

# Vision

Our vision is to develop and protect the earth's water supply.

# Mission

Our mission is to provide trusted professionals to deliver quality services and products to our customers by combining expertise and technology in the ground water industry in an environmentally safe and economical fashion, while adding long-term value to our clients and our company.

# Big Objective

Our big objective is to become the most productive and efficient service-oriented company in the water and environmental well drilling, remediation, and pump installation business.

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### We Are the Company to Choose

Serving residential, industrial, commercial, municipal, and environmental markets with drilling services, pumps and water systems, provided by safety trained crews.

Eichelbergers, Inc., is a multifaceted groundwater contracting firm that has been serving the northeastern U.S. with high-quality, efficient, and valuable water-

related products and services for over 65 years. Thousands of clients have experienced the

advantages of our technical expertise, professionalism, and dedication to outstanding service.

No job is too large or too small for Eichelbergers. Our friendly staff of more than 100 team members is versatile, knowledgeable, and ready to apply our great depth of experience and resources in facilitating a wide variety of water-related projects. Our large staff also allows us

the flexibility to supply additional support when work scopes expand unexpectedly.

Eichelbergers provides potable well water for municipalities, state and federal governments, schools, developments, institutions, manufacturing companies, and other public and private water users. We also install systems for industries requiring water for cooling, cleaning, and waste disposal, and as components of finished end products.

In March 2008, Eichelbergers' recognized the potential development of the Marcellus shale play and immediately became involved in the new market. Services currently provided for our Marcellus shale clientele include conductor pipe installation, water wells for frac water sources, and ground water monitoring wells throughout Pennsylvania and West Virginia.

Each department is headed by project managers possessing extensive experience in drilling and construction services, and who always endeavor to provide the most efficient, cost-effective solutions and unmatched customer service.

#### A Leader in Technology

We continue to lead the in-

dustry in providing and utilizing the most modern drill- section elsewhere in this brochure. ing technologies available. Our equipment resources for drilling and tooling exceed that of the majority of our comparably sized competitors. We maintain a fleet of over 23 drilling rigs including air rotary rigs, hollow-stem auger drills, and two cable tool rigs. For large-diameter drilling, we also have large percussion hammers, tricone bits, and hole openers, and drill rods of up to 10 inches in diameter.

The hollow-stem auger drills are equipped with augers ranging in diameter from 3 1/4 inches to 8 1/4 inches, and are often used for soil sampling and well construction at

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environmentally impacted sites. Additionally, the rigs are equipped to perform rock coring for geotechnical applications. Our hollow-stem auger drill fleet includes a lowclearance drill and rubber-track-mounted drills for versa-

> tility in rough terrain. The rubber tracks also allow the units to be used inside buildings without damage to concrete floors.

> > Our fleet of Geoprobes represents a complete line of track -mounted services. Our new 7822DT and 6620DT machines supply both auger drilling and direct push capabilities. The latest technology offers a dual-tube system for discrete sampling, remedi-

al chemical injection, and construction of wells of up to two inches in diameter. We also offer percussion air rotary rock drilling services with our three 7822DT Geoprobe units.

Our cable tool rigs serve a variety of specialized uses in well drilling. Larger rigs are utilized to construct largediameter water-supply wells for municipalities. Environmental clients may have large-diameter extraction wells and methane ventilation wells installed. The rigs are also used for cleaning out existing wells and implementing corrective measures such as installing liner casings in existing wells. We have a small, skid-mounted rig for special applications such as indoor drilling or addressing areas with extremely limited working space.

Additionally, we have flatwater rig tenders with large-

Our equipment resources for drilling and tooling surpass those of many of our competitors.

volume potable water tanks, pressure washers/steamers, hoist trucks, high-capacity grout machines, backhoes, stabilizers in diameters from six inches to 19 inches for maintaining borehole alignment, pilot reamers for preparing for casing installation, a fleet of over 150 support vehicles, and much more. For a complete list of our major pieces of equipment, please see the equipment

#### Vital Expertise and Experience

We provide turnkey water-supply services to our customers, handling all facets of the project from start to finish. After a well is drilled, our construction crews install the permanent pump, trenching and piping, buildings, controls and electrical.

The same services are offered to our environmental clients. Once the well drilling is completed, our technicians install the remediation system necessary to treat the particular site conditions. Our experience includes pump and treatment systems, soil vapor extraction systems, and air sparge systems.

Our rig operators' certifications include individual

licenses in several states throughout the Mid-Atlantic region. Their **drilling experi**ence combined with state-ofthe-art technological capabilities means we successfully complete jobs even under the most difficult drilling conditions.

Prior to drilling or digging, we offer vacuum excavation for locating and identifying underground utilities, using a combi-

nation of pressurized air and vacuuming to remove the soil. This added option minimizes the risk of employee injuries, and prevents the serious inconvenience and large costs often associated with service interruptions resulting from damage to utility lines.

Our drillers are experienced in handling a wide range of geologic situations in a variety of settings, including bedrock drilling in shale, limestone, granite, diabase, gneiss, and marble, as well as unconsolidated formations. We regularly drill in the challenging karst for-

mations underlying much of central Pennsylvania. For unconsolidated conditions, our crews are trained and experienced in mud rotary drilling. We have successfully used mud rotary techniques to depths of up to 860 feet and diameters of up to 23 inches.

Our drillers regularly handle a wide range of geologic situations, including the most challenging drilling conditions.

When environmental issues are a concern, our rig operators frequently drill in unconsolidated formations using simultaneous casing advancement systems. These systems are very effective, minimize the risk of cross contamination of water-bearing zones, and often allow for the

reuse of casing materials on the project. The systems can be delivered to sites on short notice when unconsolidated geologic conditions that were not revealed during initial site investigations are encountered during drilling.

Additionally, we offer well performance testing to determine the safe long-term yields for well owners. Our capabilities range up to a capacity of 2,000

gallons per minute. Water-quality analyses can be included with any testing. Pump crews are also trained in packer testing, discrete zone testing, and technical project information.

Wells that are demonstrating lost capacity may be

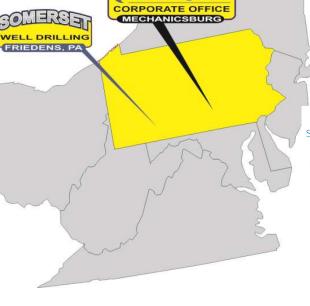
On-call, 24-hour availability for our water-systems customers. evaluated for rehabilitation, including mechanical and chemical. Naturally low-yield wells may be treated with hydrofracing, which involves pressurizing the existing bore hole to improve groundwater flow.

#### **Dedicated to Our Customers**

Eichelbergers is **an established authority in a highly competitive industry**, continually venturing to remain in the forefront with cutting-edge technology and state-of-the -art expertise. As part of our steadfast commitment to cus-

> tomer satisfaction, we are guided by the principles of integrity, diversity, team work, accountability, and top quality. We deliver projects on time and within budget, and to the most stringent standards. We are the company to choose for performance, efficiency, reliability, cost effectiveness, and superior service.

From our main office in Mechanicsburg, Pa., and satellite office in Somerset, we serve customers in Pennsylvania, Delaware, Maryland, New Jersey, New York, Ohio, Virginia, and West Virginia, the District of Columbia and occasionally beyond.



Eichelbergers. Inc

## Leading Our Company Today and Tomorrow:



#### Jerry A. Rice

Chairman, President, & CEO

Jerry graduated from The Pennsylvania State University with a degree in business in 1972. He is a CPA with an extensive background in strategic planning, operations, marketing, and finance. He has held senior management positions with several central Pennsylvania companies, and joined Eichelbergers in December 1996 as Executive Vice President of Finance and Administration. In December 1999, he became President and CEO. In January 2003, Jerry purchased the company and added Chairman of the Board to his titles. He is responsible for all the Company's management and operational functions.



#### James A. Baird Executive Vice President & CFO

Jim has overall responsibility for the company's financial affairs, including financial reporting, managing the company's banking and insurance relationships, and overseeing information technology. He joined Eichelbergers in November 2001 as corporate controller. Jim is a licensed CPA and also holds CMA and CIA designations. He earned his B.S. degree in business administration from the Indiana University of Pennsylvania, and his MBA from Temple University.

#### Kenneth J. Glace Domestic Group Manager

Ken has extensive field experience in all types of drilling, including mud rotary and simultaneous casing advancement. He specializes in commercial and municipal Water supply projects, well rehabilitation, and commercial Geothermal projects. Ken is a 1988 graduate of Lock Haven University. At Eichelbergers Ken has held a number positions over the past ten years including, Project Manager – Environmental Dept., Senior Project Manager of the Commercial Water Well systems department, and was promoted in November of 2010 to his current position.



Meet the friendly key personnel who stand ready to offer their outstanding experience and expertise in providing custom-designed solutions for your project needs.

#### Ted A. Gayman Executive Vice President of Operations & Marketing

Ted oversees the daily operations of the commercial, environmental, and residential markets, and directs the corporate marketing and capital budget strategies. A graduate of Dickinson College, he joined the company in 1990 and is experienced in all areas of the ground water industry. Ted's vigorous work ethic ensures the successful completion of projects within schedule and within budget, meeting the needs of the company's clients.





#### David M. Trexler Executive Vice President & COO

Dave comes to Eichelbergers Inc. from the Vartan Group, Inc where he was President and COO for the past fifteen years. He is a 1971 graduate of Penn State University and holds a P.E. License. Dave has 12 years of municipal and authority engineering experience in the disciplines of infrastructure, buildings, land development plans, and zoning and grant applications. In addition to municipal engineering Dave has more than 25 years of diverse experience in construction having managed the construction of over 2 million square feet of commercial buildings and hundreds of residential units totaling millions of dollars. His experience includes the 500,000 sq. foot Forum Place, at 30 N. 3rd Street in Harrisburg and more recently an industry leading Gold LEED laboratory building for the PA DEP at 2575 Interstate Drive. Dave is a corporate member of the U.S. Green Building Council. In his capacity as the Exec-

utive Vice President and COO of Eichelbergers Inc. Dave will have both the Commercial Group and the Domestic Group reporting directly to him.

#### Daniel A. Sponseller Commercial Group Manager

Dan received a B.S. degree in Geo-environmental Studies from Shippensburg University in 2004. Dan joined Eichelbergers in June 2004 and gained valuable experience working in the field. His experience includes all facets of the environmental drilling industry, as well as geotechnical and commercial drilling. In 2008, Dan was promoted to Senior Project Manager in the environmental drilling department and has managed numerous environmental drilling projects from soil borings at retail gas stations to recovery wells at Superfund sites. In November of 2010 Dan was promoted to his current position.





## Commercial & Municipal Systems

### Large-Scale Projects for Large-Scale Needs

We have the extensive equipment, in-depth knowledge, exceptional skill, and experienced manpower to handle even the most complex large-scale water projects for industries and municipalities. Services include water-supply systems and supply lines, well-yield improvement, well rehabilitation, irrigation systems, and a great deal more.

We custom design and install systems to meet our clients' specific needs, and are ready to implement all phases from start to finish, such as initial sampling and testing, drilling, construction, installation, and maintenance, as well as 24-hour on-call support.

We've completed hundreds of large-scale projects, and are the company of choice for many major industries and municipalities throughout the Mid-Atlantic region.

We have the extensive equipment, in-depth knowledge, exceptional skill, and experienced manpower to handle even the most complex large-scale water projects for industries and municipalities. Services include water-supply systems and supply lines, well-yield improvement, well rehabilitation, irrigation systems, and a great deal more.

#### **Air Rotary Drilling**

Air rotary drilling is the standard for well constructions. Drill rigs are available in a variety of sizes to meet the specific needs of each project. Percussion hammer and direct rotary drilling are available in a variety of sizes ranging up to 24-inch diameter. With a fleet of 24 rigs we can provide multiple rigs at a site to expedite the completion of large scale projects.



#### **Mud Rotary Drilling**

Mud rotary drilling techniques can be used to advance a borehole through unconsolidated formations. Overburden drilling sizes range from 6-inch to 24-inch diameter. The drilling mud is continuously re-circulated after passing through a



serious of basins and a de-sander. Both portable mud pans and excavated mud pits are available depending upon the size of the drilling project.

#### **Cable Tool Drilling**

Cable tool drilling services include both truck mounted and skid mounted capabilities. A truck mounted Bucyrus Erie 22W rig offers a wide range of drilling, open rock and screened well constructions, well rehabilitation, and well clean out services. A small skid mounted rig is available for drilling or well repair work in



limited access areas such as inside of buildings.

#### Auxiliary Air Compressors

Eichelbergers owns and maintains 3 high pressure/ high volume auxiliary air compressors for quick delivery to job sites. Drilling conditions such as large diameter drilling or encountering large water flows often require their use.



#### **Simultaneous Casing Advancement**

Simultaneous casing advancement allows the casing to be advanced with the drilling tools. This technology allows the bore hole to be advanced through unstable geologic conditions. The advanced casing string also helps to minimize the intermingling of water from several different aquifers. Systems are available in sizes



ranging from 6-inch through 18-inch diameter.

#### **Cathodic Protection**

Cathodic protection for pipe line infrastructure is provided with the installation of deep ground bed anodes. The corrosion protection system is installed by drilling a deep bore hole, installing sacrificial anodes within the bore, and then backfilling the bore from the bottom upward with coke breeze. This process minimizes



the area of surface impact compared to trench excavation installations.

#### **Over Drilling Existing Wells**

Sometimes site conditions and permitting issues make it more cost effective to reconstruct existing wells. We have developed a system to drill over the existing well casing, so it can be removed and the well can then be rebuilt. Each work plan is tailored for the specific conditions at each site location.



#### Grouting

A large selection of grouting machines are available to meet a variety of project needs. From high capacity truck mounted machines to smaller portable units, we have the grouter to service your needs. Well grouting is performed by installing a tremie pipe to the desired grout depth, and then pumping the grout from the bottom



most depth upward. Grouting includes both annular space grouting and well abandonment services.

#### **Aquifer Testing**

Well yield performance testing is available for both new and existing wells. Temporary test pump units ranging from 1 gpm to 2000 gpm are used for long term constant rate testing to confirm the yield of each well. A detailed log including pumping rates, water levels and visual observations is maintained to provide



the most comprehensive evaluation possible.

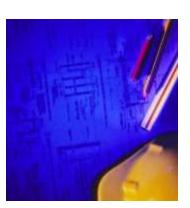
#### Pumps

Commercial well pump installations include both submersible and vertical line shaft turbine pumps. Both shallow and deep set installations are accomplished using our fleet of hoist trucks. Both new installations and replacement pumps are available.



#### Water Systems

Turnkey water supply systems installation is available. Services include pump house, well pump, booster packages, piping/ trenching, interior piping, water level monitoring equipment, and controls. Service is also provided after the sale.



#### **Process Control**

The required system command and control will be installed to meet the specific project requirements. Products include variable frequency drives, water level display & control, flow meters, and chart recorders.



#### Service

Our pump and water systems installations are backed up by a team of qualified service technicians. On call service is available 24 hours per day, 7 days per week. Our large inventory of pumps allows most repairs to be completed the same day.



#### Well Rehabilitation

We offer well rehabilitation techniques for both water supply wells and remediation extraction wells. Our methods include chemical treatments, mechanical surging, bailing and brushing. A well bore video camera inspection is recommended to assist with selecting the most effective well rehabilitation method.



#### **Dewatering**

Dewatering services include both well drilling and pump installations to control excessive water that is often encountered at construction sites. Temporary systems with pumps and generators can be provided for remote locations. Dewatering systems are tailored on a site specific basis to meet individual site needs.



#### Well Video Service

Bore hole video inspection includes a color picture, continuous on screen footage, and both a transverse and longitudinal view of the bore hole. Common uses include documentation of existing wells and diagnostic use for problematic wells. A DVD copy of each video is provided to the customers.





## Well Drilling Services

### Responsible Investigation and Development of the Ground Water Supply

We began providing services to the Marcellus shale play in March 2008. Since that time we have worked for a variety of shale gas operators and consultants throughout Pennsylvania and West Virginia.

As a Pennsylvania Contractor, our 60+ years of experience in ground water well development, monitoring well installations and deep exploration drilling provides the expertise needed to support the gas well drilling process. Safety training for crews includes OSHA 40 hour Hazwoper, Safeland Orientation, and Goal Zero training.



#### Frac Water Supply wells

We offer water well drilling for sources of frac water supply. Small diameter exploratory wells or large diameter permanent wells can be drilled to obtain the water for the frac process, eliminating costly trucking ex-



penses. We also offer well performance testing and permanent well pump/pipe/controls installations.

#### **Deep Fresh Water Contact**

Exploratory wells are drilled, cased and grouted on or close to the individual pad site locations for deep fresh water contact identification. Low flow sampling can be provided with pump installations designed to target spe-



cific water bearing zones and collect samples for water quality analysis.

#### **Monitoring Wells**

Monitoring wells are installed to establish base line data for both water quality and water level monitoring in the area prior to gas well drilling. Monitoring wells are also installed in response to spills, releases, or other



ground water impact occurrences to investigate and identify the presence or extent of a possible impact. Experience Includes both open rock and screened well construction in shallow overburden and deep bedrock geology.

#### **Replacement Wells**

It is sometimes necessary to drill a replacement well if an existing well is impacted during a construction project. We offer decades of experience in the drilling and testing of both public water supply wells and resi-



dential wells. Our service includes turnkey pump and water system installations following the completion of the well drilling process.

#### **Cathodic Protection**

Cathodic protection for pipe line infrastructure is provided with the installation of deep ground bed anodes. The corrosion protection system is installed by drilling a deep bore hole, installing sacrificial anodes within the bore, and then backfilling the bore from the bottom upward with coke breeze. This process minimizes the area of surface



impact compared to trench excavation installations.

#### **Safety Program Management**

Our staff of professionals is dedicated to the review and implementation of all company and regulatory requirements, training, PPE, documentation, and auditing to insure that we are providing our customers with a quality service while maintaining an emphasis on safety.





### Environmental Drilling & Remediation Systems Installation

### Safeguarding the Ground Water Supply

Over the decades, we've worked to protect and preserve our nation's precious natural resources while utilizing them effectively and efficiently. We have the drilling, sampling, testing, installation, and remediation expertise necessary to help our clients identify and definitively remediate their subsurface environmental problems.

While safeguarding the environment is a constant priority on all of our projects, we take particular pride in resolving environmental challenges both for the benefit of our clients and for the continued protection of the groundwater supply. We always stay up to date on the latest techniques and technologies, and strictly follow the most stringent DEP and EPA regulations.

#### **Air Rotary Drilling**

Air rotary drilling is the standard for well constructions. Drill rigs are available in a variety of sizes to meet the specific needs of each project. Percussion hammer and direct rotary drilling are available in a variety of sizes ranging up to 24-inch diameter. With a fleet of 24 rigs we can provide multiple rigs at a site to



expedite the completion of large scale projects.

#### **Hollow Stem Auger/Air Combo**

A fleet of truck mounted and track mounted drill rigs are available to meet a variety of site access conditions. Rubber track units and low clearance rigs are available for indoor drilling applications. Hollow stem augers ranging from 3 1/4inch to 8 1/4-inch inside diameter are available for unconsoli-



dated drilling. Air rotary capability can be added to our auger rigs to advance the bore hole beyond normal refusal conditions. Projects that require borings over water surfaces can be completed using a variety of barge mounted units.

#### Geoprobe

The Geoprobe fleet includes 7822DT Track mounted units offering the versatility of drilling with hollow stem augersWe also offer percussion air rotary rock drilling with these units. Services include well installations, discrete dual tube soil & water sampling, soil vapor points, and remedial chemical injections.



#### Vacuum Excavation

Combined air pressure and vacuum system can safely and accurately locate and identify underground utilities before drilling & excavating. The air knife is used to loosen the soil while the vacuum system collects and containerizes the spoils. This process provides maximum safety for personnel on site



while minimizing the risk of damage to the utility. Unit sizes range from the truck mounted Vacmaster 4000 to small trailer mounted units.

#### **Cable Tool Drilling**

Cable tool drilling services include both truck mounted and skid mounted capabilities. A truck mounted Bucyrus Erie 22W rig offers a wide range of drilling, open rock and screened well constructions, well rehabilitation, and well clean out services. A small skid mounted rig is available for drilling or well



repair work in limited access areas such as inside of buildings.

#### All Terrain Low Clearance Drilling

Eichelbergers Inc. maintains a versatile fleet of track mounted/ low clearance rigs for sites with challening access conditions. The all terrain/low clearance fleet includes the capability for air rotary, hollow stem auger and Geoprobe. The rubber track mounted units may also be used on paved surfaces to minimize the risk of damage.



#### **Remediation Systems Installation**

We offer complete remediation systems installation including pump and treat, dual phase extraction, soil vapor extraction and air sparge. Services include building construction, interior piping, trenching & piping including dual wall containment piping, process control and related electrical systems.



#### **Piping & Trenching**

Both piping and trenching services are provided using our own in house, OSHA trained crews. A backhoe, trackhoe, or excavator will be used depending upon the size of the project. Trained crews will install galvanized, ductile iron, HDPE or PVC pipe to meet your specific project requirements. We also



have certified fusion pipe fitters on staff.

#### **Construction Services**

Construction includes pump houses, treatment equipment buildings, interior & exterior piping, electrical, and process control equipment. Most services are provided with in house technicians, thus avoiding the use of subcontractors and allowing better control of project scheduling.



#### **Process Control**

The required system command and control will be installed to meet the specific project requirements. Products include variable frequency drives, water level display & control, flow meters, and chart recorders.



#### **Test Pits**

Test pit excavations are provided by our OSHA trained equipment operators. Four wheel drive backhoes can provide service in difficult access areas. Available dig depths using backhoes range 12-15 feet below ground surface.



#### **Packer Testing**

A variety of inflatable packers are available in sizes ranging from 2-inch to 12-inch diameters. We offer single and straddle assemblies to offer the best discrete zone samples possible. Water level monitoring can be made available in each isolated zone during testing procedures.



#### **Mud Rotary Drilling**

Mud rotary drilling techniques can be used to advance a borehole through unconsolidated formations. Overburden drilling sizes range from 6inch to 24-inch diameter. The drilling mud is continuously recirculated after passing through a serious



of basins and a desander. Both portable mud pans and excavated mud pits are available depending upon the size of the drilling project.

#### **Simultaneous Casing Advancement**

Simultaneous casing advancement allows the casing to be advanced with the drilling tools. This technology allows the bore hole to be advanced through unstable geologic conditions. The advanced casing string also helps to minimize the intermingling of water from several different aquifers. Systems are



available in sizes ranging from 6-inch through 18-inch diameter.

#### **Remedial Chemical Injections**

Pressure grouting systems are used to install the desired chemicals into specific areas of the subsurface. Commonly specified materials include permanganate, ORC, modified ORC, and HRC. The injection process can be modified to meet the specific requirements of the project.



#### Well Rehabilitation

We offer well rehabilitation techniques for both water supply wells and remediation extraction wells. Our methods include chemical treatments, mechanical surging, bailing and brushing. A well bore video camera inspection is recommended to assist with selecting the most effective well rehabilitation method.



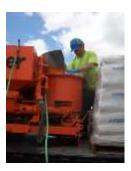
#### **Specialty Services**

A variety of project specific services are provided to meet the needs of the most challenging job sites and regulatory compliance issues. Services include items such as the installation of piezometers, inclinometers, and lysimeters.



#### Well Abandonment

We offer both over-drilling and grout in place methods for proper well decommissioning. Both small volume and high capacity grout machines are available to meet the needs of any size project. Grout is pumped through a tremie line placed to the bottom of the well to insure that the entire well bore is properly sealed.



A corresponding well abandonment record will be completed to meet the local regulatory requirements.



### Coring for Deep Mineral Exploration & Geotechnical Investigations

Accurate, Reliable Data on Subsurface Conditions

With our state-of-the-art equipment and techniques, we provide the most accurate and reliable geotechnical data possible to consulting engineers for the development of construction sites. Our experienced professionals and extensive resources are among the best in the business, and allow us to complete geotechnical site investigations and testing even in the most challenging settings.

We offer split-spoon sampling, Shelby tube sampling, direct-push drilling, five-foot continuous sampling, test-pit excavation, BQ through PQ, wire line coring, large-diameter coring, all-terrain low-clearance drilling, bedrock profiling, rock-pressure testing, and water boring. We also offer concrete, masonry, and pavement coring.

#### **Rock Coring**

Subsurface sampling includes NQ and HQ wire line rock coring, split spoon sampling, Shelby tubes, NW casing advancement, vain sheer testing and core hole packer testing. Core samples can be boxed and labeled for transportation to the testing laboratory.



**All Terrain Low Clearance Drilling** 

Eichelbergers Inc. maintains a versatile fleet of track mounted/low clearance rigs for sites with challenging access conditions. The all terrain/low clearance fleet includes the capability for air rotary, hollow stem auger and Geoprobe. The rubber track mounted units may also be used on paved sur-



faces to minimize the risk of damage.

#### **Split Spoon Sampling**

Split spoons are advanced through the subsurface to collect overburden samples. Rigs are equipped with automatic hammers for maximum efficiency. The driller will maintain a log to record the sample and corresponding blow counts necessary to complete the process.



#### **Bedrock Profiling**

Borings can be advanced to refusal in order to identify the depth to bedrock. This practice is frequently used prior to the installation of water and sewer lines to identify the requirements for trench excavations. If desired, rock coring can be used to identify the specific rock formation where refusal is encountered.



#### Safety Program Management

Our staff of professionals is dedicated to the review and implementation of all company and regulatory requirements, training, PPE, documentation, and auditing to insure that we are providing our customers with a quality service while maintaining an emphasis on safety.



#### **Pavement Coring**

Coring services can be provided through concrete and asphalt surfaces to collect representative samples for compliance testing. Core samples will be boxed and labeled. Traffic control can be included where necessary for sampling on active highways.





### Geothermal Drilling & System Installation Tapping into Energy from the Earth

We've been providing the wells and earth connections for geothermal systems to our residential and commercial clients for many years — longer than some of our competitors have even been in business.

We help clients select the type of system to best meet their needs, and supply the highest-quality products, services, and follow-up support. Understanding that the proper installation of geothermal loops, pipes, and other components is crucial to problem-free operation, our crews are fully trained and certified.

No matter the complexity of the situation or the system, our customers can trust us to do the job right, so they can enjoy the benefits of their geothermal installation for decades.



Typical loop installation site

#### **Residential Geothermal Drilling**

Residential geothermal projects are typically completed with one drilling rig and crew. Our experts will work with your heating contractor to select the proper method and location of drilling to complete your geothermal system. Most bore holes are 6-inch diameter and are approximately 300 feet total depth.



#### **Commercial Geothermal Drilling**

Large scale commercial sites demand multiple drilling rigs to complete the work in a timely manner. Larger projects are completed using 2, 3 or even 4 drilling rigs and crews! A separate grouting crew can be provided for maximum efficiency and productivity.



#### **Geothermal Loop Installations**

As soon as the bore hole drilling is completed, trained crews install the HDPE loop into the bore. The loops are grouted into place to provide the maximum efficiency for energy transfer. Certified pipe fusion technicians can also connect the vertical loop piping to the later pipes to complete the exterior piping system.



#### **HDPE Pipe Fusion**

DHPE (high density polyethylene pipe) connections are completed using a heat fusion process. Our crews are certified in pipe fusion to ensure a quality installation.



#### **Geothermal Grouting**

Following the loop installation, each bore hole is sealed from the bottom upward using a tremie pipe grouting system. Grouting is used to provide the most efficient energy transfer while also protecting the integrity of the ground water. The selection of grout type will be based upon individual specific project design requirements.



#### **Lateral Pipe Installation**

After the drilling and loop installations are completed, our trained crews can also provide the lateral pipe installations from the well field to inside of the foundation wall. Certified fusion pipe fitters will ensure a quality installation. Once inside the building wall, your HVAC contractor can complete the necessary equipment to complete the system.





### Safety Is a Value

### We Value Our Employees' and Clients' Safety

Eichelbergers, Inc. is dedicated to providing a safe and healthful work place for all of our employees. Our goal is to have a "zero" incident and injury rate. We realize production is a priority, however, Safety Is A Value.

Our firm is committed to providing a safety conscious and knowledgeable workforce to our customers to meet the high demands of the drilling industry. Eichelbergers, Inc. employees each receive 40 Hour HAZWOPER Site Worker Training, MSHA Part 46 Training, First Aid & CPR Training, PEC Safeland Training, in addition to continuing education throughout the year. The Eichelbergers Safety Department is dedicated to providing professional training both in the classroom and on the job to ensure a safe work environment for employees and clients alike.

#### **Training**

To provide a safe working environment, our employees receive both annual and periodic safety training on numerous topics. This is to both maintain current competency levels and advance the skill and knowledge of our field crews as regulations change.



#### **Job Site Inspections**

To strive for a "zero" incident and injury rate, our safety professionals regularly visit active jobsites to assess and evaluate the performance of our field crews. Continuous site inspections provide the safety department with hazard identification information that is shared with field crews and management



in efforts to develop action plans to continuously improve the company's overall safety program.

Training includes but is not limited to: 40 Hour HAZWOPER 8 Hour HAZWOPER Refresher MSHA Part 46 Training First Aid, CPR, AED Training CDL Driver Training Behavior Based Training Powered Industrial Truck Training

#### **On Site Services**

Given compliance, technical, and equipment demands in an ever changing industry, safe performance of essential activities can become a challenge. Eichelbergers Safety Department provides an experienced staff and specialized equipment to assist with on-site hazardous activities.



Confined Space Entry and Rescue Equipment Respiratory Protection Oversight Fall Protection Trenching and Excavation Hazardous Atmosphere Monitoring Emergency Management

#### **Regulatory Compliance**

In an ever changing industry, Eichelbergers focuses on not only meeting but exceeding regulatory compliance. By staying up to date on OSHA, DOT, EPA, state, and local regulations, we can provide our employees with the tools and training they need to provide our



clients with the best product in the safest manner.

#### **Safety Communication**

Eichelbergers strives for a continuous improvement to our safety culture. The safety department is constantly reviewing the policies, procedures, and training that it provides to employees to enhance the quality of the program. Communicating and implementing current safety policies and proce-



dures is essential to a continually improving safety culture at Eichelbergers.

#### **Safety Program Management**

Our staff of safety professionals is dedicated to providing a safe and healthful work place for its employees and clients alike. Through site inspection, program development and implementation, training, and regulatory compliance, Eichelbergers strives to provide quality service while maintaining the value of safety.



## Equipment

We maintain a large and diverse fleet of equipment specifically maintained to keep pace with our customers needs. Listed below is our most current equipment list which is updated and improved regularly to ensure reliability and keep pace with improving technologies and our customers needs.

#### **12 Air Rotary Rigs**

1Foremost DR24 1 Versa-Drill V-2000NG 6 Atlas Copco/IR T4W 1 Gill Beetle Air Rotary Drill 1 Ingersoll Rand T3W 2 Schramm 450WS

#### 2 Auxiliary Air Compressors

2 Sullair Compressor 1150 CFM

#### 2 Cable Tool Rigs

1 Bucyrus Erie 22W 1 Stone Rig Model 31

#### **5 Direct Push Units**

1 6620DT Track Mounted Geoprobe 1 54DT Track Mounted Geoprobe 3 7822DT Track Mounted Geoprobe

#### 20 Grouters

2 Custom Built Grouter

- 6 Walnut Grove Grouter
- 1 R-2 Grouter
- 6 Rosewall Grouter
- 1 Geoprobe gs1000 Grouter
- 1 Acker Truck Mounted Grouter
- 1 Chem Grouter
- 1 DSI Grouter II 1 Geo-Loop Model 50-500 Grouter

#### 7 Hollow Stem Auger Rigs

- 1 CME 55LC Auger Drill 4 Diedrich D-50 Turbo Plus Auger Drill
- 1 Deidrich D120
- 1 Acker Rebel

#### **5 Pump Hoists**

3 Smeal 6T Pump Hoists

- 1 Cyclone Pump Hoists
- 1 Semco S12000 Pump Hoist

#### 2 Vacuum Excavation Units

2 Vacmaster 4000 Vacuum Excavation Unit

#### 21 Pressure Washers

14 Rig Tenders 1 Mud Processing System

1 Hydrofrac Unit



Our maintenance shop will fit 5 full size rigs.



All equipment can be serviced indoors.



Small equipment shop area.

Equipment list revised 2/27/2018 7:29 AM

#### **Among Our Clients:**

Alpo/Friskies AT&T Boy Scouts of America Dauphin County General Authority **General Electric Giant Food Corporation Graterford Prison** Harley-Davidson Harrisburg International Airport Hershey Medical Center Huntsville Golf Club Lewistown Municipal Authority Merck & Co. Mount Hope Estate & Winery Pennsylvania DEP Pennsylvania State University Pennsylvania Turnpike Commission **PPG** Industries Schuylkill County Municipal Authority State College Water Authority Stroudsburg Municipal Authority **Turkey Hill Dairy** Tyco International U.S. Army Corps of Engineers Westinghouse

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