

ENVIRONMENTAL  
PROTECTION  
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*ALFA  
ENVIRONMENTAL REMEDIATION SERVICES*

***STATEMENT  
OF  
QUALIFICATIONS***

*ALFA ENVIRONMENTAL REMEDIATION SERVICES  
P.O. Box 1630  
Pleasanton, CA 94566  
(510) 462-9763 FAX:(510) 462-9726*



## INTRODUCTION

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*ALFA Environmental Remediation Services (ALFA) is a professional services company comprised of environmental scientists, geologists and engineers. The firm has served a broad spectrum of clients representing industry, development, construction, agribusiness, financial institutions, as well as numerous professional consulting firms requiring our expertise.*

*ALFA is dedicated to providing outstanding quality and technical integrity in its professional services.*

*The project is led by a project manager who reports to the project executive and is the client's day-to-day contact.*

*The staff is supported by an extensive in-office library of environmental and geologic publications, Federal Register, Code of Federal Regulations, California Code of Regulations, journals and basic data. This information, is supported by expansive computer capabilities.*

*ALFA's services reflect our commitment to providing our clients with the highest quality services for the lowest cost.*

*Specific areas of expertise are summarized in the following sections.*

# **ENVIRONMENTAL SERVICES**

## ***Phase I Environmental Site Assessments***

*Historical Record Search*

*Aerial Photographs*

*Facility and Neighboring Property Investigation*

*Geological and Hydrogeological Review*

## ***Phase II Environmental Site Assessments***

*Soil Borings*

*Monitoring Wells*

*Soil and Groundwater Sampling and Analysis*

*Solute Transport Simulation*

*Investigation Reports*

***Remediation***

*Feasibility Assessments*

***Excavation and Disposal of Contaminated Soil***

*Tank Removals*

*Bioremediation*

*Closure Reports*

*The objective of ALFA is to turnkey each investigation. This approach involves advising the client regarding alternative technical approaches, conducting comprehensive site investigations, implementing cost-effective remedial measures and negotiating successful permit applications. Environmental Services has proven to be a very effective negotiator and liaison with federal, state, county, and city regulatory authorities. A very tangible aspect of our service is our responsiveness to client concerns*

***Hazardous Materials Management***

*Hazardous Materials Management Plans (HMMPs)*

*Risk Management and Prevention Programs (RMPPs)*

*Toxic Gas Ordinance Plans (TGOs)*

*Bay Area Air Quality Management District Permits*

*Hazardous Waste Generator Permits*

*Permit by Rule (PBR)*

*Hazardous Waste Minimization Plans*

***Safety***

*Injury and Illness Prevention Plans (IIPPs)*

*Emergency Response Plans*

*Hazard Communication Programs*

*Safety Programs*

*Noise Survey*

*Exhaust Ventilation Services*

***Training Programs***

*Emergency Response Training*

*Hazardous Waste Management Training*

*Hazard Communication/Chemical Safety*

*Supervisor's Environmental and Safety Training*

*Hazardous Waste Operations (40-hours)*

*During the past several decades, many of the environmental and safety regulations have evolved from the underlying principles of protecting human health and preserving the environment. Environmental regulations will also continue to grow in both number and complexity. While full compliance with the regulations is desirable, it often can be challenging.*

*As a result of the expanding requirements, more and more time and resources are needed to keep track of and to comply with the environmental regulations.*

*ALFA provides services to industrial facilities which are in need of additional time and resources to maintain or improve their regulatory compliance status. ALFA specializes in industrial permitting activities, program development, and regulatory interaction.*

*Full environmental compliance services are available to smaller facilities which do not wish nor need to hire a full-time environmental manager. ALFA provides a variety of environmental and safety services which enable companies to meet the increasing demands placed upon them by the growing regulatory requirements.*

*The goal of ALFA is to provide services which are highly-regarded and will result in high levels of customer confidence and satisfaction. ALFA strives to accomplish this by: taking client's requirements seriously; listening closely to clients to gain a better understanding of specific needs; paying careful attention to critical details; and, providing services which are customized to meet each client's specific requirements.*

*Because of our experience, we can coordinate equipment and manpower quickly and cost-effectively to meet your project needs - from routine test holes to recovery wells, hazardous waste site investigations and remedial actions.*

**KEY PROFESSIONAL STAFF**

**MARVIN D. KIRKEBY, P.E.**

***Environmental Engineering  
Storm water drainage /  
hydrology  
Civil Engineering***

***Responsibility:*** *Civil Engineer*

***Education:*** *B.S., Civil Engineering, Washington State University*

***Registration:*** *Registered Civil Engineer No. 14001, State of California*

***Years in Profession:*** *23*

***Experience:*** *Mr. Kirkeby is directly involved in the technical aspects of various hydrogeologic and environmental investigations.*

*Mr. Kirkeby has directed or provided management for over 100 environmental, hazardous waste, hazardous material and hydrogeologic projects.*

*He planned and designed various civil and geotechnical engineering projects including project management, structural design, grading and improvement design and surveying.*

*Other project experience includes the planning of expressway routes, preliminary grade designs, right of way acquisitions and preparation of exhibits for governmental agency approvals.*

**VALENTIN CONSTANTINESCU, R.E.A., C.E.C.M.**

**Geology/Hydrogeology  
Aquifer and Soil Remediation  
Computer Modeling  
Aquifer Characterization  
UST Management  
Geophysical Investigation**

**Responsibility:** *Senior Environmental Geologist*

**Education:** *M.S., Geology  
B.S., Mathematics*

**Registration:** *Registered Environmental Assessor State of California  
Certified Environmental Compliance Manager (CECM)  
Building Inspector for Asbestos*

**Years in Profession:** *15*

**Experience:** *Mr. Constantinescu is an environmental geologist for ALFA, specializing in geological, geophysical and hydrogeological investigation of soil/groundwater impacted by hazardous waste and groundwater flow and solute transport modeling.*

*As a project manager, he developed proposals, estimated job costs, designed and implemented vadose and groundwater sampling/monitoring plans for the evaluation of potential impact of contaminants upon subsurface environmental systems. He designed/implemented remedial technologies to facilitate closure of impacted sites, and is responsible for report development from job inception to document sign-off.*

*He has extensive experience in groundwater flow and solute transport simulation using various software packages, in computer graphics, in statistical and numerical methods, signal analysis, and programming. While at the Institute of Geology and Geophysics, Romania, he was responsible for contamination studies in the oil fields, for determination of optimum location of nuclear power plants, performed geology, hydrogeology, magnetism and geoelectrical methods to detect water and to locate anthracite.*

**OANA LEONTE, Ph.D., M.Sc.**

**Chemical Engineering  
Hazardous Waste Processing  
Chemical Analyses**

**Responsibility:** *Laboratory analyses interpretation.*

**Awards:** *The highest Romanian research award of Romanian Academy: "Nicolae Teclu".*

**Education:** *PhD, M.Sc., Chemistry & Chemical Engineering.*

**Years in Profession:** *27*

**Experience:** *Ms. Leonte is a an experienced chemist/chemical engineer with background in chemistry and strong interdisciplinary knowledge of analytical, organic and inorganic chemistry, She has extensive experience in research and development of chemicals with emphasis on chemical and instrumental analysis, environmental protection (EPA and OSHA methodology), heterogeneous catalysis and chemical process engineering.*

*Mastered and implemented in industry more than ten technologies.*

*Researched and managed hazardous waste for a new technology of bonding, using electroconductive composite adhesives. Prepared samples and performed trace metallic analyses of semiconductor processing chemicals using ICP-MS, wet analysis. Studied oxidative methane coupling using GC, GC/MS and PCs.*

*Performed research and development of catalytic processes and real catalysts for environment and petrochemical industry using textural analysis, GC, TPR, TGA, DSC, IR, UV-VIS, AAS. Performed analyses for volatile organics, waste water, air/gases quality and studied and developed chemical processes for aromatic heterocyclic chemistry, synthesis of monomers, polymers and active substances for drugs, detergents and pesticides.*



**ADI CONSTANTINESCU, R.E.A., C.H.M.M.**

**Hydrogeology  
Aquifer and Soil Remediation  
Aquifer Characterization  
UST Management**

**Responsibility:** *Senior Hydrogeologist*

**Education:** *M.S., Geology  
B.S., Mathematics*

**Registration:** *Registered Environmental Assessor State of California  
Certified Hazardous Materials Manager (CHMM)*

**Years in Profession:** *15*

**Experience:** *Ms. Constantinescu brings to ALFA considerable experience in hydrogeological studies of groundwater bearing strata. She has performed studies of fluid movement and transport of dissolved substances in a subsurface environment, and analyses of groundwater contaminant transport problems and aquifer restoration designs.*

*As a project manager, she developed proposals, estimated job costs, designed and implemented vadose and groundwater sampling/monitoring plans for the evaluation of potential impact of contaminants upon subsurface environmental systems. She has been involved in projects like:*

- a) Groundwater detection, using geological and geoelectrical methods;*
- b) Coordination of monitoring programs for contaminated sites;*
- c) Design/implementation of remedial technologies to facilitate closure of impacted sites.*

*She has extensive experience in computer graphics, in statistical and numerical methods, and groundwater flow and transport simulation using SUTRA software package.*

**ADRIAN ILIE**

**Microbiology  
Toxicology  
Water and Soil Analyses  
Bioremediation**

**Responsibility:** *Remediation Specialist*

**Education:** *Veterinary Doctor  
Food Microbiology and Toxicology*

**Years in Profession:** *18*

**Experience:** *Mr. Adrian has a solid experience with groundwater and soil remediation.*

*Used biological detoxification processes based on the ability of a variety of microorganisms to utilize aerobic and anaerobic mechanisms to degrade any organic and inorganic material using common soil bacteria. Used bacteria such as Pseudomonas sp., Flavobacterium sp., Achromobacter sp., etc., Algi and Fungi to detoxify by population of these and other non-pathogenic organisms already resident within the contaminated soil and groundwater by identifying and then compensating for any limiting factors.*

*Performs all necessary analyses (extraction methods) to determine the contamination levels prior any soil and groundwater remediation.*

*Liquid inoculation for those situations in which post-treated soil is to be utilized as backfill.*

*Able to economically remediate materials contaminated with fuel hydrocarbons, solvents and pesticides as well as some heavy metals.*

*Establishes essential minor, trace and growth factors for bacteria, Ph effects on the growth of microorganisms, and survival strategies.*

*Acute, neurobehavioral and subchronic inhalation toxicity and percutaneous absorption of contaminants and mutagenicity evaluation.*

**PAUL VEVERA, M.Sc.**

**Mechanical Engineering  
Civil Engineering  
Programming**

**Responsibility:** *Civil/Mechanical Engineer*

**Education:** *M.S., Mechanical Engineering*

*Post Graduate Courses, Mathematics  
Minor in Computer Science.*

**Years in Profession:** *14*

**Experience:** *Mr. Vevera is a Project Manager for the mechanical and civil engineering projects.*

*He has extensive experience in the design and construction of groundwater and wastewater treatment equipment. Responsible for the system design and coding using programming for increased efficiency in fluid transfer problems and general calibration of electrical networks.*

*Developed appropriate applications using Q&A, Lotus 123, Wordperfect 5.1, dBase III.*

*Extensive experience in:*

*Modifying industrial chemical processes.*

*Vacuum extraction systems.*

*Air-strippers.*

**BOGDAN S. GEORGESCU, R.E.A.**

***Environmental Assessments  
Safety and Health Programs  
Compliance Programs***

***Responsibility:*** *Safety and Environmental Engineer*

***Education:*** *M.S. Petroleum Engineering*

***Registration:*** *Registered Environmental Assessor, State of California.*

***Years in Profession:*** *9*

***Experience:*** *Mr. Bogdan is a Registered Environmental Assessor. In his capacity, he oversees the development of Compliance programs, Safety and Health program including permitting.*

*Specific experience includes:*

*1) Safety & Health Programs/Plans/Training: Electrical Lockout/Tagout, Injury/Illness Prevention, Respiratory Protection, Emergency Preparedness, Emergency Response Training, 40 Hour Hazardous Waste, Hazardous Waste handler Training, Supervisor / Manager / Director of Safety Courses, Confined Spaces, Hearing Protection, Laser Protection, Safety Policies, Contractor Policies, Hazard Communication, and Back Injury.*

*2) Environmental Programs/Plans: Waste Minimization, Hazardous Materials Management, Storm Water Pollution Control, Toxic Gas Assessment Plans for City of Sunnyvale Fire Department, Equipment/Construction Plans for Bay Area Air Quality Management District, Supervise Ground Water Monitoring, Conduct Noise, Ventilation, Industrial hygiene surveys.*

*3) Hazardous Waste Disposal Permitting and Taxation, Neutralization System/HF Reduction, Emergency Response Commander, Environmental/Safety Auditing, D.I. Water System, and Energy Saving Systems.*

**PROJECT EXPERIENCE**

**O'BRIEN & HICKS**

- PHASE I ENVIRONMENTAL SITE ASSESSMENT - ANTIOCH
- SAMPLING, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE  
- SAN JOSE
- REVIEW OF EXISTING FILES AND UPDATED PHASE I ENVIRONMENTAL  
SITE ASSESSMENT - SAN RAMON
- PHASE II ENVIRONMENTAL SITE ASSESSMENT - SAN RAMON

Contact: Steve Zales (415) 377-0300.

**CITATION HOMES**

- PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT  
- EVERGREEN
- PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT  
- SANTA CLARA

Contact: Steve Schott, Jr. (408)  
or Jim Sullivan at (408) 985-6000.

**R&J QUICK CLEAN CENTER**

- SOIL SAMPLING, TRANSPORT AND DISPOSAL OF LEAD  
CONTAMINATED SOIL - SAN LEANDRO.

Contact: Ray Lorge (510) 581-9797.

**SUPER CROWN CATERING**

- SOIL BORINGS, GROUNDWATER MONITORING WELL  
INSTALLATION, SOIL SAMPLING, TRANSPORT AND DISPOSAL OF  
LEAD CONTAMINATED SOIL - SOUTH SAN FRANCISCO.

Contact: Helen Franco (415) 873-1939.

**ORTHOPEDIC INSTRUMENTS, INC.**

- INSTALLATION AND SAMPLING OF GROUNDWATER MONITORING WELLS - HAYWARD

Contact: Mark Abramowitz (510) 783-1020.

**WINNING ACTION INVESTMENTS, INC.**

- QUARTERLY SAMPLING - DUBLIN
- EXPERT WITNESS - INVERNESS

Contact: Fred Houston (510) 828-4253.

**SUNBORO DEVELOPMENT CORPORATION**

- PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS
- GILROY, SAN JOSE, SUNNYVALE, AND EVERGREEN

Contact: David Ng (408) 733-1040.

**FORREST NISSAN**

- GROUNDWATER MONITORING WELL INSTALLATION, SAMPLING AND CASE CLOSURE - REDWOOD CITY

Contact: Lew Milligan, (408) 998-7397.

**WESTERN MICROWAVE, INC.**

- SOIL BORINGS, WORK PLANS, REMEDIATION SYSTEMS

Contact: Dr. Ibrahim Hefni, CEO (408) 738-2300.

**COCHRANE PLAZA CHEVROLET**

- SOIL SAMPLING, GROUNDWATER SAMPLING, MONITORING WELL  
INSTALLATION, LEAD CONTAMINATED SOIL SAMPLING,  
TRANSPORT AND DISPOSAL, QUARTERLY GROUNDWATER  
MONITORING - MORGAN HILL.

Contact: Al Chew (408) 779-2136.

**BURGREN FAMILY**

- PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT  
SAN LEANDRO.

Contact: David Burgren (510) 893-7323.

**TIEGEL MANUFACTURING COMPANY**

- PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT  
BELMONT

Contact: Eric Tiegel (415) 327-0147.

**HAZARDOUS MATERIALS AND ENVIRONMENTAL COMPLIANCE PROJECTS**  
(Project Manager: Mr. Bogdan)

**PROJECT:** 40-Hour Hazardous Waste Operations and Emergency Response  
Training

**CLIENT:** Environmental Technology International Corp.

**CONTACT:** Costas Orountioties (408) 244-7202

**PROJECT DESCRIPTION:**

Developed and delivered a 40-Hour Hazardous Waste Operations and Emergency  
Response course designed to ensure compliance with 20 CFR 1910.120. This  
course was presented to environmental engineers, safety and hazardous waste  
remediation personnel. Major components of the course:

Chemical Safety  
Respiratory Protection  
Hazardous Substance identification  
Personal Protective Equipment  
Industrial Hygiene Monitoring Procedure  
Decontamination Procedures

**PROJECT:** *Hazardous Waste Management Training Program*

**CLIENT:** *Solid State Systems*

**CONTACT:** *Marilyn Robinson (408) 986-8026*

**PROJECT DESCRIPTION:**

*The program was developed to provide the necessary knowledge in handling hazardous waste as a generator (required by CCR 67105). The following major components are included in the training:*

*Uniform Hazardous Waste manifest  
Container Labeling  
Waste Segregation  
Personal Protective Equipment*

**PROJECT:** *Hazardous Waste Minimization Plan Budget*

**CLIENT:** *E.G.&G. Reticon, Inc.*

**CONTACT:** *Rodger Alsobrook (408) 738-4255*

**PROJECT DESCRIPTION:**

*Conducted a comprehensive audit for reducing the hazardous waste disposal expenses and the proposed budget for hazardous waste minimization plan. The plan also includes new equipment, controllers, and process changes.*

**PROJECT:** *Investigation for Thallium and Cesium Iodide*

**CLIENT:** *E.G.&G.*

**CONTACT:** *Wingo Huang (408) 738-4266*

**PROJECT DESCRIPTION:**

*Performed library search and conducted an investigation with the City of Sunnyvale regulatory agency to find the limits and restrictions for using Cesium and Thallium Iodide in the process of wafer fabrication. Recommendations for handling the hazardous waste and materials were also included in the report. Furthermore, equipment safety design was discussed with the technical personnel involved in developing this system.*



**PROJECT:**            *Permits*

**CLIENT:**            *US Semiconductor*

**CONTACT:**          *Serban Porumbescu (408) 986-8026*

**PROJECT DESCRIPTION:**

*Prepared and presented permit applications for Bay Area Air Quality Management District, Fire Department, Water Pollution Control Plant, Environmental Protection Agency, Hazardous Waste Generator. The applications also included:*

*Hazardous Materials Management Plan  
Contingency Plan  
Facility Drawings  
Equipment Review  
Hazard Communication Program  
Emergency Response Training*

**PROJECT:**            *Permit by Rule*

**CLIENT:**            *Voltage Multipliers, Inc.*

**CONTACT:**          *John Yakura (209) 651-1402*

**PROJECT DESCRIPTION:**

*Performed site investigation, report and recommendations for reaching compliance with Permit by Rule. Environmental and safety programs were also evaluated and discussed with technical personnel involved in writing and maintaining regulatory compliance.*