

STATEMENT OF QUALIFICATIONS

PRECISION ENVIRONMENTAL SERVICES, INC.

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www.precisionenvironmentalny.com

COMPANY PROFILE

Precision Environmental Services, Inc. (PES) is a New York State certified woman-owned business enterprise established in December of 1991. Since its inception, PES staff has included professionals, hydrogeologists, and technicians providing environmental investigation and contracting services. PES personnel have completed numerous site assessments, subsurface investigations, and design/implementation of remedial response projects. This work includes services required to effectively assess and mitigate environmental liabilities associated with the release of petroleum and hazardous substances.

Our staff has an extensive track record for providing a variety of environmental services to major oil companies, industry, insurance companies, governmental agencies, utility companies, and large and small businesses.

These services include:

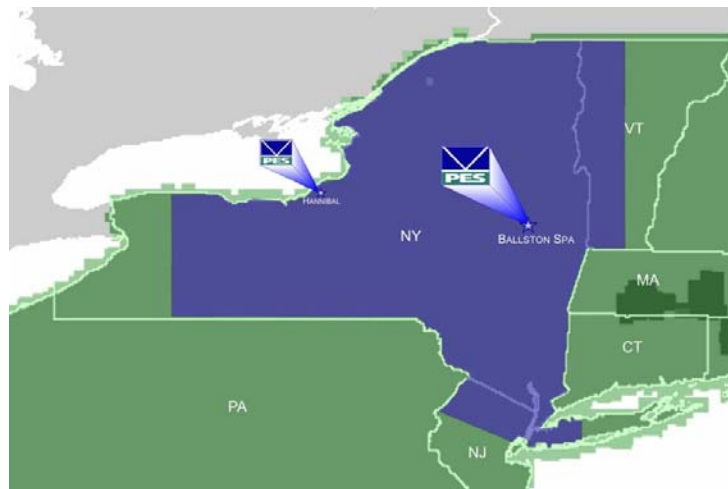
- Subsurface drilling and probing;
- Underground storage tank management and closure;
- Phase I, II and III environmental audits/assessments;
- Remedial corrective action design and implementation;
- Construction dewatering and soil/fluid transport and disposal;
- Indoor air quality testing and vapor impact mitigation.

In addition to serving the private sector, PES has provided investigative and remedial services for various New York State agencies, including the Department of Environmental Conservation, Department of Environmental Remediation, New York State Police, New York State Thruway Authority, Office of General Services, and Department of Parks and Recreation. For over 15 years, PES has held primary “Best Value” status to perform subsurface investigative and remedial response services for the New York State Department of Environmental Conservation in Regions 4 and 5. This classification qualifies us for similar work with other State Agencies. Currently, PES has also successfully completed the qualification requirements to establish the firm as a certified Brownfield assessment and remediation contractor. We currently perform environmental monitoring and/or remedial services at over one hundred locations in New York, Vermont, and New Jersey. Current remediation projects utilize a wide variety of proven technologies.

Personnel are provided with comprehensive safety training, which includes OSHA Standard 29 CFR 1910.120 (e) ‘40-Hour’ certification, OSHA ‘10-hour’ Construction Safety and Health, and Adult CPR and First Aid as recognized by the American Red Cross.

LOCATION AND SERVICE AREA

PES maintains its main office in Ballston Spa, Saratoga County, New York. PES also has an office in Central New York in the Town of Hannibal, Oswego County. PES primarily provides services within New York State to a broad geographic range extending from the Canadian border (the North Country Region, including the entire Adirondack Park) south to Westchester County and portions of Long Island, and as far west as Monroe County and Rochester. We also extend limited services into portions of Vermont and New Jersey. PES routinely evaluates responses to clients needs beyond the typical service areas and will always consider response to our clients needs regardless of the location.



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PRECISION
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SERVICE PHILOSOPHY AND MANAGEMENT APPROACH

Our goal is to resolve environmental impacts after fully illustrating to our clients all options available and by providing the most cost effective strategy.

Core steps undertaken to accomplish this goal are as follows:

- 1. Listen** to the client's needs and incorporate their perspective in our approach and services.
- 2. Clarify** project needs and goals with the regulatory community so all are participants in the proposed solution. We routinely resolve difficult and complex situations by balancing requirements of regulators with the client's needs and economic considerations.
- 3. Provide** an up-to-date evaluation of current and developing technologies to ensure that the most economical and technically effective action is selected. Monitored natural attenuation, risk assessment, and other less aggressive solutions are always considered.
- 4. Determine** the best possible means to implement the selected remedy. We will not limit ourselves to our own internal strengths but will look externally for services and expertise to meet the needs of our clients. PES maintains relationships with many specialists if needed for specific projects and often works closely with individuals/firms requested by clients.
- 5. Ensure** project economics and schedules remain at the forefront in the planning and implementation phases of the project. PES consistently utilizes local and lower cost vendors in ways that will not sacrifice project integrity.

Every project, regardless of size or complexity, will be given hands-on attention, technical input and accountability of a company principle. This quality control oversight continues during the entire project. The moderate size of our company coupled with multiple in-house capabilities ensures delivery of highly efficient services to our customer base. Our clients know we will incorporate both environmental and financial concerns into a comprehensive, cost-effective solution. These factors result in completed projects on scope, on schedule, and on budget.

GENERAL INSURANCE COVERAGE

PES carries insurance coverage tailored for the environmental industry. Our insurance coverage provides liability reduction for both PES and our clientele. Categories of coverage include the following:

- Commercial General Liability
- Pollution Liability
- Professional Liability
- Automobile Liability
- Worker's Compensation and Employer's Liability
- Worker's Compensation Longshore Endorsement

Actual insurance coverage and limits can vary pursuant to specific project requirements. PES provides certificates of insurance to all clients at the initiation of services. All applicable policies are maintained during the duration of the service agreements. Updated certificates are issued at the request of the client.

INVESTIGATIVE SERVICES

Phase I Environmental Site Assessment (ESA).

The ESA utilizes "due diligence" environmental guidelines described by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) including Superfund Amendments and Reauthorization Act (SARA). It is conducted in accordance with ASTM Standard E1527 and the USEPA All Appropriate Inquiries Final Rule.

The main consideration of the assessment is to identify on and off site land uses or recognized environmental concerns which could pose a potential environmental liability for the intended use. Previous ownership and land uses are researched to document site conditions. Typical tasks involved in the ESA include:

- Research available historical records or regulatory files to document previous site ownership and uses, including:
- Research standard environmental sources, such as federal and state database listings (i.e. NPL sites, CERCLIS sites, UST and leaking UST sites, State Petroleum or Chemical Spills).
- Research historical aerial photos, fire insurance maps, and city directories
- Contact appropriate local, state or federal agencies to update these lists or obtain information on specific listed facilities if needed. We will also obtain information on nearby facilities that may impact the site, such as treatment plants, landfills, and businesses.
- Site Reconnaissance, walking survey of the property and automobile tour of the immediate vicinity. During these we will look for past or present potential environmental problems and indications of potential environmental concerns or contamination.
- Prepare Environmental Assessment report on our findings. This will include site description, observations made during site reviews, presentation of historical documentation, findings and conclusions relative to potential environmental concerns, recommendations for addressing identified concerns.

Transaction Screen. This method of site assessment is often employed for smaller properties of less potential environmental concern. Typically less research and report preparation is required and the work follows ASTM E 1528 guidelines. PES staff can provide professional recommendations for which product best fits the needs of our customers.

INVESTIGATIVE SERVICES

Subsurface Investigation and Phase II Assessment.

If a site is known to contain environmental contamination or requires further investigation by a Phase 1 ESA, the Phase II assessment is conducted. This entails collection of samples of soil, groundwater, or building materials to analyze for various contaminants.

The sample collection process often involves the installation of soil borings and/or test pits under the direction of a PES professional. PES maintains a staff of engineers, geologists, environmental scientists, drillers, and environmental technicians experienced in implementing all aspects of Phase II investigations. This investigation includes any of the following typical work items:

- Excavate test pits with our backhoe or mini-excavator.
- Install soil borings using direct-push techniques. A Geoprobe®, fitted with a MacroCore soil sampler, is utilized to advance soil borings and collect soil samples in the overburden material.
- Install groundwater monitoring wells using the Geoprobe or a traditional hollow-stem auger drill rig.
- Monitor the excavation and field screen the soil with a photoionization detector as well as a four-gas meter.
- Monitoring well or soil sampling program to analyze for petroleum products or hazardous substances.
- Geophysical survey, including electromagnetic induction and ground penetrating radar.
- Fate & transport determination.
- Baseline risk assessment.
- Fish & wildlife impact analysis.

PES possesses in house equipment including drill rigs, geoprobes, and excavation equipment used to successfully complete all aspects of subsurface investigation work scopes. The equipment includes units configured to allow for rough terrain and/or limited access (i.e. limited overhead and/or lateral clearance).

Regulatory compliance or violation is determined through the collection and submission of representative soil samples to an ELAP certified laboratory. All samples are handled using court defensible “chain of custody” protocols.

INVESTIGATIVE SERVICES

Groundwater Investigation and Monitoring

Temporary or permanent groundwater monitoring wells can be installed as part of the subsurface investigation in order to assess groundwater quality. This is accomplished using a conventional hollow-stem auger drill rig or our Bobcat mounted Geoprobe.

Geoprobe soil borings can be converted into one (1)-inch diameter temporary groundwater-monitoring wells, or the traditional auger soil borings can be converted to 2inch diameter wells. These monitoring wells, typically constructed of PVC well screen and casing with flush threaded joints, extend across the observed water table. The annular space around the well screen is filled with #0 silica s and a bentonite seal is placed to prevent the infiltration of surface water. Completion with flush-to-grade, bolt down, watertight, traffic-rated road boxes is often included.

Installation protocols ensure the integrity of the groundwater quality data. Decontamination procedures are performed on all equipment and materials in the process before, between, and after each well installation. A PES geologist prepares geological well logs during each well installation to document information related to groundwater levels, observations, geotechnical character, contamination and well construction details.

Each monitoring well is surveyed to establish location and top of well elevation, information used to determine groundwater gradient. This is essential to evaluation of contaminant migration and potential need for additional investigation. Groundwater samples are collected using disposable bailers and submitted to a certified laboratory. As with the soil samples, regulatory compliance or violation is determined through the collection and submission of representative groundwater samples to an ELAP certified laboratory. All samples are handled using court defensible chain of custody protocols.

INVESTIGATIVE SERVICES

Soil Vapor Intrusion

Soil vapor generally refers to air in voids between soil particles. Soil vapor can enter a building through cracks or perforations in slabs or basement floors and walls. Soil vapor intrusion is the migration of chemical contaminants from the subsurface into a building. Building pressure differentials resulting from heating or cooling systems or “stack effect” are major forces which draw contaminant vapors into a structure.

Each project presents its own site-specific conditions, such as geology, building chemical inventories, building utility services, and air flow considerations. A thorough approach to assessing the problem and ultimate mitigation must be employed. Actions PES utilizes include:

- *Questionnaire.* Meet with owners and/or occupants to complete an indoor air quality questionnaire and conduct a building investigation.
- *Building Preparation.* Review existing building operations in order to identify conditions that may affect or interfere with the proposed sampling. All indoor sources of volatile organic compounds (VOCs) are scrutinized and documented in the questionnaire and the product inventory.
- *Collection of Samples.* Above-floor air sample collection is common to assess breathing zones. Samples are collected for an approximate eight-hour time period and collected in clean, laboratory-supplied and laboratory calibrated Summa canisters. Sub slab samples are monitored in real time by a helium detector to ensure that a competent surface seal was maintained.
- *Sample Analysis.* Certified laboratories analyze by appropriate protocol, such as EPA Method TO-14, which is capable of achieving a detection limit down to 1 µg/m³. Each sample is typically analyzed for VOCs, and any known site specific constituents of concern.
- *Report.* Upon receipt of the laboratory analysis, a report is prepared describing results of the investigation, including site background, Building Layout, HVAC Systems, Building Materials Inventory, Analysis and Conclusions.

Mitigation of a soil vapor intrusion problem can then be planned when required. Corrective action can be as simple as wind driven negative air ventilation of the structures subslab or large scale power ventilation. PES staff has performed numerous successful vapor abatement actions involving private residences, commercial buildings, and large industrial facilities. In addition to the design/installation services, PES offers experienced technical staff to operate and maintain vapor abatement equipment.

CONSTRUCTION/REMEDIAL SERVICES

Underground Storage Tank Management

Due to the inherent risk of a release of contaminants, buried storage tanks and associated piping are a potentially significant environmental liability. Underground storage tanks (USTs) have been utilized for decades to store petroleum-based fuels (gasoline, diesel fuel, kerosene, heating oil), hazardous liquids (solvents, etc.), and waste materials. In general, aging and continued usage increases leakage probability. This fact makes UST liabilities a significant cost consideration to tank owners/operators as well as to prospective property buyers who may be unaware of abandoned and undocumented USTs.

The installation, operation, closure, and removal of USTs are regulated by federal law under 40 CFR Part 280-282. Respective State and local municipal regulations also exist regarding USTs. PES staff has substantial experience related to the installation, compliance, monitoring, and removal of many types of aboveground (AST) and UST bulk storage systems. Experience includes both chemical and petroleum storage.

PES technical staff have successfully completed hundreds of UST removals and associated remediation projects, including but not limited to:

- Tank grave sampling and monitoring;
- Tank removal;
- Closure reports;
- Mass soil excavation and disposal;
- Associated construction dewatering.

We can coordinate all necessary permitting, excavation equipment, product removal, disposal, and environmental sampling. Our services also include completion of all required reports and submittal to regulatory agencies.

In the event of a release of product, additional assessment and remediation may be required. PES's experienced staff of geologists and technicians assist clients in completing post-closure work, development of remedial action plans and subsequent soil and/or groundwater remediation in anticipation of obtaining "No Further Action" status.

Regulated removal and closure of UST systems can be a lengthy and costly process. PES's experience and expertise can help reduce cost while ensuring a quick and effective resolution.

CONSTRUCTION/REMEDIAL SERVICES

Remedial Systems

A variety of remediation technologies are available to address subsurface contamination. PES provides expert guidance during the process of choosing the most appropriate remedial response, implementing the solution, and obtaining site closure status from all regulatory agencies. The ultimate goal is to reduce contaminant concentrations to levels that remove any environmental liability and allow regulatory closure.

Selection of appropriate technologies is dependent on a number of factors including contaminants, site-specific characteristics, clean-up goals, technology feasibility, cost, and regulatory and time requirements. These technologies address contamination distributed between free, adsorbed, and dissolved phases in both the vadose (unsaturated) and phreatic (saturated) zones:

- Groundwater Extraction and Treatment for Source Control and Containment
- Free Product Recovery
- Total Fluid (Multi Phase) Extraction Air Sparging/Soil Vapor Extraction
- Enhanced Biochemical Degradation/ Bioremediation
- In-situ Chemical Oxidation
- Vapor Intrusion Mitigation

Site remediation is a key PES service. Our remediation expertise spans a range of services including formulation of alternatives, feasibility evaluations, pilot testing, design/layout, cost analysis, preparation of bid documents, remedial implementation, operations and maintenance, and performance monitoring and assessment. This experience ranges from responses to simple small scale home owner petroleum spills to large major petroleum bulk storage facilities, chemical facilities, and hazardous waste landfills.

The depth of our experience makes us well suited to provide second opinions or peer reviews of existing remediation projects. This allows recommendations for improving strategy, design, and/or operations to better achieve remedial goals. We are typically fully engaged in the implementation of our recommendations including:

- management of remedial system construction,
- startup testing and commissioning,
- support of operations,
- maintenance and monitoring,
- Regulatory reporting.

CONSTRUCTION/REMEDIAL SERVICES

Groundwater Extraction and Treatment

Objectives of groundwater extraction and treatment is not just removal of contaminants from the subsurface, it includes containment of contaminated ground water to prevent migration. Actual treatment may include implementation of a series of processes, such as gravity segregation, air strippers, and carbon systems. Typical alternatives include:

- Conventional Groundwater Extraction via pump and treat technologies
- Vacuum assisted Groundwater extraction
- Total Fluid (Multi Phase) Extraction
- Air stripper tray and packed Towers
- Granular Activated Carbon Treatment
- Advanced Oxidation
- Chemical Augmentation
- Free product Recovery

PES identifies the chemical and physical site characteristics, defines the groundwater contaminant plume in three dimensions, and determines aquifer and soil properties necessary to design an effective groundwater pumping strategy.

An essential component of any groundwater extraction system is a monitoring program to verify its effectiveness. Monitoring the remedial process with wells and piezometers allows the operator to make adjustments to the system as the clean-up progresses.

Total Fluid Extraction (Multi Phase Recovery)

Total Fluid Extraction (TFE) uses a high vacuum system to remove various combinations of contaminated ground water, separate-phase petroleum product, and hydrocarbon vapor from the subsurface. It removes contaminants from above and below the water table. The system lowers the water table around the well exposing more of the formation. Contaminants in the newly exposed vadose zone are then accessible to vapor extraction.

Once above ground, the extracted vapors or liquid-phase organics and groundwater are separated and treated. TFE for liquid/vapor treatment is generally combined with bioremediation, air sparging, or bioventing when the target contaminants include long-chained hydrocarbons. Use of dual phase extraction with these technologies can shorten the cleanup time at a site. It also can be used with pump-and-treat technologies to recover ground water in higher-yielding aquifers.

CONSTRUCTION/REMEDIAL SERVICES

Soil Vapor Extraction/Air Sparging

Soil vapor extraction (SVE) is often employed by PES for treatment of contaminated soil. SVE essentially removes contaminants from the soil in vapor form by applying a vacuum through a system of underground wells. Air injection wells are often installed to increase air flow and improve removal efficiency.

SVE alone cannot remove contaminants from soil below the water table. Here the air sparging process is included, which pumps air into the saturated zone to push contaminants above the water table where the SVE extraction wells remove them.

A benefit of these processes is the added oxygen source which increases bioremediation potential. Bioremediation is an innovative treatment technology that uses microorganisms, such as bacteria that live in the soil or groundwater, to break down contaminants into harmless substances.

As with all of PES's remedial response applications, site specific data is collected during the subsurface investigation phase. This, coupled with results of onsite bench scale pilot testing, form the basis of remedial design/layout. Our geologic and technical staff have successfully implemented numerous SVE/AS projects and systems.

Point of Entry Treatment (POET) Water Systems

Where public supplies are not available, individual water supplies are needed to provide a drinking water source. Most private water supplies rely on groundwater as the source for wells or springs. Preventing pollution is one of the most direct ways of reducing health risks from drinking water. Abandoned or unused wells should be closed properly, so they cannot contaminate groundwater and nearby wells or become a physical hazard.

PES staff can assist property owners with water source evaluation as well as source protection plans. We will provide sampling and testing services in connection with home purchases and development.

If groundwater contamination is identified, carbon canister systems are often required at the point of entry to the facility. Continuous monitoring and change-outs are scheduled and implemented to maintain proper water quality.

DRILLING SERVICES & CONSTRUCTION/SUPPORT EQUIPMENT

PES, in conjunction with ADT, possess the personnel, equipment, and experience to meet our client's environmental drilling needs. The PES/ADT strategic alignment allows the two firms to combine the varied skills and extensive experiences of their geologist, engineers, licensed drillers, heavy equipment operators, and support personnel.

PES/ADT provide some of the best drill crews in the industry. Our goal is to make our client's job easier and to save both time and money. We meet our goal by listening to clients needs and by paying strict attention to safety, logistics, and the quality of our work. We stress communication, teamwork, and technical skills.

Our cooperative effort blends the resources of the team's wide variety of subsurface exploration rigs, geophysical technologies and support equipment. The product is a diversified alliance capable of handling projects of virtually any size at any location throughout our service area. All work is performed in accordance with state environmental and ASTM standards. Our environmental drilling services include the following:

- Direct Push (Probe)
- Angle probing, from horizontal to vertical, enabling probing under structures and foundations
- Hollow Stem Auger (can install wells up to 10-inch diameter)
- Air Rotary Casing Hammer
- Air Rotary Odex
- Mud Rotary
- Limited Access Rigs
- All Terrain Track Rigs
- Angle Drilling
- Barge/Over water Drilling

Our environmental sampling equipment include the following:

- Split spoons including extra heavy duty samplers for sampling in hard conditions
- 140 and 300 pound drop hammers
- Safety Driver sampling winches on all rigs
- Shelby tubes
- Piston Samplers
- Geoprobe and other "push" sampling equipment
- NQ & HQ (Triple Tube) and 134 mm Wireline coring systems
- Discrete horizon samplers.

HEALTH & SAFETY

PES provides its employees with a comprehensive health and safety program that includes initial OSHA HazWoper standard 1910.120 and NYS Labor Department/OSHA "right to know" training, followed by yearly eight-hour refreshers. In addition, PES field employees receive first aid and CPR instruction/certification. Medical monitoring is provided for field employees whose potential job duties present exposure situations that dictate the need for the expanded level of monitoring. Medical monitoring is provided by the Center for Occupational Health of Glens Falls Hospital located in Wilton, NY and is instituted by our medical consultant, Saratoga Safety. An evaluation and clearance for respirator use is also provided. Health and safety of its employees is PES's first order of business considering the many potential exposure factors inherent to the environmental industry. A health and safety plan is typically developed by the project manager with review and input by the health and safety officer. PES's outside consultant, Saratoga Safety, is utilized for peer review purposes sites that present non-typical or special health and safety concerns.

Health and safety plans are developed for each project based on a thorough review of project specifics including but not limited to existing analytical data and known or potential constituents of concern. Attention is also paid to common hazards that may result for site construction activities such as excavation, electrical work, water hazards, etc. The end result of the up-front planning process is a comprehensive health and safety plan that serves as the guide for safe and effective site work.

PES project managers and health and safety officers perform initial health and safety meetings at the start of each project. Daily "tailgate" meetings as well as regular audits of site activities are performed throughout the duration of each project. Tailgate meetings address changes in site conditions and/or procedures. The tailgate meetings also serve as a forum to allow employee input and to distribute information related to site condition changes. This integrated communication allows for management as well as PES's work force to share in the decision making process that ensures a safe work environment.

Personnel protective equipment is supplied to each PES employee. PES's health and safety officer is responsible for determining the level of protection as well as issuance of the proper personal protective equipment. Personnel performing tasks that require an additional level of training are pre-trained by our health and safety consultant, Saratoga Safety. Examples of such tasks include confined space entry, forklift operations, electrical work, welding, excavation, and respirator use.

PES maintains a library of material safety data sheets (MSDS) for products/materials used during the implementation of daily work tasks. All company vehicles are equipped with PES's general health and safety plan, first aid kit, road hazard kits, and fire extinguisher.

PES's health and safety officers perform regular reviews of PES's health and safety procedures. Near miss reports and accident reports are documented, investigated and reviewed.