

GENERAL SERVICES ADMINISTRATION

Federal Supply Service

Authorized Federal Supply Schedule Price List

Online access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage![™], a menu-driven Database system.

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FSC GROUP 899 – ENVIRONMENTAL SERVICES

Contract Number: GS-10F-0342K (8/10/00 – 8/9/15)

FSC Class

899-1

899-1(RC) Environmental Planning Services and Documentation

899-7

899-7(RC) Geographic Information Systems (GIS)

899-8

899-8(RC) Remediation Services

GEOENGINEERS, INC.

Plaza 600 Building

600 Stewart Street, Suite 1700

Seattle, WA 98101

Tel: 206/728.2674 Fax: 206/728.2732

Contract Administration: Paul McAfee

Email: pmcafee@geoengineers.com lalfonso@geoengineers.com

Web address: www.geoengineers.com

Business Size: Large (NAICS 562910 8731)

For additional information on ordering from Federal Supply Schedules, visit the U.S. General Services Administration website at www.fss.gsa.gov



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CUSTOMER INFORMATION

1. a. Awarded Special Item Numbers (SINs)

899-1

899-1(RC) Environmental Planning Services and Documentation

899-7

899-7(RC) Geographic Information Systems (GIS)

899-8

899-8(RC) Remediation Services

- b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer should show the range of lowest price and cite the areas to which the prices apply.

2. Maximum order.

\$1,000,000

3. Minimum order.

\$100

4. Geographic coverage (delivery area).

Worldwide

5. Point(s) of production (city, county, and state or foreign country).

Baton Rouge, East Baton Rouge Parish, Louisiana

Bellingham, Whatcom County, Washington

Bend, Deschutes County, Oregon

Boise, Ada County, Idaho

Portland, Washington County, Oregon

Redmond, King County, Washington

Sacramento, Sacramento County, California

Salt Lake City, Salt Lake County, Utah

Seattle, King County, Washington (Corporate Headquarters)

Spokane, Spokane, County, Washington

Springfield, Greene County, Missouri

Tacoma, Pierce County, Washington

6. Discount from list prices or statement of net price.

Negotiable on a project-to-project basis. Contact contractor.

7. Quantity discounts.

Negotiable on a project-to-project basis. Contact contractor.

8. Prompt payment terms.

None



9. a. Notification that Government purchase cards are accepted or not accepted above the threshold.

Yes

b. Notification that Government purchase cards are accepted or not accepted above the micro-purchase threshold.

Yes

10. Foreign items.

N/A

11. a. Time of delivery.

Delivery of final documents will be negotiated at date of award to date of completion on a per task order basis.

b. Expedited delivery.

Contact contractor

c. Overnight and 2-day delivery.

Contact contractor

d. Urgent requirements.

Contact contractor

12. F.O.B. point(s).

Destination

13. Ordering Address

Layne Alfonso
GeoEngineers, Inc.
8410 154th Ave NE
Redmond, WA 98052
Tel (425) 861-6000
Fax (425) 861-6050

14. Payment Address

GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, WA 98052
Tel (425) 861-6000
Fax (425) 861-6050

15. Warranty provision.

N/A

16. Export packaging charges, if applicable.

N/A



17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level).

Contact contractor.

18. Terms and conditions of rental, maintenance, and repair (if applicable).

N/A

19. Terms and conditions of installation (if applicable).

N/A

20. Terms and conditions of repair parts indicating dates of parts price lists and any discounts from list prices (if applicable).

N/A

21. List of service and distribution points (if applicable).

See item #5 on page 3.

22. List of participating dealers (if applicable).

N/A

23. Preventive maintenance (if applicable).

N/A

24. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants.

N/A

25. Data Universal Number System (DUNS) number.

78-467-2206

26. Notification regarding registration in Central Contractor Registration (CCR) database.

Yes



GEOENGINEERS IN SHORT

Twelve offices

Employee-owned company

Team of 300 employees

Founded 1980



GeoEngineers provides earth science, environmental, and technology consulting services through our network of offices. Our specific capabilities include:

- **Geotechnical** – site selection, foundations, ground stabilization, seismic analyses and construction monitoring.
- **Geologic** – fluvial geomorphology, geologic hazards, geomorphology, critical area ordinances and forest practice applications.
- **Hazardous Waste Management** – site assessments and characterizations, brownfields, feasibility studies, risk assessments, remediation and “cleanups.”
- **Groundwater** – water supply, water rights, water quality, wellhead protection, aquifer analyses, construction dewatering, and modeling.
- **Environmental and Ecological** – fisheries science, wetland delineation/mitigation, wildlife, nearshore/marine, habitat restoration, riparian corridors, subtidal habitat and river engineering.
- **Permitting** – Endangered Species Act, Clean Water Act, NEPA, SEPA, and other regulatory issues.
- **Geospatial** – data collection, analyses, map integration and remote sensing (including LiDAR terrain modeling) for multiple earth sciences applications.
- **Planning** – land use, geologic hazard reduction, siting studies, and regulatory interpretation.
- **Special Inspection and Testing** – certified personnel and accredited laboratory.



SIN 899-1

SIN 899-1(RC) ENVIRONMENTAL PLANNING SERVICES AND DOCUMENTATION

GeoEngineers offers diverse engineering and geosciences consulting related to the earth and the environment including all of the major categories described with SIN 899-1. From planning through design, permitting and implementation, GeoEngineers has a demonstrated record of successfully achieving practical results that are technically sound, environmentally conscious, and economically sensible. These services may be required to support a wide range of agency actions or decisions, such as obtaining or issuing permits; capital improvement projects and developments; facility siting, modifications, and maintenance; environmental management and compliance assistance; and policy development or policy review.

899-1A Environmental Impact Statements and Assessments under NEPA

GeoEngineers can conduct nearly all activities to support Environmental Assessment (EA) or Environmental Impact Statement (EIS) preparation and public involvement activities related to a federal action or decision including nearly all aspects of data collection and analysis; health risk assessment; environmental impact analyses; preparing impact assessment reports; preparing expert testimony; preparing materials for use at public meetings or public hearings; attending public meetings, public hearings, and scoping meetings on behalf of the contracting agency.

899-1B Endangered Species, Wetlands, Watersheds and Other Natural Resource Management Plans, Studies, and Consultations

GeoEngineers can provide coordination and communications related to reviewing existing reports and management plans; coordination with USFWS for ESA Section 7 consultation or other regulatory review; and requesting, obtaining, and reviewing information from regional offices or state and local agencies. GeoEngineers can also perform surveys, such as biological assessments or wetland delineation, data analysis and interpretation, and preparing reports, maps or tables. GeoEngineers can provide strength in this category. The following provides additional detail of the services we can offer in this area

ESA Strategy Development

- Analyses of alternative actions and costs
- Development of project purpose/need
- Assessment of potential ESA liabilities, risks and opportunities
- Permit and regulatory analyses
- Tracking of initiatives and potential listings

Natural Resource Assessments

- Entrainment/impingement/passage studies
- Instream flow analyses
- Fisheries and benthic community surveys
- Riparian corridor and water quality surveys
- Forest management
- Wildlife studies

Water Balance and Infiltration Studies

- Aquifer systems modeling
- Geological field mapping
- Assessment of impervious surfaces
- Infiltration gallery design
- Collection/evaluation of groundwater and stream water usage
- Mounding analyses
- Surface water/groundwater interactions

Water Rights, Withdrawal, and Appropriation

- Evaluation of optional water sources (water banking, groundwater storage, market water rights, purchase, or transfer of water rights)
- Geologic field mapping
- Mapping of recharge zones
- Water rights research

River and Stream Geomorphology

- Channel and bank stabilization design
- River/stream characterization surveys
- Channel stability analyses
- River/stream monitoring
- Erosion and scour analyses
- Sediment budget and transport
- Hydrologic modeling
- Side/braided channel evaluation and design
- Mass-wasting analyses
- Stream classification

Habitat Restoration, Mitigation, and Enhancement

- Analyses and design of fish barrier removal
- Grading and planting plans and specifications
- Assessment of current and future hydrologic
- New culvert/bridge design conditions
- Monitoring of restoration success
- Evaluation of structural integrity
- Construction supervision

Permitting and Agency Consultations

- Biological assessments
- Habitat conservation plans
- ESA no-take and take-avoidance letters
- Informal agency consultations and liaison
- ESA Section 7 consultations and conferences
- Properly functioning conditions
- ESA Section 10 permitting
- Negotiation of implementing agreements

Watershed Services

- Channel stability analysis
- Sediment transport evaluations
- Critical/sensitive areas
- Stream channel reconstruction
- Drainage basin erosion and sedimentation
- Stream monitoring
- Evaluation of stream conditions
- Watershed analyses
- River channel and shoreline erosion



899-1C Archeological, Historic, and Other Cultural Resource Management Plans, Studies, and Consultations

GeoEngineers is able to conduct historic and cultural resource inventories, provide documentation, and prepare management plans for mitigation and preservation in compliance with Section 106 of the NHPA and corresponding regulations. Documentation, mitigation, and preservation activities may involve preparing nominations for the National Register of Historic Places, and coordinating consultation with the Advisory Council on Historic Preservation, State or Tribal Historic Preservation Officers, and other agencies.

899-1D Economic, Technical, and Risk Analyses in Support of Environmental Needs

GeoEngineers will provide analyses of environmental actions, as necessary, to complete feasibility studies, alternative analyses, regulatory and economic analyses, exposure assessments, and human health and ecological risk assessments. GeoEngineers can provide any required data collection and analysis, database development and management, and analysis of comments regarding environmental actions that may be received from other federal agencies, state or local governments, stakeholders, special interest groups, and the general public.

899-1E Environmental Program Management

GeoEngineers can support any federal agency in managing a wide range of environmental programs and projects, which could include programs and analyses that address environmental justice concerns, assisting with Internet web site development, assisting in the development and implementation of ISO 14000 to meet compliance goals, or preparation of brochures and other materials to support public outreach and education activities.

899-1F Environmental Regulation Development

GeoEngineers is able to assist any federal agency in the development of environmental regulations, preparing public notices and supporting documentation (e.g., preparing administrative records), arranging for and conducting public hearings, reviewing and responding to comments from the public, revising proposed regulations, and publishing the final regulations. If an agency requests, GeoEngineers will review proposed environmental regulations and assist in developing and submitting comments, on behalf of the agency.



SIN 899-7

SIN 899-7(RC) GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Services under this SIN involve operational services such as mapping and cartography, natural resource planning, site selection, migration pattern analysis, pollution analysis, and emergency preparedness planning. GeoEngineers offers a wide range of Information Management Services to private industries, public ports, and governmental organizations. We specialize in providing GIS and database design and management services for our clients. In addition to utilizing these technologies for our projects, we work closely with clients to develop information management strategies that best respond to their data needs. A partial listing of the services provided under this SIN is provided below.

Collection, Compilation and Reviews

- Biological assessments
- Environmental sampling and laboratory quality control of analytical data
- Geologic, hydrologic and geotechnical data
- GIS, AutoCAD® base maps, and USGS quadrangles
- Historical data research
- Land use, zoning, and sensitive areas delineation
- Remote sensing, aerial photography, DEM, and topographic data
- Surface water, groundwater, and climatological data
- Water supply and resource protection

GIS Services

- Complex spatial analyses, facility siting, and queries
- Desktop or enterprise GIS solutions
- Digitizing and attributing new GIS layers
- GIS data research, acquisition, conversion, and compilation
- GIS tools include ArcInfo® 8.1, ArcView® 3.2a, Spatial Analyst® 2.0, Image Analysis 1.1, MapObjects® 2.0, ArcIMS® 3.0 (Internet Map Server), MapInfo® 4.5.2, ArcExplorer, Model Builder, and AutoCAD Map 2000
- Global Positioning System (GPS) data capture, processing, and mapping
- Integration of GIS with CAD and other visualization software
- Internet mapping applications
- Organize and plan GIS projects
- Use of aerial photography, LIDAR, and other remotely sensed data
- Image Analysis and Visual presentation of data through maps and graphics

Data Management Services

- Application integration
- Application design and development
- Collection, management, analyses, reporting and visualization of environmental sampling and laboratory quality control of analytical data
- Data compilation and conversion
- Database design and development
- Historical data research and assembly
- Microsoft® Office® application automation (Access, Word, Excel, and PowerPoint)
- Report and graphics automation
- Subsurface information management and visualization

SIN 899-8**SIN 899-8(RC) REMEDIATION SERVICES**

GeoEngineers has been at the forefront of conducting and managing environmental assessments and remedial actions for the past 20 years. GeoEngineers' environmental group has been structured specifically to perform characterization and remediation of sites where releases of hazardous substances have occurred. All of our environmental staff have general expertise in soil and groundwater characterization in addition to applied specialties such as risk assessment and remedial design. The presence of our multiple offices, and the relatively large number of cross-trained individuals (for example, geotechnical engineers experienced working on environmental projects) in our technical groups, give us maximum flexibility to draw additional support when needed to successfully meet deadlines.

The environmental services commonly provided by GeoEngineers include assessing the nature and extent of contamination, recommending remedial cleanup alternatives, and implementing the selected remedial action. Our remedial support services include estimating project costs, preparing bid packages, obtaining permits, and managing project logistics and budgets. Our goals on these projects are to provide clients a variety of remedial alternatives that are permanent, cost effective, minimize impacts to ongoing business activities, and can be completed in a timely manner.

GeoEngineers' qualifications and capabilities include the following:

- GeoEngineers has conducted numerous environmental investigations and remediation designs requiring complex negotiations with local, state and federal regulatory authorities.
- We focus on selecting remedial alternatives that match our clients' philosophy relative to cost control and achieving regulatory site closure. Examples of more aggressive remedial options include the use of risk assessments, engineering controls and institutional controls.

- We emphasize a close working relationship between GeoEngineers and our clients with careful attention to communications that may extend to the public. We are accustomed to helping our clients communicate environmental data and interpretations to the public.
- We often serve as a liaison between the client, attorneys and regulators in providing technical support to environmental legal matters.
- All of our field staff has completed required OSHA 40-hour hazardous waste training.

Remediation Technology Experience

GeoEngineers' team members have experience in each of the following environmental remediation services.

REMEDIATION SYSTEM INSTALLATION AND OPERATION

- | | |
|---------------------|--|
| ■ Aeration | ■ Reactive walls |
| ■ Biopiles | ■ Containment |
| ■ Land farming | ■ Excavation and asphalt incorporation |
| ■ Leachate recovery | ■ Excavate and replace |
| ■ Off-gas treatment | ■ Closed-loop bioventing |
| ■ Air sparging | ■ Intrinsic remediation |
| ■ Product recovery | ■ Low-temperature thermal desorption |
| ■ Bioremediation | ■ Vapor extraction and treatment |
| ■ Pump-and-treat | ■ Vacuum-enhanced product recovery |
| ■ Biosparging | |

ENVIRONMENTAL REMEDIATION SERVICES

- | | |
|---------------------------|--|
| ■ Compaction testing | ■ Operation and maintenance |
| ■ Regulatory reporting | ■ Permitting |
| ■ Confirmation sampling | ■ Groundwater and vapor flow modeling |
| ■ System optimization | ■ Pilot testing |
| ■ Construction dewatering | ■ Remedial action alternatives selection |
| ■ Bid specifications | ■ Regulatory liaison |
| ■ Construction management | ■ Risk assessment |
| ■ Capture zone analysis | ■ Shoring design |
| ■ Erosion control plans | ■ Treatability testing |
| ■ Engineering design | |



AWARD PRICE LIST

Schedule Price List for Contract #GS-10F-0342K

PROFESSIONAL ENGINEERING SERVICES

Labor Category	GSA Hourly Rates (Year 2012)
Principal Scientist / Engineer	144.30
Associate Scientist / Engineer	135.37
Senior Scientist / Engineer	122.79
Project Scientist / Engineer	106.50
Scientist / Engineer III	95.07
Scientist / Engineer II	84.07
Scientist / Engineer I	69.10
Lead Technician	75.57
Senior Technician	67.73
Technician	54.52
Word Processor	48.00
Project Assistant	47.50

SCA MATRIX

SCA Eligible Contract Labor Category	SCA Equivalent code - Title	WD #
Word Processor	01613 - Word Processor	05-2441
Project Assistant	01020 - Administrative Assistant	05-2441
Technician	30090 - Environmental Technician	05-2441

Prices for the SCA labor categories meet or exceed those in Wage Determination No.05-2441, Revision 8, dated 06/13/2011



LABOR CATEGORY DESCRIPTIONS

Principal Scientist/Engineer

A Principal has authority to enter into contracts for the provision of professional services. Final responsibility for technical accuracy and loss prevention for projects. Final responsibility for project completion in accordance with contractual agreements. Serves as a senior, in-house technical expert. Final responsibility for scoping and budgeting of projects, billing and collection of accounts. Present and negotiate contracts with clients. Assume a leadership role in corporate management of the company. Actively markets the services and brings work into the company. Continues to be responsible for the timely, accurate and profitable completion of all projects.

A Principal must have a minimum of 15 years of related professional experience including at least 10 years of project management experience or equivalent and at least 3 years of corporate management experience. They must be Registered/Certified in technical specialty if such registration is available.

Associate Scientist/Engineer

An Associate actively participates in bringing work into the company and continues to be responsible for the timely, accurate and profitable completion of all sized projects and actively assists in bringing work into the company. An Associate has the authority to enter into contracts for the provision of professional services. Final responsibility for technical accuracy and loss prevention for projects. Final responsibility for project completion in accordance with contractual agreements. Serves as a senior, in-house technical expert. Final responsibility for scoping and budgeting of projects, billing and collection of accounts. Present and negotiate contracts with clients. Participate in corporate management of the company.

An Associate must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 10 years of related professional experience including at least 8 years of project management experience. They must be Registered/Certified in technical specialty if such registration is available. An Associate must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 10 years of related professional experience including at least 8 years of project management experience. They must be Registered/Certified in technical specialty if such registration is available.

Senior Scientist/Engineer

A Senior is responsible for the timely, accurate and profitable completion of all sized projects. Plans field programs and conduct technical briefings of field staff. Participates in fieldwork as necessary. Completes complex analyses and calculations. Interprets subsurface data and accommodate conditions in project recommendations. Generates complete technical reports and proposals. Reviews project work and reports as needed. Develops project budgets and scopes for review by Principal/Associate. Responsible for the management, budget, performance, client billings, collections, and schedule control on multiple projects simultaneously. Participates in contract review. Maintains client contact for specific projects.

A Senior Scientist/Engineers must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 3 years of related professional experience including project management experience.



Project Scientist/Engineer

The Project professional is responsible for the timely, accurate and profitable completion of all sized projects. Plans field programs and conduct technical briefings of field staff. Participates in fieldwork as necessary. Completes complex analyses and calculations with supervision. Interprets subsurface data. Generates complete technical reports and proposals. Participates in technical review of project work and reports. Develops project budgets and scopes for review by Principal/Associate. Responsible for the management, budget, performance, client billings, collections, and schedule control on multiple projects simultaneously. Participates in contract review. Maintains client contact for specific projects.

A project Scientist/Engineers must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 4 years of related professional experience including at least 2 years of project management experience.

Scientist/Engineer III

A person in this position has increased analytical and project management responsibilities and may be assigned small projects to gain experience in project management. Responsible for fieldwork and field reports as assigned or need for specific projects they may be managing. Researches literature and historical information. Writes technical reports and coordinate full report production activities. Completes interpretation of subsurface data and technical analyses under general direction of senior staff. Participates in project management activities such as project budgeting, proposal writing, client liaison and invoice review. Participates in project management activities for several projects concurrently.

A Scientist/Engineer III must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 2 years of related professional experience.

Scientist/Engineer II

Primarily a field-related position. Gaining in field experience, this person also takes on a greater role in report writing and may be assigned small projects to gain experience in project management. Monitors field exploration and construction projects. Documents field conditions and writes field reports and participates in report production. Researches literature and historical information. Completes data analysis and calculations with supervision. May participate in project management activities such as project budgeting, proposal writing and client liaison. May be assigned small projects to gain project management experience.

A Scientist/Engineer II must have a 4-year technical degree from an accredited college or university in a related field and a minimum of 1/2 year of related professional experience.

Scientist/Engineer I

Entry level professional position. Primary duties involve field data collection and documentation. Monitors field exploration and construction projects. Documents field conditions and writes field reports. Researches literature and historical information. Completes routine technical analyses with supervision.

A Scientist/Engineer I must have a 4-year technical degree from an accredited college or university in a related field.



Lead Technician

The Lead Technician is highly experienced and knowledgeable regarding field operations. Primary duties involve field data collection and documentation. Monitors field explorations and construction monitoring projects. Documents field conditions and writes field reports. Plans, budgets and coordinates field operations for specific projects.

A Lead Technician must have a high school education and minimum of 10 years of related technical experience.

Senior Technician

The Senior Technician is highly experienced and knowledgeable regarding field operations. Primary duties involve field data collection and documentation. Monitors field explorations and construction monitoring projects. Documents field conditions and writes field reports. Plans, budgets and coordinates field operations for specific projects. May direct the field activities of other GeoEngineers personnel as needed.

A Senior Technician must have a high school education and minimum of 6 years of related technical experience.

Technician

Primary duties involve field data collection and documentation. Monitors field explorations and construction monitoring projects. Documents field conditions and writes field reports. Responsible for being field ready based on training requirements in the Health and Safety Manual. Conducts work safely and supports the safe work practices of co-workers. Assists in lab and equipment areas when available.

A Senior Technician must have a high school education and minimum of 1 year of related technical education or experience.

Word Processor

Responsible for production and quality control of a variety of company documents. Produces draft and final documents submitted to the word processing department. Develops expert knowledge and proficiency on all software used in the word processing department as well as basic software and hardware troubleshooting capabilities. Implements all company style guidelines. Guides staff on document style requirements and proper grammar.

High school education with additional course work and/or training in a related area, with a minimum of 2 years of word processing/administrative support experience.

Project Assistant

Responsible for general administrative duties such as filing, phone support, copying and faxing. Provides internal client contact and act as the liaison between clients and technical staff. Tracks schedules for field staff on a daily basis. Provides internal invoicing support.

College degree preferred with minimum of 4 years related work experience in the A/E industry or other professional services industry.



KEY PERSONNEL

KURT ANDERSON, CPG, LG, LGH, Principal Geologist, Chief Information Officer

M.S., Geology, Western Washington University

B.S., Geology, Southern Oregon State University

Kurt Anderson has 18 years of experience providing environmental services and litigation support to clients throughout the western United States and internationally. Kurt specializes in practical, risk-based technical and regulatory approaches to hazardous substance issues, and has applied technologies such as in-situ air sparging, biomodeling, bioventing, biosparging, and dual phase recovery and treatment. He is well-versed in the regulatory requirements of the Model Toxics Control Act (MTCA), CERCLA, and RCRA. Kurt focuses on returning contaminated properties to productive use and coordinating contaminant remediation with site development. He has been involved in the management of several hundred projects involving bulk fuel terminals, military installations, pipelines, large industrial facilities, and leaking underground storage tank facilities. Kurt is responsible for management of the IT group, which provides technology infrastructure; support and training internally; and data management and GIS support to external clients.

LISA BERNTSEN, PWS, Principal Wetland Scientist

M.S., Fisheries, University of Washington

B.S., Fisheries, University of Washington

Lisa is a certified Professional Wetland Scientist and has performed wetland delineations throughout the Pacific Northwest and Alaska. She is an expert in permitting and has completed numerous Corps of Engineers permit applications, from a wide variety of nationwide permits to the detailed 404 individual wetland fill permit. Lisa is also an expert with preparation of detailed environmental documentation such as environmental impact statements, shoreline management plans, comprehensive management plans and critical areas ordinances. Biological Assessments for threatened and endangered species listed under the Endangered Species Act have been a very active part of her professional effort. Lisa is a recognized scientific diver for eelgrass habitat and geoduck clam resource assessments. She has performed underwater habitat surveys throughout Puget Sound and many other places being considered for marine development.

JOHN BIGGANE, LG, LEG, LHG, Principal Environmental Scientist

M.S., Geological Engineering, Hydrology, Washington State University

B.A., Geology and Environmental Science, State University of New York

John Biggane has over 15 years of experience providing consulting services to public and private entities. Services provided include Phase I Environmental Site Assessments, Phase II Subsurface Assessments, remedial design/monitoring and regulatory interface. John has also performed many hydrogeologic studies for water supply systems, fish hatcheries, stormwater facilities, aquifer contamination susceptibility, and construction dewatering.

DAN CAMPBELL, PE, Principal Geotechnical Engineer, Chief Operating Officer

M.S., Geotechnical Engineering, University of California, Davis

B.S., Civil Engineering, Washington State University

Dan has been a consulting geotechnical engineer in the Pacific Northwest since 1989. His project experience includes geotechnical investigations and during construction observation for deep excavations and lateral earth support projects, commercial developments, industrial facilities, bridges, waterfront projects and borrow source evaluations. Dan also has extensive earthquake engineering experience, including site-specific response analyses, liquefaction analyses, and retrofitting and mitigation evaluations.

DANA CARLISLE, PE, Principal Environmental Engineer

M.S., Civil Engineering, University of Washington

B.A., Mathematics, University of Pennsylvania

Dana has been a consulting engineer since 1989 specializing in environmental site characterization and remediation design on complex cleanup projects. She is licensed to practice in Washington, Oregon, and Hawaii. She has been involved with independent and agency-ordered cleanups for bulk fuel facilities, service stations, automotive maintenance facilities, pipeline spills, auto wrecking yards, dry cleaning facilities and chemical manufacturing businesses. Dana is familiar and experienced with environmental compliance and permitting requirements of federal, state, and local laws, regulations and policies including MTCA, SEPA, water quality, and dangerous waste regulations. She has managed site assessments and cleanups conducted under Washington State Department of Ecology and Oregon DEQ guidance policy. She has also been responsible for acting as liaison between facility owners and regulatory agencies. Dana was published in Ground Water Monitoring and Remediation Spring 2002 issue with her paper "Successful Use of an Innovative Horizontal/Vertical Well Couplet in Fractured Bedrock to Intercept a Mobile Gasoline Plume."

DAVID COOK, LG, Principal Geologist

The Executive Management Program, University of Washington School of Business

M.S., Geology, Northern Arizona University

B.A., Geology, Wittenberg University

Dave Cook has performed environmental, geologic and geotechnical consulting services since 1991. His experience includes environmental site assessments, property transfer/due diligence reviews, remedial investigations, emergency response, design, installation and oversight of bioventing and air sparging remedial systems, and remediation of petroleum, solvent- and metals-related soil and groundwater contamination. Dave specializes in managing complex projects that require detailed budget tracking, unique technical decisions and constant communications with multiple involved parties. Dave has a successful history of overseeing remedial investigations, site assessments and cleanups at various commercial and industrial properties. Many of the projects have involved property transfers and/or site work that must be completed at operating facilities. He has an excellent track record of taking projects to completion and negotiating no further action determinations at sites that no longer pose a threat to human health or the environment.

GORDON DENBY, PHD, PE, Principal Geotechnical Engineer

Ph.D., Geotechnical Engineering, Stanford University

M.S., Geotechnical Engineering, Duke University

B.S., Civil Engineering, University of Cape Town

Gordon Denby has 23 years of experience providing geotechnical engineering services to a wide variety of public and private clients. Some of the work for which he has been responsible includes rock slope and landslide stabilization, site and foundation investigations, and seismic risk analyses. Gordon also has significant experience in the application of soil nail technology for a variety of deep excavations throughout the Pacific Northwest, including the deepest (72-foot) soil nail excavation in the United States. Other types of projects on which Gordon has provided consulting services include bridge and roadway projects, dams, site improvement, including dynamic compaction, fish hatcheries and fish bypass systems, all types of commercial, industrial and institutional buildings, and many port and waterfront facilities. He frequently provides expert testimony regarding geotechnical issues.

KURT FRAESE, LG, Principal Geologist, Chief Executive Officer

B.A., Geology, Humboldt State University

Kurt Fraese has 16 years of experience as a geologist, specializing in environmental services throughout the western United States. Kurt's understanding of environmental issues has provided key support to our clients' decision making regarding transfer, redevelopment, and remediation of properties contaminated by hazardous substances. His experience includes negotiations with regulators, attorneys, and financial institutions. He is an active participant in making external presentations on technical and business issues that affect the industry.

J. GORDON, PE, Principal Geotechnical Engineer

B.S., Civil Engineering, University of Colorado

J. Gordon has over 19 years of geotechnical and environmental consulting experience. Some of the services that J. has performed include site feasibility studies, slope stability analyses, foundation studies, environmental site assessments, and seismic evaluations. The types of facilities on which he has consulted include port and waterfront structures, commercial, office, and residential developments, power generation and distribution facilities, and municipal and military facilities. Other projects have included water supply and storage facilities; airport, roadway, bridge and transportation facilities; earth retention structures; and refineries and other industrial facilities.

JIM HARAKAS, PE, LG, LEG, Principal Geotechnical Engineer

M.S., Civil Engineering (Geotechnical), University of Washington

B.S., Civil Engineering, Michigan State University

Jim Harakas is a professional civil engineer providing geotechnical engineering services, primarily in the Northwest and Alaska, since 1974. He also has been involved on a wide variety of environmental projects throughout Washington and Idaho since 1988. Jim currently is a registered engineer in Washington, Oregon, Idaho and Montana. His geotechnical experience covers a diverse range of projects in the public and private sectors including involvement on large public works improvements, major military projects, aerospace manufacturing plants and port facilities. His geotechnical experience includes slope stability studies, deep foundation design, ground stabilization and liquefaction evaluations. Jim's involvement on environmental projects covers a diverse range of projects including routine site assessments for property transactions, characterization of soil and ground water contamination, remediation system design, and long-term monitoring of remediation systems.

GARY HENDERSON, PE, Principal Geotechnical Engineer

M.S., Civil Engineering, New Mexico State University

B.S., Civil Engineering, New Mexico State University

Gary Henderson has 30 years of experience providing geotechnical engineering services throughout the Pacific Northwest. During his career, Gary has been involved in many different project types and has provided a wide variety of expertise to a diverse client base. Some of the types of projects on which he has worked include industrial and manufacturing facilities, and commercial, residential, and institutional buildings. Industries for which he has provided significant geotechnical engineering services include the oil products refinery and transport industry; the wood, pulp and paper industry; the power generation and distribution industry; and the transportation industry which includes airports, roadways, bridges, railroads, and port and marine facilities. Gary has also been responsible for providing geotechnical engineering services for over 50 Federal, Department of Defense, and Naval facilities projects.



JOHN HERZOG, LG, PHD, Principal Geologist

Ph.D., Geological Sciences, University of Colorado

M.S., Geological Sciences, University of Colorado

B.S., Oceanography, University of Washington

John is a geologist and an oceanographer with 12 years of experience in remedial design, strategy development, and environmental management. He has managed a broad range of waterfront-related projects, especially those with issues related to contaminated sediments, remedial design and construction, geotechnical characterization, and upland redevelopment. He has provided expertise for dredged material management, sediment quality, structural and slope stability, biological toxicity and bioaccumulation, groundwater, and habitat restoration.

TREVOR N. HOYLES, PE, LG, LEG, Associate Geotechnical Engineer

B.S., Geological Engineering, University of Idaho

Trevor has 10 years of experience as a geotechnical/geological engineer in Oregon, Washington and California. He is responsible for writing technical reports and proposals, coordinating and performing surface and subsurface investigations, laboratory testing programs, engineering and analysis, and construction monitoring for a wide variety of municipal, transportation, and natural resources projects. Trevor specializes in evaluating slope stability and designing stabilization measures for landslides. His experience includes evaluation of adverse impacts from proposed construction projects and development of recommendations to mitigate such impacts. Projects have also included frequent cooperation and coordination with state and federal agencies to provide solutions that are effective and compatible with habitat concerns.

MICHAEL HUTCHINSON, LG, LHG, Principal Hydrogeologist

M.S. in Geology, Western Washington University

B.S. in Geology, Western Washington University

Michael Hutchinson is a licensed hydrogeologist practicing in the Pacific Northwest since 1994. Michael joined GeoEngineers after working for the Washington State Department of Transportation (WSDOT) for two years. Michael is experienced in working on property acquisitions and construction impacts, preliminary site investigations, and discipline studies to support Environmental Impact Statements. He has completed numerous projects for state routes, commercial property, government property and buildings, agricultural and industrial property, railroads, and bridges.

MICHAEL KENRICK, PE, LHG, Principal Hydrogeologist

M.S., Hydrogeology, University of Birmingham, England

B.S., Civil Engineering (Honors), University of Manchester, England

Michael Kenrick has extensive hydrogeologic experience in groundwater resources, water supply, civil engineering, mining, and environmental industries. He has taken responsibility in senior technical and management roles for the groundwater aspects of numerous water resources projects covering evaluation, planning and development, design, construction and monitoring. He has over 30 years of experience, and has been working in the Pacific Northwest for the last 19 years. His major areas of groundwater resources and water supply expertise include watershed analysis to understand infiltration and groundwater recharge; hydrogeologic and hydrogeochemical characterization; well siting, drilling, testing; aquifer hydraulics, and groundwater modeling for water supply, water rights and ASR projects. Michael is also a sought-after expert on construction dewatering in the Pacific Northwest, and has diverse experience in contaminant hydrogeology, groundwater monitoring, and mining hydrology.

BO MCFADDEN, PE, Associate Geotechnical Engineer

M.S., Civil Engineering, University of Colorado

B.S., Geological Engineering, University of Alaska

Bo McFadden has 19 years experience providing geotechnical and environmental consulting services in the Northwest and Alaska. He is responsible for project management and completion of field studies and reports that provide geotechnical design recommendations for projects involving water storage tanks, utility distribution systems, site development, slope stabilization, excavations and shoring, embankments, building foundations, and road and bridge construction. Other responsibilities include managing field engineering staff on construction projects and providing direct field engineering support.

GALAN MCINELLY, LG, LEG, LHG, Principal Geologist

M.S., Geology, Western Washington University

B.S., Geology, Central Washington University

Galan has been providing geomorphic, hydrogeologic, environmental, and geotechnical services in the western United States since 1984. He specializes in sensitive areas mapping, geohazards evaluations, slope stability analysis, hydrogeologic assessments for aquifer protection, aquifer analysis, environmental impact statements, and environmental site investigations. Galan is particularly experienced at evaluating and managing geohazards for pipelines and other linear corridors. He also has experience with geomorphic aspects of fish habitat enhancement. His experience includes evaluation of impacts from development to natural resources such as aquifer recharge areas, streams and wetlands. Galan is very familiar with regulatory issues related to geomorphic processes and the impacts they can have on public infrastructure and the environment. He has participated in numerous projects requiring coordination between several regulatory agencies, tribes and other stakeholders. He is familiar with sensitive areas ordinances for a number of municipalities and counties, DNR forest practices regulations, SEPA, NEPA and other regulatory standards.

ROBERT METCALFE, PE, LEG, Associate Geotechnical Engineer

M.S.C.E., Civil Engineering (Geotechnical), University of Washington

B.S.C.E., Civil Engineering, San Diego State University

B.S., Geology (Engineering Geology), San Diego State University

Bob Metcalfe has more than 12 years of experience providing geotechnical engineering services throughout Washington. Bob has been involved in a wide variety of institutional, municipal and private projects. Over the last several years, his primary market sector has been education facilities including community colleges, technical colleges, and universities. Other projects include roadways, bridges, and transportation facilities; dams and other water and earth retaining structures; and foundations for buildings, which have included medical, education, commercial, industrial, and parking structures. On these projects, Bob has been responsible for project management and engineering analyses related to soil, water, earthquake, landslide, and other geologic hazards.

JIM MILLER, PE, LG, LEG, LHG, Principal Geotechnical Engineer

M.S., Geology, University of Illinois

B.S., Geological Engineering, Colorado School of Mines

Jim Miller has 26 years of experience providing environmental, geotechnical, and hydrogeologic consulting services throughout the Pacific Northwest. His work has included conducting environmental assessments for contaminated properties, remediation planning and designs, monitoring of remediation activities, representing clients with regulatory agencies, and developing brownfield sites. He has investigated many active and potentially active landslides that are threatening both underground and aboveground structures. Jim also specializes in the study, identification, and development of groundwater supplies for water purveyors and fish hatcheries.

TERRY E. PARKS, LG, LHG, Principal Environmental Engineer

B.S., Geological Engineering, Washington State University
Graduate Studies, University of Idaho

Terry Parks is a geological engineer with extensive environmental-project experience in Washington, Oregon and Alaska. He has managed and been the principal investigator for many studies completed under Washington State's Model Toxics Control Act (MTCA). He has also been involved with investigations related to property transactions and liability assessments. His experience in hazardous waste investigations includes program design and management, field sampling and analysis plans, data quality objectives development, data evaluation, cleanup criteria definition and ARAR review, regulatory compliance, remedial options identification and public presentations. Terry has more than 14 years of experience providing environmental services at a variety of sites throughout the Pacific Northwest, including rail yards and fueling facilities, service stations and bulk fuel facilities, former explosive plants, aerospace manufacturing facilities, military bases and other industrial sites.

DAVID PHELPS, PE, Associate Geotechnical Engineer

B.S., Civil Engineering, San Francisco State University

David Phelps has been a consulting geotechnical engineer in the Pacific Northwest since 1993. His project experience includes conducting subsurface investigations, site reconnaissance and analysis for developing geotechnical design criteria and providing and supervising construction observation services for geotechnical aspects of site development, shallow and deep foundations, retaining structures, seawall and slope stability projects. David has worked on a variety of geotechnical and construction observation projects including new and replacement bridges, hospitals, commercial buildings, university buildings, residential complexes, water towers, earthworks, roadways, pipelines, port facilities and offshore structures.

MARY ANN REINHART, LG, LEG, Associate Geologist

M.S., Geology, University of Washington
B.S., Institute of Technology-Geology, University of Minnesota

Mary Ann is a fluvial geomorphologist specializing in sediment transport analyses in fluvial environments, evaluation of hillslope processes including sediment production and delivery, landslide and steep slope evaluations, and aerial photographic analyses. She has conducted and managed large- and small-scale projects in a wide variety of fluvial environments in the Pacific Northwest. These project have involved sediment transport and erosion studies, river and stream channel surveys, bedload transport and streambed scour studies, channel migration analysis, sediment source area surveys, and geologic hazard and environmental impact studies. She also has experience in analyzing littoral drift and embayment circulation, and transport and deposition of sediment in fresh water and estuary nearshore environments.

MATTHEW W. SMITH, PE, Associate Geotechnical Engineer

M.S., Civil Engineering, University of Washington
B.S., Civil and Environmental Engineering, Utah State University

Matt Smith is a geotechnical engineer with 12 years' experience in geotechnical engineering analysis, design, and project management. Matt's engineering experience includes developing geotechnical design recommendations for transportation, municipal infrastructure, and commercial building projects. Matt's project experience includes shallow and deep foundations, temporary and permanent retaining walls, mechanically stabilized earth walls, landslide investigation and mitigation, instrumentation monitoring, building below the groundwater table, and seismic design. He has managed a variety of geotechnical engineering projects including roadway improvement projects, major freeway interchange design, shoring and foundation design for commercial buildings, and landslide stabilization projects.

GARRY SQUIRES, PE, LG, LEG, Principal Geotechnical Engineer

M.S., Geotechnical Engineering, University of Washington

B.S., Geology, University of Aberdeen, Scotland, U.K. (Honors)

Garry Squires has 30 years of experience in geotechnical engineering, hydrogeology, and mining geology. His project experience includes conducting subsurface investigations, site reconnaissance and analysis to develop geotechnical design criteria and provide construction observation services for geotechnical aspects of site development, shallow and deep foundations, retaining structures, seawall and slope stability projects. He has managed subsurface investigations to characterize soil and groundwater conditions, evaluated impacts to construction projects and provided recommendations for site preparation and earthworks. Garry has worked on a variety of geotechnical and construction observation projects including new and replacement bridges, hospitals, commercial buildings, university buildings, residential complexes, water towers, earthworks, roadways, pipelines, port facilities and offshore structures.

SHAUN STAUFFER, PE, Associate Geotechnical Engineer

M.S., Civil Engineering, University of Washington

B.S., Civil & Environmental Engineering, Utah State University

Shaun Stauffer has been a consulting geotechnical engineer and field representative in the Pacific Northwest for 12 years. His project experience includes marine projects, pile foundations, lateral earth support, slope stability, foundation engineering, and seismic analysis. Shaun has managed numerous commercial projects that have involved designing soil nail walls and soldier pile walls for supporting cuts and designing MSE (mechanically stabilized earth) walls for embankment fills. Shaun has also completed numerous deep foundation projects, which included drilled shaft design and driven and drilled pile design.

DAVID THIELEN, PE, Principal Geotechnical Engineer

M.S., Civil Engineering, Oregon State University

B.S., Civil Engineering, Oregon State University

David Thielen has 24 years of experience managing major geotechnical and environmental projects and has been in charge of subsurface investigations, engineering analysis, design documents, regulatory approval, and construction monitoring. Typical projects include bridges and roadways, port and industrial facilities, and commercial and industrial buildings. David also is a noted expert in slope stability, retaining structures and geosynthetics.

TOM TOBIN, PE, Principal Geotechnical Engineer

M.S., Geotechnical Engineering, University of California-Berkeley

B.S., Civil Engineering, University of California-Berkeley

Tom Tobin has 19 years of experience as a geotechnical engineer. Tom is a registered engineer in Washington, Idaho, Oregon, and California. His project experience covers a wide variety of projects for commercial, industrial and residential developments. Additionally, he has worked on projects for a wide variety of private entities and governmental agencies. Many of these projects have been transportation-related roadways and bridges. Tom's experience with waterfront and water-related work include commercial waterfront developments, dams and related embankment designs, and stream and riverbank protection and restoration projects. Tom also has specialized expertise in the analyses of slope stability and seismic and liquefaction potential.

BRUCE WILLIAMS, Principal Environmental Scientist

B.S., Geography, University of Maryland

Bruce Williams has provided environmental consulting services to clients throughout the western United States since 1985. He currently manages the environmental group in GeoEngineers' Spokane, Washington office and is responsible for the technical direction of environmental projects conducted from this office. Bruce has managed several hundred environmental assessment and remediation projects at rail yards, agricultural facilities, service stations, bulk fuel terminals, large industrial facilities, and other properties. He has applied innovative technologies and risk-based approaches to bring contaminated properties into productive and beneficial reuse.

STEPHEN WOODWARD, LG, Associate Environmental Scientist

M.S., Geology, University of Cincinnati

B.S., Geology, Indiana University of Pennsylvania

Steve Woodward has performed environmental consulting services since 1992. During this time, he has developed and managed multidisciplinary teams to complete long-term assessment and remediation projects. His broad range of experience includes supporting property transactions, completing cleanups at active facilities and negotiating regulatory closure on behalf of site owners. He has completed projects involving due diligence, remedial investigation/feasibility studies and cleanups. He has represented clients at public hearings, and as an expert witness in cost recovery cases. He has managed projects involving complex hazardous waste issues. Steve has helped property owners and attorneys with property transactions by contributing to the development of purchase and sales agreements, restrictive covenants and indemnifications. He has provided consulting services to a broad range of clients in various industries, including electrical utilities, timber/wood product, petroleum, asphalt/construction, retail and real estate development.

WAYNE WRIGHT, PWS, Principal Wetland Scientist

M.S., Fisheries, University of Washington

B.S., Fisheries, University of Washington

Wayne has been a practicing environmental professional since 1983 and is a recognized regional expert regarding fisheries and wetland issues. Wayne's expertise has developed over his 20-year career and includes more than 1,500 completed projects. He has developed a strong skill set in habitat assessment, impact evaluation, restoration design and construction of habitat projects. He has participated on several very large stream and wetland habitat construction projects where he provided daily oversight and advice to the construction contractors. Wayne is an experienced program manager for Federal Contracts. Wayne was recently principal-in-charge for the three-time award winning Fleet and Industrial Supply Center Puget Sound, Manchester Fuel Depot project where GeoEngineers provided environmental and wetland services for the restoration of Beaver Creek, which was a key part to obtaining the awards. The project received the 2006 Chief of Naval Operations Environmental Award for Environmental Quality – Industrial Installation, the 2006 Secretary of the Navy Environmental Award for Environmental Quality – Industrial Installation, and the 2006 Secretary of Defense Environmental Award Honorable Mention.

