD, 1999, Silver Award - Water and Wastewater Category, for the City of Beckley Piney Creek Wastewater Treatment Plant Project.

ENTREPRENEUR OF THE YEAR AWARD - FINALIST, 1999 and 2000, Sharon L. Chapman, President, was named one of twenty finalists in the West Virginia Area Entrepreneur of the Year Award. Sharon was recognized for leading Chapman Technical Group to become one of the most highly regarded engineering firms in the state after the death of her husband and company founder, Harvey R. Chapman.

"EXPECT THE BEST FROM WEST VIRGINIA AWARD", 1998, Charleston Regional Chamber of Commerce.

HONOR AWARD, West Virginia Chapter of the American Society of Landscape Architects, 1994, Shrewsbury Street Area Redevelopment Plan, for excellence in planning and design projects. Joseph E. Bird, ASLA, Project Manager.

"GOVERNOR'S AWARD FOR ENGINEERING EXCELLENCE", 1990, The West Virginia Chapter of the American Public Works Association, in recognition of outstanding Public Works Engineering and Design of Projects within West Virginia.

DUNDEE CEMENT COMPANY ANNUAL DESIGN AWARD, 1988, Yeager Airport Taxiway Overlay Project. Harvey R. Chapman, P.E., Project Manager.

"GEORGE WARREN FULLER AWARD", Harvey R. Chapman, P.E., 1984, Robert G. Belcher, P.E., 2001, and Sharon L. Chapman, 2005, Jeffery D. Ekstrom, P.E., 2010, American Water Works Association, for distinguished service in the water supply field in the State of West Virginia.

Ground Water Science Capability Statement

Company Summary

Smith-Comeskey Ground Water Science has been providing a broad range of scientific and training services in hydrogeology and well and drain maintenance and rehabilitation since 1986.

Unique among comparable hydrogeologic consulting firms, we take a "total systems" approach to designing ground water source systems, and solving and preventing the problems that impair their performance. We link hydrogeologic analysis to a wide range of information needed for a complete ground water information package.

Unique among consultants on well and pressure relief system performance problems and maintenance and improvement, we are not commercially tied to specific chemical or technical solutions and can serve our clients without bias.

Professional Services

- Hydrogeologic field testing
- Hydrogeologic modeling with experience in complex fracture-flow, quasi-porous media fracture flow, layered unconsolidated, and glacial-alluvial in bedrock settings
 - Environmental microbiology (including biofouling and biocorrosion-related) and geochemical field sampling and analysis for both water and solid matrices.
 - Providing specifications, site supervision, and verification testing and documentation for well construction and well rehabilitation projects – also the capability to provide these as turn-key services
 - Forensic analysis and troubleshooting for biofouling and biocorrosion of ground water and pressure relief system problems and microbiological well contamination
 - Ground water system and pressure relief system maintenance planning and implementation
 - Training in problem prevention and performance maintenance.

Experienced Staff

The Ground Water Science partners, Stuart Smith and Allen Comeskey, are certified and licensed geologists and ground water professionals with advanced degrees. Each contributes over 30 years of varied, quality, hands-on professional experience to the firm. The partners are both published and Smith has contributed to several landmark drilling, well construction, biofouling analysis and well rehabilitation publications. The integrated understanding of hydrogeologic, biogeochemical, and well performance problems that this experience brings is available on each project, large or small.

With us, it's personal. One or both partners are always actively engaged in your project.

- ***We don't just show up at sales meetings and "sign off" at the end.***
- ***We stay active in and volunteer with industry and professional organizations and learning.***

Facilities and Equipment

- All equipment to perform well and pump performance testing (1 to 2000 gpm). Geophysics and video available.
- All equipment to perform on-site sampling and analysis of basic chemical-physical and biofouling and biocorrosion parameters.
- Leading edge hydrologic modeling and test analysis and graphical software and capacity for onsite data acquisition.
- GIS, contouring, LIDAR/fracture trace mapping, and three-dimensional log and profile capacity to import, manipulate, manage, and display a wide range of information in a spatial context.
- Biofouling, biocorrosion, and other microbiological analysis by microscopy, cultural and biochemical methods. We supply these services to major full-service laboratories.
- Training packages and presentation technology – in person and online – for improving the capabilities of others.

Smith-Comeskey Ground Water Science Technical Capabilities

- **Principals are certified (CGWP, CPG) and licensed (currently in Pennsylvania, Indiana, and Kentucky and reciprocating ASBOG states and on federal projects) hydrogeologists, each with over 30 years of experience in a broad range of hydrogeologic settings and project conditions, with extensive knowledge of aquifer-scale hydrogeology, well hydraulics, well and wellfield design and equipment, and ground water quality/hydrogeochemistry.**
- **A leading (and "field practical") ground water microbiologist with local, national and international experience focusing on the problems of well and ground water system performance and ground-water quality decline. Big multi-discipline firms hire us.**
- **All equipment to perform high-quality well and pump performance testing (1 to 2000 gpm) and on-site testing of basic chemical-physical parameters and biofouling and biocorrosion indicators. We also provide additional onsite analyses and sampling for off-site analysis as needed.**
- **Capacity to analyze and graphically display results of a wide range of pumping test and other analytical results in various hydrogeologic settings, including step tests, constant-rate tests, and slug tests for single and multiple wells, and biological and chemical data.**
- **Hydrologic modeling capacity (both semi-analytical and numerical) with experience in complex fracture-flow, quasi-porous media fracture flow, layered unconsolidated, and glacial-alluvial in bedrock settings.**
- **Geographical information system, profiling and three-dimensional log and profile capacity to import, manipulate, manage, and display a wide range of information in a spatial context, including accurate projection of hydrologic and geologic features on surficial feature maps and photographs, and development of cross-sections, head maps, and fence diagrams.**
- **Capacity to analyze for biofouling microbiological parameters by microscopy and culturing and biochemical methods, provide chemical (including significant onsite), corrosion, and mineralogical analysis, and to provide detailed predictions and analyses. We supply these services to major full-service laboratories and multi-state engineering consultants, working with our associates at Biosolutions Laboratories LLC, as well as on a consulting basis and can conduct them under primitive field conditions.**

Making Sure You Get What You Need in Ground Water Supply

Smith-Comeskey Ground Water Science is a highly experienced provider of quality planning and troubleshooting for installing and improving ground water source water supplies. We "do ground water" every day.

- We are first and foremost professional hydrogeologists. We devote ourselves to quality ground water supply.
- In cooperation with your engineers, we take care of all "the ground water stuff" on new well projects: selecting well contractors, job observation, testing and documentation, even maintenance planning.
- We know well contracting and make sure you get the most from your investment. On *your* project we are *your* eyes and ears and make sure that everything going into the ground is top quality.



We're on top of your ground water needs

Experienced Staff:

The Ground Water Science principals, Stuart Smith and Allen Comeskey, are certified and licensed geologists and ground water professionals with advanced degrees. Smith is also an environmental microbiologist. *Each* contributes over 30 years of varied, quality, hands-on professional experience to the firm. They bring their old-fashioned personal care and "by the book" standards, cutting-edge expertise – and *passion* for quality in ground water supply – along on each project, large or small.

Our approach to managing ground water projects works to your advantage:

- We research and plan up front to understand the details of your ground water situation – no "cookie cutter" approach here. We use maximum available information to write the specs and take competitive quotes to give you the best "bang for your buck"
- We know and provide specialized expertise that you need. We competitively preselect well contractors and other experts in specialties you need – we select people known for their commitment to quality and who are best suited to your particular job. We vouch for their qualifications and reliability.
- We watch and document what they do for your piece of mind. We know what we're looking at and the contractor knows that, too. No corners cut.



"hands on" is not just a slogan with us

- **We test and verify well performance.** Well testing is conducted and analyzed to satisfy the regulators – but way more important than that, to best choose the most efficient pumping rates so your facility can plan more effectively.
- **We advise on long-term operations and maintenance.** Our concern doesn't end with plan approval and start up. We show you how to keep it working at its best, how to watch performance and keep records, and can even provide maintenance contracts including performance monitoring and necessary service and repairs.
- **International: We do that.** Ground Water Science has international experience and travels well. We can inspect, oversee and manage your project.

Experience teaches you some things:

- **Water well contractors and other service providers in this field are not interchangeable.** They are very distinct from one another in capability. They are very independent and many are not good estimators – so if the going gets tough, some cut corners.
- **The “full service” business model is attractive – one project manager and not a fleet of specialists to watch. However** (especially if they are beholden to stockholders) the need for profit margin can make for constant temptation to cut corners to improve the bottom line. There is no independent supervision of well construction – equipment that goes into the ground, never to be seen again. *If something goes wrong that will cost the well contracting company to fix – and that happens even to the skilled and conscientious – no one can independently assign responsibility whose job or bonus isn't at stake.*
- **Ground water projects are each unique and constantly amazing.** You need to have an attitude that you must concentrate on each project and learn all the time to provide the best result for the client.
- **You have to take the long view with ground water projects:** What is sustainable? What materials and methods are going to offer long life?

“Their” way:

- **“Leading experts” listed in the brochure are back at the office – in Kansas City**
- **Sales rep who made all the promises is somewhere else, making promises to another client – or on the cell phone or radio calling the crew chief to nag him to get done and on to the next job.**

Our way

- **The leading experts with gray hair are on the job watching, focused on your job, taking data and making decisions.**
- **Best of all, you are left with the most efficient and trouble-free system possible that will offer a long, quality service life.**

Ours isn't always the cheapest way to do the work if judged only by initial construction cost. But this is your water supply system and your customers trust you to supply reliable, high-quality water. Your best “cost” factor is *life cycle cost* – what will it cost in the long run? And what price do you put on quality, reliable water?

www.groundwaterscience.com • 1-419.358.0528 • 330.787.0496

RESUME

Stuart A. Smith, MS, RG, CGWP, Partner
Ground Water Science (Smith-Comeskey Ground Water Science LLC)

PROFESSIONAL EMPLOYMENT HISTORY

September 1996-present: Ground Water Science, 22 Edgewater Dr., Poland, OH 44514 USA. Tel: 330/787-0496, email: stuart@groundwaterscience.com, www.linkedin.com/in/stusmithgroundwaterscience, www.groundwaterscience.com.

September 1983-September 1996: S.A.Smith Consulting Services, Ada, OH 45810 (now Smith-Comeskey Ground Water Science).

Scope of services: Hydrogeologic and ground-water microbiological analysis and consultation, wellfield planning and management, contract research and troubleshooting on biofouling problems in wells and water systems and their maintenance and rehabilitation.

August 1981-August 1984: Dept. of Geological Sciences, Wright State University, Dayton, OH 45435. Position: Adjunct associate professor in water well technology and hydrogeology, responsible for developing, organizing, marketing, and teaching technical field and classroom courses in ground water technology and science.

September 1979-September 1983: National Water Well Association (now Nat'l Ground Water Assn.), 601 Dempsey Rd., Westerville, OH 43081. Positions: Education coordinator, technical research associate, and training specialist, researching and responding to technical inquiries, education program and technology development.

EDUCATION

Degrees and Emphases:

MS, Environmental Biology, The Ohio State University, Columbus, OH (1984). Self-designed thesis program evaluating methods for sampling iron-related bacteria from wells.

BA, Biology and Earth Science (dual major), Wittenberg University, Springfield, OH (1977).

Selected Continuing Education:

Water well engineering; Water supply protection and treatment; Aquifer and well biofouling; Well maintenance and rehabilitation; Transport/fate of subsurface contaminants; Professional expert testimony, contracts; Deep subsurface microbiology; 40-hr + supervisor HAZWOPER.

PROFESSIONAL CERTIFICATION AND REGISTRATION

Certified Ground Water Professional (#316), National Ground Water Association (granted 1990, effective: continuing education fulfilled and certificate renewed).

Registered Professional Geologist (Kentucky, #1179, effective 12/1993/current).

SELECTED PROFESSIONAL AFFILIATIONS AND ACTIVITIES

AWWA Ohio Section Water for People Section Committee; Chairman, AWWA-WEF-APHA joint technical group section 9240, iron and sulfur bacteria; AWWA Groundwater Committee; ASTM Committee D18.21 on ground water investigations; NGWA Rural Water Committee, Microbial Interest Group (past chair), Developing Countries Interest Group, ANSI/NGWA 001 Water Well Construction Standard development; Sandusky River Watershed Coalition steering committee, past water/wastewater chair and SC past chair; Water Management Association of Ohio; Planning a water supply construction capability for Tanzanian health and agricultural NGOs. Numerous seminar and conference presentations including national AWWA and NGWA.

More details and project descriptions may be found at www.groundwaterscience.com

RESUME

Allen E. Comeskey, MS, RG, CPG, Partner
Smith-Comeskey Ground Water Science, LLC

PROFESSIONAL EMPLOYMENT HISTORY

September 1996-present: Smith-Comeskey Ground Water Science LLC (partner), 295 S. Lawn Ave., Bluffton, OH 45817USA. Tel: 419/358-0528, allen@groundwaterscience.com. URL www.groundwaterscience.com.

Scope of services: Advising clients on ground water supply issues; planning and analyzing aquifer and step testing; numerical modeling and wellfield protection and planning studies, both in glacial-fluvial and fractured carbonate rock settings; geology; GIS.

January 1995-March 1996: Leggette, Brashears and Graham, Inc., Trumbull, CT 06611. Position: Hydrogeologist II, responsible for supervising test drilling, monitoring well installation and sampling at remediation sites, numerical modeling of aquifers to delineate wellhead protection areas, assisting with aquifer tests.

August 1993-January 1995: Earth Data Inc., St. Michaels, MD 21663. Position: Hydrogeologist, responsible for record keeping and report writing for remediation projects; aquifer test analysis; hydrogeologic analysis; performing geophysical logging.

September 1989-June 1993: Dept. Of Geology and Geological Engineering, University of North Dakota, Grand Forks, ND 58202. Position: Teaching/Research Assistant. Responsible for teaching geology laboratories and assisting in department research.

September 1979-July 1989: North Dakota State Water Commission, Bismarck, ND 58505. Position: Hydrogeologist supervising test drilling for county ground water studies and other hydrogeological investigations, operating and maintaining borehole geophysical logger, logging 50,000 ft of borehole per year; radiation safety officer.

September 1978-September 1979: Freeport Exploration, Elko, NV and Utah Geological and Mineral Survey, Salt Lake City, UT. Positions: Logging drilling cuttings and collecting samples for gold and coal exploration projects.

EDUCATION

Degrees and Emphases:

MS, Geology, University of North Dakota, Grand Forks, ND 58202 (1993). Thesis: The Hydrogeology of Agnes Marsh, Grand Forks, ND.

BS, Geology, Bowling Green State University, Bowling Green, OH 43403 (1978).

Selected Continuing Education:

Ground water flow and well hydraulics for porous and fractured media; Analysis and design of aquifer tests including slug tests and fracture flow; geographical information systems, photographic analysis (LIDAR, etc.), environmental project management. Hold 40-hr + supervisor OSHA HAZWOPER certification.

PROFESSIONAL CERTIFICATION AND REGISTRATION

Certified Professional Geologist (#9880), American Institute of Professional Geologists. **Registered Professional Geologist** (Pennsylvania, #PG-001844-G and Indiana, #1788).

PROFESSIONAL AFFILIATIONS

American Institute of Professional Geologists; National Ground Water Association; International Association of Hydrogeologists; American Water Works Association.



Division of Natural Resources
Building 3, Room 816
1900 Kanawha Boulevard, East
Charleston, West Virginia 25305

Chapman Technical Group provided design and construction observation services for the Spring Run Fish Hatchery project that was completed in 2007. The project consisted of one (1) 25'-0" diameter batch clarifier; one (1) 20'-0" diameter sludge holding tank; sludge transfer pump station with two (2) 350 GPM self priming, centrifugal solids handling pumps; new effluent composite sampling and flow measurement system; new outfall structure; 860 linear feet of 12" 15" and 18" HDPE/DIP gravity sewer pipe; 1,000 linear feet of 8", 10" 12" and 16" DIP waterlines; (27) 8", 10", 12" and 16" gate valves; 13 pre-cast concrete manholes; structural crack repairs to existing raceways; piping modifications to existing raceways; removal of two existing concrete rearing ponds and associated electrical work; three (3) new 2 pass concrete raceways and associated piping; and site work and access road improvements.



Mason County Fish Hatchery

00010



Above: The Mason County Fish Hatchery building houses fish rearing facilities as part of WVDNR's hatchery operations at the Robert C. Byrd Locks and Dam. Right: Piping manifolds will distribute both well water and reservoir water to a variety of fish tanks.

West Virginia Division of Natural Resources

Capitol Complex, Building 3, Room 669
1900 Kanawha Boulevard, East
Charleston, West Virginia 25305



Located at the Robert C. Byrd Locks and Dam at Apple Grove, West Virginia, the Mason County fish hatchery building is the final component to the hatchery complex that also includes a series of fish rearing ponds and a reservoir to supply the ponds. The project also included the design and construction of two residences to be used by hatchery personnel.

The 9,200 square-foot fish hatchery building is a masonry and steel structure housing the actual hatching components, as well as offices and other support facilities. More than half of the building is open space to accommodate the fish hatching egg rack and a variety of rearing tanks that hold the fish until they are mature enough to be transferred

to ponds. The tanks are fed from either reservoir water or directly from well water which first passes through a degassing head tank. As water flows continuously through the tanks from an overhead distribution system, it is collected in a series of trench drains in the hatchery floor and eventually makes its way back to the Ohio River.

The hatchery also includes an office, a bunk room and kitchen for seasonal employees, a brine/shrimp room, and storage and maintenance garages. A mezzanine above the office area provides for additional storage.

Wastewater Engineering



WV DNR – Camp Creek State Park Wastewater System Improvements

08062



The West Virginia Division of Natural Resources, Parks and Recreation Department, retained Chapman Technical Group to provide design and construction phase services for a wastewater collection and treatment system at Camp Creek State Park in Mercer County, West Virginia. The existing facilities were served with septic tanks and leach fields which were failing due to shallow rock, a high groundwater table, and overloading during seasonal peak flows. The initial phase of the project was completed in July of 2010 and included a 6,400 GPD re-circulating sand filter wastewater treatment plant with UV disinfection and a grinder pump station which serves the superintendent's residence as well as the park's RV dump station. The treatment plant was constructed on engineered fill to elevate it above the historical high water level. Both the treatment plant and pump station were designed to facilitate future expansions of the wastewater system to pick up other park facilities when funding becomes available.

WV DNR
Parks & Recreation Department
Project Cost: \$525,723
Construction Cost: \$488,123



Beech Fork State Park Improvements

97049



Chapman Technical Group designed \$4.5 million worth of improvements at the state park near Barboursville including a 50-meter swimming pool, bathhouse, six modern cabins, and campground upgrades. The pool and bathhouse were constructed on 12 feet of fill, artfully designed by our landscape architects to blend naturally with the surrounding terrain. A one-half mile access road to the cabins was also designed by our landscape architects. They also provided the storm water management of the project, as well as all of the landscaping.

West Virginia Division of Natural Resources

324 Fourth Avenue
South Charleston, West Virginia 25303



Laurel Lake WMA Swimming Pool

Mingo County, West Virginia

The West Virginia Division of Natural Resources swimming pool at the Laurel Lake Wildlife Management Area near Lenore, West Virginia had fallen into serious disrepair and had actually closed down. Chapman Technical Group designed a rehabilitation of the pool that included a new stainless steel gutter recirculation system, a membrane liner, a new interactive wading pool, and new concrete decks. After the demolition of the old bathhouse, a new bathhouse was built which also houses the filtration equipment for the wading pool. The project was completed in 2010 at a cost of \$714,000.



The swimming pool renovations included a new interactive wading pool.



Canaan Valley Resort State Park WV DNR Parks and Recreation Canaan Valley, West Virginia

Chapman Technical Group is leading a team of specialists in developing a wide range of improvements at the ski area of Canaan Valley Resort State Park.

The upgrades include new facilities that will have a major impact on the resort's operations; others will be little-noticed but important improvements to the resort's infrastructure.

A new tubing park will be developed and will feature a 12-lane tube run in excess of 800 feet long with a vertical drop of 90 feet. A new boardwalk conveyor will carry tubers back up the hill. A tubing lodge will feature a wood-burning fireplace, restrooms, and a concession stand for hot drinks, and an outdoor patio will include a wood-burning fire pit. A storage building will house tubes and snow grooming equipment. In the same area, a wobble clay shooting range will be developed as a seasonal activity.

Another major improvement will be a new beginners slope and ski school area. This new slope will be easily accessible by beginning skiers and will include new snow guns and lighting for night skiing. A boardwalk conveyor

will carry skiers back to the head of the slope, enabling them to ski at their skill level as long as they want.

The main ski lodge, the Bear Paw Lodge, is relatively new, but the older buildings at the base of the ski slopes will get a much-needed face lift. New wall and floor finishes, new furnishings, new lighting and upgrades to the heating and ventilation systems, will make the lodge buildings much more comfortable. The pub will likewise be upgraded with an expanded bar area. Outside, a new plaza with a fire pit will provide more options for outdoor seating.

Important infrastructure improvements will include upgrades and major maintenance to the existing ski lifts; snow-making waterline repairs and upgrades; new snow guns; and major storm drainage improvements. A new waterline from the Canaan Valley golf course ponds will provide expanded snow-making capabilities.



Moncove Lake State Park Swimming Pool

97051



West Virginia Division of Natural Resources

State Capitol, Building 3, Room 669
1900 Kanawha Boulevard,
Charleston, West Virginia 25305

The new Moncove Lake State Park swimming pool opened for business on the Fourth of July weekend of 1999, one month ahead of schedule. Designed by Chapman Technical Group for the West Virginia Division of Natural Resources, the pool features a stainless steel gutter recirculation system and a wading pool surrounded by spraying jets of water. The 25 meter pool is a long-needed addition to the

state park located south of Lewisburg.

In order to provide adequate water for the pool, not only was the construction of a pool filter room required, but the entire water system for the park had to be renovated. The water system design included a larger well pump, a larger green sand filter to remove iron, and upgraded water storage and filter backwash capabilities.



Glade Creek Water Treatment Plant

97054



Beckley Water Company
Post Office Box 2400
Beckley, WV 25802-2400

Design and construction phase services for upgrade of the Glade Creek Water Plant consisting of retrofitting the existing concrete settling basin with two parallel Dissolved Air Flotation (DAF) clarification systems each equipped with two-stage flocculation units, and converting the remainder of the basin to provide adequate chlorine contact time after clarification. Prior to these improvements, this plant suffered from moderate to high levels of Disinfection By-Products (DBP's) on the finished water, thus resulting in non-compliance with the Stage 1 D/DBP Rule. The design capacity of the plant is 5500 gpm, with a peak capacity of 7300 gpm. The project also included design to allow the plant to operate under gravity flow conditions when adequate storage of raw water is available, resulting in a significant operating cost savings. Additional improvements consisted of a new emergency power generator and switchgear, and installation of sludge and backwash handling pumps.



Belington Water Treatment Plant

97065



City of Belington
Post Office Box 926
Belington, West Virginia 26250

Chapman Technical Group provided design and construction observation services for the City of Belington's new water treatment plant. The new water treatment plant was designed for an initial capacity of 700 GPM utilizing two package treatment units, with provisions to accommodate a third unit for expansion to 1,050 GPM in the future. The treatment process consists of Stage I and II raw water intake structures, 50-foot diameter pre-sedimentation basin with a detention time of four hours; chemical injection building; two 350 GPM USFilter Aquarius AQ-150B aluminum water treatment units with two-stage flocculation, tube settlers and mixed media filters; two 1,050 GPM backwash pumps; two 700 GPM high service pumps; chemical feed building; 197,260 gallon below ground clearwell and 55,000 gallon below ground backwash holding tank. The treatment units are housed in a 5,100 square-foot pre-engineered metal building along with the laboratory, office, kitchen, bathroom, electrical room, high service and backwash pump rooms and pipe gallery. The plant also includes a plant-wide SCADA system that also monitors the City's two water storage tanks. The total construction cost for the water treatment plant was \$3,000,000.

Wastewater Engineering



Corporation of Shepherdstown - Wastewater Treatment Plant

07047



Chapman Technical Group provided design and construction observation services for Wastewater System Improvements project that is currently under construction. The project consists of the renovation and upgrade of the existing wastewater treatment plant in order to meet growth and nutrient removal initiated by the Chesapeake Bay Program. The treatment capacity will increase from 0.40 MGD to 0.80 MGD. The upgrade/renovation consists of a new headworks facility featuring one (1) 3 mm coarse screen, two (2) 2 mm fine screens, screening wash compactor, 2.5 MGD grit removal system, all housed in a 1,120 SF metal building; 800,000 GPD Membrane Bioreactor (MBR) treatment system consisting of converting the existing aeration basins to bioreactor treatment basins, construction of new membrane treatment tanks and MBR equipment housed in a 5,100 SF pre-engineered metal building; new aerobic digester; new UV disinfection unit; non-potable water system; chemical feed equipment; renovate existing plant lift station; relocate existing rotary fan press; new sludge conveying equipment; new 480 SF metal building to house an existing sewer cleaner; improvements to the existing Control Building; demolish existing aerobic digester, break room building, sludge drying beds, existing secondary clarifiers, existing sludge pump building and chlorine contact tank; plant piping; mechanical/electrical; site grading; and new asphalt pavement and concrete sidewalks.



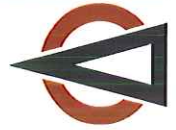
Corporation of Shepherdstown
Post Office Box 248
Shepherdstown, WV 25443
Project Cost: \$9,672,697
Construction Cost: \$7,298,000



City of Beckley Sanitary Board
301 South Heber Street
Beckley, West Virginia 25801

The Wastewater System Improvements Project consisted of 1) Wastewater Treatment Plant Expansion and Improvements, 2) Whitestick Pump Station Improvements, and 3) Pinecrest Interceptor Replacement. The total project cost was approximately \$11,400,000. Chapman Technical

Group provided all design and construction phase services for all three projects. The WWTP Expansion and Improvements, along with the Whitestick Pump Station Improvements, were completed in July 1999. The Pinecrest Interceptor Replacement was completed in October 1996.



Randolph Engineering Company, Inc.
4414 Teays Valley Road
Scott Depot, West Virginia 25560

Project included design and construction inspection services for a new 155,000 GPD Aerated Lagoon Wastewater Treatment Facility with Stabilization Pond and Advanced Wastewater Treatment Processes. The site of 4.5 acres was cross-sectioned in detail to allow accurate quantity take-offs by the contractor and provide a cost savings to the Owner. The ponds were designed with Hypalon liners similar to those required by sanitary landfill facilities.



Tazewell County Public Service Authority Decentralized Sewer System

10018

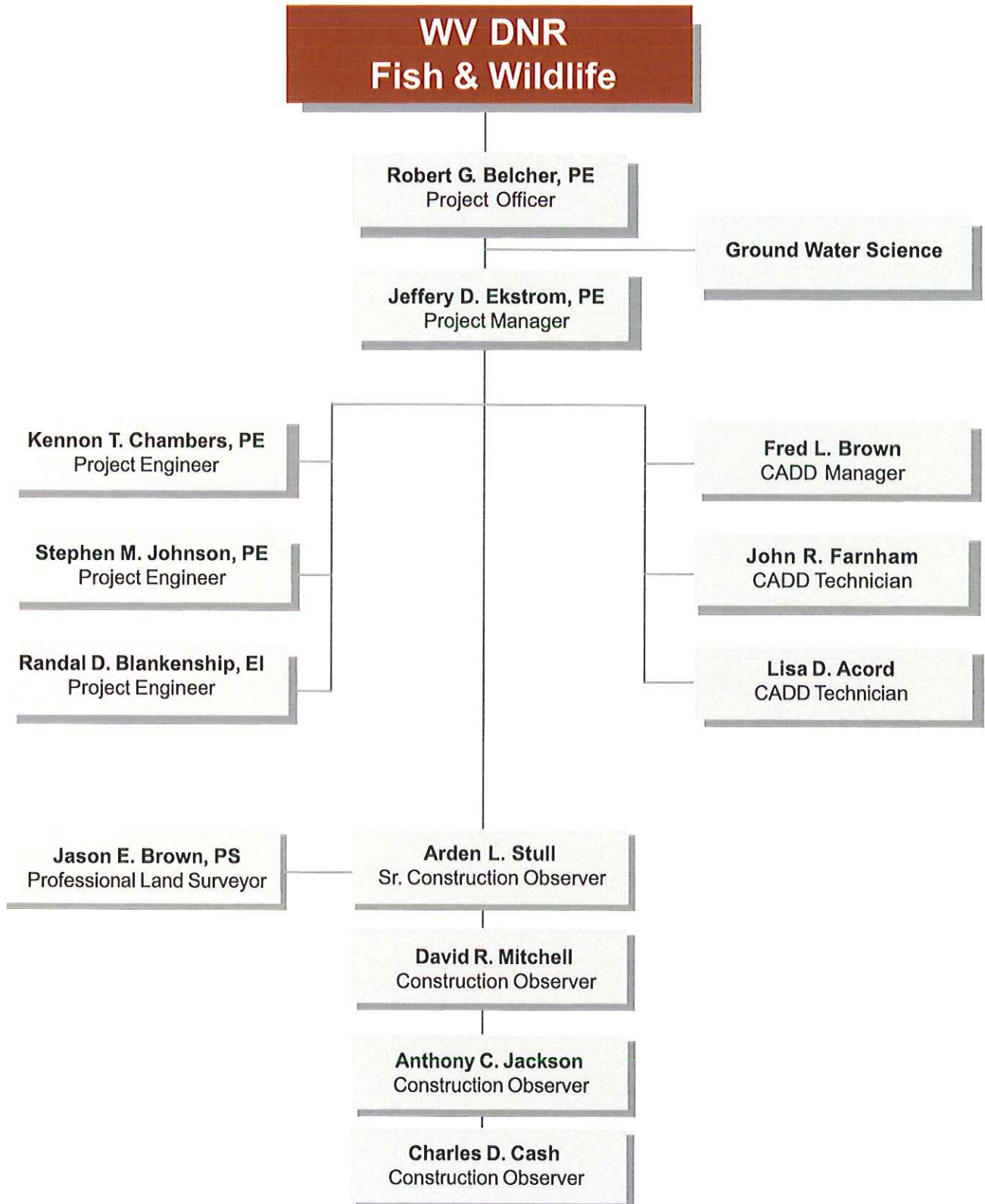
Tazewell County Public Service Authority
Post Office Box 190
North Tazewell, Virginia 24630
Estimated Project Cost: \$270,000
Estimated Construction Cost: \$202,000



Chapman Technical Group and Willis Engineering partnered to prepare a Preliminary Engineering Report and provided Design Services and Construction Document Preparation for the Tazewell County Public Service Authority for the Middle Creek Wastewater System Improvements Project in Tazewell County, Virginia. Few residents in the project area have adequately functioning wastewater disposal systems and many utilize straight pipes which discharge raw waste directly to Middle Creek. As a result, Middle Creek is listed as a 303d impaired stream. The Preliminary Engineering Report contained an inventory of residents who had inadequate or no waste treatment and disposal systems as well as an alternatives evaluation which accounted for initial capital as well as long term operation and maintenance costs to provide such facilities. The analysis included alternatives for both collection and disposal. Collection system alternatives included conventional gravity, low pressure grinder, and Septic Tank Effluent Pump (STEP) collection systems. Disposal alternatives included a connection to the nearby Town of Cedar Bluff's existing sanitary sewer system, a new centralized wastewater treatment plant, and on-site treatment and disposal. With the help of Chapman Technical Group & Willis Engineering, as well as the Cumberland Plateau Planning and Development Commission, the Tazewell County PSA secured funding from the Virginia DHCD's Community Development Block Grant program. Construction began in early spring of 2011, and was substantially completed by the year end.



Project Team





ROBERT G. BELCHER, P.E.
**Senior Vice President, Engineering
and Project Officer**

EDUCATION

West Virginia Institute of Technology, BSCE, 1983

REGISTRATION

Civil Engineering, West Virginia, 1996
Civil Engineering, Ohio, 2006

**PROFESSIONAL
HISTORY**

January 1987 to Present: Chapman Technical Group
Senior Vice President and Project Officer.

June 1984 to January 1987: Regional Intergovernmental Council
Planning and Development Council for West Virginia Region III - Metropolitan
Planning Organization for Charleston, WV, MSA.

29 years professional experience.

**PROJECT
EXPERIENCE**

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks.

Wastewater Systems: Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, and facility plan updates.

Miscellaneous: Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects including assistance with MS4 compliance, as well as potable water and wastewater system design for site development projects throughout West Virginia.

AFFILIATIONS

Water Environment Association - WV Section
Contractor's Association of West Virginia - Associate Member
American Water Works Association - WV Section
WV Society of Professional Engineers
American Council of Engineering Companies - ACEC/WV
WVUIT Civil Engineering Advisory Board
WV Qualifications Based Selection (QBS) Council

AWARDS

George Warren Fuller Award, 2001



JEFFERY D. EKSTROM, P.E.
Group Manager
Civil/Environmental Engineering

EDUCATION

West Virginia Institute of Technology, BSCE, 1990

REGISTRATION

Civil Engineering, West Virginia, 1996
Civil Engineering, Kentucky, 2011
Civil Engineering, Ohio, 2011
Civil Engineering, Virginia, 2012

PROFESSIONAL HISTORY

April 1991 to Present: Chapman Technical Group
Manager, Environmental Engineering and Project Manager.

October 1990 to March 1991: City of Charleston, South Carolina
Civil Engineer.

June 1990 to September 1990: Bechtel Savannah River Inc.
Civil Engineer for Reactor Restart Group.

23 years of professional experience.

PROJECT EXPERIENCE

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD utilizing ultrafiltration membrane treatment technology, improvements to existing plants, water mains and distribution systems. Water storage projects include precast-prestressed concrete tanks, glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks. Hydraulic analysis of water distribution/transmission systems utilizing WaterCAD by Haestad methods, EPA Net and KY Pipe.

Wastewater Systems: Design and project management for numerous wastewater systems throughout West Virginia. Projects include new tertiary wastewater treatment plants as large as 4.5 MGD, MBR treatment plants to meet Chesapeake Bay treatment requirements, improvements to existing plants, small-flow treatment plants, wastewater collection systems and lift stations, wastewater treatment facility and raceways for fish hatcheries, facility plan updates, and CSO long term control plan updates.

Miscellaneous: Design and project management for large stormwater management projects, as well as potable water and wastewater system design for many site development projects throughout West Virginia.

AFFILIATIONS

Water Environment Federation (West Virginia)
American Water Works Association, Secretary-Treasurer/WV Section
American Water Works Association, Member/KY/TN/OH Sections

AWARDS

AWWA George Warren Fuller Award, 2010



KENNONT. CHAMBERS, P.E.
Group Manager
Civil/Environmental Engineering

EDUCATION

West Virginia Institute of Technology, BSCE, 1998

REGISTRATION

Civil Engineering, West Virginia - 2003, Kentucky - 2011 and Virginia - 2012

Model Law Engineer as determined by the National Council of Examiners for Engineering and Surveying (NCEES) with a NCEES record established

PROFESSIONAL HISTORY

January 2010 to Present: Chapman Technical Group
Civil/Environmental Group Manager.

October 2007 to January 2010: Chapman Technical Group
Civil Engineer, Environmental Engineering Department.

March 2007 to October 2007: National Radio Astronomy Observatory
Facilities Engineer.

February 2002 to February 2007: Chapman Technical Group
Civil Engineer, Environmental Engineering Department.

July 1998 to February 2002: Taylor and Striegel, Inc.
Project Engineer for underground utility construction company in West Virginia, performing work in West Virginia, Ohio, and Kentucky.

Summers 1994 to 1996: West Virginia Division of Highways
Co-op Engineer - Materials Control, Soils and Testing Division.

15 years professional experience.

PROJECT EXPERIENCE

Water Systems: Design, construction and construction administration/management of various public and private water system projects including distribution and transmission systems, river crossings, storage tanks, treatment processes, booster stations and automatic meter reading (AMR) systems throughout West Virginia. Hydraulic analysis and modeling of water distribution/transmission systems using WaterCAD.

Wastewater Systems: Design, construction and construction administration/management of various public and private wastewater system projects including collection systems, lift stations and treatment processes throughout West Virginia. Hydraulic analysis of wastewater transmission systems including lift stations using WaterCAD.

AFFILIATIONS

Water Environment Association
American Water Works Association - WV, OH, KY and TN Sections
Rural Water Association - WV, KY, OH

MISCELLANEOUS

Class A Commercial Drivers License
PADI Certified Scuba Diver



STEPHEN M. JOHNSON, PE
Group Manager
Civil/Environmental Engineering

EDUCATION

West Virginia Institute of Technology, BSCE, 2004

REGISTRATION

Civil Engineering, West Virginia, 2009
Civil Engineering, North Carolina, 2008
Civil Engineering, Virginia, 2011

EXPERIENCE

January 2009 to Present: Chapman Technical Group
Civil Engineer

October 2006 to January 2009: McKim and Creed
Civil Engineer

May 2004 to October 2006: Chapman Technical Group
Civil Engineer

June 2001 to May 2004: Allegheny Power
Gas Support Technician/Intern

9 years professional experience.

PROJECT EXPERIENCE

Water Systems: Overall experience includes planning, design, bidding, and construction administration/management of various public and private water system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes distribution systems, river crossings, horizontal directional drills, wells, raw water intakes, transmission lines, booster stations, treatment plants, ground and elevated water storage tank design, painting, and rehab, SCADA systems, computer modeling, treatment process evaluation, and problem troubleshooting in existing systems.

Wastewater Systems: Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private wastewater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes gravity and low-pressure collection systems, pump stations and force main transmission systems, treatment plant process evaluation and design, trenchless pipeline rehabilitation, bypass pump system design, odor and corrosion control, effluent infiltration ponds, decentralized and alternative on-site disposal systems, and SCADA systems.

Stormwater Systems: Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private stormwater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes drainage basin hydraulic analysis, stormwater collection, detention and BMP system design, construction stormwater management plan preparation, and MS4 permit guidance.



RANDAL D. BLANKENSHIP, E.I.
Civil Engineering

EDUCATION

West Virginia Institute of Technology, BSCE, 2012

REGISTRATION

Engineer Intern, West Virginia, 2012

EXPERIENCE

January 2012 to Present: Chapman Technical Group
Civil Engineer

June 2008 to August 2012: Alpha Natural Resources
Engineering Intern

1 year professional experience.

**PROJECT
EXPERIENCE**

Water Systems: Overall experience includes planning, design of various public water system projects throughout West Virginia. Specific project experience includes distribution systems, transmission lines, treatment plants, and problem troubleshooting in existing systems.

Wastewater Systems: Overall experience includes design of various public wastewater system projects throughout West Virginia. Specific project experience includes gravity pump stations and force main transmission systems.

Stormwater Systems: Overall experience includes comprehensive system master plans, design of various public and private stormwater system projects throughout West Virginia. Specific project experience includes drainage basin hydraulic analysis, stormwater collection, detention and BMP system design, construction stormwater management plan preparation, and MS4 permit guidance.

Surveying Experience: Overall experience includes assisting a professional survey crew, using transit and GPS systems.

Mining Experience: Overall experience includes pit take-ups in AutoCad, basic operations of surface mine and preparation plant, assist surveying crew to survey roads, coal pits, and ditches. Also experience in collecting, recording and submitting production data of mine equipment.



FRED L. BROWN
CADD Manager

EDUCATION

Carver Career Center, Two Year Drafting/Cad Degree, 1997
Glenville State College, 20 Hours Toward Forestry Degree, 1988
Attended AUTOCAD14 Training Class Provided By Digital Graphics

PROFESSIONAL HISTORY

2002 to Present: Chapman Technical Group
CADD Manager.

1997 to 2002: Chapman Technical Group
Engineering Technician and CADD Designer.

16 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting on basemap, site development, construction plan sheets, signal plans, superelevation plans, existing and proposed utilities, utility relocation plans, lighting plans, boring construction plans, typical sections and details, mainline cross sections, bridge plans and details, attenuator details, guardrail plan layout and details, geometric plans, station and offsets of mainline centerline, stationing and curve geometric information, survey reference and control plans, point dump creations.

Architectural/Structural: Responsible for CADD drafting on existing and proposed building plans, structural framing plans and details, foundation plans and details, structural scheduling.

Site Design: Responsible for CADD drafting on proposed site layouts, site details and cross sections.

Airport: Responsible for CADD drafting on existing and proposed taxiways and runways, taxiway signage, hangar layout, and airport master plans.

Mapping: Responsible for CADD drafting for city street and zoning maps.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

AFFILIATIONS

Member, National Vocational-Technical Honor Society (NV-THS)

ACHIEVEMENTS

First place winner in Carver Career Center VICA skills competition and represented Carver at the state VICA competition for technical drafting.

Judge in 2001 State VICA skills competition for technical drafting.



JOHN R. FARNHAM
CADD Technician

EDUCATION

Center College, Two Year Drafting Degree
Ben Franklin Career Center, AutoCad Course, 1995

**PROFESSIONAL
HISTORY**

July 1996 to Present: Chapman Technical Group
Architectural Technician and CADD Designer.

1986 to 1995: Jerry Goff Architecture
Draftsman.

1976 to 1986: Gandee, Thomas & Sprouse - Architects
Draftsman.

1974 to 1976: Don Moses - Architecture
Draftsman.

39 years professional experience.

**PROJECT
EXPERIENCE**

Bridge and Highway: Responsible for CADD drafting on right-of-way plans, maintenance of traffic plans, signing and marking plans, boring plans and boring cross sections, typical sections and details.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

Architectural/Structural: Responsible for CADD drafting on schedules, details, floor plan designs, framing plans and details, foundation plans and details, renovation of buildings, reflected ceiling plans, cross sections, building interior and exterior elevations, roof plans and details, plumbing plans and details, HVAC plans and details, and building code implementation.



LISA D. ACORD
CADD Technician

EDUCATION

West Virginia University Institute of Technology, BS, Industrial Technology, 1997

West Virginia Institute of Technology, AS, Drafting and Design Engineering Technology, 1995

PROFESSIONAL HISTORY

November 1998 to Present: Chapman Technical Group
Engineering Technician and CADD Designer.

January 1998 to November 1998: GAI Consultants, Inc.
CADD Designer.

May 1997 to November 1997: Commercial Welding & Fabrication
Design Engineer.

16 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting of design and preparation of construction plans and details for roadway and bridge work. Involvement includes final design drawings for bridges, signing, pavement marking plans, maintenance of traffic plans, lighting plans, right-of-way plans, geotechnical boring logs and cross-sections.

Site Design: Drafting for site layout and proposed grading, including site access and parking areas. Also, assisted in construction documents for lake dredging projects, including dredging scheme, disposal site design, and a sediment control plan for both the dredging operations and the disposal site. Performed several presubsidence surveys in conjunction with a deep mines operation.

Water and Wastewater: Responsible for drafting profiles, site layout and proposed grading, booster stations, PRV's, master meter vaults, septic systems, plant valve pit, chemical feed vault, raw water intake and details, and various miscellaneous water treatment plant details.

Mining: Drafting for surface and deep mining permits, construction documents, and many detailed plans. Extensive research and drafting of property lines and ownership. Assisted with 100+ presubsidence surveys in West Virginia and Ohio.



JASON E. BROWN, PS
Professional Surveyor

EDUCATION

West Virginia State College, General Studies, 1991 to 2002
West Virginia Institute of Technology, Paramedic Science, May 1994
Glennville State College, A.S. Land Surveying, 1997 to 2002

REGISTRATION

Professional Surveyor, West Virginia #2188, December 2009.
Land Surveyor, Kentucky #4059, April 2013.

**PROFESSIONAL
HISTORY**

January 2010 to Present: Chapman Technical Group
Professional Surveyor/Survey Project Manager.

January 2008 to January 2010: S&S Engineers
Surveyor Assistant/CADD Technician.

July 2005 to January 2008: Brown Drafting
Owner/Operator.

September 2003 to July 2005: Garcelon Surveying
Surveyor Assistant/CADD Technician.

May 2002 to September 2003: Triad Engineering
Survey Party Chief.

January 1995 to December 2001: Chapman Technical Group
Survey Technician/Junior Construction Representative.
18 years professional experience.

**PROJECT
EXPERIENCE**

Highways: Established control, site surveying, topographic surveying, courthouse research, drawing production, Right-of-Way Questionnaires, bore hole stake out, and all surveying associated with the initial and final design of WV highways.

Site Development: All types of surveying associated with site development, to include control, topographic boundaries, research, and drawing production. Projects include military complexes, public housing, commercial development, industrial and institutional complexes, churches, resorts and public facilities throughout the state.

Parks and Recreation: Associated surveying for projects including swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems.

Water/Wastewater/Stormwater Systems: Associated surveying for the design of water systems, sanitary sewer systems, and stormwater systems, including treatment facilities for both private and public systems throughout the state. Field experience in the inventory and collection of attribute data using GPS equipment for uploading to GIS databases.

Airports: Associated surveying for the design of runways, airport facilities, lighting, and asphalt design for holding pads for small and large airport facilities throughout the state.

Boundary Surveys: Provided full boundary surveys and ALTA surveys for military complexes, private residences, prison facilities, commercial sites, and all boundaries associated with various engineering projects throughout the state.

AFFILIATIONS

West Virginia Society of Professional Surveyors.



ARDEN L. STULL
Senior Construction Representative

EDUCATION

Morris Harvey College, Major-Psychology; Minor-Sociology, 1973
West Virginia University, Environmental Science/Technology, 1998

**PROFESSIONAL
HISTORY**

December 2001 to Present: Chapman Technical Group
Construction Representative.

July 1997 to December 2001: Charleston Sanitary Board
Compost Facility Superintendent.

January 1994 to July 1997: Woolpert, LLP
Chief Construction Observer.

June 1979 to December 1993: Kelley, Gidley, Blair & Wolfe, Inc.
Chief Inspector.

1990 to 1992: Dunn Engineers, Inc.
Chief Inspector.

1977 to 1979: Milam/BCM Engineering, Inc.

1975 to 1977: Rude & Associates, Inc.

38 years professional experience.

**PROJECT
EXPERIENCE**

Responsible for supervision of construction observers, field engineering, coordination of subcontractors, assisted project engineer, attended client/owner meetings, and administration of several contracts simultaneously. Also construction record keeping, documentation of as-built quantities, line testing, observation of concrete testing, soil density testing, compiling "punch lists," final inspections, review shop drawings, review and approve periodic estimates and resolve customer complaints.



DAVID R. MITCHELL
Construction Representative

EDUCATION

Lee College, Associates Degree in Applied Science, 1998
Windham School District, 1997
LA Wilson Technological Center, 1982

**PROFESSIONAL
HISTORY**

January 2000 to Present: Chapman Technical Group
Engineering Technician and CADD Designer, Construction Representative.

November 1998 to December 1999: Chapman Technical Group
Rodman.

15 years professional experience.

**PROJECT
EXPERIENCE**

Bridge and Highway: Responsible for production of drawings and CADD drafting, roadway typical sections and details, maintenance of traffic, mainline cross sections, mainline profiles, and extensive survey work.

Water and Wastewater: Responsible for the production of drawings and extensive survey work. Also a construction representative overseeing water/sewer line and wastewater treatment plant upgrades.

Airport: Inspection work for runway, taxiway light installation, paving taxiway and runway, runway safety area, AWOS installation, piling wall, and PAPI installation.

Responsibilities include all aspects of field construction and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.



ANTHONY C. JACKSON
Construction Representative

EDUCATION

Carver Career and Technical Education Center, 2 Year Drafting Technology Degree, 1998

PROFESSIONAL HISTORY

June 1998 to Present: Chapman Technical Group
Construction Representative.

May 1988 to August 1993: West Virginia Division of Highways
Highway Maintenance Foreman.

May 1985 to August 1988: Shook of West Virginia
Operating Engineer, Form Carpenter, Pipe Fitter, Lead Operator, Crew Leader.

May 1976 to May 1985: Valley Development
Operating Engineer, Bore Jack Foreman, Foreman, Pipe Fitter,

37 years professional experience.

PROJECT EXPERIENCE

Responsibilities include all aspects of field construction coordination and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

AWARDS

Member of VICA - Vocational Industrial Clubs of America
Member of the National Vocational Technical Honor Society
Carver Passport - Shows Excellence in Training Area

CERTIFICATIONS

NICET - Level 2



CHARLES D. CASH, JR.
Construction Representative

EDUCATION

South Charleston High School , 1983

Attended WV DOH Portland Cement Concrete Refresher Course, 1998

Attended WV DOH Hot-Mix Asphalt Refresher Course, 1998

Authorized Sample Collector for new water mains - WV Bureau of Public Health, 1997

**PROFESSIONAL
HISTORY**

November 1992 to Present: Chapman Technical Group
Construction Representative.

June 1992 to October 1992: Business and Industrial Development Corporation (BIDCO).
Construction Representative.

August 1990 to May 1992: Dunn Engineers, Inc.
Construction Representative.

23 years of professional experience.

**PROJECT
EXPERIENCE**

Responsibilities include all aspects of field construction and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

References



1. Mr. Frank Welch
Public Works Director
Corporation of Shepherdstown
104 North King Street
Shepherdstown, WV 25443
304-876-3322
2. Honorable Dick Callaway
Mayor
City of St. Albans
1488 MacCorkle Avenue
St. Albans, WV 25177
(304) 727-2971
3. Mr. Brad S. Leslie, P.E.
Assistant Chief
WV Division of Natural Resources
Parks and Recreation
324 Fourth Avenue
South Charleston, WV 25303
(304) 558-2764
5. Mr. Shannon Bailey
Executive Director
Sanitary Board of Bluefield
100 Rogers Street
Bluefield, WV 24701
(304) 325-3681
6. Honorable John Manchester
Mayor
City of Lewisburg
942 Washington Street West
Lewisburg, WV 24901
(304) 645-3776

RFQ No. DNR213227

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Chapman Technical Group

Authorized Signature: *Robert C. Schuber* Date: July 2, 2013

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 2nd day of July, 2013.

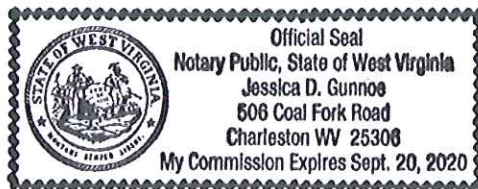
My Commission expires September 20, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC

Jessica D. Gunnoe

Purchasing Affidavit (Revised 07/01/2012)



CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Chapman Technical Group

(Company)

Robert G. Belcher

(Authorized Signature)

Robert G. Belcher, P.E., Vice President

(Representative Name, Title)

304-727-5501

(Phone Number)

304-727-5580

(Fax Number)

July 2, 2013

(Date)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DNR213227

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

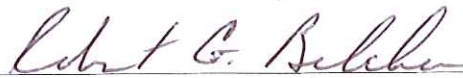
(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Chapman Technical Group

Company



Authorized Signature

July 2, 2013

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.