Proposal in Response to RFQ

Industrial Hygiene Consulting Services

Packet A

STATE OF WASHINGTON
DEPARTMENT OF TRANSPORTATION

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Scoring Criteria 1: Qualifications/Expertise of Firms on Team

PBS Engineering and Environmental, Inc. (PBS) provides professional consulting and project delivery services throughout the Northwest from our eight offices in Washington and Oregon. PBS offers a broad range of professional services with a staff of 270 professionals within the state of Washington (including the Greater Portland Metropolitan Area—67 in Vancouver and 98 in Portland) and 284 professionals company-wide specializing in the environmental, engineering, planning, and survey services shown in Figure 1 below. Our clients include municipal, state, and federal government agencies; K-12 and higher education institutions; manufacturing, energy and technology firms; private investors; and developers. We greatly value our clients and enjoy a high degree of repeat business.

Industrial Hygiene and Hazardous Materials Consulting Services

PBS has been providing the following industrial hygiene and hazardous materials monitoring, testing, and consulting services for 40 years.

**Key Hazardous Materials Services**

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<tr>
<th>Asbestos, Lead &amp; PCBs</th>
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<td>Outdoor Structural Surveys</td>
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<td>Operations &amp; Maintenance Programs</td>
<td>Web Hosted Data Management</td>
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**Training**

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<tr>
<th>OSHA Health &amp; Safety</th>
<th>Hazardous Materials Handling</th>
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<tr>
<td>Asbestos/Lead</td>
<td>Emergency Response</td>
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The work represented in the Washington State Department of Transportation (WSDOT) On-Call Industrial Hygiene Consulting Services contract is directly in line with PBS’s most mature service area. PBS has been performing industrial hygiene and hazardous materials management services since our inception in the early 1980’s. Our very best and most tenured staff work in these service areas. We have provided “one stop shop” services for many of the public and private clients we serve.

We are truly excited to support WSDOT projects. Our on-call contracts service record is impeccable and we will bring this to the performance of the contract. Our experience and our people set us apart.

**Figure 1: PBS core services.**

Servicing on-call industrial hygiene and hazardous materials consulting services contracts has been an integral part of PBS’ service history for over 40 years. PBS was conceived in 1982 in response to a need by the US Postal Service to have on-call industrial hygiene services be part of an aggressive facility evaluation and renovation program in the Northwest. That initial work has become our predominant service area. This early history established us in the region and provided the foundation to develop the necessary skills to provide responsive and invaluable service.
Assisting clients with employee health and safety is our specialty. Success with projects supporting federal and state agencies, schools, hospitals, airports, and private workforces punctuates our capabilities. Tackling a wide range of potential exposures involving all types of workplace contaminants in a supportive and accurate manner is our foundation.

PBS strives to provide the highest level of technical support while bringing an informed and insightful level of service to our clients. PBS understands that issues do arise regarding regulatory interpretation of industrial hygiene and hazardous materials compliance. In such instances, PBS consults with our clients to meet and exceed expectations and show our level of competency and professionalism in handling challenging compliance issues. Our primary goal is to assist our clients with maintaining the highest standards of workplace safety through informed technical support.

PBS holds multiple on-call contracts with various government agencies and we understand the nature of such work agreements. Typically there are reoccurring tasks that are prescheduled and planned. In addition service requests often arise out of need. Unplanned requests often result from worker safety or exposure issues, changes in facility uses, or due to property acquisitions. Regardless of the reason for an unplanned service request, they are often coupled with a tight response timeline. We pride ourselves in being in tune with our clients’ needs and then being able to handle both the planned and unplanned service requests.

Monitoring Services

PBS has a depth of experience performing a variety of monitoring services. These services include indoor air quality (IAQ) assessments, asbestos air and bulk testing, noise monitoring, and fit testing. These services are usually requested in response to individual/employee complaints or conditions that may impact an employee's safe and healthful work environment and often relate to required OSHA standards and practices. Once a request is received, PBS will discuss the issue in detail with the client, determine the potential discomfort, risk, or hazard, and then identify appropriate response measures which may include monitoring.

For example: A complaint is lodged by an employee stating that they often experience allergy-type symptoms when at work and that the symptoms worsen as duration at work increases. PBS would immediately respond to this notice by discussing the background of the project with the client. Next an informational interview would be scheduled with the affected employee to determine the parameters of the complaint. Following this interview, a thorough visual inspection would be performed of the work environment, including the HVAC system servicing the employee’s workspace. Monitoring devices capable of measuring a variety of parameters including temperature, relative humidity, carbon monoxide, and carbon dioxide levels would be deployed. Any evidence of water intrusion or visible fungal growth would indicate that fungal air monitoring may be warranted. This response would need to be performed quickly with results, findings, and recommendations communicated in a written report as soon as feasible. This type of response typically takes approximately a week to complete.

Other monitoring requests typically follow a similar pattern of information gathering from the client and affected parties, determining appropriate monitoring response, and then reporting findings complete with recommendations.

Team Organizational Chart

The following organizational chart of our proposed team includes respective roles and resources covering the entirety of Washington. This contract will be supported regionally by our offices in Seattle, Vancouver, and Richland for the northwest, southwest, and eastern regions, respectively. Subconsultant laboratories will support all regions.
Experience with Subconsultants

PBS intends to provide the entire requested scope of work with in-house staff, with laboratory services—which include all analyses related to respirable crystalline silica, lead, hexavalent chromium, air contaminants (WAC 296-841), and non-ionizing radiation—subcontracted to qualified laboratories. PBS will rely on long-term partners NVL Laboratories and ALS Environmental for the requested analytical services as outlined in the RFP.

Example Projects with Subconsultants

**NVL Laboratories | Seattle, Mountlake Terrace, and Seatac, Washington.**

NVL, with 35 staff in Washington and company-wide, provides laboratory analysis services including most ranges of industrial hygiene, biological, and bulk regulated material analytical methods. PBS has worked with NVL Labs since their inception as an offshoot of a local Seattle consulting firm. Partnering with them since the 1990’s on hazardous materials and industrial hygiene projects has forged a solid basis of service and quality lab support. NVL supports a large percentage of PBS’ industrial hygiene and hazardous materials projects, including lab services such as regulated metals (RCRA 8-11), hexavalent chromium, welding and solder fumes, fungal, PCBs, respirable dust, and more. Recent partnerships include:

- Boeing Co. – Various exposure assessment sample analysis – Lead, Air (NIOSH 782 FAA)
- Renton School District, Welding Program HASP – Welding Fumes (NIOSH 7300)
- Performance Abatement Svcs., UW Kincaid Hall Exposure Assmnt. – PCBs, Air (NIOSH 5503)
- UW Parking Lot Improvements, Exposure and Ambient Monitoring – silica Air (NIOSH 7500)

**ALS | Everett, Washington & Worldwide**

ALS, with approximately 100 staff in Washington, 500 staff nationally, and over 15,000 staff worldwide, is one of the most prominent analytical resources for industrial hygiene in operation. PBS uses ALS for our higher complexity and accuracy-driven laboratory analyses due to their reliability. Additionally, they provide expert input to address more complex contaminants and help tailor analytical work to target contaminants of all types. From VOCs, PCBs, Sulfites/Sulfates, and esoteric biological concerns, ALS bolsters the PBS with highest-level scientific support. PBS has relied on ALS for recent projects including:

- Kitsap Transit – Maintenance Shop Exposure Assmt. – Total VOCs, Air Analysis (EPA TO-17)
- Sky Valley Education Center PCB Remediation – PCBs, Air Analysis (EPA TO-10)
- Maltby Elementary School, Total VOCs, Air Analysis (EPA TO-15/ASTM D 5504)
- AvTech Tyee, Employee Exposure Monitoring - Epoxy Resins, Air Analysis (NIOSH 2540)

Key Staff Availability

The following table details the current availability of proposed key staff and resources.

<table>
<thead>
<tr>
<th>Key Team Member</th>
<th>Availability</th>
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<th>Availability</th>
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<tbody>
<tr>
<td>Tim Ogden, Principal, Sr. Project Manager</td>
<td>20 hours/month</td>
<td>Vince Eilertsen, Project Manager</td>
<td>40 hours/month</td>
</tr>
<tr>
<td>Doug Hancock, CIH, CSP, Certified Industrial Hygienist</td>
<td>20 hours/month</td>
<td>Kaitlin Soukup, Project Manager</td>
<td>60 hours/month</td>
</tr>
<tr>
<td>Kanani Patricio-Young, Sr. Project Manager</td>
<td>20 hours/month</td>
<td>Marli Heininger, Industrial Hygienist</td>
<td>60 hours/month</td>
</tr>
<tr>
<td>Allison Welch, CIH, Certified Industrial Hygienist</td>
<td>40 hours/month</td>
<td>Wendy West, Industrial Hygienist</td>
<td>60 hours/month</td>
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<tr>
<td>Joe Lucas, CIH, Certified Industrial Hygienist</td>
<td>40 hours/month</td>
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*Table 2: Key Staff availability*
Firm Project Experience

Aerial Photograph of the SR 520 Project

Graham Construction, SR 520 Montlake to Lake Washington I/C/Bridge | Seattle, Washington

Approximate Amount for Services Provided
$3,768,860.93 total contract to date ($338,400 for industrial hygiene and hazardous materials services)

Approximate Dates for Services Provided
2019-present

Relevant Services Provided

Washington State Route 520 (SR 520) is a 12.8-mile-long highway that connects Seattle with the cities east of Lake Washington. This critical roadway corridor carries tens of thousands of people every day, and businesses throughout the area depend on SR 520 to deliver and receive goods and services. WSDOT selected Graham Contracting as the prime for this important design-build project.

PBS’ services cover a wide range of health and safety support including predominantly noise monitoring for night work ordinance compliance, lead exposure assessments for steel work, methane monitoring related to historic landfill areas, screening of soils for contaminants, and general health and safety planning, training, and compliance monitoring.

Additional services include environmental support, temporary maintenance of traffic design, and utility relocation design for the team. Specific environmental services currently being provided by PBS include environmental protection training; environmental compliance plans, environmental compliance management, and inspection; UST removal closure assessment; permit preparation and support; delineation of environmentally sensitive areas; bird protection plan; and tree survey.
Lamb Weston, Industrial Hygiene Services | Various Locations, Washington and Oregon

Approximate Amount for Services Provided
$ 95,879

Approximate Dates for Services Provided
2004-present

Relevant Services Provided
Indoor Air Quality, Hazardous Materials Survey, Dust and Silica Sampling, Hexavalent, Chromium, and Carbon Monoxide Testing, Fungal Investigation, Abatement Oversight, Environmental Permitting

PBS has been providing Lamb Weston with a variety of industrial hygiene and hazardous materials services at various locations in Washington and Oregon since 2004. PBS has completed industrial hygiene projects in support of Lamb Weston’s health and safety program, consisting of workplace exposure assessments, indoor air quality monitoring, chemical hazard communication, and evaluation of engineering controls. PBS has provided compliance assistance with the various environmental regulations affecting their operations.

In addition to hazardous materials and industrial hygiene services, PBS has provided transportation and environmental engineering services for facilities and traffic projects in Hermiston and Richland.

Projects PBS has completed for Lamb Weston include:
- Boardman Plant Industrial Hygiene Services
- Columbia Basin Blends Industrial Hygiene Services
- Chlorine Dioxide Disinfection Safety Planning and Consulting
- Connell Digester Plant Consulting Services
- Connell Plant Industrial Hygiene Services
- Freeze Tunnels Asbestos Sampling
- Hermiston Site Limited Asbestos Sampling
- Pasco French Fry Plant Industrial Hygiene Services
- Richland Plant Chromium Monitoring
- Richland Plant TSI Sampling and Quantification
- Richland Scale House Fungal Assessment
- Richland Plant Asbestos Testing and Consulting
- Richland Plant Potato Storage Industrial Hygiene Services
PBS conducted a comprehensive asbestos assessment of the interior of the Fremont bridge, the assessment was performed following a warehouse fire beneath the bridge that release asbestos that potentially contaminated the interior spaces of the bridge which ODOT workers need to access. PBS reviewed all historical data, conducted, interviews, then developed a sampling plan and strategy to characterize the risk. PBS then collected surface dust samples and breathing zone air samples. After a report of findings was written, PBS then met with ODOT maintenance staff to present the findings and address any concerns.

PBS' support of ODOT during wildfire cleanups has been significant and involved sampling and analysis of burned buildings and bridges along transportation corridors. This effort included close collaboration with multiple governmental agencies, laboratories, and subcontractors.

Silica exposure has been an ongoing concern of ODOT due to road maintenance, PBS has worked closely with ODOT staff to assess work activities, machinery and potential exposure to ensure workers safety. The investigations include determining potential avenues of exposure, air sampling, reporting, then working with ODOT to find cost effective ways to improve worker safety.

Oregon Department of Transportation, Exposure Assessments, Health and Safety Plans, and Training | Various Locations, Oregon

PBS has supported the Oregon Department of Transportation (ODOT) in a variety of ways by providing comprehensive Industrial Hygiene (IH) consulting services for ongoing road and bridge maintenance. The services provided include sampling, analysis and reporting for exposure to regulated metals, asbestos, silica, and respirable dust. PBS also assisted ODOT with the assessment, response and cleanup of wildfire impacted transportation corridors. In addition to traditional IH consulting services, PBS provided a significant amount of asbestos and lead inspector training for out of state workers who assisted the state of Oregon with the wildfire cleanup.

Approximate Amount for Services Provided
$100,000

Approximate Dates for Services Provided
8/2020-present

Relevant Services Provided
Situation Assessment, Sampling Plans, Sample Collection and Analysis, Reporting, Health and Safety Training
Scoring Criteria 2: Qualifications of Proposed Project Managers

Proposed Project Managers

Tim Ogden
Principal, Sr. Project Manager

Douglas Hancock CIH
Certified Industrial Hygienist

Kanani Patricio-Young
Sr. Project Manager

All proposed project managers possess considerable technical/field experience as well as significant project management experience. PBS' approach to project management is one that is comprehensive and thoughtful of client needs and project requirements. Tim Ogden, Principal and Sr. Project Manager with over 30 years of experience with agencies and general contractors, will assist the other project managers by performing general contract review and administration. Additionally, Tim will see to it that the necessary staff is made available to cover the contract needs and ensure that deliverable schedules are met.

PBS project manager responsibilities for Industrial Hygiene services include the following:

- Initial client meetings
- Schedule development and management
- Establishment of sampling plans and field directives
- On-site coordination
- Correspondence/communication with client
- QA/QC of documents
- Maintaining continuity of team members
- Project scoping
- Staffing
- Technical review
- Review of field efforts
- Preparation of deliverables
- Field work participation
- Budget tracking and management

PBS' project managers have extensive experience with transportation projects. PBS has held on-call contracts with WSDOT, ODOT, Port of Seattle, Pierce County, Washington DES, Douglas County PUD, and numerous other public entities for industrial hygiene and hazardous materials management services. In addition to the task order work under the on-call contracts directly for transportation agencies, PBS has also performed work on numerous design-build transportation projects for WSDOT contractors. This work includes preparation of health and safety plans; materials management plans; noise monitoring; OSHA monitoring; hazardous materials surveys on structures to be demolished; contaminated soil investigations, sampling, and cleanup; transient camp inspections, assessments, and cleanup plans; and environmental compliance oversight during design and construction.

PBS' project managers all have intimate familiarity with relevant state and federal regulations and procedures. PBS staff regularly consults with the Department of Ecology and Washington State Department of Labor and Industries. PBS receives referral work from such agencies, punctuating our knowledge of the regulations and reputation as a company. PBS' regulatory knowledge is rooted in real field experience and the practicality necessary to get projects accomplished.

The resumes on the following pages detail each project manager’s prior experience with WSDOT or similar projects, their ability to manage project elements (schedule; scope of work and scope creep; budget issues; and changes that arise throughout the life of a project), and their licenses and/or accreditations.
Tim Ogden
Principal, Sr. Project Manager

Tim has successfully managed a wide variety of hazardous materials and industrial hygiene projects throughout his 30 years of experience with PBS, and has developed and is responsible for numerous long-term client relationships. His expertise includes services related to asbestos, lead, PCB, UST, indoor air quality, and numerous other contaminants. Integrating with owners and architects is Tim’s specialty, along with writing specifications and managing the abatement and construction processes. Whether in a prime role or as part of a team, Tim integrates with owners and architects to collaboratively develop and manage projects of varying sizes, and mediates and resolves any contractor/client disputes and conflicts that may arise. Construction and facilities management projects benefit from Tim’s architectural background, intimacy with building systems, and familiarity with the building/design process.

RELEVANT PROJECT EXPERIENCE

SR 520 Montlake to Lake Washington I/C/Bridge, Environmental Compliance, WSDOT, Seattle, Washington. Program manager responsible for coordination of on-site noise and lead exposure monitoring, and on-going COVID-19 screening and site compliance monitoring. Managed multiple site monitoring schedules including shut-down responses and surge staffing needs including multiple daily and weekend shifts. (2020-2022)

On-Call Hazardous Materials Consulting Services, Washington State Department of Enterprise Services, Washington. Project manager overseeing hazardous materials investigations, design document development, and construction period services for state-owned and managed facilities. Projects have included renovations of laboratory facilities and associated hazardous materials inventories, lab decommissioning, waste profiling, and inspection for residual contaminants. (1994-present)

Guy F. Atkinson, I-5 SB HOV Tacoma Project, Tacoma, Washington. Project manager overseeing hazardous materials services related to the replacement of multiple bridges, including “good faith” asbestos and lead inspection and monitoring of abatement activities, and training services. Coordination of inspection services during shut-downs, review of overpass abatement/demolition protocols, worker safety programs, and coordination with contracting teams. (2020-2021)

EXPERIENCE MANAGING PROJECT ELEMENTS

The following projects are examples of Tim’s ability to manage various project elements, including project schedule, scope of work and scope creep, budget issues, and changes and other issues that may arise throughout the life of a project.

Hazardous Materials Consulting, Pierce County Facilities, Tacoma, Washington. Primary point of contact for our on-call contracts supporting Pierce County with a wide range of hazardous materials and industrial hygiene efforts. Projects include multiple complaint-driven indoor air quality investigations involving sensitive populations (courts, attorneys, jails, etc.) and challenging source contaminants. Provides health and safety training to the entire Facilities staff. Facilitates timely and technically sound testing and monitoring efforts in support of both occupant and Facilities staff health and safety compliance.

On-Call Regulated Materials Management, Port of Seattle, Seattle, Washington. Primary point of contact for projects under PBS’ Port of Seattle on-call agreement. Manages inspection, abatement design, and monitoring projects in fully occupied and functioning airport environments. Regularly interacts with Port personnel, designers, and various stakeholders to ensure quality service and work product.
Douglas Hancock CIH, CSP
Certified Industrial Hygienist/Chemist, Certified Safety Professional

Douglas is one of PBS’ most technically diverse professionals and has an excellent grasp of occupational health and safety issues. He is a Certified Industrial Hygienist (CIH) and a Certified Safety Professional (CSP). Doug is highly experienced in air-quality investigations; water-quality studies; environmental soil and groundwater investigations and remediation; and asbestos and lead management. Doug has more than 30 years of experience dealing with the workplace environment including assessment and control of hazardous waste sites and working around radiological hazards. His knowledge of chemistry and toxicology is critical in supporting PBS’ Indoor Air Quality (IAQ) team in their studies of building systems, workplace environments, and manufacturing processes. His ability to assess the client’s needs, to develop a sound and cost-effective project approach, and to solicit technical support from engineering and architectural staff when appropriate, has established his as the primary contact for many of our clients.

PROJECT MANAGEMENT EXPERIENCE

CIH responsible for site assessment of transient-occupied areas for cleanup activities, preparation of a health and safety plan, and client and agency interface regarding risk. Additional services include health and safety training for construction personnel working in impacted areas. (2019)

Industrial Hygiene Services, Oregon Department of Transportation, Various, Oregon.
CIH responsible for sampling plan and personnel air monitoring for silica exposure throughout Oregon. Inventory and assess silica exposure risk for specific makes and models of equipment and categories of work. Assess central materials labs and quality control processes for effective silica dust reduction and exposure control. Includes reporting on sampling results and recommendations for corrective actions if/when the exposure levels are exceeded. (2021-present)

Hazardous Materials On-Call Contract, City of Portland, Portland, Oregon.
CIH responsible for ongoing support to the City of Portland for a variety of projects across the city including Radon Assessment, Indoor Air quality assessment, Chemical Exposure monitoring and assessment, Asbestos program Audit. (May 2017-present)

EXPERIENCE MANAGING PROJECT ELEMENTS

The following projects are examples of Douglas’s ability to manage various project elements, including project schedule, scope of work and scope creep, budget issues, and changes and other issues that may arise throughout the life of a project.

Joint Base Lewis McLeod, Tacoma, Washington. Tritium release control measures related to HVAC upgrades. CIH responsible for developing a safe work practices plan for contractor charged with removing HVAC equipment from a tritium contaminated work area.

CIH responsible for site assessment of transient-occupied areas for cleanup activities, preparation of a health and safety plan, and client and agency interface regarding risk. Additional services include health and safety training for construction personnel working in impacted areas.

EDUCATION

BS Chemistry, Portland State University

ACCREDITATION

Certified Industrial Hygienist, 2001
Certified Safety Professional, 2006
AHERA Building Inspector, 2021
40-hr HAZWOPER, 2022
NIOSH 582, 1989
COVID-19 Construction Monitor, 2020
Respirator Fit Test, 2021
Confined Space Awareness, 2018
Kanani Patrico-Young
Industrial Hygienist

Jaylicia “Kanani” Patricio-Young is a highly trained and certified environmental specialist with experience in hazardous materials survey, design, and abatement, air quality assessments, environmental site assessments, hazardous materials remediation design, safety training, and environmental consulting. She has 10 years of environmental experience in Hawaii, Idaho, Oregon, and Washington.

PROJECT MANAGEMENT EXPERIENCE

**Industrial Hygiene and Hazardous Materials Services, Lamb Weston, Various Locations, Washington and Oregon.** Industrial hygienist providing a variety of services at various locations in Washington and Oregon. Projects are in support of Lamb Weston’s health and safety program, consisting of workplace exposure assessments, indoor air quality monitoring, chemical hazard communication, and evaluation of engineering controls. Kanani provides compliance assistance with the various environmental regulations affecting their operations. (2020-present)

**Dworshak Dam Air Supply Systems, US Army Corps of Engineers, Ahsahka, Idaho.** Industrial hygienist conducting Grade D Breathing Air testing and IAQ assessment for Army Corps of Engineers. Testing was conducted to verify that the breathing air supply at the Dworshak Dam meets Compressed gas Association (CGA) Grade D Standards component maxima. The testing included measuring oxygen (O2), carbon dioxide (CO2), carbon monoxide (CO), water vapor, oil mist, and odor. (2020-2021)

**Hazardous Materials Services, Richland School District, Richland, Washington.** Managed and performed exposure monitoring for district custodial staff using cleaning products containing hydrogen peroxide and/or ethyl alcohol in conjunction with COVID 19 contamination response protocols and cleaning plans. Kanani also conducted indoor air quality assessments, airborne particulate sampling, and ventilation monitoring in response to occupant concerns about air quality and potential airborne exposures. (2021)

EXPERIENCE MANAGING PROJECT ELEMENTS

The following projects are exanokes or Kanani’s ability to manage various project elements, including project schedule, scope of work and scope creep, budget issues, and changes and other issues that may arise throughout the life of a project.

**Kahului Airport Baseyard Building Lead Air Monitoring, Kahului, Hawaii.** Kanani managed the lead air monitoring and exposure assessment during the lead-based paint removal at the Kahului Airport County Baseyard Building. She reviewed contractor workplan submittals, managed project scheduling, and coordinated field activities to ensure timely execution of area and exposure monitoring.

**Asbestos Fiber Release Response, City of Walla Walla, Walla Walla, Washington.** Kanani managed the air monitoring and exposure assessments for emergency asbestos fiber release episode at the City of Walla Walla Water Distribution Shop. She provided consulting services, managed project scheduling and quality control procedures, and coordinated field activities to ensure timely execution of asbestos fiber release decontamination and exposure monitoring.

**Old Malad HS Demolition, Alta Science and Engineering Inc., Malad City, Idaho.** Conducted hazardous materials survey and asbestos consulting services for planning of asbestos abatement design and specifications. Provided support in asbestos air monitoring and transmission electronic microscopy air sampling.

EDUCATION

BA Political Science, University of Hawaii
AAS Admin. of Justice, University of Hawaii

ACCREDITATION

AHERA Building Inspector, 2021
AHERA Management Planner, 2021
AHERA Project Designer, 2022
NIOSH 582, 2020
OSHA Construction Lead, 2020
EPA Lead Inspector, 2020
EPA Lead Risk Assessor, 2020
Confined Space Safety, 2021
40-hr HAZWOPER, 2021
Mold Remediation, 2021
OSHA Ionizing Radiation Hazards, 2021
Key Staff Qualifications
Our project managers are only as successful as the key support personnel they surround themselves with. PBS is presenting a team of key staff that will ensure success on this contract. Internal coordination and communication throughout the team is critical. PBS has constructed a team with successful on-call contract experience with multiple clients including WSDOT, WA State Department of Enterprise Services, and the University of Washington. Through this experience, each team member has developed an in-depth understanding of WSDOT and public agency regulations and procedures.

Roles and Responsibilities
With the guidance of PBS’ project managers, PBS envisions the following roles/responsibilities for the key team members:

Northwest Region
- Alison Welch, Certified Industrial Hygienist
  Regional project management and field support, team wide technical support
- Kaitlin Soukup, Project Manager/Industrial Hygienist
  Regional project management and field support

Southwest Region
- Joe Lucas, Certified Industrial Hygienist
  Regional project management and field support, team wide technical support
- Marli Heininger, Industrial Hygienist
  Regional project and field support

Eastern Region
- Vince Eilertson, Project Manager
  Regional project management and field support, team wide technical support
- Wendy West, Industrial Hygienist
  Regional project and field support

Understanding of WSDOT and/or Public Agency Regulations/Procedures
PBS has been serving public sector clients since our inception in 1982 working for the United States Postal Service. Since then, we’ve contracted with nearly every public agency in the Pacific Northwest and beyond requiring industrial hygiene and hazardous materials consulting support. These include Federal, State, and Local governmental agencies, K-12 and higher education institutions, military branches, law enforcement, correctional facilities, and many other public entities. Working so consistently in the public sector has provided our staff with insight into the constraints that the public sector places on consultants as well as the contracting agencies.

All of our staff have a keen understanding of the need for clarity and adherence to procedure within the public sector, especially when dealing with personnel exposures and workplace health and safety. The project examples provide on the following pages outline the experience each of our key staff members has with providing accurate, timely, and thorough adherence to protocol and equally importantly respectful interactions with employees and stakeholders at all times.
SCORING CRITERIA 3: KEY TEAM MEMBERS QUALIFICATIONS

NORTHWEST WASHINGTON

Allison Welch  CIH  
Certified Industrial Hygienist

Years of Experience: 8

Education: MS Public Health, Industrial Hygiene focus, University of South Florida, BS Biology, University of Central Florida

Certifications/Accreditations: Certified Industrial Hygienist, AHERA Building Inspector, Associate Safety Professional

Allison is a Certified Industrial Hygienist with eight years of experience supporting a variety of projects for public and private clients. Her areas of expertise include industrial ventilation, noise and hearing conservation, heat stress, indoor air quality, and chemical agents. She provides guidance on environmental, health, and safety matters, ensures regulatory compliance, provides project management and technical advice, conducts regular facilities, equipment, processes, and material use inspections and assessments, and recommends corrective and/or preventative measures. Her detailed eye and sound organizational skills enable her to handle complex projects requiring analysis of significant amounts of information.

RELEVANT PROJECT EXPERIENCE

SR 520 Montlake to Lake Washington I/C/Bridge, Environmental Compliance, Seattle, Washington. CIH that provided COVID compliance including PPE Hazard assessment to assess workplace hazards. Conducted general health screening for workers entering the site and monitored work practices to help aid in the reduction of COVID 19 on site. (2021)


Staff Industrial Hygienist, Boeing, Renton, Washington. Monitoring industrial processes and assembly line production for employee exposures to regulated metals, hexavalent chromium VOCs, vaporized oils, nuisance dust & particulate, confined space evaluations, qualitative fit testing. Coordinated with stakeholders to ensure timely monitoring efforts and applicability of test methods to work performed and durations of testing periods. (2021)

Kaitlin Soukup  Project Manager/Industrial Hygienist

Years of Experience: 7

Education: BS Occupational Health and Environmental Health Services, Purdue University

Certifications/Accreditations: AHERA Certified Building Inspector, OSHA 10-Hour General Industry Certification, E-Rail Safety Certification, NIOSH 582

Kaitlin is an industrial hygienist and project manager with a broad range of knowledge of industrial hygiene and hazardous materials concerns. She has performed a wide variety of surveys and abatement designs for public and private clients, including K-12, higher education, commercial, financial and private. She possesses excellent communication skills, and client service is always at the forefront of her project activities. She is thorough in her data collection and effectively translates information into reports, detailed designs, recommendations, and project communications. She pays close attention to issues that impact scope, schedule, and budget.

RELEVANT PROJECT EXPERIENCE


Exposure Assessments, Kitsap Transit, Kitsap County, Washington. Industrial hygienist. Completed VOC exposure assessments for two employees at the Bremerton Foot Ferry Dock. This was to document typical exposure of employees so that we could help to update Kitsap Transit’s respiratory protection plan. (2020-2021)

Industrial Hygiene Services, BNSF, Northwest Region, Washington. Supported industrial hygiene operations in the northwest region which included: chemical and physical evaluations of facilities, noise monitoring, air sampling (diesel particulate matter, silica, asbestos), conducting relevant client employee training, and maintaining industrial hygiene programs. (2015-2017)
Joe Lucas  
**Certified Industrial Hygienist**

- **Years of Experience:** 15
- **Education:** BS Environmental Health, Illinois State University
- **Certifications/Accreditations:** Certified Industrial Hygienist, 40-hr HAZWOPER, OSHA Confined Space Entry, AHERA Building Inspector, AHERA Project Designer, NIOSH 582, XRF Operator and Analyzer

Joe is a key member of PBS’ industrial hygiene staff. As a Certified Industrial Hygienist (CIH), Joe is experienced in air-quality investigations, as well as a multitude of large and small asbestos and lead based paint survey and abatement oversight projects. Joe’s 14 years of project experience includes roads, bridges, schools, universities, petroleum refineries, manufacturing facilities, research and development centers, power plants, nuclear waste sites, airports, high-rises, and occupied public facilities. His experience has proven invaluable in engineering, technical, preventive, monitoring, and control methods associated with hazardous materials in larger structures.

**RELEVANT PROJECT EXPERIENCE**

- **NuStar/Building 2565 Recladding Project, Port of Vancouver, Vancouver, Washington.** Project manager responsible for review of lead-safe work practices regarding demolition of buildings with lead paint. Waste stream characterization to determine proper disposal procedures for lead-containing building materials. (2021)

- **Port of Tacoma, Redside Construction, Tacoma, Washington.** Project manager responsible for development of respirable crystalline silica exposure control plan for the pile supplements and fender installation project. (2021)

- **Burnside Bridge Paint & Rehabilitation Project, City of Portland, Portland, Oregon.** Project manager responsible for developing site specific Health and Safety Plan (HASP) for the site, including human waste/biological hazards, and hazardous building materials assessment prior to building demolition. (2018)

Marli Heininger  
**Industrial Hygienist**

- **Years of Experience:** 5
- **Education:** BA Environmental Studies, University of California
- **Certifications/Accreditations:** 40-hr HAZWOPER, Certified lead Risk Assessor, AHERA Asbestos Inspector; NOISH 582, Registered Asbestos Analyst

Marli Heininger is an industrial hygienist in PBS’ Portland office. they graduated from University California, Santa Barbara’s Environmental Studies program with a bachelor’s degree focused on conservation and restoration. Their work experience is centered around health and safety including hazardous building materials survey, personnel exposure monitoring, IAQ assessments, chemical waste characterization in schools, and hazardous materials handling and transportation.

Prior to joining PBS, Marli worked as a Hazardous Waste technician at Metro’s Central transfer Station Household Hazardous Waste facility.

**RELEVANT PROJECT EXPERIENCE**

- **Industrial Hygiene Services, Oregon Department of Transportation, Various, Oregon.** Conducted Statewide Silica assessment for ODOT maintenance staff performing roadway repairs and improvements. Provide task specific assessments including usage of compressed air and dry brush activities to clean road surface cracks prior to repairs, specific to exposure potential to airborne Silica. Consulted ODOT Environmental staff to design and monitor activities, assisted in specifying proper PPE in support of worker protection. (May 2021-present)

- **RA Long High School, Longview School District, Longview, Washington.** School lab chemical cleanout and disposal. Inventory, characterize, and assist RA Long High School with scheduling disposal with local hazardous materials facilities as a small quantity generator. (2019-present)

Vince Eilertsen
Industrial Hygienist

Years of Experience: 27
Education: BS Occupational Health and Safety, Columbia Southern University (in progress)
Certifications/Accreditations: AHERA Building Inspector, NIOSH 582

Vince has a diverse background in industrial hygiene, safety sciences, and hazardous materials services. He has deep experience with air monitoring for a wide range of contaminants, has been responsible for ensuring compliance with local, state, and federal regulations, and helped develop industrial hygiene and personal protective equipment requirements and health and safety plans at hazardous materials cleanup sites.

RELEVANT PROJECT EXPERIENCE
Hanford Site Industrial Hygiene Supervisor, Washington River Protection Solutions, Richland, Washington. Supervisor responsible for reviewing work packages for industrial hygiene and safety concerns. Participated in pre-job safety briefings and planning sessions, the development and verification of industrial hygiene equipment procedures, and training of industrial hygiene staff. Directed and overseen the fieldwork of technicians on a day-to-day basis as part of the WRPS IH Programs Compliance Sampling Team. (2019-present)
Hanford Site Industrial Hygiene Technician, Multiple Clients, Richland, Washington. Technician responsible for industrial hygiene monitoring for various remediation projects across the Hanford site. Work included heat stress monitoring, combustible gas, oxygen, and toxic vapor monitoring during confined space entries and work involving breaching of hazardous systems and D&D activities. Collection of personal exposure samples and area/source sampling. Also conducted surface sampling for beryllium and other heavy metals. (2004-2019)

Wendy West
Industrial Hygienist

Years of Experience: 14
Education: BA Biology, Eastern Washington University
Certifications/Accreditations: AHERA Project Monitor, AHERA Contractor Supervisor, AHERA Building Inspector, AHERA Management Planner, OSHA Lead in Construction, EPA Lead Inspector, Confined Space Safety Trained, Confined Space Competent Person Certified, Aerial Boom Lift Certified, Fungal Investigation Training, Mold Remediation, Construction Silica Certified, 40-hr HAZWOPER

Wendy West is an industrial hygiene professional with more than 5 years’ experience doing ecological compliance surveys, assessing wildlife and habitat resources, conducting environmental compliance and natural resource management. She is knowledgeable in environmental sampling, characterization analysis, and asbestos and lead paint surveys.

RELEVANT PROJECT EXPERIENCE
SR 520 Montlake to Lake Washington I/C/Bridge, Environmental Compliance, Seattle, Washington. Environmental compliance inspector that provided COVID compliance including PPE Hazard assessment to assess workplace hazards. Conducted general health screening for workers entering the site and monitored work practices to help aid in the reduction of COVID 19 on site. (2021)
Energy Northwest, Industrial Hygiene Services, Richland, Washington. Industrial hygienist providing hazardous materials surveys, abatement oversight, asbestos air monitoring, and air clearances. (2021)
Lamb Weston, Industrial Hygiene and Hazardous Materials Services, Various Locations, Washington and Oregon. Industrial hygienist providing a variety of services at various locations in Washington and Oregon. Projects are in support of Lamb Weston’s health and safety program, consisting of workplace exposure assessments, indoor air quality monitoring, chemical hazard communication, and evaluation of engineering controls. Kanani provides compliance assistance with the various environmental regulations affecting their operations. (2022)
Date: May 23, 2022

Company Name: PBS Engineering and Environmental Inc.

Address: 214 E Galer Street, Suite 300

City / State / Zip: Seattle, Washington 98102

Subject: Proposed Labor Classifications and Hourly Billing Rates for Industrial Hygiene Consulting Services

Attention: Manager, Contract Services Office

Below are the highest anticipated hourly billing rates for the identified labor classifications.

<table>
<thead>
<tr>
<th>Labor Classification</th>
<th>All Inclusive Billing Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sr. Project Manager</td>
<td>$ 155.00</td>
</tr>
<tr>
<td>Certified Industrial Hygienist</td>
<td>$ 155.00</td>
</tr>
<tr>
<td>Project Manager</td>
<td>$ 125.00</td>
</tr>
<tr>
<td>Sr. Industrial Hygienist</td>
<td>$ 105.00</td>
</tr>
<tr>
<td>Industrial Hygienist</td>
<td>$ 90.00</td>
</tr>
<tr>
<td>Project Accountant</td>
<td>$ 90.00</td>
</tr>
<tr>
<td>Project Administrator</td>
<td>$ 80.00</td>
</tr>
<tr>
<td>CAD Support</td>
<td>$ 85.00</td>
</tr>
<tr>
<td>Administrative Support</td>
<td>$ 85.00</td>
</tr>
</tbody>
</table>

Note: Proposed Billing Rates, as submitted, shall be reviewed, accepted, and incorporated as an exhibit to the agreement. The Proposed Billing Rates shall be effective throughout the life of the agreement in accordance with the agreement payment provision.

Respectfully,

Signature

Title Principal, Sr. Project Manager

DOT Form 224-011
Revised 12/2018