

ENVIROCHECK, INC.

Asbestos Testing ♦ Lead Testing ♦ Microbial Testing ♦ Management ♦ Analysis ♦ Environmental Assessment

Dear Valued Customer,

ENVIROCHECK, INC. is a multi-faceted, fully accredited laboratory and consulting firm offering its services to you worldwide since 1998. We provide a wide range of professional services that are in compliance with Federal and State regulations including the testing for asbestos, lead-based paint, microbiological contaminants (mold/bacteria), radon, as well as, project management, project design, environmental site assessments, training programs, and many other services. Envirocheck maintains a detailed quality control program so you can be assured quality results. Understanding that your time is precious, we sustain a detailed business plan to keep your projects fully staffed for a successful turn around time. We realize that we are in the protection business, protecting against potential legal liability, occupational safety issues, occupants' health concerns, and of course, our environment.

Our clients have found it important that we have earned an outstanding reputation in the environmental consulting and laboratory service industry. Our positive and helpful attitude is only outweighed by our unquestionable integrity, reliability, and dedication, which defines the culture here at Envirocheck. We strive to make your experience as pleasant as possible while earning your trust.

To stay on the cutting edge, we maintain an in-house research and development team. We promote education and training for all of our technical staff to give you the best liability protection in the industry. Our technical staff members hold multiple certifications, which means there is less need for multiple consultants, or multiple appointments, saving you time and money.

Envirocheck is so committed to customer service that we will guarantee it. Our Service Level Guarantees (SLGs) set us apart from the rest, because we tailor our service levels to meet your specific needs. In this day and age, customer service is sometimes forgotten, but here at Envirocheck we believe that customer service is the most important part of any business relationship. I can personally assure you that your choice to use us is the right one. We look forward to nurturing your relationship.

John A. Meador
President/CEO
Envirocheck, Incorporated

Testing and Consulting Services

ASBESTOS

1. Visual Inspections
2. Limited Inspections
3. Comprehensive Inspections
4. Project Management, Monitoring and Design
5. Procedure 5 (AQMD Rule 1403)
6. Clearance

LEAD

1. Risk Assessments / Water, Dust and Soil Sampling
2. Lead Screen Transactions (Title 10 / **REAL-ESTATE TRANSACTIONS**)
3. Lead Based Paint Inspection / HUD Inspections
4. X-Ray Fluorescence (Portable XRF Testing)
5. Lead Project Management, Monitoring and Design
6. Final Clearance Sampling

MICROBIAL (MOLD-INDOOR AIR QUALITY)

1. Visual Investigations
2. Source Identifications
3. Bulk and Air Sampling and Analysis
4. Project / Abatement Design
5. Clearance Testing

INDUSTRIAL HYGIENE

1. Gas Detection
2. Exposure Assessments
3. Chemicals
4. Metals
5. Project Design and Oversight
6. Audits for Compliance

RADON

1. Comprehensive Radon Surveys (REAL-ESTATE TRANSACTIONS)
2. Risk Assessments
3. Abatement Design

ENVIRONMENTAL SITE ASSESSMENTS

1. Phase 1 Site Assessments (BANK TRANSACTIONS)
2. Partial Phase 1 Site Assessments
3. Historical Aerial Reviews
4. Title Searches

ALLERGENS

1. Cat Dander
2. Dog Dander
3. Cockroach Dander
4. Dust Mites
5. Mouse/Rat

INDOOR AIR QUALITY

1. CO2 & CO Monitoring
2. Odor Detection
3. Vapor/Gas Detection
4. Ventilation Rate Assessment (Heating, Ventilation, and Air Conditioning Systems) HVAC

LABORATORY SERVICES

ASBESTOS

1. Phase Contrast Microscope (PCM) Air Sample Analysis
2. Polarized Light Microscopy (PLM) Bulk Sample Analysis
3. Transmission Electron Microscopy (TEM) Air and Bulk Sample Services

LEAD

1. Atomic Absorption Spectrometry (AAS) Bulk, Wipes, and Air Services
2. X-Ray Fluorescence (XRF) Portable Analysis
3. Total Threshold Lead Content (STLC)(TTLC)(TCLP) Profiling Services

MICROBIAL

1. Fungal/Mold Specimen Analysis
2. Viable Microbiological Analysis
3. Non-Viable Microbiological Analysis
4. Air-Quality Analysis (fungus/mold)
5. Bacterial Specimen Analysis
6. Bacteria Sewage Screen
7. Pollen and Bio-aerosol Specimen Analysis
8. On-site Clearance Testing / Moisture Content Testing

ALLERGENS

1. Cat Dander
2. Dog Dander
3. Cockroach Dander
4. Dust Mites
5. Mouse/Rat

SERVICES

ASBESTOS

Asbestos in buildings has been a major concern among insurance carriers, residents, building owner, property managers, tenants, and employees for decades. This seemingly harmless yet often invisible airborne material can pose serious health and liability risks with warning. **ENVIROCHECK, INC.**, with over 20 years of combined consulting experience, is an unparalleled leader in aiding consumers and industry in determining the exact nature of risk involved with asbestos-containing materials present in their structures.

ENVIROCHECK, INC. has developed a staff of State Certified Asbestos Consultants and Site Surveillance Technicians who have completed countless projects in government, educational, military, healthcare, commercial, industrial and residential facilities. Surveys and support includes:

- Inspection of areas with suspect asbestos-containing building materials.
- Bulk sampling for materials with asbestos content.
- Air sampling for airborne fibers using the appropriate analytical procedures. Onsite sample analysis to ensure quick re-occupancy when company downtime affects productivity.
- Identification, quantification, and risk analysis of all ACMs and associated hazards and exposure.
- Recommendations for controlling asbestos hazards, including operations and maintenance programs for material left in place or abatement project management.

Whether your concern involves a high-rise structure, industrial facility, a commercial building or a home residence, **ENVIROCHECK, INC.** is committed to providing reliable, immediate, and affordable solutions to all asbestos hazards.

SERVICES

LEAD

As early as 1897, lead-based paint was identified as one cause of lead poisoning (Turner, 1897; Reich, 1992). Many countries prohibited the use of lead in residential paints as far back as 1922 (Rabin, 1989). Lead was a major ingredient in most interior and exterior oil house paints prior to 1950, with some paints containing as much as 50% lead by dry weight. In the early 1950s, other ingredients became more popular, but some lead pigments, corrosion inhibitors, and drying agents were still used. Lead was first regulated in residential paint in 1972 at 0.5 percent and “banned” in 1978, meaning that paint could contain no more than 0.06% lead by dry weight (Reich, 1992; Rabin, 1989).

- **Lead in Surface Dust** - The most common cause of lead poisoning is the ingestion, through hand-to-mouth transmission, of lead-contaminated surface dust (Clark, 1991; Bellinger, 1991; Roberts, 1991; Chisolm, 1985; Farfel, 1990; Farfel, 1994). Lead contaminated dust may be so fine that it cannot be seen by the naked eye. In addition, the lead-contaminated dust is difficult to clean up. Leaded dust is generated as lead-based paint deteriorates over time, is damaged by moisture, abraded on friction and impact surfaces, or disturbed in the course of renovation, repair, or abatement projects.
- **Lead in Soil** – High levels of lead in soil typically come from deteriorating exterior lead-based paint around the foundation of a house (TerHerr, 1974; Linton, 1980). The fall out of lead emissions from combustion of leaded automobile gasoline, lead-based paint, and industrial sources also contributes to lead levels in soil (ATSDR, 1988).
- **Other Sources of Lead Hazards** – Other sources of lead poisoning can include drinking water, point sources (such as smelters or industrial discharges), ceramics, lead brought home from work, cosmetics, and hobbies (such as loading ammunition or making stained glass windows).

Lead exposure has been deemed a cause for cancer, damage to the brain, liver, kidneys, and reproductive and nervous systems, premature birth, and low birth weight. According to the EPA, children are in the highest risk group due to their size, suffering such symptoms as learning disabilities, impaired motor skills, and hyperactivity.

ENVIROCHECK, INC. is capable of meeting immediate multi-residential, commercial, school, and industrial needs when lead exposure risk becomes a critical issue of concern.

Lead in the home, school, or workplace environment can cause fatal consequences. **ENVIROCHECK, INC.** is a professional and trustworthy source to provide thorough surveys, sound guidance, and elimination of further hazard.

SERVICES

MICROBIAL (MOLD, BACTERIA, & INDOOR AIR QUALITY)

Mold and fungi spores are one of the leading causes associated with health related problems of homeowners, tenants, employees and the general public. These health problems may include allergic reactions, severe flu-like symptoms, disease, chronic fatigue, and respiratory problems. This seemingly harmless yet often invisible airborne material can pose serious health and liability risks without warning. **ENVIROCHECK, INC.**, with over 20 years of combined consulting experience, is an unparalleled leader in aiding consumers and industry in determining the exact nature of risk involved with mold and fungi present in their structures.

Microbial evaluation begins with a preliminary on-site investigation of the property. Interviews are conducted with occupants and visual assessments are made to determine the source of the problem. The environment is then sampled as necessary and may include air and/or bulk samples to determine for the presence and type of microbial contamination.

- Our professional and experienced staff offers the latest scientific and technological methods for identifying microbiological contamination.
- Preventative Building Evaluations will limit the health risks and owner liability associated with 'Sick Building Syndrome'.
- By having an in-house microbiological laboratory, we are a sensible resource for your cost effectiveness and efficiency.
- Our swift emergency response time will help give you peace of mind.
- **ENVIROCHECK, INC.** provides source identification, mitigation options, and comprehensive assessments and management for all your indoor air quality needs.

SERVICES

RADON

ENVIROCHECK, INC. provides a full analytical service to determine the presence of radon gas. Recent findings show that radon gas can pose serious health risks to occupants. If radon is found to be above the action level, we will provide long-term mitigation of this hazard.

ALLERGEN SCREENS

Millions of Americans are affected by allergies, which are considered one of the leading causes of chronic disease in the United States. Each year allergy and asthma related illnesses account for millions of missed school days, doctor office visits, hospitalizations and even thousands of related deaths. The most common sources of indoor allergens are dust mites, domestic pets and cockroaches, which can trigger allergic relations and diseases such as eczema, hay fever, eye, skin, sinus and lung inflammation, middle ear infections, and occupational and allergic asthma.

ENVIROCHECK, INC. indoor allergen screens involve an occupant interview, property inspection and sample collection in areas where occupants may be at greatest risk for exposure. Using a vacuum and dust cassette, one teaspoon (150mg) of dust is collected from a minimum of three locations in each suspect area. The collected samples are refrigerated and submitted to a qualified laboratory for analysis. Interpreted laboratory results, findings and recommendations are provided in a bound report with follow-up consultation.

The purpose of an **ENVIROCHECK, INC.** allergen screen is to identify and abnormal presence of indoor allergens, to provide specific information that may be used for allergy or immunological treatment and to provide custom recommendations for allergen mitigation and reducing occupant exposure. Allergen screens provide significant benefits to property owners, business owners, government municipalities, schools and families as they can reduce the risk of allergic reaction, disease, health complications, decrease absenteeism and increase performance.

SERVICES

PHASE 1

The Phase One Site Assessment is a comprehensive investigation on one or more subject properties depicting past and present activities relating to environmental contamination of the property in question. Many banking institutions require a preliminary site survey investigation to limit their liability when loaning money for the purchase of commercial and industrial properties. **ENVIROCHECK, INC.** ensures quality and accuracy with direct investigations by EPA Registered Environmental Assessors.

Our Phase 1 Investigations involve a search of government records, title search (upon request), a historical aerial photo review, and an on-site investigation to identify suspect hazards and potential hazard migrations.

LABORATORY DESCRIPTION

Asbestos –

The national Voluntary Laboratory Accreditation Program (NVLAP) accredits the asbestos laboratory. This program accredits testing and calibration laboratories for bulk asbestos analysis. NVLAP exercises ISO/IEC 17025 as the foundation for the accreditation of testing and calibration laboratories. Care was taken during the drafting of ISO/IEC 17025 to incorporate all those requirements of ISO 9001 and ISO 9002 that are relevant to the scope of testing and calibration services that are covered by a laboratory's quality system. Testing and calibration laboratories that fulfill with the requirements of this handbook will also operate in accordance with ISO 9001 or ISO 9002. NVLAP has entered into shared recognition arrangements with equivalent accreditation bodies that comply with ISO/IEC Guide 58 and applicable regional documents. The use of this handbook will encourage cooperation between laboratories and other bodies, and assist in the exchange of information and experience and in harmonization of standards and procedures.

Microbiological-

The laboratory is currently accredited by the AIHA for the analysis of fungi by culture and direct examination. The American Industrial Hygiene Association establishes and maintains the highest possible standards of performance for laboratories analyzing samples to support the evaluation of occupational and environmental exposure to hazardous agents. Laboratories that comply with the requirements of the International Organization for Standardization (ISO) policy ISO/IEC 17025 incorporates those requirements of ISO 9001 and ISO 9002 that are relevant to the scope of testing services addressed by the laboratory. This encourages the laboratory seeking accreditation to operate a laboratory in which well-qualified personnel using appropriate equipment and methods perform sampling and testing procedures with adequate controls. High standards of practice shall be encouraged and maintained through conformance with established accreditation criteria, education, and proficiency testing and onsite assessments.

Lead Based Paint-

Lead based paint is commonly found in homes built before 1978. Under Section 302 of the Lead-Based Paint Poisoning Prevention Act, as amended, Public Housing Authorities (PHA's) are required to inspect randomly all their housing projects for lead-based paint. The preferred method for measuring the quantity of lead in a painted surface is the portable **X-Ray Fluorescence (XRF) "Spectrum Analyzer"**, which is accurate, relatively inexpensive, gives rapid results and is non-destructive. The EPA (Environmental Protection Agency) has considered the XRF to be the best available technology of this type and it was used in the Housing and Urban Developments (HUD) national survey of lead paint in public and Indian housing. **ENVIROCHECK, INC.** is fully equipped to analyze all your lead-based samples with our **XRF "Spectrum Analyzer"**.

PERSONNEL

John Meador

President / CEO

CERTIFICATIONS

- State of California Environmental Protection Agency Registered Environmental Assessor
- State of California Department of Occupational Safety and Health Certified Asbestos Consultant
- State of California Department of Health Services Building Inspector/Assessor
- State of California Department of Health Services Project Manager
- State of California Department of Health Services Project Designer
- State of California Department of Health Services Radiology Board Certified
- Environmental Protection Agency AHERA Building Inspector
- Environmental Protection Agency AHERA Supervisor
- Environmental Protection Agency AHERA Project Designer
- Environmental Protection Agency AHERA Management Planner
- Industrial Hygienist
- Member of the American Indoor Air Quality Council

CAREER SUMMARY

I have a diverse background in the environmental consulting industry since 1990. I have performed and managed over ten thousand environmental consulting projects. My experience includes the design, performance and management of microbiological, lead-based paint, asbestos, phase one site assessments, radon, and many other environmental projects. I have been involved with the instruction and lecture on health effects, abatement, worker safety, investigation and awareness for asbestos, lead, and microbiological concerns since 1990. I have eight years of experience in computer science and software engineering, including the development of several custom software packages utilized in the environmental industry.

PERSONNEL

Vinh Q. Pham

Vice President of Operations

EDUCATION

- Bachelor of Science, Degree in Applied Ecology
University of California, Irvine 1999
- Occupational Safety and Health, Professional Certificate Program,
UC Irvine Extension
- Continuing Education Course (references provided upon request)

CERTIFICATIONS & MEMBERSHIPS

- Certified Indoor Air Quality Consultant (CIAQC), American Indoor Air Quality Council
- Certified Microbial Consultant (CMC), American Indoor Air Quality Council
- Certified Indoor Environmentalist (CIE) #01676, Indoor Air Quality Association
- Certified Asbestos Consultant (CAC) #03-3356, State of California, Division of Occupational Safety and Health
- Certified Water Damage Restoration Technician, Institute of Inspection, Cleaning, and Restoration Certification, I.I.C.R.C. #72811
- EPA Building Inspector
- EPA Contractor Supervisor
- Member of the American Indoor Air Quality Council (AmIAQ)
- Member of the Indoor Air Quality Association (IAQA)

CAREER SUMMARY

Extensive hands on field and consulting experience in various environmental disciplines including but not limited to mold investigations, asbestos surveys, indoor air quality investigations, etc. Involved in numerous residential and commercial projects. Developed mold and microbial division and field consultant personnel. Provided full technical and field training internally and externally. Substantial deposition, expert witness, and litigation support experience in both defendant and plaintiff suits; testified and qualified as an expert at jury trial. Strong proficiency in consulting and risk management of high profile cases and lawsuits involving mold related claims, construction defects, and torts.

PROFESSIONAL EXPERIENCE

ENVIROCHECK, INC., Garden Grove, CA

1998 – Present

Vice President of Operations / Senior Environmental Consultant

- Oversight and advisor of daily operations for all field staff and administrative personnel.
- Person mold knowledgeable (PMK) and primary representative for trial, depositions and expert witness with experience in bad faith, construction defect lawsuits, torts, real estate, negligence, and etc.
- Daily field experience in environmental consulting and field sampling in mold, microbial, indoor air quality investigations, asbestos, and etc.
- Author and primary lecturer of mold presentations, seminars, speaking engagements, and training courses, for entities such as real estate groups, property management companies, insurance companies, school districts (Irvine Unified School District, Department of Maintenance and Operations), and etc.

PERSONNEL

Vanc Thomas

Laboratory Director and Manager

EDUCATION

- B.S. Geology
- University of California, Los Angeles 1983

CERTIFICATIONS

- Advanced Asbestos Identification
McCrone Research Institute (1990)
- Microscopical Identification of Asbestos
McCrone Research Institute (1989)
- Sampling and Evaluating Airborne Asbestos Dust (NIOSH #582)
McCrone Research Institute (1989)

CAREER SUMMARY

-Laboratory Technician III (*ARMTEC Defense Products Co.*)

- Lead technician on third shift
- Responsible for analyzing raw material and production batches by chemical and physical methods
- Responsible for data quality control
- Developed moisture determination test using a DL-18 Karl Fisher Titrator

-Laboratory Assistant (*Chino Basin Municipal Water District*)

- Conducted chemical test on domestic and industrial water to determine BOD, COD acidity, alkalinity, hardness, nitrogen, solids and volatile acids
- Analyzed water samples for metals by Atomic Absorption

-Laboratory Assistant II (*Scripps Institute, Oceanographic Research Division*)

- Worked on earthquake prediction project
- Monitored wells
- Conducted test of water samples for radon and helium, using mass spectrography and scintillation counters

PROFESSIONAL EXPERIENCE

- **ENVIROCHECK, INC.**, Garden Grove, CA 1998-Present
- Laboratory Director and Manager
 - Control all laboratory operations and personnel
 - Analyzed air and bulk samples for the presence of asbestos using PCM and PLM.
 - Maintain laboratory quality control program: NVLAP (National Voluntary Laboratory Accreditation Program)
- **Natec International, Inc.** 1989-1999
 - Controlled all laboratory operations and personnel
 - Analyzed air and bulk samples for the presence of asbestos using PCM and PLM.
 - Maintained all laboratory quality control programs:
 - NVLAP (National Voluntary Laboratory Accreditation Program)
 - AAR (Asbestos Analyst Registry)
 - PAT (Proficiency Analytical Testing Program)
 - ELAB (California Department of Health Services)

PERSONNEL

M.V. Bhaskara Reddy, Ph.D.

Microbiology Laboratory Manager

EDUCATION

- Ph.D. (Mycology/Microbiology) 1985-1989 University of Mysore (India)
Thesis: Identification and control of the fungus *S.graminocola* on millet, and assessment of residual, mammalian toxicity of the chemical used to control the fungus.
- M. Phil. (Postharvest Mycology/Microbiology/Mycotoxigenology), 1983-1985, University of Mysore
Thesis: Identification of indoor fungi and bacteria growing on stored seed material and their control.
- M. Sc. (Mycology/Pathology), 1981-1983, University of Mysore
- B. Sc. (Biological Sciences and chemistry), 1977-1980, Andhra University (India)

SCHOLARSHIPS and AWARDS

- Post-Doctoral Associate (NSERC, Government of Canada)
- Merit Scholarship for pursuing Ph.D. (Council of Scientific and Industrial Research, Govt. of India)
- Special assistance scholarship for pursuing M. Phil. (University Grants Commission, Govt. of India)

AFFILIATIONS

- American Society of Horticultural Science
- American Phytopathological Society

PUBLICATIONS

- Reddy, M.V.B., Norelli, J.L. and Aldwinckle, H.S. 2000. Compatibility of biological control and induced systemic acquired resistance (SAR) for integrated control of fire blight of apple. *Phytopathology* 90:S64
- Mercier, J., Baka.M., Reddy.B., Corcuff.R and Arul.J 2000. Short-wave ultraviolet irradiation for control of decay caused by *Botrytis cinerea* in bell pepper: induced resistance and germicidal effect. *J. Amer. Soc. Hort. Sci.* (in press).
- Norelli, J.L., Borejsza-Wysocka, E.E., Reddy, M.V.B. and Ko, K. 2000. Evaluation and inheritance of resistance of fire blight (*Erwinia amylovora*) of lytic protein transgenic Royal Gala apple.

Phytopathology 90:S56.

- Reddy, M.V.B., Belkacemi.K, Castaigne.F. and Arul.J 2000. Effect of preharvest chitosan sprays on postharvest infection of strawberries by *B.cinerea* and fruit quality. Post-harvest Biology and Technology 20:39-51
- Reddy, M.V.B., Arul, J., Angers, P. and Castaigne, F. 2000. Mechanisms of antifungal action of chitosan in postharvest tomato, *Alternaria* interaction inhibiting the progress of black mold. Journal of the American Society of Horticultural Science 125: 742-747.
- Reddy, M.V.B., Arul, J., Barka, A., Richard, C., Angers P. and Castaigne, F. 1998. Effect of chitosan on toxin production by *A.alternata* fsp. *Lycopersici*. Biocontrol Science and Technology 8:33-43.
- Reddy, M.V.B., Angers, P., Gosselin, A. and Arul, J. 1998. Characterization and use of essential oil from *Thymus vulgaris* against *Botrytis cinerea* and *Rhizopus stolonifer* in Strawberry fruit. Phytochemistry 47: 1515-1520.
- Reddy, M.V.B, Raghavan, G.S.V., Kushalappa, A.C. and Paulitz, T. 1998. Effect of microwave treatment on seed borne *Gibberella zeae* (=F *graminearum*) in wheat and seed quality. J. Agricultural Engineering 71: 113-117.
- Reddy, M.V.B., Arul.J., Angers.P and Couture. L. 1998. Chitosan treatment of wheat seeds induces resistance of *Fusarium graminearum* and improves seed quality. Journal of Agricultural and Food Chemistry. 47: 1208-1216.
- Reddy, M.V.B., Atlin, G. and Paulitz, T. 1996. Response of white lupine cultivars to *Phoma* sp., and *Colletotrichum gloeosporioides*. Canadian Journal of Plant Pathology. 18:272-278.
- Reddy, M.V.B., Shetty, H.S. and Reddy, M.S. 1996. Residue free treatment of metalaxyl for effective control of pearl millet downy mildew. Discovery and innovation, 8: (1) 53-57.
- Reddy, M.V.B., Kushalappa. A.C., Raghavan, G.S.V. and Stephenson, M.M.P. 1995. Use of Microwave energy for the eradication of *Diaporthe phaseolorum* in soybean and its effect on seed quality. J. Microwave Power and Electromagnetic Energy 30 (4) 199-204.
- Reddy, M.V.B., Shetty, H.S. and Reddy, M.S. 1993. Mobility to metalaxyl in soil and uptake by pearl millet (*Pennisetum americanum* (L.) Leeke). Journal of Plant Protection in the Tropics 10 (3): 183-189.
- Reddy, M.V.B., Ghanekar, A.M. and Chakraborty, S.K. 1992. Association of M. *Phaseolina* and *Phomopsis* sp. with pigeonpea seed. International Pigeonpea News Letter, ICRISAT, (15) 21-23.
- Reddy, M.V.B., Shetty, H.S. and Reddy, M.S. 1990. Mobility and persistence of metalaxyl residues in pearl millet. Bulletin of Environmental Contamination and Toxicology, 45 (2) 250-257.
- Reddy, M.V.B., Shetty, H.S. and Krishna kumari, M.K. 1990. Short time dietary toxicity of metalaxyl to Indian albino rats. Journal of Pesticide Research, 2 (2) 139-144.
- Reddy, M.V.B., Shetty, H.S. and Reddy, M.S. 1989. Mobility and efficacy of metalaxyl against of downy mildew of pearl millet growing in different types of soil. International Journal of Tropical Plant Diseases, 7:97-104.
- Reddy, M.V.B., Shetty, H.S. and Krishna kumari, M.K. 1989. Acute toxicity of metalaxyl to Indian albino rats, Comparative Physiology and Exology, 15 (2) 51-57.
- Reddy, M.V.B., Shetty, H.S. and Raju, G.S.N. 1985. Persistence of metalaxyl against leaching in treated pearl millet seed, Milwai News Letter (4): Page 11.
- Reddy, M.V.B, Raju, G.S.N. Visweswaraiiah, K. and Shetty, H.S. sorghum. Chemical Industry News, 30, 389-391.
- Reddy, M.V.B., Shetty, H.S. and Raju, G.S.N. 1985. Effect on BHC on stored insect pests of rice, maize, sorghum and pearl millet. Pest Management, 5 (30): 17-19.

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PERSONNEL

Jill A. Samaniego, CIH, CHMM

Current owner of ERGOT LLC a Health and Safety firm specializing in Indoor Environmental Quality surveys and health and safety inspections.

EXPERIENCE:

PROJECT MANAGER, KCE Matrix, Inc. 1/02 to 7/02 Duties consist of oversight and conducting IEQ/IAQ surveys with an emphasis on biological surveys, developing remedial action plans, and assessing implementation of remedial action plans for insurance and property management firms.

MANAGER of HEALTH and SAFETY, Foster Wheeler Environmental Corporation-1/97 to 1/02. I managed health and safety functions for two major projects: Remediation of a Superfund Landfill Site, Operating Industries, Inc. (OII) a \$100 million project and Navy Southwest Division Remediation Action Contract (\$250 million). Responsibilities included supervising/hiring the health and safety staff, revising existing Site Health Safety and Emergency Plans, ensuring compliance with OSHA requirements, oversight of field operations performed by 200 employees utilizing heavy equipment (86 units), maintaining health and safety statistics, and employee training. The OII project was awarded the 1997 National Safety Council's President's Health & Safety Excellence Award and the 1998 Corporate Zip Project for achieving 500,000 hours without a lost time injury. During 2000 I also conducted an IAQ survey of 13 buildings for the Barstow Marine Base.

HEALTH and SAFETY MANAGER, Jacobs Engineering Group Inc. 10/92 to 1/97. In 1995 as project manager I managed an eleven-person team, which completed a million-dollar industrial hygiene survey for Edwards AFB on time and within budget. For Navy projects I wrote and edited site specific safety and health plans, audited field projects for health and safety compliance, conducted Hazwoper training (basic 40 hour, refresher, and supervisor classes), performed site assessments and environmental audits, participated in marketing activities from proposal writing to presentations, hired health and safety professionals, developed new programs such as, Injury and Illness Prevention Plan, and standard operating procedures. I developed guidance health and safety documents for projects to be conducted for a \$450 million remedial action control for the Air Force Center for Environmental Excellence.

CORPORATE HEALTH and SAFETY OFFICER, Converse Environment West (CEW). 4/90 to 6/92. Tasks included developing and implementing the health and safety program for the five CEW offices, approving site-specific health and safety plans, conducting Hazwoper training, project management, marketing, assuring compliance with environmental regulations, and conducting site and risk assessments. Work for

clients involved asbestos projects, site assessments, regulatory updates, and OSHA audits.

CERTIFIED INDUSTRIAL HYGIENIST, McLaren. 6/89 to 4/90: Responsibilities consisted of project management, marketing, and implementing employee health and safety program. Projects included asbestos oversight, typical industrial hygiene surveys, environmental assessments, developing cleanup strategy for hazardous waste sites, and field audits for compliance with health and safety plans. I managed an asbestos survey of a former luxury ocean liner now permanently docked in Long Beach.

TECHNICAL DIRECTOR of HEALTH and SAFETY, Ecology and Environment, Inc. (E & E). 9/88 to 6/89. Duties consisted of managing projects, marketing, coordinating regional health and safety activities, and supervising the health and safety unit. My unit of five professionals provided health and safety training, monitoring, and

environmental assessments for clients and other E & E offices. I was responsible from proposal to final report for an air Haz asbestos project of a Naval Base in San Diego. This \$100,000 project met both budget and time constraints.

MANAGER of ENVIRONMENTAL HEALTH and SAFETY. CA. State University at Northridge. 7/87 to 9/88. My duties consisted of managing and directing the environmental health and safety program and staff, emergency preparedness programs, radiation program, hazardous chemical and chemical waste program campus wide. I developed goals and prepared a budget for fiscal year 88-89 that the Executive Committee approved and funded.

ASSOCIATE INDUSTRIAL HYGIENIST, Division of Occupational Safety and Health (CAL/OSHA) 5/77 to 7/87. My assignments consisted of evaluating work environments, writing and issuing citations, conducting appeals, recommending control methods for hazards, training new employees, and calibrating field equipment. From 6/83 to 1/86, I worked in the Special Studies Unit conducting in depth industrial hygiene studies of the cotton batting and reinforced plastic industries. In 79 I participated in the development of a new standard for 4, 4'-Methylenebis(2-chloroaniline) now T8 5215.

REGISTERED SANITARIAN, Los Angeles County Health Department. 9/76 to 5/77. I conducted inspections of food establishments, pet shops, and apartment buildings; issued health licenses and official notices; answered public health complaints; and represented the Health Dept. in Municipal Court.

EDUCATION:

Master of Science in Environmental Health Science, Occupational Health Option, CA. State University at Northridge, January 23, 1978.

Bachelor of Science in Environmental Health Science, CA. State University at Northridge, July 23, 1973.

PROFESSIONAL:

NIOSH classes in noise, nonionizing/ionizing radiation and industrial ventilation.

HAZCAT taught by Robert Turkington, December 1987

40-hour Basic Health and Safety Training for Hazardous Waste Site Workers, E & E, October 1988

8-hour Supervisory Training for Hazardous Waste Sites, AIHA Conference, May 1989

AHERA Asbestos Building Inspector #0122, DEI, March 1989

AHERA Asbestos Management Planner #02018, DEI, March 1989

AHERA 8-hour Refresher Class, LEHR, March 1990

Train the Trainer, MBA, February 1991

Train the Trainer, AIHA Conference May 1992

Environmental Auditing, AIHA Conference May 1993

Regulatory Update Seminars, UCI/UCLA April 1992, April 1993, and July 1994

Total Quality Management, Jacobs University, April 1994

Responding to Community Outrage, Peter Sandman Ph.D., AIHA Conference May 1995

10 Hr. Occupational Safety and Health Course in Construction Safety & Health, OSHA 1997

Loss Control- DVU Foster Wheeler 1997

Project Management 200 Level, FWENC, 1999

Environmental Law, AIHCE, Toronto, 1999

Driving EH & S Performance, AIHCE, Orlando, 2000

Solving IAQ Problems in Hot Humid Climates, AIHCE, San Diego, 2002

Fundamentals of Industrial Hygiene Law, AIHCE, San Diego, 2002

Course 812.6 Mold: Health, Science, and Law, UCI Extension, Irvine, 2004

ISO 14001:1996 Environmental Lead Auditor, QAI, Long Beach, 2004

CERTIFICATION:

Certified Industrial Hygienist, American Board of Industrial Hygiene #3650, May 1987

Certified Hazardous Material Manager, University of CA. at Irvine, July 1988

CLEARANCE:

Inactive –Department of Defense Secret Clearance

PERSONNEL

Justin Piot, B.A., Field

- California State University Fullerton (CSUF) Bachelors Degree in Business Administration with Emphasis in Finance
- Industrial Hygiene Technician
- Environmental Protection Agency AHERA Building Inspector
- Environmental Protection Agency AHERA Supervisor
- State of California Department of Occupational Safety and Health, Certified Site Surveillance Technician (CSST # 04-3639)
- Certified Microbial Investigator (CMI), American Indoor Air Quality Council
- Certified Indoor Environmentalist (CIE), Indoor Air Quality Association
- Member of the American Indoor Air Quality Council
- Member of the Indoor Air Quality Association (IAQA)

Davis Vo, B.A., Field

- University of California Riverside (UCR); Bachelor's Degree in Biology/Environmental Toxicology
- Industrial Hygiene Technician
- Member of the American Indoor Air Quality Council
- Member of the Indoor Air Quality Association (IAQA)
- Environmental Protection Agency AHERA Building Inspector
- Environmental Protection Agency AHERA Supervisor
- State of California Department of Occupational Safety and Health, Certified Site Surveillance Technician (CSST # 06-3987)

Larry Cornejo, Field

- Industrial Hygiene Technician
- Certified Hazardous Waste Operator and Emergency Response (HAZWOPER #24008)
- Certified Water Damage Restoration Technician, IICRC # 93985
- Certified Odor Control Technician IICRC # 93985
- Member of the American Indoor Air Quality Council (AmIAQ)
- Member of the Indoor Air Quality Association (IAQA)

Marisa Meador, B.A.

- California State University Fullerton (CSUF)
- Member of the American Indoor Air Quality Council

PERSONNEL

Rogelio Munoz, B.S., Laboratory

- California State University Long Beach (CSULB) Bachelors Degree in Microbiology, Minor in Chemistry (2001)

Jeffrey Scherer, B.S., Laboratory

- University of California, Los Angeles (UCLA) Bachelors Degree in Atmospheric Sciences (1992)
- Microscopical Identification of Asbestos, McCrone Research Institute (2001)
- Sampling and Evaluating Airborne Asbestos Dust (NIOSH #582), Hygeia Laboratories Inc. (2001)

Benjamin Saavedra, B.S., Laboratory

- University of Mexico, Xochimilco (UAM) Bachelors Degree in Biology
- Master Degree in Marine Ecology
- Center of Higher Studies and Education of Ensenada (CICESE)
- Certified Laboratory Technician
- Sampling and Evaluating Airborne Asbestos Dust (NIOSH #582)
- Member of American Marine Benthic Association

Young-Ok Yi, B.S., Laboratory

- Korea National Open University, Bachelors Degree in Agriculture Science
- Jisan College/Catholic University of Pusan (Clinical Pathology)
- Certified Medical Technologist (South Korea)

Surbhi Ahuja

- Hemwati Nandan Bahuguna Garhwal University , Srinagar (garhwal) Uttaranchal, India
S.B.S.P.G. Institute of Biomedical Sciences & Research, Dehradun, India
Master of Science (2004)
Major: Microbiology
- KurukshetraUniversity, Kurukshetra, India
Bachelor of Science (2002)
Major: Industrial Microbiology

ACCREDITATIONS AND CERTIFICATION

ENVIROCHECK, INC. is a fully accredited and certified laboratory, maintaining proper State and Federal licenses, permits and certifications. Our employees receive thorough training in project management, supervision, inspection and asbestos abatement training. Continuing education is maintained through programs designated to renew certification and to work with special supervisory and management needs.

Corporate accreditation and credentials are earned by proven proficiency through a number of independent audits and investigation. Since their inception, **ENVIROCHECK, INC.** has consistently been awarded all credentials and accreditations sought. The following is a list of currently held accreditations, with a brief description of each. See the following attachments for copies of the certifications.

NIST/NVLAP

National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

Lab # 200548-0

Accuracy of Polarized Light Microscopy (bulk) analysis is evaluated by participation in NIST's National Voluntary Laboratory Accreditation Program (NVLAP). AHERA requires NVLAP accreditation for bulk asbestos analysis (by PLM) performed during school building surveys.

NIST, formerly NBS-National Bureau of Standards, primarily focuses on development and establishment of quality control standards for laboratories. NIST ensures that standards are met through a thorough accreditation process. Accreditation for laboratories performing analysis of bulk materials for the presence of asbestos is awarded after the laboratory successfully passes an onsite inspection, during which the facility, technicians, processes and record-keeping are carefully evaluated. Additionally, each quarter, the laboratory must successfully analyze audit bulk material samples for the presence, type and percentage of asbestos.

American Industrial Hygiene Association (AIHA)

Laboratory Accreditation for Fungi by Culture and Direct Examination

"Spore Traps".

EMLAP Lab # 151772

The EMLAP program "Environmental Microbiology Laboratory Accreditation Program" is for laboratories identifying microorganisms. Accredited laboratories must meet defined standards, pass a rigorous on site inspection and maintain a passing score when analyzing unknown test samples sent out by the AIHA several times a year.

ACCREDITATIONS AND CERTIFICATION

The American Industrial Hygiene Association establishes and maintains the highest possible standards of performance for laboratories analyzing samples to support the evaluation of occupational and environmental exposure to hazardous agents. Laboratories that comply with the requirements of the International Organization for Standardization (ISO) policy ISO/IEC 17025 incorporates those requirements of ISO 9001 and ISO 9002 that are relevant to the scope of testing services addressed by the laboratory. This encourages the laboratory seeking accreditation to operate a laboratory in which well-qualified personnel using appropriate equipment and methods perform sampling and testing procedures with adequate controls. High standards of practice shall be encouraged and maintained through conformance with established accreditation criteria, education, and proficiency testing and onsite assessments.

Environmental Microbiology Proficiency Analytical Testing (EMPAT)

EMLAP Lab # 151772

The AIHA is a private association of Industrial Hygienists responsible for upholding the highest standards of the industry. The microbiology laboratory is currently participating in the AIHA EMPAT program for fungus.

QUALITY CONTROL SUMMARY

ENVIROCHECK, INC. thoroughly monitors quality control through a detailed program evaluating and documenting the ability to consistently reproduce analytical results. To accomplish this, we have developed a standard set of protocols that encompass sample collection, handling, analysis and reporting. Data quality is evaluating based on both inter-laboratory control and duplicate analysis.

All PLM (Polarized Light Microscopy), PCM (Phase Contrast Microscopy) and AA (Atomic Absorption) samples taken or received by Envirocheck, Inc. undergo proper chain-of-custody and log-in documentation. Contamination of bulk samples is controlled by ensuring that only qualified personnel collect the samples in an approved container and that PCM and AA analysis is determined by blind replicate analysis on 10% pf all randomly selected samples by an **ENVIROCHECK, INC.** Quality Control Manager and each microscopist. Each microscopist is issued one reference slide per day for analysis. Additionally, quality control is maintained by:

Polarized Light Microscopy (PLM): On a quarterly basis, we exchange round robin samples with two other laboratories in our area. Our sample results are compares with the results of the other laboratories for asbestos presence, type and percentage composition. Duplicate and referenced samples are issued on a daily basis by the Quality Control Manager and also are analyzed for asbestos presence, type and percentage. The data for these quality control activities is then compiled and control charts are produced to help interpret the sample results with regard to inter/intra analyst precision and accuracy, as well as inter/intra laboratory precision and accuracy.

Phase Contrast Microscopy (PCM): Each analyst's Coefficient of Variation (CV) is determined by daily analysis of reference slides. The established CV for the analyst is then used to verify that 10% blind recount of all samples is within acceptable limits. Regular updates if intra/inter analysis and intra/inter laboratory control charts are produced form the data collected. Round robin sample exchange is performed from PCM samples, as was described for PLM.

Fungi by Culture and Direct Examination "Spore Traps." Each job is individually checked to insure it is correct before being released. Ten percent of all samples are reanalyzed prior to the results being released. Management reviews the laboratory's performance and quality of analysis every month.

Standard samples are analyzed every day to find the accuracy and precision of analysis by statistical means. Round robin samples are exchanged with other laboratories to compare and verify our results. EMPAT "Environmental Microbiology Laboratory Accreditation Program" samples are analyzed several times a year.

REFERENCES & PROJECTS

INSURANCE-

- AIG INSURANCE
- ALLSTATE INSURANCE
- AUTO CLUB OF SOUTHERN CALIFORNIA
- CHUBB INSURANCE CO.
- CUNNINGHAM LINDSEY
- FARMERS INSURANCE
- GAB ROBBINS
- KONING AND ASSOCIATES
- MERCURY INSURANCE
- PRUDENTIAL INSURANCE
- SAFECO
- SAFECO
- USAA INSURANCE
- ZURICH OF NORTH AMERICA
- 1ST AMERICAN SPECIALTY INSURANCE

CONTRACTORS & REMEDIATION-

- ALLIANCE ENVIRONMENTAL
- ABLE RESTORATION
- AMERICAN TECHNOLOGIES
- HARBRO
- MASTERCARE PROTECTION AND CLEANING
- PW STEPHENS
- PRECISION ENVIRONMENTAL
- QWIK RESPONSE
- SKY BLUE ENVIRONMENTAL ABATEMENT

LAW OFFICES-

- BACALSKI, BYRNE, KOSKA & OTTOSON
- COZEN O'CONNOR
- GIBBS, GIDEN, LOCHER & TURNER
- HOLLINS SCHECTER
- LEWIS, BRISBOIS, BISSGARD & SMITH
- LOPEZ, HODES, RESTANIO, MILMAN, SKIKOS, & POLOS
- MURCHISON & CUMMINGS
- TESSER & RUTTENBERG
- THE SCHINDLER LAW FIRM

CITY/GOVERNMENT-

- CITY OF WESTMINSTER
- CITY OF LOS ANGELES HOUSING AND URBAN DEVELOPMENT
- CITY OF HERMOSA BEACH
- CITY OF GLENDORA
- CITY OF COVINA
- CITY OF PASADENA
- CITY OF CORONA UNIFIED SCHOOL DISTRICT
- CAL-TRANS
- CHINO HILLS MEN'S PRISON
- EL TORO MARINE BASE
- IRVINE UNIFIED SCHOOL DISTRICT
- LOS ANGELES AIRFORCE BASE
- METROPOLITAN WATER DEPARTMENT
- MONTEBELLO UNIFIED SCHOOL DISTRICT
- TERMINAL ISLAND FEDERAL PRISON
- SAN DIEGO NAVY BASE

REAL ESTATE-

- FIRST TEAM
- REMAX
- COLDWELL BANKER
- CENTURY 21 (CENTURY SUPERSTARS)
- TARBELL
- DILBECK REALTORS
- DBL
- NEUMAN & ASSOCIATES
- STRATA
- HELP-U-SELL

PROPERTY MANAGEMENT-

- ACCEL PROPERTY MANAGEMENT
- ALLIANCE RESIDENTIAL
- HORIZON PROPERTY MANAGEMENT
- HUNT ENTERPRISES
- KEYSTONE PROPERTY MANAGEMENT
- PROFESSIONAL COMMUNITY MANAGEMENT (PCM)

BUILDERS-

- CENTEX
- KB HOMES
- PULTE HOMES
- SHEA
- STANDARD PACIFIC HOMES
- WARMINGTON HOMES