

Statement of Qualifications

Environmental Services

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Corporate Office

235 Montgomery St, Suite 1105
San Francisco, CA 94104

Phone 415-883-7575

Fax 415-883-7475

Field Office

899 Arguello Street, Suite B

Redwood City, CA 94062

Phone 415-883-7575

Fax 415-883-7475

EnviroNova.com

INTRODUCTION

EnviroNova provides full service project management and technical capabilities in environmental site assessments, hazardous materials investigations, environmental planning and permitting, natural resources management, environmental engineering, and construction consulting services. With a record of more than 21-years serving many clients throughout the U.S. we have had extensive experience with planning and implementing a wide range of hazardous and solid waste management; site assessments for real estate transfers and development; site restoration, remedial design and construction; environmental engineering; air quality management; industrial hygiene; and regulatory compliance; asbestos, lead-based paint, hazardous material management, indoor air quality and mold, and industrial hygiene projects. As a full-service firm, we are equipped to handle all phases of operating facility projects, from initial evaluations and analyses, permitting, through the design and final phases of construction, and post-construction monitoring.

Operating facility projects require the integration of input from a broad range of scientific, environmental, and engineering disciplines. EnviroNova has developed an integrated approach to performing operating facility projects for clients ranging from local, state, and federal agencies to private entities in sampling, planning, designing, and construction of operating facility abatement solutions.

FIRM FOCUSED EXPERTISE

EnviroNova's long-term success has been built on a strong foundation in the operating facility services, environmental, and health and safety consulting fields. EnviroNova's comprehensive in-house capabilities are focused on giving our clients complete, practical, and cost-effective solutions to their operating facility needs. EnviroNova's hallmark is performance management resulting in long-term solutions that are technically, environmentally, and economically sound and satisfy the needs of our clients, regulators, and the public.

The sections below briefly describe EnviroNova's capabilities and experience as they relate to asbestos containing material management, lead-based paint management, hazardous material management, indoor air quality and mold, and industrial hygiene services.

EnviroNova is a leader in quick and cost-effective site characterizations and innovative remedial actions. EnviroNova has developed efficient, cost-effective scopes of work that meet regulatory requirements for a wide range of environmental projects throughout California. EnviroNova has the capacity and demonstrated experience to evaluate the most cost-effective approach to providing the necessary data to achieve client and regulatory objectives.

SCOPE OF WORK

Scopes of work are developed by first collecting and then evaluating previous investigations along with available literature, photos and maps. A work plan is then developed to document the scope and the ways in which it will achieve regulatory objectives while incorporating client requirements. Typical elements of a scope of work that are documented in the work plan include the overall objective of the project along with the specific objectives of each task, the specific technologies to be used, field procedures, sampling and analysis details, regulatory and/or client QA/QC requirements, health and safety requirements, access or property specific constraints, data quality objectives, data management objectives, data evaluation, reporting deliverables, project management requirements such as meeting schedules or administrative provisions, and overall schedule constraints.

Work plans for simple projects can be as short as a few pages. For complex projects, work plans may be lengthier, requiring formal documentation of standard operating procedures or other scope-specific approaches. EnviroNova work plans include creative, cost-cutting approaches that fulfill the objectives yet reduce schedule, cost, or both. Such approaches may include HydroPunch sampling instead of permanent wells, analyzing soil gas to optimize well locations, using geophysical techniques to minimize intrusive site investigation activities, using mobile labs, and using field screening techniques such as immunoassay. When the results of a first phase investigation indicate the need for additional data collection, EnviroNova can develop follow-up work plans efficiently through open communication with the client and the regulators to achieve the overall project objectives as quickly and cost-effectively as possible.

FIELD SAMPLING AND

The objective of a field sampling and analysis program is to collect comprehensive, representative, and accurate data necessary to perform a characterization task, whether a site inspection, a remedial investigation, data acquisition in support of a treatability study, or monitoring of trends or system performance. EnviroNova has performed sampling and analysis efforts at thousands of sites throughout the world, and routinely designs and conducts sampling programs for various environmental media including air, soil, sediment, surface water, groundwater, and biota.

EnviroNova considers two elements critical to the success of any sampling program: 1) defining the purpose and objectives of the sampling and analytical program, and 2) the method of sampling, sample shipping, custody, and the specific analytical method to be used. EnviroNova also recognizes the need to coordinate with our clients to ensure that field programs do not unnecessarily interfere with operations and to prevent or minimize disruptions to field activities.

SITE CLEARANCE

As part of all field work activities and in accordance with health and safety (H&S) policies, EnviroNova performs clearance of underground utilities using equipment and experienced crews. EnviroNova also performs screening of biological resources and historical and cultural resources, as appropriate.

SOIL, SEDIMENT, AND SOIL

EnviroNova has conducted numerous soil and sediment sampling programs to assess media properties and the nature and extent of contamination. Development of a cost-effective sampling program must consider

opportunities for incorporating innovative screening techniques such as soil gas sampling, direct-push sampling methodologies, and mobile laboratories to support sound decisions in the field.

GROUNDWATER

EnviroNova employs traditional groundwater characterization methods, while continually seeking opportunities to introduce innovations and improvements in sampling and characterization techniques. For example, HydroPunch sampling is a cost-effective technique that permits sampling without the expense of installing monitoring wells.

EnviroNova has employed HydroPunch sampling at a number of sites. In all cases where HydroPunch sampling is used, the objectives of the sampling were considered to ensure that the data would be of adequate quality for decision making. EnviroNova has designed and installed monitoring and production wells and has extensive experience with our drilling subcontractors in hydrogeologic environments throughout the Bay Area.

LABORATORY SERVICES

An efficient laboratory program is critical to the success of any field sampling and analysis program. Laboratory analyses must be accurate and results must be delivered on time and in accordance with data requirements. When selecting a laboratory, EnviroNova strongly considers a laboratory's past performance, particularly the laboratory's internal data validation and quality assurance procedures. EnviroNova conducts laboratory audits to ascertain the adequacy of these procedures to ensure that a laboratory can produce high-quality data on a routine basis. Following receipt of a laboratory data, EnviroNova performs data validation activities to confirm the laboratory's performance has met established goals and that the data are reliable.

DATA EVALUATION AND

The analysis and interpretation of site data are crucial to the accuracy of the site investigation results, risk assessments, the identification of remediation goals, and the effectiveness of the remedial design. While conventional analytical methods are generally adequate for a simple fuel or chemical spill, for more complex projects, EnviroNova can use advanced statistical analysis and computer modeling methods to predict and evaluate contaminant movement, exposure, health risks, and the effect of remedial systems.

SITE REMEDIATION

EnviroNova has performed a broad range of remedial actions from small USTs projects to large military bases, with a wide variety of contaminants. EnviroNova routinely uses innovative and creative technical approaches, as well as well-established technologies, to quickly and cost-effectively remediate sites and return them to productive use.

Remedial approaches are developed on a site-specific basis taking into consideration the current and individual land uses, action levels based on those uses, and the best and most economic remedial technologies. As such, each site remediation is unique. In all uses, the overall objective is to bring the site to case closure in as timely and economic a fashion as possible.

ASBESTOS CONTAINING

Building owners and managers are required to protect their employees and tenants from exposure to air-borne asbestos fibers, as mandated by OSHA and EPA regulations, issued under the National Emission Standards for Hazardous Air Pollutants (NESHAP); the Asbestos

Hazard Emergency Response Act (AHERA); Asbestos School Hazard Abatement Reauthorization Act (ASHARA); OSHA (General Industry and Construction Standards); and State and local ordinances. Current regulations require owners to determine locations of asbestos containing material (ACM) to evaluate the exposure risk to people who live or work in the building, to implement measures to minimize exposure risk, and to notify potentially effected individuals. When ACMs are identified, there are two options: in-place management, or removal. EPA regulations require removal only when renovation or demolition activities will create a potential for significant airborne releases of asbestos fibers. Conducting asbestos removal work in operating buildings can be complex, because occupants often choose to remain in the building as work progresses.

EnviroNova is a leader in asbestos management and has considerable experience in all facility settings. Our staff of EPA-AHERA certified building inspectors, management planners, designers, project managers, and industrial hygienists provide cost-effective asbestos management services for business, industry, government, medical, and educational institutions.

With years of experience and hundreds of projects, EnviroNova's well-developed standard procedures always ensure a professionally managed project, conducted in accordance with applicable rules and regulations. EnviroNova's asbestos management services include the following areas:

- Project scoping and programming
- Site planning and analysis
- Investigations of Existing Buildings and Development of Testing Programs
- Abatement design approach

PROJECT SCOPING AND PROGRAMMING

Before beginning abatement work, EnviroNova performs considerable scoping and programming efforts. These scoping efforts allowed EnviroNova to identify all the key elements of the project, significantly improving the schedule and cost estimates at the early stages of the project.

SITE PLANNING AND ANALYSIS

Site planning and analysis is a key part of many of our projects. EnviroNova develops the basic site use requirements and conceptual site layouts. This includes a listing of activities proposed to occur at the site on the basis of existing uses, ancillary facilities, and proposed future activities.

INVESTIGATIONS OF EXISTING BUILDINGS AND DEVELOPMENT OF TESTING PROGRAMS

EnviroNova personnel have been conducting hazardous materials investigations for over sixteen years. EnviroNova's inspectors are well versed in how to focus an inspection on suspect materials and structures to be impacted by renovation activities and programs. Building surveys include a review of available record drawings, specifications, and reports; review of the seismic scheme and preliminary plans for the specific project to identify impacted areas, materials, and components; detailed sampling of suspected asbestos containing building materials (ACBMs); analysis of bulk samples; and estimation of quantities of identified ACBMs. Our inspectors conduct discreet initial and verification surveys to support renovation projects in occupied buildings without alarming or putting occupants at risk. Often such surveys are conducted after normal working hours.

ABATEMENT DESIGN APPROACH

EnviroNova's consultation services go beyond conducting surveys and preparing reports. EnviroNova's asbestos staff has also been involved in estimating the cost of asbestos projects and preparing technical asbestos abatement plans and specifications for numerous clients in both the public and private sectors. EnviroNova's abatement designs are performed in strict adherence to applicable federal, state, and local regulations pertaining to environmental releases, employee exposures, and handling and disposal of ACBM and other hazardous wastes. EnviroNova has provided asbestos abatement design services for many clients, including Shorenstein Realty Service, USACE, CA DMV, UCSF, UC Berkeley, Cushman Wakefield, CAC Real Estate Management, DPR Construction, Fairfield Suisun Unified School District and others. Our approach to providing quality design services is described herein.

EnviroNova does not feel that removal is the only solution to ACBM problems because poorly performed removal operations may actually raise fiber levels in a building after project completion. In addition, removal and replacement of ACBM frequently has the highest initial cost of the alternatives. Therefore, in developing remedial action recommendations for a project, EnviroNova feels it is essential to confer with the client to assess these factors and adapt the plan to suit conditions and objectives for each building.

EnviroNova will select response actions based on a number of evaluating factors, including hazard assessment, initial cost and long-term costs, life of the facility, and planned construction or renovation activities. In each phase of the critical selection process, EnviroNova will make recommendations only after conferring with the client. Our

policy for asbestos investigation and design is to do it right the first time to avoid costly change orders.

Projects have ranged in size from small (<\$5,000) to large, multi-million dollar projects. Projects have also ranged in scope from initial surveys of small warehouse buildings to renovation and abatement of large office buildings. Successful technical design and performance is guaranteed by the continued involvement of the selected Project Manager throughout all phases of the project. This commitment will begin from the initial building inspection to final clearance of the project, ensuring that all technical and design requirements have been met successfully.

LEAD-BASED PAINT

EnviroNova has established program management capabilities for providing lead-based paint services. EnviroNova has lead-based paint inspectors, risk assessors, Certified Industrial Hygienists, and hazardous materials specialists who have successfully completed EPA and/or California Department of Health Services-accredited lead-based paint inspection and risk assessment courses. EnviroNova performs lead-based paint testing and risk assessment in accordance with the June, 1995 Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (U.S. Department of Housing and Urban Development). For non-residential work, EnviroNova uses a similar protocol to provide a high degree of confidence in testing method, results, and interpretation. Analysis is done by AIHA/ELLAP-accredited laboratories. EnviroNova includes lead testing in all pre-renovation and pre-demolition hazardous material investigations. The results are included in contract documents to alert contractors to OSHA compliance requirements and to eliminate the potential for lead-related construction change-orders. EnviroNova is highly experienced in preparing lead abatement, in-place management, and lead-impacted construction specifications that feature the most cost-effective methods for each case.

EnviroNova's standard hazard identification reports include testing that details locations, components, paint description and condition, lead content test results, and a summary, which highlights or prioritizes findings based on lead content, condition, accessibility, and other site-specific factors. EnviroNova provides inspection, risk assessment, training, in-place management, abatement design, and abatement oversight services for commercial, residential, and government buildings and steel structures. Our staff are state-certified, knowledgeable, and experienced in all phases of this work.

OTHER HAZARDOUS

EnviroNova typically incorporates hazardous material surveying into pre-renovation or demolition asbestos investigations for efficiency. EnviroNova has vast experience in conducting environmental audits

and inspections in buildings and normally considers materials such as PCBs (lighting ballasts, capacitors, and transformers), and mercury (fluorescent tubes), as well as other hazardous materials. Other materials, although less likely to be found in any significant quantity, are also possible construction interferences and can be handled by EnviroNova's inspection and abatement design staff.

PCBs

EnviroNova can identify (and specify) PCB containing ballasts by markings and service numbers. EnviroNova has experience in specifying PCB ballast identification, packaging, and disposal according to state requirements. We can also identify and mitigate PCBs and PCB contamination from transformers and other sources.

MERCURY

Under certain conditions and quantities, fluorescent tubes represent a possible hazardous material/waste problem, which can be readily handled through a recycling approach.

OTHER HAZARDOUS MATERIALS

EnviroNova's inspection team is highly qualified to detect, analyze, and evaluate any suspect hazardous material interference. Our company includes personnel experienced in investigating subsurface hazardous substance conditions, including the presence of underground storage tanks, soil, and ground water contamination. We are also experienced in developing mitigation plans and conducting air monitoring as necessary to protect workers, occupants, and the environment.

EHS PROGRAM

EnviroNova prepares a variety of comprehensive environmental safety and health programs directed toward protecting employees and the public from hazards, minimizing workers compensation and other liability claims, and complying with regulatory requirements and industry standards. We are experienced in developing, auditing, updating, and supporting environmental safety and health programs for clients in a variety of settings, including office buildings, oil and gas, mining, manufacturing, chemical, electronics, laboratories, distribution, retail, transportation, utilities, hospitals, and universities.

EnviroNova's industrial hygienists and safety professionals have the experience needed to identify, evaluate, and control occupational hazards. Using the results of comprehensive facility audits and specific job hazard analyses, we can help clients develop programs that include administrative controls, safety procedures, self-inspection and monitoring mechanisms, and incentive programs to achieve compliance and loss-control objectives. We develop strategies that

meet our client's needs in a manner consistent with their overall business goals, budget, and schedule.

With experience in the industrial, construction, and government sectors, we recognize that there are often administrative, behavioral, and cultural obstacles to workplace safety. For this reason, we emphasize that quantification of workplace hazards does not in itself satisfy a client's needs. At EnviroNova we strive to characterize hazards in terms that everyone can understand. Then we devise practical solutions and implement them through management consulting and training programs.

INDOOR AIR QUALITY

Alterations in building construction and operation practices over the past decades have all too frequently caused unintended adverse impacts on indoor air quality (IAQ). Unfortunately, only limited regulatory guidance exists for maintaining healthy breathing environments in commercial and institutional buildings and scientific advisory standards have been slow to emerge. Evolving OSHA rules could dramatically impact many building operations, even though many types of IAQ problems are poorly understood. This has left building owners and managers in the difficult position of relying on two major approaches to problem resolution: Identifying a competent IAQ expert, or settling potential claims in court. In either case, it is important to identify qualified experts to assist when needed. Indoor environmental quality problems are truly interdisciplinary, highly technical, and usually politically sensitive. Resolving IAQ problems and designing effective preventive strategies require an understanding of building design and construction, building heating, ventilation, and air conditioning (HVAC) systems performance, airflow patterns inside and outside of buildings, dynamic behavior of pollutants within and around a building, indoor microbiology, pollutant health effects, and social aspects of IAQ problems. EnviroNova provides comprehensive problem-solving by including experts in architecture, mechanical engineering, and industrial hygiene, and scientists with extensive experience in IAQ problem-solving. EnviroNova identifies the root causes of IAQ and HVAC problems in order to develop a set of "quick fix" corrective actions and a list of long-term approaches to restoring and maintaining a healthy indoor environment for building occupants. Resulting benefits include improved employee health and productivity, reduced maintenance costs, and extended building life-time. Indoor air quality services offered by EnviroNova include:

- Air pathway analysis
- HVAC system analysis
- Local ventilation flow patterns and building moisture analysis

INDUSTRIAL HYGIENE

- Fungi and bacterial sampling and analysis
- Precise and accurate chemical contaminant testing
- Decontamination plans and abatement monitoring
- New facility and renovation commissioning

OSHA and the EPA have promulgated a variety of regulations for industrial hygiene programs to protect the health of workers. Understanding and complying with these ever evolving rules can be a challenge for property owners, who need to be aware of potential threats posed by worker environments, technology or equipment usage, hazardous materials handling, and occupant safety, maintenance staff operations, and other regulated dangers. Aside from the need to ensure safety, property owners must also protect the corporate and public image of their facilities. In practice, these issues are often closely intertwined. The potential risks make it imperative for affected companies to implement comprehensive, well-documented industrial hygiene and health & safety programs, and to guard against hazards that might endanger employee health, morale, or productivity. EnviroNova offers the expertise of a team of industrial hygiene and occupational health and safety consultants and technicians who routinely develop and implement thorough, cost-effective programs that meet all OSHA, EPA, and related regulations. EnviroNova's operating facilities professionals can assess worker exposures to physical agents, including noise, ionizing and non-ionizing radiation, and heat stress, as well as threats posed by airborne chemical contaminants, asbestos, lead-based paint, and indoor air quality problems.

EnviroNova's industrial hygiene and health & safety specialists strive to stay at the forefront of regulatory and technical developments, enabling them to define client compliance needs and recommend cost effective remedies and training programs to meet site-specific requirements. Industrial hygiene and occupational health & safety services offered by EnviroNova's include:

- Industrial health and safety compliance assessments
- Health risk assessments
- Workplace air monitoring surveys
- Ventilation system performance testing and evaluations
- Corrective action design and implementation management
- Development of laboratory chemical hygiene plans
- Development of emergency response plans

KEY SUPPORT CAPABILITIES

- Health & safety program development and training.

EnviroNova has additional capabilities that enhance the technical specialties required for operating facility projects. These capabilities include project management expertise, quality assurance/quality control, health and safety training

PROJECT MANAGEMENT

EnviroNova's has broad experience in managing operating facility, engineering, and environmental projects throughout the United States. The firm is experienced in mobilizing teams of selected professionals to conduct multiple tasks simultaneously and has successfully managed projects ranging from small studies to large, multidisciplinary design and construction projects requiring multiple subcontractors.

The goal of EnviroNova's project management system is to provide quality service that is responsive to the client's needs, on time, and within budget.

QUALITY ASSURANCE/QUALITY CONTROL

EnviroNova performs engineering and environmental tasks under a rigorous Quality Assurance/Quality Control (QA/QC) program. This program has been established to provide thorough, consistent, high quality technical work on our projects. The overall objectives of the QA/QC program are to develop, implement, and document procedures for obtaining and evaluating project data and design calculations. To that end, project-specific QA procedures are developed as needed for all projects, and formal technical reports are reviewed by the sponsoring senior technical professional in the project, the Project Manager, and a technical peer reviewer.

