# Brownfield Cleanup Program
# Off-Site Investigation Work Plan

**for**

**31/32 LIC LLC**
**37-25 31ST STREET**
**LONG ISLAND CITY, NEW YORK**

**BCP SITE #C241182**

**October 2016**
**Revised November 2016**

**Prepared for:**

**New York State Department of**
**Environmental Conservation**
**Division of Environmental Remediation**
**625 Broadway**
**Albany, NY 12233-7020**

**On Behalf of:**

**31/32 LIC LLC**
**100 Ring Road West, Suite 101**
**Garden City, New York 11530**

**Prepared by:**

**CA RICH Consultants, Inc.**
**17 Dupont Street**
**Plainview, NY 11803**
**(516) 576-8844**

November 11, 2016

**New York State Department of**
**Environmental Conservation**
625 Broadway, 12th Floor
Albany, NY 12233-7020

Attention: Caroline Eigenbrodt, Project Manager

**Re: Off-Site Investigation Work Plan**
31/32 LIC LLC/#C241182
37-25 31st Street
Long Island City, New York

Dear Ms. Eigenbrodt:

CA RICH Consultants, Inc. (CA RICH) is pleased to provide you with this Off-Site Investigation Work Plan (OIWP) for the above-referenced project. This OIWP has been revised in accordance with comments in the Department's letter dated October 5, 2016, October 7, 2016, and November 10, 2016 and therefore supersedes our earlier versions.

If you have questions or require any additional detail, please do not hesitate to call our Office.

Respectfully submitted,

**CA RICH CONSULTANTS, INC.**

Victoria Whelan, QEP, CPG
Associate

cc: Guy Bobersky, NYSDEC via email
Fredric Oliver, Volunteer via email
Stephanie Selmer, NYSDOH via email
Justin Deming, NYSDOH via email
Richard Izzo, CA RICH via email
Karen Mintzer, NYSDEC via email
Larry Schnapf, Schnapf Law, via email

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**Appendix**

A. RESUMES

# Off-Site Investigation Work Plan

## "31/32 LIC LLC"

**37-25 31ST STREET**

**LONG ISLAND CITY, NEW YORK**

**BCP SITE #C241182**

### CERTIFICATION

I, Victoria Whelan certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Off-Site Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

| 02140003 | November 11, 2016 | |
|---|---|---|
| IPEP QEP No. | Date | Signature |


QEP Stamp

## 1.0 INTRODUCTION

This Off-Site Investigation Work Plan (OIWP) was prepared by CA RICH Consultants, Inc. (CA RICH) of Plainview, NY on behalf of 31/32 LIC LLC, for the Brownfield Cleanup Program (BCP), Site #C241182 relative to the planned residential redevelopment and improvement of 37-25 31st Street in Long Island City, Queens, New York, (hereinafter referred to as the 'Site' or the 'Property'). The Volunteer was accepted into the BCP in March 2016. This Off-Site Investigation Work Plan is based upon the guidelines set forth in Section 3 of NYSDEC's Draft Brownfield Cleanup Program Guide dated May 2004 (Ref. 1); NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 2); and the New York State Department of Health "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 (Ref. 3). The proposed work discussed in this Work Plan will be conducted in accordance with procedures and plans previously approved by the NYSDEC in the April 2016 Remedial Investigation Work Plan (Ref. 4) which includes the Quality Assurance Project Plan and Health & Safety Plan prepared for this Site. For the purposes of this Work Plan, the contaminants of concern are Volatile Organic Compounds (VOCs).

This Work Plan addresses the off-site investigation activities to be completed as a further characterization and follow-up investigation based upon the results already reported from three subsurface investigations performed on the Property: 1) Limited Remedial Investigation Report dated February 2015 conducted by GZA Geo Environmental Inc. (Ref. 5); 2) Remedial Investigation Report dated October 2015 conducted by CA RICH (Ref. 6); and 3) BCP Remedial Investigation Report dated July 2016 by CA RICH (Ref. 7). This OIWP has been prepared because of elevated VOC detections in the soil vapor beneath the Property. Soil vapor detections are summarized below:

Soil Vapor - Soil vapor sample results contained petroleum-related VOCs present in low concentrations. Total concentrations of petroleum-related VOCs (BTEX) had a maximum concentration of 192.1 µg/m$^3$. Sample results indicated elevated levels of chlorinated VOCs including tetrachloroethene (max. of 250 µg/m$^3$) and trichloroethene (max of 12,500 µg/m$^3$). These compounds were detected above the monitoring/mitigation ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion. Elevated TCE levels were confirmed across the entire property.

A Remedial Action Work Plan (RAWP) was prepared for the Site. As part of the RAWP an off-site soil vapor intrusion study is required. This is the subject of this Work Plan. The purpose of this OIWP is to outline the scope of work to be followed during the off-site investigation of soil vapor contaminants near the subject Site.

## 2.0 PHYSICAL SITE CHARACTERISTICS

### 2.1 Site Description

The subject Site consists of a .40 acre, irregularly-shaped tax Lot. The Site address is 37-25 31st Street, Queens NY, 11101 (formerly 37-26 32nd Street and 37-27 31st Street). The New York City Tax map identifies the Site as Block: 373 Lot: 6. The Property has frontage on both 31st Street and 32nd Street and is located between 37th and 38th Avenue. The Site recently underwent demolition and is vacant, the old building slab remains in place.

The current zoning designation is M1-2/R6A which includes light manufacturing and residential use. The proposed use is consistent with existing zoning for the Property. The Site is relatively level and has no natural or artificial surface water bodies or impoundments. Water from rain events runs off into street storm drains. The depth to shallow groundwater ranges from 22 to 23 feet below grade. A Property Location Map is included as Figure 1.

### 2.2 Surrounding Land Use

The Site is bordered by a six-story, mixed-use residential and commercial building (zoned M1-2/R6A for mixed residential and commercial) to the north, 32nd Street to the east, several one-story industrial buildings (zoned M1-2/R6A for industrial, manufacturing and transportation utility) to the south, and 31st Street to the west. There are no schools, hospitals, or daycare centers within a 500-foot radius of the Property.

### 2.3 Hydrogeologic Setting

The Site is relatively level and has no natural or artificial surface water bodies or impoundments. Water from rain events runs off into street storm drains. The depth to shallow groundwater ranges from 22 to 23 feet below grade. Shallow groundwater beneath the Site flows to the southwest towards the East River and Dutch Kills. Underlying groundwater in this area of Queens is not used for potable supply purposes. New York City currently utilizes up-State reservoirs for its potable water supply. As the underlying groundwater is not used for potable supply purposes, no potable resources appear to be threatened by local groundwater contamination. According to maps and reports published by the United States Geological Survey (USGS), the Property is underlain by Quaternary age glacial and alluvial deposits with Harrison Gneiss underlying. The Site is underlain by medium grained sand and fill.

## 3.0 OFF-SITE INVESTIGATION

### 3.1 Objectives

The objective of the Off-site investigation is to determine the nature, extent and potential sources of impacted soil vapor near the Site. The scope of the investigation includes installation of temporary soil vapor points, sub-slab soil vapor, indoor air, and outdoor air sample collection.

### 3.2 Off-Site Access

Nine buildings have been selected for the off-site soil vapor intrusion evaluation. The addresses are listed below:

- 37-31 32nd Street
- 37-29 32nd Street
- 37-27 32nd Street
- 37-21 31st Street
- 37-11 30th Street
- 37-36 31st Street & 37-40 31st Street
- 31-01 38th Avenue
- 31-17 38th Avenue

First, letters will be sent via U.S. certified mail to each of the properties listed above requesting permission to perform this soil vapor intrusion sampling. A Property Access Agreement will be included with each letter. If permission is not granted as per the letter, CA RICH will visit each property in an attempt to speak with each tenant and/or owner about gaining access. Lastly, if permission is not granted, CA RICH will confer with NYSDEC about the NYSDEC helping in obtaining access to these properties. Should permission then be granted by the property owner, a walk through inspection will be completed to inventory any chemicals stored within the area of the proposed sampling, then a temporary sub-slab soil vapor sampling point will be installed in the basement, or the lowest floor level.

### 3.3 Sampling Point Installation and Sampling

During the heating season, four temporary soil vapor samples will be collected beneath the sidewalks surrounding the Site. In addition, ten sub-slab soil vapor sample locations have been proposed. Pending access to the ten locations, temporary sub-slab soil vapor points will be installed. All points will be installed utilizing a Bosch™ Hammer Drill in accordance with the NYSDOH “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” dated October

2006. Concurrently co-located indoor air samples will be taken with all sub-slab vapor samples. In addition, at least one outdoor air sample will be collected per day of sampling in accordance with New York State Department of Health, "Guidance for Evaluation Soil Vapor Intrusion in the State of New York" dated October 2006.

The sub-slab/soil vapor points will be constructed of a six-inch long stainless steel screen connected to ¼-inch poly-tubing. The annular space will be packed with coarse sand, creating a sampling zone two inches beneath the existing concrete slab/sidewalk. A clay seal will then be placed at the surface of the concrete.

One sample will be collected from each temporary sampling point at least 24-hours after installation. Concurrently four indoor air and four outdoor air samples will be collected. The indoor air samples will be collected from inside the neighboring structures if permission is granted. The indoor air sample locations may vary based on site access.

Prior to sampling, one to three volumes of soil gas will be purged from the soil vapor point using a calibrated air sampling pump. A bucket will be placed over the sample assembly and helium gas will be used to enrich the atmosphere around the sample location in combination with real-time air monitoring (for helium) to verify that ambient air was not infiltrating the sampling assembly during purging and sampling.

Once confirmed that ambient air is not being drawn into the assembly, the soil vapor will be screened for the presence of VOCs using a Photo-Ionization Detector (PID). After field screening is completed, the tubing will be connected to the SUMMA canister and a sample will be collected. The SUMMA canister regulators for the soil vapor, indoor air and outdoor air samples will be set to restrict the sample collection to not exceed 0.2 liters per minute over a 24-hour-time period for sub-slab sample locations and an eight-hour period for samples located in the sidewalks. The canisters will be submitted to a NYSDOH-certified laboratory for analysis of VOCs via EPA method TO-15 under chain-of-custody documentation.

Soil vapor point installation logs will be generated and will be included as an Appendix in the Off-Site Investigation Report. The logs will contain any local condition(s) that occurred during the sampling that may influence interpretation of the results (ie. weather). The proposed sampling locations are illustrated on Figure 2.

### 3.4 Sampling QA/QC Protocol

Field notes including observations of soil conditions, pertinent observations, diagrams (if appropriate) will be maintained and appropriate photographs will be taken. A record of each sample, including any pertinent observations about the sample, will be kept in a field notebook and/or appropriate logs and copies will be included within the Off-Site Investigation report.

Samples will be collected in laboratory-issued SUMMA canisters by CA RICH personnel and stored and shipped to CA RICH's subcontracted State-certified laboratory. Additional field and laboratory QA/QC protocols are included in the Site QAPP, which is included as an Appendix to the approved RIWP.

### 3.5 Health & Safety

A site-specific Health and Safety Plan (HASP) has been prepared and approved for the field portion of the Investigation. The HASP covers all activities, as well as emergency procedures and available emergency services in proximity to the Site. All proposed work discussed in this Work Plan will be conducted in accordance with the HASP, which is included as an Appendix to the approved RIWP.

### 3.6 Updated Key Personnel

| Responsibility | Name and Phone Number | Task Description |
|---|---|---|
| Client Representative | Fredric Oliver (516) 816-9944 | Volunteer |
| Project Manager | Victoria Whelan (516) 576-8844 | Oversee and coordinate all technical aspects for the project |
| Site Safety Officers: | Jason Cooper (516)576-8844<br>William Fitchett (516)576-8844 | Coordinate and inspect all health and safety operations from the project site |

Project Manager Alternate: Richard Izzo (516) 576-8844

Site Safety Officer Alternate: Jessica Proscia (516) 576-8844

Analytical Laboratory: Accutest Laboratories: Matt Cordova (732) 329-0200

Laboratory Validation: L.A.B Validation Corp. Lori Beyer (516) 523-7891

Updated resumes are attached in Appendix A.

### 3.7 Off-Site Investigation Report

Once the laboratory results are obtained and verified, an Off-Site Investigation report will be prepared for the NYSDEC. At a minimum, the Report will include the following items:

- A description of the work performed;
- Chemical inventories;
- Soil vapor point construction details;
- Laboratory summary tables compared to applicable guidance values;
- Maps including sampling locations;
- NYSDEC Electronic Data Deliverable (EDD);
- A Data Usability Summary Report including the laboratory data; and,
- Conclusions and Recommendations

## 4.0 SCHEDULE

| Activity | Time to Complete |
|---|---|
| Submittal an Off-site Soil Vapor Investigation Work Plan | October 7, 2016 |
| DEC issues approval letters for RAWP | October 2016 |
| Issue Construction Notice Fact Sheet | November 2016 |
| Submission of Contractor Submittals | December 2016 |
| Implement the DEC approved Off-site Investigation | December - January 2017 |
| Begin redevelopment (construction) along with Implementation of RAWP | January 2017 |
| Off-Site Investigation Report Submittal | February 2017 |
| Completion of Remedial Activities | April 2017 |
| Final Engineering Report Submittal | June 2017 |
| Final Engineering Report approval and Fact Sheet | July 2017 |
| Certificate of Completion and Fact Sheet | December 2017 |
| Completion of Building | August 2018 |

## 5.0 REFERENCES

1. NYSDEC, May 2004, Draft Brownfield Cleanup Program Guide

2. NYSDEC, December 2002, Draft DER-10 Technical Guidance for Site Investigation and Remediation.

3. NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

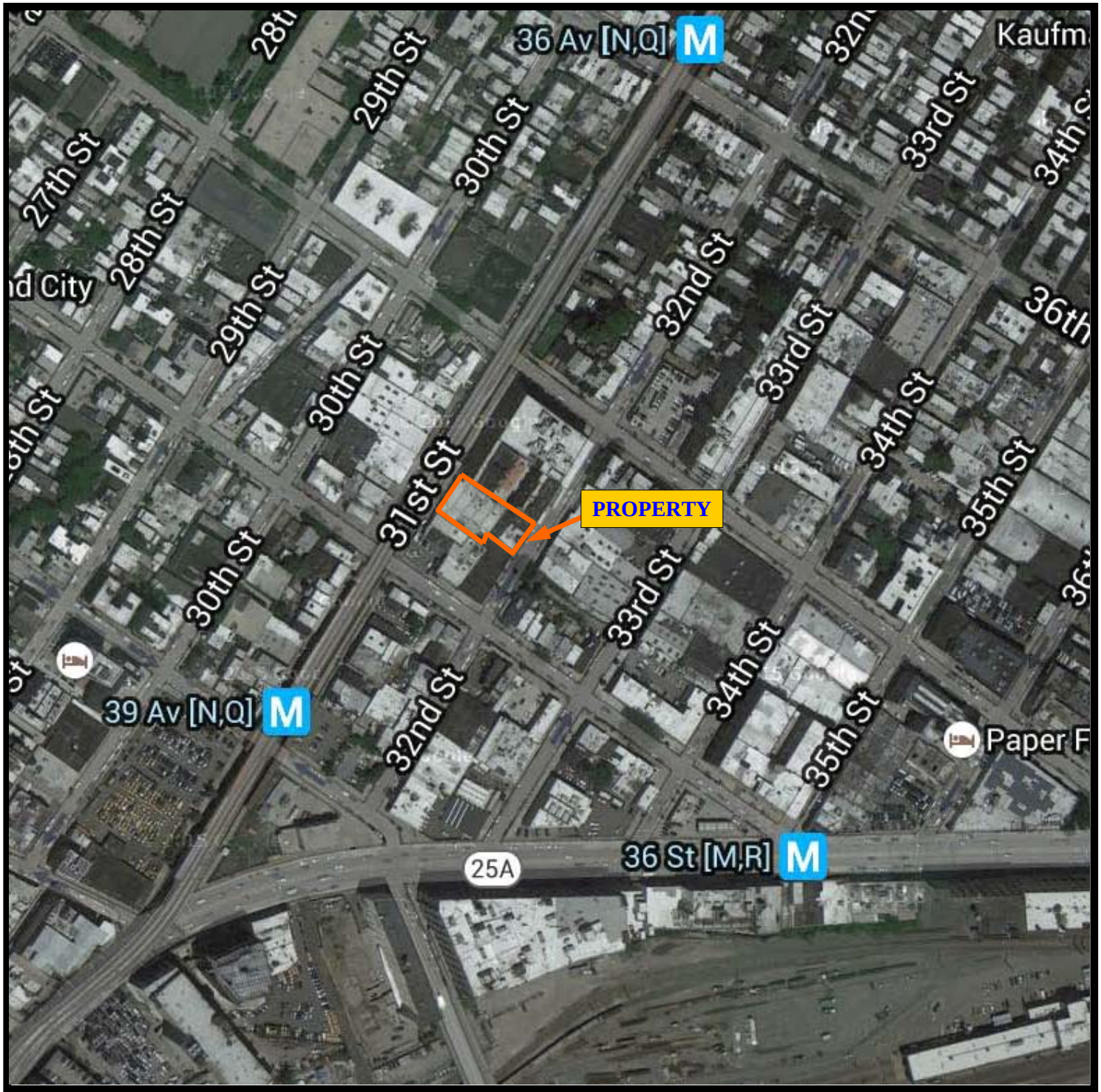
4. CA RICH Consultants, Inc., Remedial Investigation Work Plan, 37-27 31st Street and 37-26 32nd Street, Queens, NY, April 2016.

5. GZA Geo Environmental, Inc., Limited Remedial Investigation Report, 37-27 31st Street and 37-26 32nd Street, Long Island City, NY, February 2015.

6. CA RICH Consultants, Inc., Remedial Investigation Report, 37-27 31st Street and 37-26 32nd Street, Queens, NY, October 2015.

7. CA RICH Consultants, Inc., Remedial Investigation Report, 37-25 31st, Queens, NY, June 2016.

# FIGURES




Approx. Scale (ft)

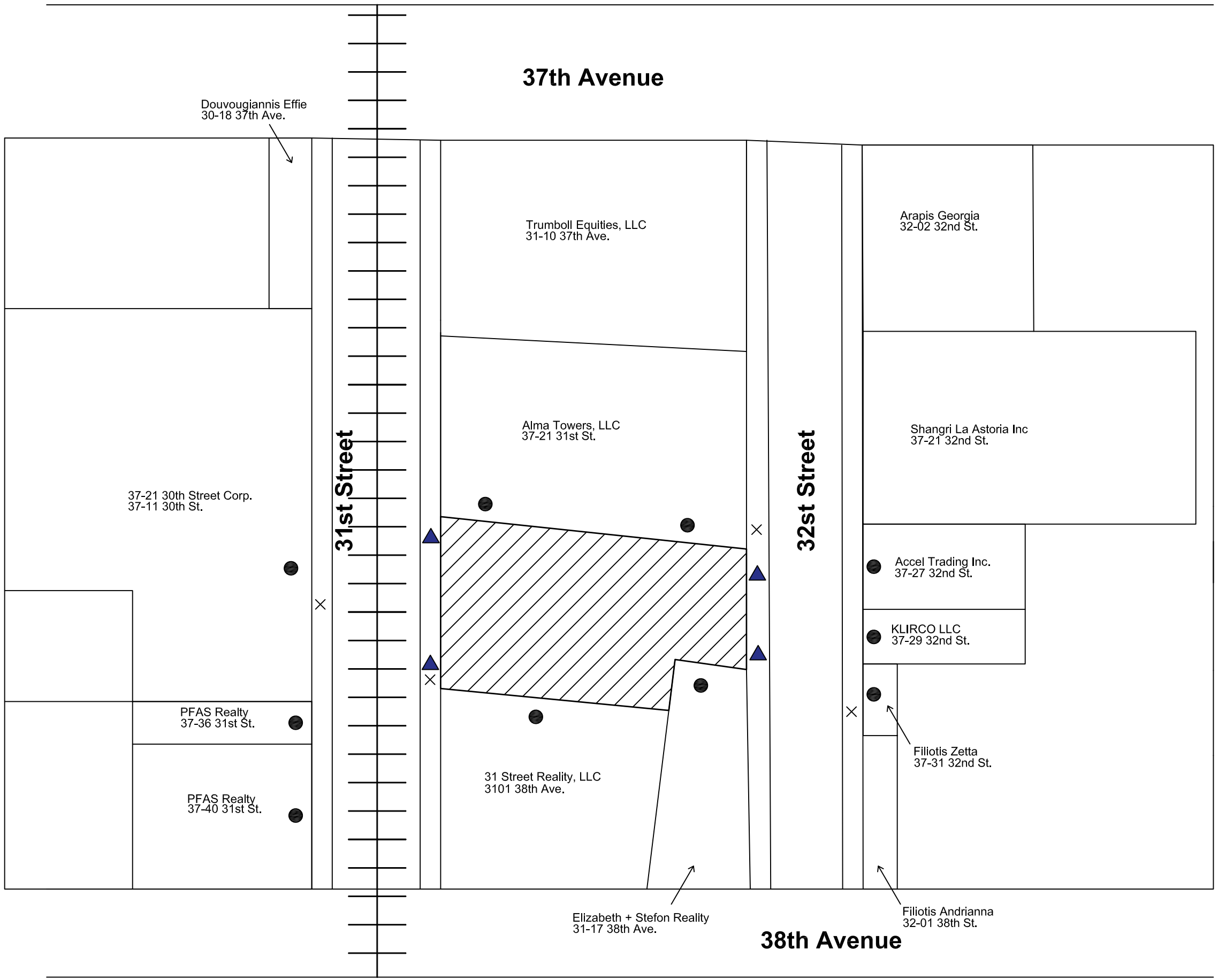
0 100 200 300

N

*Adapted from Google Maps*

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

| | |
|---|---|
| TITLE: **Property Location Map** | DATE: **6/6/2016** |
| | SCALE: |
| FIGURE: **1** | DRAWN BY: **TRB** |
| DRAWING: | **37-25 31st Street Queens, New York** |
| | APPR. BY: **VW** |




Legend

- Brownfield Site
- MTA Subway Line
- Shangri La Astoria Inc, 3721 32nd St. — Owner Address
- Sub-Slab Soil Vapor Sample with co-located indoor air sample
- Outdoor Air Sample
- Soil Vapor Sample

Approx. Scale (ft)

0 50 100 200

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

| | | |
|---|---|---|
| TITLE: Proposed Off-Site Soil Vapor Evaluation Sample Locations | | DATE: 10/4/2016 |
| | | SCALE: AS SHOWN |
| FIGURE: 2 | 37-25 31st Street Queens, NY | DRAWN BY: H.R./T.R.B. |
| DRAWING NO: 2016-15 | | APPR. BY: V.W. |

s\31 32 LIC\VW attempt2016-15

# Appendix A

# RICHARD J. IZZO, CPG

- **TITLE**

  Associate

- **EDUCATION**

  Bachelor of Science, Geology, State University of New York at Oneonta, 1985

- **CERTIFICATIONS AND REGISTRATIONS**

  AIPG Certified Professional Geologist No. 9644
  Hazardous Waste Operations & Emergency Response Supervisor (29 CFR 1910.120)
  Health & Safety Operations at Hazardous Materials Sites (29 CFR 1910.120)

- **PROFESSIONAL AFFILIATIONS**

  Association of Groundwater Scientists and Engineers
  American Society for Testing and Materials (ASTM)

- **PROFESSIONAL EXPERIENCE**

  Associate, CA Rich Consultants, Inc., 1985 - Present

  Mr. Izzo possesses over twenty five years experience in the design, implementation, and management of environmental testing and remediation programs throughout the Tri-State Area. Examples of these programs include a NYSDEC Brownfields Investigation in Bushwick, NY, a Remedial Investigation for a Superfund Site in Maybrook, NY and a NYSDEC Phase II investigation in Croton-on-Hudson, NY. His responsibilities included design of monitoring well networks, including well location and depth selection; supervision of drilling and well installation; design of sampling and analysis programs including sampling methodology, protocol, and analytical parameters; sampling of soil, groundwater, surface water, ambient air, soil vapor, building materials, and interior radon testing; data reduction (including interpretation of laboratory results, determination of ground water flow direction and rate), and preparation of written reports; interface between responsible parties and regulatory agencies.

  Mr. Izzo has designed, implemented, and managed several remediation programs in the Tri-State Area including a NYSDEC Voluntary Cleanup of a former decal manufacturing facility in Mount Vernon, NY to restore the site to “unrestricted usage” conditions. Mr. Izzo has managed remedial investigative testing and analysis as well as conceptual design of active soil vapor extraction and groundwater treatmant systems. In addition, Mr. Izzo has participated in the design and implementation of passive and active floating product removal systems utilizing pump and treatment methods, oil-sorbent materials and oxygen-releasing products to remove light non-aqueous phase liquids (LNAPLS) and enhance natural bioremediation of dissolved hydrocarbons. Additional remedial action programs managed by Mr. Izzo include removal, testing and proper disposal of abandoned underground storage tanks, as well as contaminated soils and water at a US Postal Service construction site in Manhattan; and identification, testing, excavation and proper disposal of over 7,000 tons of hydrocarbon-impacted soils under a NYSDEC consent Order at a Suffolk County, NY former industrial property as part of site re-development into a residential community.

Mr. Izzo implemented quarterly water quality monitoring program at a New Jersey Site contaminated with chlorinated hydrocarbons. As part of this project, he directed testing and remedial activities including excavation and disposal of contaminated soil based on soil vapor screening with real-time vapor monitoring equipment; removal and disposal of buried 1000 gallon storage tank; removal of contaminated groundwater through installation of small scale recovery well system. In addition, Mr. Izzo assisted in the design of a pilot-scale pump and treatment operation involving the installation of an air stripper to mitigate volatile organic contamination in shallow groundwater.

Mr. Izzo designed, authored, and assisted in the implementation of a Site Health and Safety Plan for the construction and eventual occupation of a United States Postal Service General Mail Facility/Vehicle Maintenance Facility on a former landfill in Brooklyn, NY. Mr. Izzo assisted in development of the Firm's Phase I and Phase II assessment capabilities, and currently serves as the Firm's Environmental Assessment Manager. Related responsibilities include technical and budgetary management of Phase I/Phase II capabilities, as well as assessment sales and client liaison.

Mr. Izzo managed and participated in several ground water resource investigations for potential developers in Westchester, Putnam, and Dutchess Counties in New York. His experience includes seismic profiling, fracture trace analysis, selection of test well locations, supervision of test well installation, design and implementation of 24, 48 and 72-hour pumping tests, as well as reduction and analysis of pumping test data. Mr. Izzo managed a hydrogeologic investigation in support of a ground water allocation permit application for a golf course in Monmouth County, New Jersey. His responsibilities included a drainage basin recharge estimate, analysis of pumping test data and a computer model assessing pumpage impacts to surrounding wells. Additional related responsibilities included preparation of written report and expert testimony at a NJDEP hearing.

Mr. Izzo designed and implemented a town-wide ground water resource management study for the Town of North Castle, New York. This study included mapping of stratified drift and fracture bedrock aquifers, analysis of hydrogeologic information from existing well inventory, development of water budget and estimate of current and potential future ground water resource demand. Mr. Izzo managed a water resource feasibility study for a golf course DEIS application in northern Westchester County. Activities included determination of irrigation requirements and ground water resource exploration. In addition, Mr. Izzo designed and managed a hydrogeologic assessment for a community water supply system in Westchester County. Activities include determination of normal well system operation impacts on nearby surface water bodies, and prediction of well interference effects through utilization of computer modeling.

- **PUBLICATIONS**

Izzo, Richard J. *"Buyer Beware: User Responsibilities under All Appropriate Inquiry Standards"* New York Real Estate Journal; December 2007

Izzo, Richard J. & Rich, Charles A. "*Monitored Natural Attenuation is not NO ACTION"* Long Island Business News; April 1999

Izzo, Richard J. *"Lead Based Paint Risk and Risk Management"*
Long Island Business News, New England Real Estate Journal; May 1993

## JASON T. COOPER, B.S.

- **TITLE**

  Project Environmental Scientist

- **EDUCATION**

  Bachelor of Science, Geology, State University of New York at Buffalo, 1999

- **CERTIFICATIONS**

  40-hour OSHA Hazardous Waste Operations and Emergency Response Training (OSHA 29 CFR 1910.120)
  8-hour OSHA Hazardous Waste Operations and Emergency Response Refresher Training
  Standard First Aid Training - American Red Cross
  CPR Training – American Red Cross

- **PROFESSIONAL AFFILIATIONS**

  Long Island Association of Professional Geologists (LIAPG)

- **PROFESSIONAL EXPERIENCE**

  Project Environmental Scientist, C A Rich Consultants, Inc., 2005 - Present

  As a Project Environmental Scientist with CA RICH, Mr. Cooper's responsibilities include the conductance of Phase I and Phase II Environmental Site Assessments (ESAs). Jason's Phase I and Phase II ESA experience includes coordinating historical and regulatory database searches, conducting Property inspections, collecting soil, groundwater, and sediment samples and authoring Phase I and Phase II reports.

  Mr. Cooper has also assisted with the construction and start-up tests for an air sparge/soil vapor extraction (AS/SVE) system for the remediation of PCE contamination. In addition, he has conducted quarterly monitoring and troubleshooting for the AS/SVE system.

  Mr. Cooper also conducts annual property inspections for the highly successful Tenant Environmental Compliance Program, which helps to ensure that the tenants are not contaminating a landlord's properties. This Program now covers almost two million square feet of multi-tenanted buildings on Long Island, NY.

  Geologist, Geologic Services Corporation, 2001 - 2005

  As a Geologist with Geologic Services Corporation, Mr. Cooper's responsibilities included the authoring of quarterly monitoring reports, sub-surface investigation reports, and sensitive receptor survey reports. In addition he has conducted monitoring well installation oversight with logging and sampling, remediation system maintenance, well surveying, groundwater sampling, 24-hour pump tests, equipment maintenance and peer mentoring.

  Mr. Cooper developed and implemented a program for the management and oversight for the collection of over 1,000 groundwater samples for a retail gasoline station in Smithtown, New York. His duties included the training of

personnel, management and QA/QC of samples, and meeting monthly deadlines. In addition, he conducted monthly mass flux calculations, MTBE vertical cross-section contour maps, vertical cross-section groundwater flow maps (flow nets), and aerial groundwater flow maps.

Jason has also assisted with the construction of a groundwater pump and treat remediation system and determined the most affective locations for the submersible pumps for maximum contamination recovery.

Jason has completed the ExxonMobil Loss Prevention Safety (LPS) program and participated in monthly Health and Safety meetings. Jason conducted health and safety oversight of drilling activities, tank cleanings and removals and soil removal. The LPS and health and safety programs were implemented in the field by Jason as a health and safety officer with zero incidences.

Field Technician, Environmental Assessment and Remediation (EAR) 2000 - 2001

As a field technician with EAR, Mr. Cooper's responsibilities included the construction of remediation systems, operations and maintenance along with troubleshooting of remediation systems, groundwater sampling, air sampling and well abandonment.

## VICTORIA D. WHELAN

- **TITLE**

  Project Hydrogeologist

- **EDUCATION**

  Bachelor of Science, Geology, State University of New York at Oswego, 2005

- **CERTIFICATIONS**

  40-hour OSHA Hazardous Waste Operations and Emergency Response Training (OSHA 29 CFR 1910.120)
  Standard First Aid Training - American Red Cross- Bohemia Fire Department
  CPR Training – American Red Cross -Bohemia Fire Department

- **PROFESSIONAL EXPERIENCE**

  Project Hydrogeologist, C A Rich Consultants, Inc., 2006 - Present

  As a Project Hydrogeologist with CA RICH, Ms. Whelan's responsibilities include the conductance of Phase I and Phase II Environmental Site Assessments (ESAs). Ms. Whelan has also conducted all aspects of environmental investigations including monitoring well design/installation, groundwater, indoor air, soil gas, subslab vapor, and soil sampling, UST removals, soil delineation, excavation, petroleum and hazardous waste disposal, analytical interpretation, groundwater contouring, and report preparation.

  Ms. Whelan conducts annual property inspections for the highly successful Tenant Environmental Compliance Program, which helps to ensure that the tenants are not contaminating a landlord's properties. This Program now covers almost two million square feet of multi-tenanted buildings on Long Island, NY.

  Project Hydrogeologist, Walden Associates, P.L.L.C, 2005 - 2006

  As a Hydrogeologist with Walden Associates, Ms. Whelan's responsibilities included the quarterly monitoring report write ups, sub-surface investigation reports, monitoring well installation oversight with logging and sampling, remediation system maintenance, well surveying, groundwater sampling, and free product recovery.

  Ms. Whelan assisted with the start-up tests and monitoring for an air sparge/soil vapor extraction (AS/SVE) system for the remediation of PCE contamination on a Federal Superfund site.

- **PROFESSIONAL AFFILIATIONS**

  National Ground Water Association, member
  *Sigma Xi*, member

- **PUBLICATIONS**

Andrews, J., and **Whelan, V.,** Department of Earth Sciences, State University of New York at Oswego NY 13126, Ordovician Carbonates in Northwest Lewis and parts of Southeastern Jefferson counties, New York Northeastern Section and Southeastern Section joint Meeting

- **FIELD RESEARCH FOR PAPER CONTRIBUTIONS**

Bauer, M., Valentino, D., Chiarenzelli, J., Solar, G., Department of Earth Sciences, State University of New York at Oswego, NY 13126, Metamorphic Petrology and Unit Distribution in The Oliver hill Dome, Eastern Adirondack Mountains, New York, Northeastern Section and Southeastern Section joint Meeting

Smith, N., Valentino, D., Chiarenzelli, J., Solar, G., Department of Earth Sciences, State University of New York at Oswego, NY 13126, Distribution of L- and L-S Tectonite in the Oliver Hill Dome, Eastern Adirondack Mountains, New York, Northeastern Section and Southeastern Section joint Meeting

Stilwell, S., Garwron, J., Andrews, J., Bauer, M., Crocetti, A., Meneilly, N., Piaschyk, D., Smith, N., and **Whelan, V.,** Earth Sciences, SUNY Oswego, Oswego, NY 13126, Fracture analysis along the southern shore of Lake Ontario in the Oswego Formation, Oswego County, New York, Northeastern Section and Southeastern Section joint Meeting

## JESSICA E. PROSCIA, B.S.

- **TITLE**

  Project Environmental Scientist

- **EDUCATION**

  Bachelor of Science, Health Science, Environmental Health and Safety, State University of New York at Stony Brook, 2007

- **CERTIFICATIONS**

  40-hour OSHA Hazardous Waste Operations and Emergency Response Training (OSHA 29 CFR 1910.120)
  8-hour OSHA Hazardous Waste Operations and Emergency Response Refresher Training
  Standard First Aid Training - American Red Cross
  CPR Training – American Red Cross

- **PROFESSIONAL EXPERIENCE**

  Project Environmental Scientist, C A Rich Consultants, Inc., Oct. 2008 – Present

  As a Project Environmental Scientist with CA RICH, Ms. Proscia's responsibilities include the conductance of Phase I and Phase II Environmental Site Assessments (ESAs). Ms. Proscia has also conducted all aspects of environmental investigations including UST removals, supervision of drilling and well installation, sanitary system or dry well clean-outs, groundwater, and soil sampling, soil delineation, excavation, petroleum and hazardous waste disposal, analytical interpretation, groundwater contouring, and report preparation.

  Environmental Scientist/Health and Safety Officer, Hydro Tech Environmental, Corp., 2007 - 2008

  As an Environmental Scientist with Hydro Tech Environmental, Ms. Proscia's responsibilities included Phase I ESA's through Subsurface Investigations. Ms. Proscia was also involved in site supervision on several properties in New York State.

  Ms. Proscia performed on site safety inspections for the company's field crew as well as trained staff for the OSHA 40-hour and 8-hour refresher course.

- **PROFESSIONAL AFFILIATIONS**

  Long Island Association of Professional Geologists (LIAPG)

# WILLIAM FITCHETT

- **TITLE**

  Staff Environmental Scientist

- **EDUCATION**

  Bachelor of Science, Environmental Science, State University of New York at Oneonta, 2014

- **CERTIFICATIONS AND REGISTRATIONS**

  Health & Safety Operations at Hazardous Material Sites; 29 CRF 1910.120

- **PROFESSIONAL AFFILIATIONS**

  Long Island Association of Professional Geologists

- **PROFESSIONAL EXPERIENCE**

  Staff Environmental Scientist, CA Rich Consultants, Inc., 2014- Present

  Mr. Fitchett has supervised numerous subsurface investigations on Long Island and throughout the five Boroughs of NYC. He is well versed in the collection of soil samples, soil vapor samples and groundwater samples in accordance with accepted industry standards. William regularly works with many local contractors employing the use of drill rig and excavating equipment for the collection of subsurface samples.

  He is also proficient with the performance of Phase I and II Environmental Site Assessments (ESA) following the procedures outlined in the ASTM standard for these assessments and in the recognition of Recognized Environmental Conditions (RECs).

# *L.A.B. Validation Corp.*
# *Qualification Summary*

## *Services Overview*

L.A.B. Validation is an independent outside source that evaluates data integrity, compliance and usability. L.A.B Validation utilizes the USEPA National Functional Guidelines, as well as other program specific requirements supplied by the client. L.A.B. Validation has a dedicated office facility and secure data storage area. Projects are scheduled and completed within client specified deadlines. Reports are issued via hardcopy and or fax/email/disk deliverables. L.A.B. Validation Corp. operates under Employer Identification Number 58-238-1714 and maintains General Liability Insurance for all projects.

## *Personnel Overview*

L.A.B. Validation has a unique blend of technical expertise and environmental laboratory operational experience. Ms. Beyer has 25 years of progressive positions that required analytical and QA working knowledge. She is well versed in Organic and Inorganic analyses and the associated USEPA requirements as well as other Federal Agency (i.e. USCOE) and State regulations. She has completed data validation training for both Organic and Inorganic analyses (see attached Certificates).

## *References*

Mr. Scott Haas
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4960 Corporate Drive, Suite 140
Huntsville, AL 35805
Phone (256) 830-4100
**Program:** US NAVY RAC

Mr. Chris Candela
Clean Tech
2700 Capitol Trail
Newark, DE 19711
Phone (302) 999-0925
**Program:** USACOE

Mr. David Allen
The Kevric Company, Inc.
Silver Spring Metro Plaza One
8401 Colesville Road, Suite 610
Silver Spring, Maryland 20910
**Program:** US NAVY RAC

Mr. Andy Coenen
Environmental Resources Management
510 Broadhollow Road, Suite 210
Melville, New York 11747
Phone (631) 756-8900
**Program: NYSDEC RI/FS**

Mr. Steve Malinowski
CA Rich Consultants
17 Dupont Street
Plainview, New York 11771
Phone (516) 589-0093
**Program:** USEPA/NYSDEC SUPERFUND

Mr. Carl Hsu
Tetratech, Inc.
58 West Main Street
Christiana, DE 19702
Phone (302) 738-7551
**Program:** USACOE

Mr. Joseph Heaney
Walden Associates
16 Spring Street
Oyster Bay, New York 11771
Phone (516) 624-7200
**Program:** NYSDEC

Mr. Dan Palmer
Modern Continental Construction Co., Inc.
950 Fountain Avenue
Brooklyn, New York
**Program:** NYCDEP

# L.A.B. Validation Corp., 14 West Point Drive, East Northport, New York 11731

## Lori A. Beyer

SUMMARY: General Manager/Laboratory Director with a solid technical background combined with Management experience in environmental testing industry. Outstanding organizational, leadership, communication and technical skills. Customer focused, quality oriented professional with consistently high marks in customer/employee satisfaction.

## EXPERIENCE:

1998-Present L.A.B. Validation Corporation, 14 West Point Drive, East Northport, NY
**President**

- Perform Data Validation activities relating to laboratory generated Organic and Inorganic Environmental Data.

1998-Present American Analytical Laboratories, LLC. 56 Toledo Street, Farmingdale, NY
**Laboratory Director/Technical Director**

- Plan, direct and control the operation, development and implementation of programs for the entire laboratory in order to meet AAL's financial and operational performance standards.
- Ensures that all operations are in compliance with AAL's QA manual and other appropriate regulatory requirements.
- Actively maintains a safe and healthy working environmental that is demanded by local laws/regulations.
- Monitors and manages group's performance with respect to data quality, on time delivery, safety, analyst development/goal achievement and any other key performance indices.
- Reviews work for accuracy and completeness prior to release of results to customers.

1996-1998 Nytest Environmental, Inc. (NEI) Port Washington, New York
**General Manager**

- Responsible for controlling the operation of an 18,000 square foot facility to meet NEI's financial and operational performance standards.
- Management of 65 FTEs including Sales and Operations
- Ensure that all operations are in compliance with NEI's QA procedures
- Ensures that productivity indicators, staffing levels and other cost factors are held within established guidelines
- Maintains a quantified model of laboratory's capacity and uses this model as the basis for controlling the flow of work into and through the lab so as to ensure that customer requirements and lab's revenue and contribution targets are achieved.

1994-1996 Nytest Environmental, Inc. (NEI) Port Washington, New York
**Technical Project Manager**

- Responsible for the coordination and implementation of environmental testing programs requirements between NEI and their customers
- Supervise Customer Service Department
- Assist in the development of major proposals
- Complete management of all Federal and State Contracts and assigned commercial contracts
- Provide technical assistance to the customer, including data validation and interpretation
- Review and implement Project specific QAPP's.

1995-1996 Nytest Environmental, Inc. (NEI) Port Washington, New York
**Corporate QA/QC Officer**

- Responsible for the implementation of QA practices as required in the NJDEP and EPA Contracts
- Primary contact for NJDEP QA/QC issues including SOP preparation, review and approval
- Responsible for review, verification and adherence to the Contract requirements and NEI QA Plan

1992-1994 Nytest Environmental, Inc. (NEI) Port Washington, New York
**Data Review Manager**

- Responsible for the accurate compilation, review and delivery of analytical data to the company's customers. Directly and effectively supervised a department of 22 personnel.
- Managed activities of the data processing software including method development, form creation, and production
- Implement new protocol requirements for report and data management formats
- Maintained control of data storage/archival areas as EPA/CLP document control officer

1987-1991 Nytest Environmental, Inc. (NEI) Port Washington, New York
**Data Review Specialist**

- Responsible for the review of GC, GC/MS, Metals and Wet Chemistry data in accordance with regulatory requirements
- Proficient with USEPA, NYSDEC, NJDEP and NEESA requirements
- Review data generated in accordance with SW846, NYSDEC ASP, EPA/CLP and 40 CFR Methodologies

1986-1987 Nytest Environmental, Inc (NEI) Port Washington, New York
**GC/MS VOA Analyst**

## EDUCATION:

**1982-1985 State University of New York at Stony Brook, New York; BS Biology/Biochemistry**
**1981-1982 University of Delaware; Biology/Chemistry**
**5/91 Rutgers University; Mass Spectral Data Interpretation Course, GC/MS Training**
**8/92 Westchester Community College; Organic Data Validation Course**
**9/93 Westchester Community College; Inorganic Data Validation Course**

# Westchester Community College

## Professional Development Center

Awards this Certificate of Achievement To

LORI BEYER

for Successfully Completing

ORGANIC DATA VALIDATION COURSE (35 HOURS)

Dr. John Samuelian

Date AUGUST 1992

Assistant Dean
Professional Development Center

President

The Professional
Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

# Westchester Community College

## Professional Development Center

Awards this Certificate of Achievement To

LORI BEYER

for Successfully Completing

INORGANIC DATA VALIDATION

Instructor: Dale Boshart

Date MARCH 1993

Assistant Dean
Professional Development Center

President

The Professional
Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

# State University of New York

## State University at Stony Brook

On the Recommendation of the Faculty and by Virtue of the Authority vested in them the Trustees of the University have conferred on

**Lori Ann Isenberg**

the Degree of

**Bachelor of Science**

and have granted this Diploma as evidence thereof
Given at Stony Brook, in the State of New York, in the United States of America on the twentieth day of December one thousand nine hundred and eighty-five.

Chairman of the Board of Trustees

Chairman of the Council,
State University at Stony Brook

STATE UNIVERSITY OF NEW YORK - TO LEARN - TO SEARCH - TO SERVE - 1948

Chancellor of the State University of New York

President,
State University at Stony Brook

ACCUTEST
LABORATORIES

# Accutest Laboratories

## Statement of Qualifications and Experience 2012

LabLink℠
REAL-TIME ACCESS TO YOUR TEST DATA

ACCREDITED IN ACCORDANCE WITH
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ACCUTEST LABORATORIES

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# Our Mission

To **SAFELY** produce **quality** data that is accurate, timely and of the highest **integrity.**

To provide **service** that consistently exceeds our clients' expectations.

To continuously improve our **performance** by developing and implementing the latest **technology.**

To achieve steady **growth** benefiting our clients, our employees and our company.

ACCUTEST LABORATORIES

Total Performance You Can Count On

ACCUTEST LABORATORIES

# Section 1

## Introduction

## Overview

Accutest Laboratories is a nationwide environmental testing laboratory that has successfully delivered defensible data for over 50 years. Founded in 1956, Accutest is the **nation's 3rd largest environmental testing laboratory combining advanced technology and experienced personnel to deliver "Total Performance You Can Count On".** Our commitment is to provide our clients with appropriate test methods that meet the most stringent quality standards in the environmental testing industry.

Headquartered in Dayton, New Jersey, Accutest operates from state-of-the-art, integrated laboratories in New Jersey, Massachusetts, Florida, Texas, Louisiana, Colorado, and California. **The Company operates over 220,000 square feet of total laboratory space.** Accutest maintains ten fully-staffed Service Centers conveniently located in New York, Pennsylvania, North Carolina, Louisiana, Illinois, Colorado, California, and Arizona. Accutest has a fleet of courier services for sample pickup and container delivery within a 100-mile radius of its laboratories. We also provide contract courier services nationwide.

Accutest provides reliable and comprehensive testing services including organic and inorganic analysis of air, water, soil, waste characterization, petroleum forensics, gas fractioning, energetics and explosives, and emerging contaminants to industrial, consulting/engineering and government clients in support of Federal and State Environmental Programs. **Accutest's extensive Federal and State regulatory experience** provides clients with the required expertise to assist in the development of analytical protocols and sampling and analysis plans.

Our staff consists of over **629 professionals** including chemists, biologists, chemical engineers, computer scientists, technicians, and support personnel. The Accutest senior management team averages over 16 years experience with the company. This translates into the environmental expertise that clients have come to rely on.

The National Environmental Laboratory Accreditation Program (NELAP) forms the foundation of our stringent **Corporate Quality Assurance Program**. This enables Accutest to hold multi-state accreditations and certifications that conform to a National standard. Accutest has also received Department of Defense Environmental Laboratory Accreditation (DoD ELAP) and ISO/IEC 17025:2005 Certificate of Accreditation from the Laboratory Accreditation Bureau (L-A-B) to perform environmental testing in support of environmental restoration programs.

LabLink[SM], the most comprehensive data retrieval and information management system in the industry, provides real-time data resources that enables clients to generate electronic data deliveries on demand 24/7/365 days a year.

## Overview (continued)

Through LabLink[SM], **Accutest manages an extensive historical database of more than 915 million archived test results** which can be easily searched and retrieved.

Accutest's quality of service consistently exceeds our client's expectations. This is exemplified by the fact that **85% of our business is from repeat clients**. Accutest participates in National Corporate Analytical Programs which are routinely audited by independent third parties. Through steady, carefully managed growth, leading technology, and outstanding service, Accutest provides quality data of the highest integrity that is delivered reliably and uniformly to clients nationwide.

## Client Services and Project Management

Accutest provides services that consistently exceed our clients' expectations. Our primary objective is to create and maintain long-term relationships with a dedication to quality, client services, technology and strong, consistent project management. We take great pride in our customer focus and the ability of our highly qualified staff to provide consistent, accurate information and support to the clients we serve.

Serving clients' needs and striving to find better ways to fulfill those needs has been the heart of Accutest since 1956. Our philosophy "Total Performance You Can Count On" is our promise to deliver the best customer service in the industry. Our clients can count on us to be there to address and resolve the challenges which they face.

We strive to enhance communications and teamwork through a work environment dedicated to continuous process evaluation, redesign and improvement. Our project managers have a sense of ownership which fosters their commitment to total customer satisfaction.

Clients are assigned to project managers who become their advocates and their dedicated representatives and contacts for all analytical inquiries. The assigned project manager ensures that client expectations and program objectives are met by obtaining a thorough understanding of all relevant technical and contractual requirements.

Effective and timely communication develops trusted client partnerships, which in turn leads to successful project outcomes. Our project managers are committed to delivering the full measure of our expertise to ensure complete client satisfaction with each and every Accutest service. Project managers understand through experience that successful completion of every project requires up-front planning. Accutest's Life Cycle of Project Management Services is exhibited by the following flow diagram.

ACCUTEST LABORATORIES

## *Life Cycle of Project Management Services*

| | |
|---|---|
| **Project Initiation** | The client's decision to employ Accutest is the first step in the project lifecycle. Upon contacting Accutest, a project manager is assigned to the client who coordinates all project phases. |
| **Specifications Defined** | Project specifications originate from QAPPs, RFPs, work plans and other related documents. Accutest representatives provide the client with technical assistance, translating their specifications into clear laboratory instructions. |
| **Project Setup & Bottle Configuration** | Once the specifications are defined, the setup process begins. The representative develops a schedule with the client and generates the bottle order configuration to match the analytical specifications. |
| **Bottle Order & Sample Pickup** | Bottle kits are delivered to the client's site in advance of sampling. Accutest employs local courier services for most clients or commercial carriers when the site is beyond the courier's service range. |
| **Chain-of-Custody & Login Review** | Upon arrival at the laboratory, all samples are thoroughly checked to assure regulatory integrity. Chain-of-Custody information is translated to electronic login information and compared to the project specifications. |
| **Status Monitoring & Update** | The project manager verifies the login accuracy and resolves specification discrepancies prior to analysis. Representatives monitor project status during analysis, which is communicated to the client using Accutest's electronic tools. |
| **Data Delivery** | When the analysis is completed electronic reports are generated to the client's specifications, which can be delivered by using Accutest's sophisticated electronic tools or by conventional means. |
| **Interpretation Assistance** | Representatives are available to provide assistance after data delivery. Responses to client queries are prompt and accurate, frequently providing them with key information to aid their decision process. |
| **Invoicing** | Invoices are generated from the same electronic information used to communicate analytical specifications to the laboratory. This guarantees that it accurately reflects the specification requested by the client. |

The efforts of our client service group; project managers, and technical sales representatives, field and analytical staff; combine to make Accutest an extension of your capability.

## Laboratory Information Management System (LIMS)

The Accutest Laboratory Information Management System (LIMS) is the most critical and central tool in the operation of the laboratory. **Accutest's LIMS is one of the most powerful and sophisticated tools in the industry today**. The LIMS at each location resides on an independent server sized to ensure highly efficient performance for internal users and on-line customers simultaneously. The LIMS is based on a state-of-the-art Oracle relational database that has been specifically designed to handle the complex issues faced by environmental laboratories. The LIMS automates virtually every phase of laboratory operations, including sample receipt/login, sample scheduling and tracking, data acquisition, calculations, quality control (QC), final reports, electronic deliverables, and invoicing. As a result, it allows Accutest to deliver the most accurate and consistent product in the industry.

## Electronic Data Deliverables

One of the most significant trends in this industry is the increased dependence on Electronic Data Deliverables (EDDs). EDDs that are produced or modified manually cannot be relied upon for accuracy. Accutest consistently provides the most accurate EDDs through totally automated data transfer. At the front end, virtually all laboratory data is transferred automatically to the LIMS without manual transcription, followed by multiple levels of technical review. From this point, the LIMS becomes the single source for all deliverables including data reports, QC reports, and EDDs. Simply put, this means that the raw data matches the paper reports, and the reports match the EDDs.

## LabLink[SM]

LabLink[SM] is the live, on-line client interface to the Accutest LIMS, the most comprehensive on-line data service in the industry. Available via the internet to all Accutest clients, LabLink[SM] provides real-time access to project status, current and historical data, on-line reports, EDDs, and billing information. LabLink[SM] can be configured to send reports via email automatically upon data completion.

We provide clients with a personal, secure internet account that encrypts all communications to maintain data confidentiality. LabLink[SM] has established a new standard for electronic data management. From the minute samples are received, LabLink[SM] provides up-to-the-minute access to project information from a PC via a secure website.

**The Most Comprehensive On-Line Service in the Industry,** LabLink[SM] service saves time, effort and money. Through LabLink[SM], Accutest has made a long term commitment to provide the most comprehensive on-line service in the industry that includes the following features:

- **Automated Sample Receipt Confirmation:** Allows client verification that samples have arrived at the laboratory safely and have been logged in properly. This ensures the correct tests, sample identification (IDs) and Turn-Around-Time (TAT) have been accurately communicated from the client to Accutest. An electronic copy of the chain-of-custody is delivered with the log in report for review.

## LabLink[SM] (continued)

- **Compare Results to Multiple Regulatory Limits**: Summary tables compare project results to multiple regulatory limits in real time. The Tables include highlights for hits and exceedances.

- **Complete Project Status Information:** From the minute samples are received, there is complete access to job, sample, and test information. In addition, status information is available in **real time** through LabLink[SM], which allows tracking sample progress through the laboratory.

- **On-line Chain-of-Custody Documents:** As part of sample login, chain-of-custody documents are scanned into PDF files that are available on-line to LabLink[SM] users with a single click.

- **Immediate Access to Test Results:** LabLink[SM] provides complete access to test results the **minute** they are approved by the laboratory. The LabLink[SM] data query provides powerful options (**e.g. hits only**) to get data feedback as quickly as possible. The results can also be compared to a variety of Federal and State regulatory limits.

- **Access to Quality Control Data:** Method blank, MS/MSD, blank spike and surrogates are available on-line. Chromatograms, spectra and other raw data can also be reviewed.

- **Historical Data Query:** With LabLink[SM], it is just as easy to view historical data. Powerful query options and sort criteria can be specified and executed in seconds to evaluate trends.

- **e-Hardcopy Reports available via Auto-email or on-line:** Finished data may be generated in ***e-Hardcopy*** format complete with a signed cover page, chain-of-custody and comprehensive QC data. LabLink[SM] allows the user to activate Auto-email on projects of interest, which automatically initiates generation of an ***e-Hardcopy*** report that will be sent automatically upon completion of a job.

- **Billing/Invoice Information:** LabLink[SM] also allows access to preliminary billing information. This enables the user to check quote prices **before** the invoice is delivered. In addition, historical billing information is maintained, allowing up-to-the-minute project financial summaries. Final invoices can be downloaded on demand in PDF format.

- **Electronic Deliverables on Demand:** EDDs may be generated on demand through LabLink[SM]. This capability is unprecedented in the industry.

- **How to Get On-Line?** Getting started with LabLink[SM] couldn't be easier. All that is needed is access to the Internet. Accutest will then set up a secure LabLink[SM] account and user to be on-line. Best of all, access to LabLink[SM] is provided at no additional charge - simply for doing business with Accutest.

# Section 2.0
## Analytical Methodology & Regulatory Programs

### Analytical Methodology

The Accutest staff has extensive knowledge and experience applying analytical chemistry methods employed in environmental monitoring. This includes methods approved for Federal and State environmental regulatory programs and in-house methods developed for client's unique analytical needs. This expertise combined with a quality assurance system that meets national and international standards enables the Company to consistently produce data of known and documented quality. **In 2011, Accutest logged in more than 107,532 jobs, processed over 576,768 samples and reported well over 1,809,276 tests.** All tests were performed within the framework of the Accutest Quality Assurance System in compliance with method specifications, regulatory requirements and client specific data quality objectives. Accutest routinely employs methods from the following compendiums:

- Test Methods for Evaluating Solid Waste, SW-846 (USEPA);
- Methods for Chemical Analysis of Water and Wastes (USEPA);
- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (USEPA);
- Methods for the Determination of Metals in Environmental Samples (USEPA);
- Methods for the Determination of Inorganic Substances in Environmental Samples (USEPA);
- Methods for the Determination of Organic Compounds in Drinking Water (USEPA);
- Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (USEPA);
- Standard Methods for the Examination of Water and Wastewater (APHA, AWWA.WEF); and
- Technical Standards – American Society for Testing and Materials (ASTM).

### Regulatory Programs

Analysis of environmental samples using methods from these compendiums is performed in accordance with Federal and State regulatory programs including:

- RCRA – Resource Conservation and Recovery Act (USEPA);
- CWA – Clean Water Act (USEPA);
- NPDES – National Pollution Discharge Elimination System (USEPA);
- SDWA – Safe Drinking Water Act (USEPA);
- CERCLA – Comprehensive Environmental Response Compensation Liability Act (USEPA);
- CAA – Clean Air Act (USEPA);
- TSCA – Toxic Substances Control Act (USEPA);
- OSHA – Occupational Safety and Health Act;
- Brownfields Recovery Act (USEPA); and
- Numerous State Specific Programs Supporting Waste Management Activities and Natural Resource Protection.

## Analytical Methodology & Regulatory Programs (continued)

### Analytical Support Activities

Accutest routinely produces analytical data in support of projects that require testing in conformance with Federal and State remediation and regulatory compliance programs including:

- Site Characterization Investigations;
- Remedial Investigations and Feasibility Studies;
- Remedial Action Activities (Cleanup and/or Removal);
- Delineation Monitoring;
- Groundwater Monitoring (Natural Resource Protection & Drinking Water);
- Underground Storage Tank Monitoring and Cleanup;
- Ambient & Indoor Air Monitoring;
- NPDES Compliance Monitoring;
- Hazardous Waste Identification/Classification;
- Hydraulic Fracturing Groundwater Contaminants; and
- Hydraulic Fracturing Fluids Analysis

### Gas Exploration/Hydraulic Fractioning

Accutest has broad expertise providing analytical chemistry services in support of Hydraulic Fracturing activities. Hydraulic Fracturing support analysis are conducted in all Accutest facilities and include the analysis of fracturing fluids, flow-back waters and pre- and post- drilling groundwater.

Fracturing Fluid Analysis includes Metals, Acrylamides, Cyanides, Phenolics, Residual Chlorine, Ions, Volatile Organics and Semi-Volatile Organics using a combination of USEPA methodology. Method selection is customized to reflect the constituents of each drilling fluid.

Groundwater Analysis includes pre- and post-drilling monitoring including Metals Acrylamides, Cyanides, Phenolics, Herbicides, Ions, Volatile Organics, Semi-Volatile Organics, Pesticides and PCBs, Tetrachlordibenzodioxin (TCDD) using a combination of USEPA SW-846 methodology.

Standard pre-drilling parameters; Inorganic include Alkalinity, Chloride, Conductivity, Hardness, Oil and Grease, pH, Sulfate, TDS, TSS, Turbidity, MBAS (surfactants); Metals: Barium, Calcium, Iron, Magnesium, Manganese, Potassium, Sodium, Strontium, Lithium, Cadmium, Mercury, Silver, Lead, Arsenic, Chromium, Selenium, Sulfur. Organics include BTEX, dissolved gases (methane, ethane, butane, propane), TPH (GRO, DRO).

Drinking Water Analysis includes Metals, Cyanides, Coliforms, Phenolics, Ions, Volatile Organics, Semi-Volatile Organics, Haloacetic Acids and Dibromoethane (EDB) using USEPA drinking water methods.

Air Analysis includes USEPA TO-3, TO-14 and TO-15 for volatile organics.

**Reports and Deliverables**

Accutest's user friendly data reports can be produced in several formats varying in complexity from basic results to fully documented deliverables depending on client needs. Regardless of the report format, all analysis is performed to meet the quality control specifications of the analytical method and the specified regulatory program. The delivered report can therefore be configured with full confidence that the data is supported by the required quality control practices. These reports are designed for easy interpretation and efficient data validation.

Reports can be produced in hard copy format or as a fully indexed electronic document. Accutest specializes in electronic data products, which not only complement the data report, but also provide the client with numerous electronic products and delivery options that simplify data management and review. These options include EDDs in over 1093 data formats, including commercial and custom client formats, which are delivered in over 95% of projects. Access to leading edge, interactive online features enables the user to configure data reports that meet data reporting needs, including the ability to automatically receive data upon completion which has been formatted to client specifications. Hardcopy and electronic deliverable options are as follows:

**Hard Copy**

- Full Deliverables – Comprehensive, Validation Ready (Level 4)
- Reduced Deliverables – Summary Data with Quality Control (Level 2 & 3)
- Standard Commercial Format – Results only (Level 1)
- State – Specific Formats

**Electronic**

- GIS/Key, Locus & more)
- Customized Client Specific Database Import Formats
- Custom Spreadsheet Reports
- State Regulatory Required EDD Formats
- Department of Defense (ADR, SEDD, IRPIMS & others)

**Interactive Online Reporting**

- **LabLink**[SM] – Accutest Proprietary On-Line Data Management Service
- **e-Hard Copy** – Fully Navigable, Indexed, Interactive PDF Report

# Section 3.0

## Quality Assurance Program

At Accutest, we continually build quality into the product delivered to clients as a design specification. This is accomplished by incorporating the elements of our Quality System into every laboratory process as an intrinsic component of day-to-day operations. This approach reflects our dedication to a quality system that meets national and international standards. This is achieved through a Corporate Quality Assurance Program that establishes the framework for the quality systems operated and maintained at each Accutest facility. This Program reflects knowledge of the regulatory analytical process and the role our product plays in safeguarding human health and the environment.

## Quality Assurance Program (continued)

### Policy Statement

The management and staff of Accutest share the responsibility for product quality. The Quality System is designed to ensure that all processes and procedures, which are components of environmental data production, meet established industry requirements. These processes and procedures must be adequately documented from a procedural and data traceability perspective as executed by the staff. It also assures that analytical data of known quality, meeting the quality objectives of the analytical method in use and the data user's requirements, are consistently produced in the laboratory. This enables the ultimate data user to make rational, confident, cost-effective decisions on the assessment and resolution of environmental issues.

The Quality System provides staff with data quality and operational feedback data. This enables a determination whether the laboratory has achieved the established quality and operational standards, which are dictated by the client or established in regulation. The information obtained from the Quality

System is used to assess operational performance from a quality perspective and to perform corrective action as necessary.

### The Quality Assurance Standard

Accutest operates a quality program which meets the requirements for laboratory operations established by the international community. Accutest has implemented a Quality System that follows ISO Guide 17025, General Requirements for the Competence of Calibration and Testing Laboratories. The structure of ISO Guide 17025 has been adopted by the National Environmental Laboratory Accreditation Program (NELAP), the voluntary national accreditation program originally established by the USEPA. NELAP has established a uniform national standard for environmental laboratories that places a strong emphasis on quality systems.

The Quality System at Accutest has been designed to meet NELAP Standards. Accutest was among the first laboratories to submit applications to the approved state accrediting authorities for recognition as a NELAP Accredited laboratory. All laboratories in the Accutest network are NELAP Accredited.

### Corporate Quality Assurance Program

The Corporate Quality Assurance Program establishes the quality framework for each individual Accutest facility. The Corporate Quality Assurance Director determines corporate policies and defines the quality responsibilities at the facility level. He is responsible for monitoring the quality system at each facility and providing feedback to the management staff.

The reporting relationship between Corporate Quality Assurance and the Quality Assurance Officers at each laboratory reflects a dotted line responsibility. This type of relationship enables the Corporate Program to be implemented locally while enhancing day-to-day operational efficiency at each facility.

**Quality Assurance at Each Laboratory**

The Accutest philosophy enables each facility to implement a quality policy using their unique operating style. This approach provides the autonomy needed to meet the requirements of the local regulatory jurisdictions using procedures that efficiently meet their operational objectives.

The Quality Assurance Program at each facility incorporates the elements of NELAP and ISO Guide 17025. The operations management staff is responsible for implementing the program elements and operating the quality system.

The Quality Assurance Officer monitors the program, provides feedback to local and corporate management, and assists with corrective action and training if needed.

In order to measure the success of the Corporate Quality Assurance Program, Accutest participates in the following regulatory proficiency test programs:

- Water Pollution Study (NELAP fields of testing);
- Water Supply Study (NELAP fields of testing);
- RCRA Water PT Samples;
- RCRA Soil PT Samples;
- Independent Single Blind PT Samples; and
- Independent Double Blind PT Samples.

Accutest also participates in numerous national corporate proficiency test programs/audits sponsored by our clients, utilizing independent, third party consulting firms.

## Accutest State Certifications & Accreditations

Accutest maintains accreditation for the majority of the state regulatory analytical programs offered in the United States. The program specific accreditations maintained in each state are essential for submitting analytical data to meet data reporting requirements.

Many states maintain accreditation programs for drinking water only. In these states, accreditation is not required to conduct analysis for other regulatory programs administered by them. The Accutest State Certification & Accreditation Map is available at www.accutest.com. Or, you may contact your Accutest Representative for a current list of our certifications.

ACCUTEST LABORATORIES

# Accutest Laboratories' Certifications, Accreditations & Permits

**Accutest Laboratories' Certifications, Accreditations & Permits**

**April 19, 2012**

**New Jersey Facility (Mid-Atlantic) - USEPA Federal Identification Number NJ00141**

**Florida Facility (Southeast) - USEPA Federal Identification Number FL00946**

**Texas Facility (Gulf Coast) - USEPA Federal Identification Number TX01484**

**Massachusetts Facility (New England) - USEPA Federal Identification Number MA00136**

**California Facility (West) - USEPA Federal Identification Number CA00150**

**Colorado Facility (Mid-West) - USEPA Federal Identification Number CO00049**

**Louisiana Facility (ALGC-Louisiana) - USEPA Federal Identification Number LA00013**

| Certifying Authority | Accutest Facility | Certification Program | Expiration Date |
|---|---|---|---|
| Alaska | Southeast | Contaminated Sites | August-12 |
| Alaska | West | Contaminated Sites | September-12 |
| Arizona | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste, Air Toxics | July-12 |
| Arizona | West | Non-Potable Water, Solid/Hazardous Waste | November-12 |
| Arkansas | ALGC-Louisiana | Solid/Hazardous Wastes, Non-Potable Water | August-12 |
| Arkansas | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste | March-12 |
| Arkansas | Southeast | Solid/Hazardous Wastes, Non-Potable Water | September-12 |
| California (NELAP) | Mid Atlantic | Potable/Non-Potable Water, Solid/Hazardous Waste | July-12 |
| California (NELAP) | Southeast | Potable Water, Solid/Hazardous Waste | June-12 |
| California (NELAP) | West | Non-Potable Water, Solid/Hazardous Waste | July-12 |
| Colorado | Mid West | Potable Water | May-12 |
| Colorado | New England | Potable Water | January-13 |
| Connecticut | Mid Atlantic | Potable/Non-Potable Water, Solid/Hazardous Waste | June-13 |
| Connecticut | New England | Potable/Non-Potable Water, Solid/Hazardous Waste, ETPH | June-13 |
| Delaware | Mid Atlantic | DNREC HSCA Program | Recognized |
| DoD ELAP | Mid Atlantic | Non-Potable Water, Solid/Chemical Waste, Air Toxics | April-13 |
| DoD ELAP | New England | Non-Potable Water, Solid/Chemical Waste, Air Toxics | January-13 |
| DoD ELAP | Southeast | Non-Potable Water, Solid/Chemical Waste | December-12 |
| DoD ELAP | West | Non-Potable Water, Solid/Chemical Waste | March-13 |
| Florida (NELAP) | ALGC-Louisiana | Potable, Non-Potable, Solid Waste | June-12 |
| Florida (NELAP) | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste, Air & Emissions | June-12 |
| Florida (NELAP) | Mid Atlantic | Potable, Non-Potable, Solid Waste, UST, Air Toxics | June-12 |
| Florida (NELAP) | New England | Potable, Non-Potable Water/Solid/Hazardous Waste, Air Toxics | June-12 |
| Florida (NELAP) | Southeast | Potable, Non-Potable, Solid Waste, Air Toxics | June-12 |
| Georgia | ALGC-Louisiana | Non-Potable Water, Solid/Chemical Materials | June-12 |
| Georgia | New England | Non-Potable Water, Solid/Chemical Materials, Air and Emissions | June-12 |
| Georgia | Southeast | Potable Water | June-10 |
| Georgia | Southeast | Solid/Hazardous Wastes | June-12 |
| Idaho | Mid West | Potable Water | May-12 |
| Illinois (NELAP) | Mid Atlantic | Potable & Non-Potable Water; Haz Waste | May-12 |
| Illinois (NELAP) | New England | Potable & Non-Potable Water; Haz Waste | July-12 |
| Illinois (NELAP) | Southeast | Non-Potable Water; Haz Waste | August-12 |
| Indiana | Mid Atlantic | Potable Water | June-12 |
| Iowa | Southeast | UST, Solid/Hazardous Wastes, Non-Potable Water | February-14 |

ACCUTEST LABORATORIES

## Accutest Laboratories' Certifications, Accreditations & Permits (continued)

| Certifying Authority | Accutest Facility | Certification Program | Expiration Date |
|---|---|---|---|
| | | | |
| ISO/IEC 17025:2005 | Mid Atlantic | Non-Potable Water, Solid/Chemical Waste, Air Toxics | April-13 |
| ISO/IEC 17025:2005 | New England | Non-Potable Water, Solid/Chemical Waste, Air Toxics | January-13 |
| ISO/IEC 17025:2005 | Southeast | Non-Potable Water, Solid/Chemical Waste | December-12 |
| ISO/IEC 17025:2005 | West | Non-Potable Water, Solid/Chemical Waste | March-13 |
| Kansas (NELAP) | Gulf Coast | Solid/Hazardous Wastes, Non-Potable Water | July-12 |
| Kansas (NELAP) | Mid Atlantic | Potable/Non-Potable Water, Solid/Hazardous Wastes | October-12 |
| Kansas (NELAP) | Southeast | Solid/Hazardous Wastes, Non-Potable Water | October-12 |
| Kentucky | ALGC-Louisiana | Underground Storage Tank Program | June-12 |
| Kentucky | Gulf Coast | Underground Storage Tank Program | February-13 |
| Kentucky | Mid Atlantic | Potable Water | December-12 |
| Kentucky | New England | Underground Storage Tank Program | January-13 |
| Kentucky | Southeast | Underground Storage Tank Program | August-13 |
| Louisiana (NELAP) | ALGC-Louisiana | Non-Potable Water, Solid/Hazardous Waste | June-12 |
| Louisiana (NELAP) | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste | June-12 |
| Louisiana (NELAP) | Mid Atlantic | Non-Potable Water, Solid/Hazardous Waste, Air Toxics | June-12 |
| Louisiana (NELAP) | Southeast | Solid/Hazardous Wastes | June-12 |
| Louisiana DHH (NELAP) | ALGC-Louisiana | Potable Water | December-12 |
| Maine | New England | Potable & Non-Potable Water, Maine DRO/GRO | April-12 |
| Maryland | Mid Atlantic | Potable Water | March-13 |
| Massachusetts | Mid Atlantic | Potable/Non-Potable Water | June-12 |
| Massachusetts | New England | Potable & Non-Potable Water | June-12 |
| Massachusetts | Southeast | Non-Potable Water | June-12 |
| Minnesota | New England | Potable/Non-Potable Water, Solid/Chemical Waste, Air Toxics | December-12 |
| Mississippi | Southeast | Potable Water | N/A |
| Montana | ALGC-Louisiana | Petroleum Release Section | Recognized |
| Montana | Mid Atlantic | Petroleum Release Section | Recognized |
| Montana | New England | Petroleum Release Section | Recognized |
| Nebraska | Mid West | Private/Non-Compliance Potable Water | May-12 |
| Nevada | Southeast | Non-Potable Water, Solid/Hazardous Wastes | July-12 |
| Nevada | West | Potable/Non-Potable Water, Solid/Hazardous Wastes | July-12 |
| New Hampshire (NELAP) | New England | Potable/Non-Potable Water, Solid & Chemical Materials | January-13 |
| New Jersey (NELAP) | Mid Atlantic | Potable/Non-Potable Water, Solid Waste, Air Toxics | June-12 |
| New Jersey (NELAP) | New England | Non-Potable Water/Solid/Hazardous Waste | June-12 |
| New Jersey (NELAP) | Southeast | Solid/Hazardous Wastes, Non-Potable Water | June-12 |
| New York (NELAP) | Mid Atlantic | Potable/Non-Potable Water, Solid/Hazardous Waste, Air | April-13 |
| New York (NELAP) | New England | Potable/Non-Potable Water/Solid/Hazardous Waste, Air | April-13 |
| North Carolina | ALGC-Louisiana | Solid/Hazardous Wastes, Non-Potable Water | December-12 |
| North Carolina | New England | Solid/Hazardous Wastes, Non-Potable Water | December-12 |

ACCUTEST LABORATORIES

## Accutest Laboratories' Certifications, Accreditations & Permits (continued)

| Certifying Authority | Accutest Facility | Certification Program | Expiration Date |
|---|---|---|---|
| | | | |
| North Carolina | Southeast | Solid/Hazardous Wastes, Non-Potable Water | December-12 |
| North Dakota | Mid West | Potable Water | May-12 |
| North Dakota | New England | Potable/Non-Potable Water, Solid/Hazardous Waste | June-12 |
| Ohio Voluntary Action Pr. | Mid Atlantic | Solid/Hazardous Wastes, Non-Potable Water | March-13 |
| Oklahoma | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste | August-12 |
| Oklahoma | Southeast | Non-Potable Water, Solid/Hazardous Waste | August-12 |
| Oregon (NELAP) | West | Potable & Non-Potable Water; Haz Waste | October-12 |
| Oregon (NELAP) | West | NWTPH-Dx/Gx in Non-Potable Water, Haz Waste | July-12 |
| Pennsylvania (NELAP) | Gulf Coast | Non-Potable Water | January-13 |
| Pennsylvania (NELAP) | Mid Atlantic | Potable & Non-Potable Water; Haz Waste | May-12 |
| Pennsylvania (NELAP) | New England | Non-Potable, Solid/Hazardous Waste | September-12 |
| Rhode Island | Mid Atlantic | Potable/Non-Potable Water, Air | June-12 |
| Rhode Island | New England | Potable/Non-Potable Water | June-12 |
| South Carolina | ALGC-Louisiana | Potable/Non-Potable Water, Solid/Hazardous Waste | June-12 |
| South Carolina | Mid Atlantic | Solid/Hazardous Wastes, Non-Potable Water | June-12 |
| South Carolina | Southeast | Solid/Hazardous Wastes, Non-Potable Water | June-12 |
| Texas (NELAP) | ALGC-Louisiana | Potable/Non-Potable Water, Solid/Hazardous Waste | December-12 |
| Texas (NELAP) | Gulf Coast | Non-Potable Water, Solid/Hazardous Waste | March-13 |
| Texas (NELAP) | Mid Atlantic | Non-Potable Water, Solid/Hazardous Waste, Air Toxics | July-12 |
| Texas (NELAP) | Mid West | Potable Water | February-13 |
| Texas (NELAP) | Southeast | Non-Potable Water, Solid/Hazardous Waste | May-12 |
| US Army Corps of Eng. | Gulf Coast | HTRW, Solid/Hazardous Waste | Self Declared |
| US Dept. of Agriculture | ALGC-Louisiana | Foreign Soils Permit | November-14 |
| US Dept. of Agriculture | Gulf Coast | Foreign Soils Permit | April-14 |
| US Dept. of Agriculture | Mid Atlantic | Foreign Soils Permit | August-12 |
| US Dept. of Agriculture | New England | Foreign Soils Permit | February-13 |
| US Dept. of Agriculture | Southeast | Foreign Soils Permit | March-13 |
| US Dept. of Agriculture | West | Foreign Soils Permit | January-13 |
| Utah (NELAP) | Mid West | Potable, Non-Potable Water, Solid/Hazardous Wastes | January-13 |
| Utah (NELAP) | Southeast | Potable, Non-Potable, Solid/Chemical Materials | June-12 |
| Virginia | Mid Atlantic | Potable Water | June-12 |
| Virginia (NELAP) | Gulf Coast | Air Toxics | March-13 |
| Virginia (NELAP) | Mid Atlantic | Potable, Non-Potable, Solid/Chemical Materials, Air Toxics | September-12 |
| Virginia (NELAP) | Southeast | Potable, Non-Potable, Solid/Chemical Materials | September-12 |
| Washington | Southeast | Non-Potable, Solid/Chemical Materials | March-12 |
| Washington | West | Potable, Non-Potable, Solid/Chemical Materials | October-12 |
| West Virginia | ALGC-Louisiana | Non-Potable Water, Solid/Hazardous Wastes | June-12 |
| West Virginia | Mid Atlantic | Non-Potable Water, Solid/Hazardous Wastes | August-12 |
| Wisconsin | Southeast | Solid/Hazardous Wastes, Non-Potable Water | August-12 |
| Wyoming | Mid West | Potable Water | May-12 |

## Audits & Proficiency Testing

Accutest participates in national proficiency test programs to maintain the accreditations required by the NELAP states and those required by non-NELAP states. Accutest traditionally obtains acceptable performance on over 98% of the parameters evaluated. In 2011 Accutest reported results for over 14,000 proficiency test parameters performed under the following programs:

- Water Pollution Study (NELAP fields of testing);
- Water Supply Study (NELAP fields of testing);
- RCRA Water PT Samples; and
- RCRA Soil PT Samples
- Clean Air Act Emissions PT Samples

Accutest also participates in numerous single and double blind proficiency test programs sponsored by national, corporate clients, utilizing independent, third party consulting firms.

Audits are an essential component of Accutest's Quality Assurance Program. Accutest conducts extensive, internal audits of every aspect of the analytical system annually. This includes an assessment of numerous analytical methods and an assessment of the laboratory quality system. Audit findings are the basis of corrective actions that continually elevate the Company's performance.

Audits are also conducted by state accrediting bodies for initial and continued accreditation. Findings from these audits are also used to improve process performance.

Accutest continuously monitors key indicators to measure operational efficiency which is essential to project execution. The indicators used to evaluate performance include analytical report turn-around-time, reissued reports, holding times and rejected data.

Statistical evaluations are used to measure and refine overall performance, promoting continuous improvement.

# Section 4.0

## Facilities and Resources

### Laboratories

**Accutest's state-of-the-art facilities have been designed specifically for environmental testing.** Each facility is functionally designed to provide efficient processing of a large volume of samples and provide a comfortable, safe working environment for laboratory staff. The facilities are equipped with centralized process gas distribution, water purification centers and separate, dedicated HVAC systems. These systems maintain critical positive/negative pressure relationships between internal laboratories, ensuring adequate ventilation and preventing atmospheric cross-contamination. A site location map is provided on the next page.

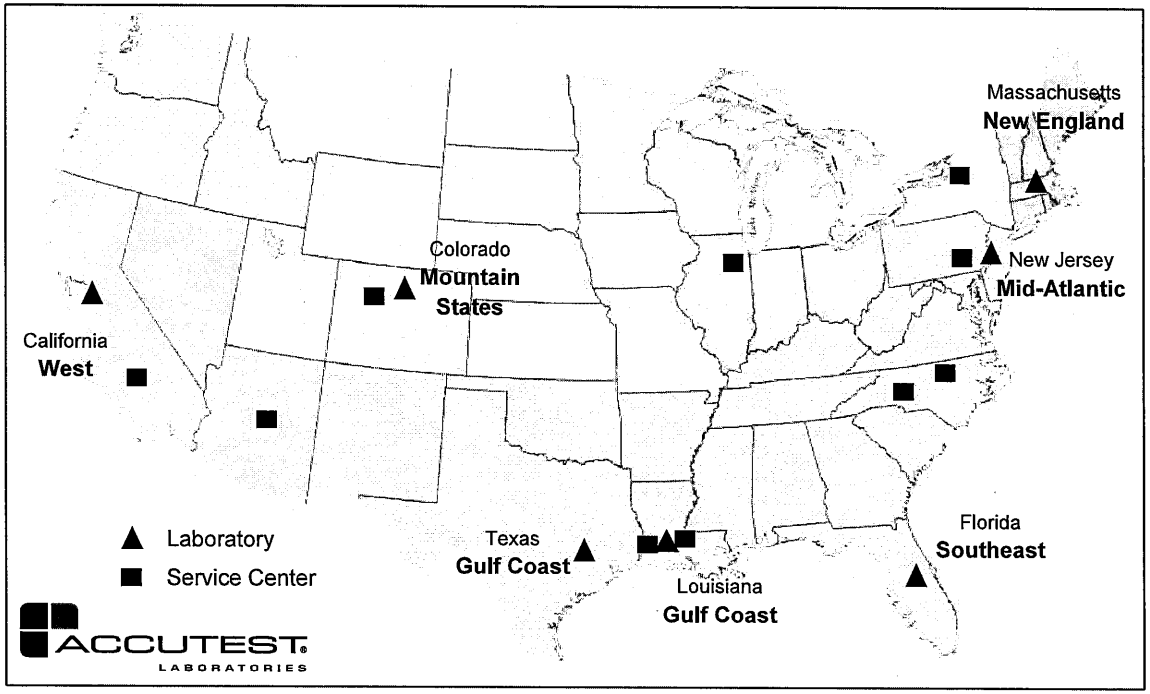
### Service Centers

Accutest operates ten (10) Service Centers conveniently located in the States of New York, Pennsylvania, North Carolina, Louisiana, Illinois, Colorado, California, and Arizona to ensure that samples can be shipped to each of the laboratories quickly and to accommodate project specific locations in that region.

### Courier Services

Accutest maintains a fleet of couriers that handle sample pickup and container delivery within a 100-mile radius of our laboratories. All employees are trained and have experience in handling environmental samples and sample documentation. Accutest has established contract courier services in a number of other states to provide local delivery and pickup services.

# Accutest Locations




## Laboratories

**Mid-Atlantic**
2235 US HWY 130
Dayton, NJ 08810
Tel: 732-329-0200

**New England**
495 Tech Center West
Marlborough, MA 01752
Tel: 508-481-6200

**Southeast**
4405 Vineland Road
Orlando, FL 32811
Tel: 407-425-6700

**Gulf Coast (TX)**
10165 Harwin Drive
Houston, TX 77036
Tel: 713-271-4700

**Gulf Coast (LA)**
500 Ambassador Caffery Pkwy
Lafayette, LA 70583
Tel: 337-237-4775

**Mountain States**
4036 Youngfield Street
Wheat Ridge, CO 80033
Tel: 303-425-6021

**West**
2105 Lundy Avenue
San Jose, CA 95131
Tel: 408-588-0200

**Sales Centers:** Southbury, CT Nashville, TN Tampa, FL St. Louis, MO

## Service Centers

**Syracuse Service Center**
6780 Northern Blvd. Ste 202
East Syracuse, NY 13057
Tel: 315-329-4763

**Exton Service Center**
924 Springdale Drive
Exton, PA 19341
Tel: 610-363-7400

**Raleigh Service Center**
6308 Angus Drive, Ste C
Raleigh, NC 27617
Tel: 919-208-7171

**Charlotte Service Center**
2828-C Queen City Drive
Charlotte, NC 28208
Tel: 704-929-1533

**Baton Rouge Service Center**
17485 Opportunity Ave. Ste 1B
Baton Rouge, LA 70817
Tel: 225-752-8929

**Lake Charles Service Center**
2818 S. Beglis Pkwy
Sulphur, LA 70665
Tel: 337-287-4879

**Chicago Service Center**
1449 Tonne Road
Elk Grove Village, Illinois 60007
Tel: 847-258-3057

**Rifle Service Center**
3161 Baron Lane, Unit F
Rifle, CO 81650
Tel: 970-309-5460

**Irvine Service Center**
17165 Von Karman Ave. Ste 112
Irvine, CA 92614
Tel: 949-250-9900

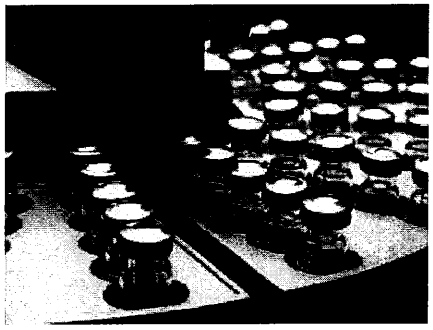
**Phoenix Service Center**
1741 W. University Drive, #149
Tempe, Arizona 85281
Tel: 602-501-5673

## Equipment and Instrumentation

Accutest maintains automated, computerized analytical instrumentation to support large complex projects and routine analyses of standard analytical parameters. Our commitment to clients is reflected by the capital investment in facilities, equipment and technology. Our production capability, capacity and redundancy of instrumentation assure the reliability and performance needed to deliver major analytical projects successfully. Instruments are dedicated to specific matrices and analyses to accelerate productivity and prevent cross contamination. A major factor when evaluating a laboratory is the age, model and condition of its equipment. Accutest maintains a significant proportion of advanced late model instrumentation.

**Major Instrumentation Summary**

| Analytical Instrument | Accutest Network Total |
|---|---|
| GC/MS VOA | 93 |
| GC/MS SVOA | 38 |
| GC VOA | 46 |
| GC SVOA | 83 |
| HPLC | 15 |
| ICP/ICPMS | 18/7 |



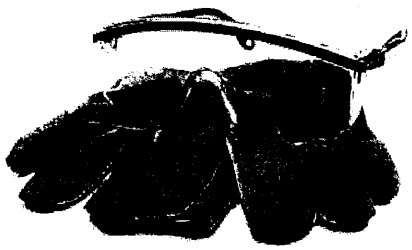
## Health and Safety Program

Accutest operates a formal Health and Safety Program that complies with the requirements of the Occupational Safety and Health Administration (OSHA). Our goal is to provide a safe and healthy working environment for our employees and clients while protecting the public and preserving the Company's assets and property. Accutest complies with all applicable government regulations pertaining to the safety and health in the laboratory and the workplace.

The objective of our Health and Safety Program is to promote safe work practices that minimize the occurrence of injuries and illness to the staff through proper health and safety training, correct laboratory technique application and the use of engineering controls. The program consists of key policies and practices that are essential to safe laboratory operation. All employees receive training on the program's elements. Job specific training is conducted to ensure safe practices for specified tasks. All employees are required to participate in the program, receive initial and annual training, and comply with the program requirements.

Key elements of the program include Safety Education and Training, Hazard Communication, Chemical Protection (with an emphasis on Personal Protective Equipment and Engineering Controls), Chemical Hygiene, Waste Handing and Emergency procedures. The program is administered at the corporate level by the Health & Safety Director, and each facility has a designated Health & Safety Officer and Safety Committee. Regular facility audits are conducted to ensure compliance to the program.

All field personnel receive appropriate OSHA training which is updated on a regular basis. In addition, they receive training and approval to cover client and site specific requirements.



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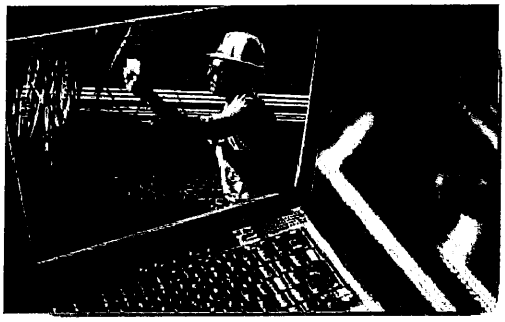
## Field Services

Accutest's Field Services Department offers Occupational Safety and Health Administration (OSHA) certified sampling technicians to support environmental projects. Accutest has the capacity to fully equip and mobilize teams utilizing the appropriate level of protection to accommodate project safety requirements.



Our field technicians have extensive experience in a wide range of field sampling situations. They have been successfully audited by State regulatory agencies and are accredited to perform analysis for the short holding time field parameters in the "analyze immediately" category (pH, specific conductance, temperature, residual chlorine and dissolved oxygen).

The field staff is also well versed in sample collection using conventional grab techniques, time weighted compositing using automated or manual procedures using sequential-discrete or single jar composite and soil core collection. Customized sampling approaches based on unique client needs can also be developed upon request.

**Accutest Sampling Programs & Capabilities:**

- National Pollution Discharge Elimination System (NPDES)
- RCRA (Resource Conservation & Recovery) Wastes
- Groundwater Wells
- Wastewater
- Ambient Air
- Drinking Water – Municipal & Residential
- Low Flow Groundwater Wells
- Subsurface Soil
- Sediment
- Statistical Sampling Design

ACCUTEST LABORATORIES

# Section 5.0

## Key Staff Profiles

**Reza Tand**
**Vice President, Operations**

Years with Firm: 23
Total Years Experience: 26
Degree: BS, Chemistry

**Experience:** Mr. Tand is Corporate Vice President of Operations, and provides technical, operational, strategic growth and administrative leadership and management of personnel. Previously, Mr. Tand was the Director of the New England division and brings over 29 years of analytical expertise in all facets of environmental testing. He is directly responsible for lab operations in Mid-Atlantic (Corporate), New England, Louisiana, and Mountain States divisions which specialize in analysis of organics and inorganics in water, soil and air matrices.

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**Harry Behzadi**
**Vice President, Operations**

Years with Firm: 17
Total Years Experience: 28
Degree: Ph.D., Analytical Chemistry

**Experience:** Dr. Behzadi is currently Vice President of Operations. Previously, Dr. Behzadi was the Director of the Southeast and Gulf Coast Divisions. He has extensive experience in trace organics and inorganic analyses of environmental samples. He has been responsible for laboratory management, analytical method development, professional training and QA/QC in both the environmental and pharmaceutical industries. Dr. Behzadi has extensive experience in the R&D, operation, maintenance and trouble shooting of the following instrumentation: GC/MS, GC, HPLC, ICP, AA, IR, GPC and UV/VIS. Previously, Dr. Behzadi has served as an environmental laboratory organics manager and a pharmaceutical laboratory manager.

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**Dr. Kesavalu Bagawandoss**
**Technical Director**

Years with Firm: 3
Total Years Experience: 31
Degree: BS, Chemistry; MS, Chemistry; Ph.D. Engineering (Environmental); Jurist Doctor (Law); Licensed to Practice Law in Louisiana

**Experience:** Dr. Doss served as Chief Operations Officer for Integrate, Inc., providing Data Validation Services, Laboratory Audits and Litigation Support Services for 6 years. He served as a Laboratory Director for 15 years providing analytical services to the Gulf Coast Region. Additionally, he served as the Laboratory Director for Industrial Hygiene services accredited by AIHA. Provided Superfund Analytical Services for USEPA for 20 years continuously for various contracts, including Dioxins/Dibenzofurans, Organics and Inorganics. Expertise also includes Laboratory setups, Clean room setups, Methods development, Fingerprinting, Alkylated PAH's, Biomarkers, Frac Fluid Analyses, Air Toxics, Biota Analyses by MSPD and Land Treatment of Oil Refinery Wastes.

ACCUTEST LABORATORIES

## Key Staff Profiles (continued)

**Andrew Dexter**
**Vice President, Chief Information Officer**

Years with Firm: 17
Total Years Experience: 30

**Experience**: Mr. Dexter has developed an overall IT strategy for Accutest and has taken the lead role in implementing a new state-of-the-art LIMS system at all Accutest Laboratories. He has over 30 years of experience in systems and laboratory automation as well as 24 years of environmental laboratory experience. Before joining Accutest, Mr. Dexter was one of seven founding members of Automated Compliance Systems, where he played a key roll in developing the LIMS software now implemented at Accutest. He was the sole designer/developer of Seedpak2, an Oracle-based instrument interfacing package that was later licensed to Perkin-Elmer for use in its SQL-LIMS product. Mr. Dexter was the sole designer/developer of AQUARIUS, a software package for automated GC/MS data acquisition.

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**Brian Davis**
**Systems Manager**

Years with Firm: 25
Total Years Experience: 29
Degree: BA, English

**Experience:** Mr. Davis is currently the Corporate Systems Manager for Accutest Laboratories and reports directly to the Vice President/Chief Information Officer located in Dayton, NJ. His responsibilities include System Administration, Database Administration, Network Administration, Software design and development with a specialty in electronic data deliverables (EDD's) and support. His industry experience includes 10 years in Quality Assurance, 2 years auditing external laboratories and 26 years in information technology. Mr. Davis was instrumental in the design and implementation of the state-of-the-art LIMS System at all Accutest Laboratories.

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**Paul Ioannidis**
**Laboratory Director, Mid-Atlantic**

Years with Firm: 4
Total Years Experience: 29
Degree: B.S. Biology, M.S. Environmental Science, Ph.D. Environmental Sciences, M.S. International Relations

**Experience:** Mr. Ioannidis is responsible for managing the daily operations and all facets of activities at the NJ laboratory. He has over 25 years management experience in commercial environmental laboratories including technical operations, quality assurance, business development, international programs and facility general management. Mr. Ioannidis has extensive laboratory management experience, and has been very active in supporting numerous DoD environmental programs, as well as numerous superfund activities at the state and the Federal EPA level. He has extensive experience in international programs, and has supported field, testing, and consulting activities in West Africa, Central America, Europe and South/Central Asia.

## Key Staff Profiles (continued)

**Phillip M. Worby** Years with Firm: 5
**Director, Corporate Quality Assurance** Total Years of Experience: 34
Degree: B.S., Environmental Studies/Water and Wastewater Treatment

**Experience**: Mr. Worby is Accutest's Director of Corporate Quality Assurance. He is responsible for the corporate quality assurance program in each of Accutest's laboratory facilities. Phil brings over 34 years of environmental chemistry experience to Accutest and has previously held management positions in commercial environmental laboratories as a Technical Director and as a Quality Assurance Director. Mr. Worby also has extensive environmental regulatory experience throughout the country and is currently serving as the Past President of the Pennsylvania Association of Accredited Environmental Laboratories and is past Chairman of the New Jersey DEP Environmental Laboratory Advisory Committee.

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**Wen-Wen Chi** Years with Firm: 21
**Corporate Technical Director/Organics** Total Years Experience: 32
Degree: BS, Chemical Engineering

**Experience:** Ms. Chi has strong knowledge in the end-to-end Organics Operations from sample preparation/extraction, through sample analysis, data interpretation/review, to report generation. She has extensive experience in Priority Pollutant Analysis using GC-GCMS & HPLC, covering EPA 500/600 Series, SW846, MAEPH/NJEPH, CLP work for EPA, Appendix IX, Dioxin Analysis, and T03/T015/NJT015LL for Ambient Air & Soil Vapor Methodologies. She also has expertise in special projects (EPA, SAS), new equipment/methodology evaluations, instrumentation & Lab start-up planning, technical consultation with clients, and application programs development for laboratory operations standardization and automation.

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**Nancy Cole** Years with Firm: 22
**Corporate Technical Director/Inorganics** Total Years Experience: 27
Degree: MS, Inorganics Chemistry

**Experience:** Ms. Cole is the Corporate Technical Director/Inorganics for Accutest Laboratories. The Inorganics division includes metals, wet chemistry, and microbiology. Metals includes a variety of analytical techniques such as ICP, ICP/MS, CV AAS, and Atomic Fluorescence Spectrometry. Wet chemistry includes a broad range of classical and instrumental techniques ranging from ion chromatography to UV/Vis and titrametric analyses. Ms. Cole has extensive experience in EPA, SW846, Standard Methods, and ASTM methodologies as well as NELAC and DOD testing standards. She is involved in daily laboratory operations, including project set-up, data review, and client services and client interactions.

## Key Staff Profiles (continued)

**Brad Madadian**
**Regional Laboratory Manager, Northeast**

Years with Firm: 22
Total Years Experience: 22
Degree: Masters, Chemistry

**Experience**: Mr. Madadian is responsible for overseeing the operation, procurement, and personnel in New England, Louisiana, and Mountain States divisions. He is directly involved in design and renovation of facilities and infrastructure to improve work flow and efficiency with utmost emphasis in safety. He works closely with the client services group to better serve client inquiries. Previously, Mr. Madadian was the Laboratory Manager of the New England division and has 23 years of experience in environmental testing. He has been involved in various method developments, studies, and has attended numerous technical training and seminars.

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**Ronald Benjamin**
**Laboratory Director, Gulf Coast, LA**

Years with Firm: 19
Total Years Experience: 33
Degree: BA, Urban Planning

**Experience**: Mr. Benjamin is responsible for the day to day operations at Accutest's Gulf Coast, LA Laboratory in Lafayette, LA. He has extensive experience in analytical chemistry applied in the fields of chemical manufacturing, wastewater processing, waste management and environmental monitoring. His experience includes bench expertise in the application of organic and inorganic EPA methodology and methods development associated with environmental monitoring for oil and gas exploration and production under API contract. Mr. Benjamin has over twenty years management experience including independent commercial laboratories and compliance management for public utilities.

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**Paul Canevaro**
**Laboratory Director, Gulf Coast, TX**

Years with the Firm: 5
Total Years Experience: 33
Degree: BS, Chemistry

**Experience:** Mr. Canevaro is responsible for day to day laboratory operations at Accutest Gulf Coast laboratory in Houston, Texas. He has extensive experience performing analysis in support of the Safe Drinking Water Act, Clean Water Act, Resource Conservation and Recovery Act and USEPA Contract Laboratory Program. His experience includes bench expertise in metals analysis and inorganic chemistry. He has held senior staff positions including lead technical support functions, laboratory oversight and general management of laboratory operations. In those roles, he implemented laboratory operations and grew the operation from a staff of two to seventy, establishing the largest drinking water laboratory in the State of Florida with accreditation in nineteen states.

ACCUTEST LABORATORIES

## Key Staff Profiles (continued)

**Norman Farmer**
**Regional Technical Director, Southeast**

Years with Firm: 16
Total Years Experience: 22
Degree: BS, Chemical Oceanography

**Experience**: Mr. Farmer currently oversees the technical operations for Accutest Laboratories, Southeast, Northern California, and Gulf Coast divisions. This includes project coordination between the facilities; instrument trouble shooting, repair, and installation; method validation guidance; and laboratory design and expansion. Mr. Farmer is familiar with the various QC and reporting criteria for Navy, U.S. Army Corps of Engineers, and AFCEE. He is responsible for implementing the DoD QSM processes throughout Accutest. Mr. Farmer also reviews Quality Assurance Project Plans to ensure that all data quality objectives and reporting requirements are met by laboratory.

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**James Roush**
**Technical Manager, New England**

Years with Firm: 2
Total Years Experience: 15
Degree: BS, Marine Biology

**Experience:** Mr. Roush is Technical Manager with Accutest New England. As an accomplished environmental scientist and analytical chemist with knowledge of IT administration, his experience includes laboratory and project management, interpretation of chemical data used in environmental forensic, investigations of manufactured gas plants, petroleum releases, railroads, pipelines, and utility sites, environmental and forensic sample analysis including hydrocarbon fingerprinting, alkylated PAHs, and petroleum biomarkers. Mr. Roush has substantial experience with soil, groundwater, sediment, NAPL and soil vapor sampling techniques and has performed vapor and particulate air monitoring on large remediation sites.

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**Stephen Grant**
**Vice President, Sales and Marketing**

Years with Firm: 13
Total Years of Experience: 25
Degree: BS, Chemistry

**Experience:** Mr. Grant is Vice President, Sales and Marketing, and has over 24 years of experience in both operations and sales roles in environmental laboratories. The last 14 years have been in direct sales and sales management. He is responsible for developing and implementing the company's sales and marketing strategy on a national basis. In addition, Mr. Grant manages Accutest's National Accounts Program. Prior to working in the environmental industry, he worked as a chemist in a research laboratory.

## Key Staff Profiles (continued)

**Kevin Gibbons**
**National Sales Manager**

Years with Firm 3
Total years of experience 15
Degree: BA, History

**Experience**: Mr. Gibbons is the National Sales Manager, where he is responsible for developing many of Accutest's largest national clients. Mr. Gibbons has over 14 years of environmental industry experience, all in a sales capacity. He also serves as Regional Sales Manager for the New England region and is responsible for managing the sales program in that territory. Prior to joining Accutest Mr. Gibbons worked for Environmental Data Resources as National Account Manager.

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**Matthew Cordova**
**Director, Corporate Client Services**

Years with Firm: 14
Total Years of Experience: 31
Degree: BS, Marine Biology

**Experience:** As the Client Services Director, Mr. Cordova is responsible for the implementation of the client services and project management activities within the lab. He also manages the sample log in process, to ensure that project specifications are accurately entered into the LIMS and communicated to the laboratory. Working in conjunction with the production managers, Mr. Cordova ensures that the Client Services Department meets project commitments and data quality objectives. Mr. Cordova's environmental laboratory experience includes, Atomic Spectroscopy, Inorganic Chemistry and management of Client Services, Quality Assurance, Health and Safety and Laboratory Operations.

ACCUTEST LABORATORIES

## Section 6.0

## Major Project Experience (continued)

| Experience (Engineering Firms) | | | |
|---|---|---|---|
| Project Type | | Project Description | Region |
| 1 | RIFS | ***Site Investigation/Remediation Soil*** and groundwater investigation for Fortune 50 Manufacturing Company. Full TCL/TAL analyses with emphasis on hexavalent chromium analyses. Project included treatability and leaching studies. | Mid-Atlantic |
| 2 | RCRA | ***Background Pre-Drill Groundwater*** analysis in support of hydraulic fracturing activities in the Marcellus Shale. Analyses include volatiles, dissolved gases, metals and various wet chemistry parameters. | Mid-Atlantic |
| 3 | RI | ***Long-Term RI to Establish Extent/Range of Pollutants*** in lake and stream sediments and water. Additional investigation/remediation of surrounding industrial sites. | Mid-Atlantic |
| 4 | RCRA | ***Massachusetts Turnpike Authority, Central Artery*** Concentrated effort to process 3000 post-excavation samples for a full suite of analysis. 48-72 hour TAT. LabLink used to electronically transfer the data for immediate validation and use. | New England |
| 5 | RIFS RCRA | ***Site Investigation/Remedial Investigation for Major Aerospace Company.*** Large on-going Site Investigation/Remedial Investigation in support of on-going construction activities. Full TCL/TAL analysis, expedited TAT, custom EDD and 3rd party validation. | Southeast |
| 6 | RIFS RCRA | ***Multiple Superfund RIFS Activities for Large Utility Company*** Full TCL/TAL analyses for Superfund sites in Puerto Rico, North Carolina and Florida. Full deliverables and extensive electronic deliverables. | Southeast |
| 7 | CLP RIFS RCRA | ***EPA Region 6 Laboratory Testing Support Contract*** Performed laboratory analytical services in support of evaluating on shore contamination originating from the Deep Water Horizon Oil Spill in the Gulf of Mexico. Services involved collection and analysis of environmental samples from field teams on a daily basis for over six months. | Gulf Coast |
| 8 | RCRA UST | ***Kentucky Natural Resources and Environmental Protection*** Underground Storage Tanks (UST) Program for over 300 sites in Eastern Kentucky. Analyzed groundwater and soil samples for BTEX, PAHs, Metals and RCRA Characteristics. Analyzed over 1000 samples in a 4 month period, all of which required expedited turnaround. | Central |
| 9 | RCRA | ***Major Petroleum Company Analysis*** of soil and water in support of oil and gas exploration activities. Analytical suite includes volatiles, semivolatiles, metals and various hydrocarbon analyses. | Mid-West |
| 10 | RIFS | ***Brownfields Investigations*** Multiple Brownfields sites throughout Oklahoma through a contract with a national consulting firm. | Mid-West |
| 11 | RCRA | ***Groundwater Monitoring and Waste Characterization*** Analysis at several major landfills including Full Appendix IX parameters and site-specific compounds. Modified analytical methods to reach site reporting limits. | West |
| 12 | RIFS | ***Site Investigation at Former Aerospace Manufacturing Site*** Full suite of analyses including Perchlorate and hexavalent chromium. | West |

ACCUTEST LABORATORIES

## Major Project Experience (continued)

| Experience (Industrial Projects) | | | |
|---|---|---|---|
| Project Type | | Project Description | Region |
| 1 | RCRA NPDES | ***Electric & Gas Company*** Extensive contract to support the Materials Management Group. Analytical services for MGP sites and facilities. Contract also includes emergency response and field sampling. | Mid-Atlantic |
| 2 | RCRA | ***Petroleum Refinery, St. Croix US Virgin Islands*** Large, on-going sampling and analysis program requiring Full Appendix IX and Appendix III analyses as part of a RCRA Facility Investigation (RFI) and RCRA permitted land and wastewater treatment unit monitoring. Customized preprinted chains of custody and sample bottle labels were supplied to the client in order to minimize time spent in the field. | Mid-Atlantic |
| 3 | RIFS RCRA | ***Blanket Analytical Contract for large Aerospace Manufacturer*** Contract includes Corporate Remediation and Facility Environmental Management. Full TCL/TAL, Appendix IX and RCRA analysis. Extensive development of electronic deliverable for integration into client database. Field sampling services supplied upon request. | New England |
| 4 | RCRA NPDES | ***Regional Petroleum Distributor*** Analytical support throughout New England for groundwater monitoring and site investigations. Major analyses include volatiles, PAH's, metals, soil vapor and ambient air. Provide routine courier service in multiple states. | New England |
| 5 | RIFS RCRA | ***Superfund Site in West Palm Beach*** Exclusive laboratory contract to support RIFS activity. Analyzed over 1800 samples for full suite of analysis. Extensive PCB studies. | Southeast |
| 6 | RCRA NPDES UST | ***Texas Natural Resource Conservation Commission Analytical Services*** Contract in support of Field Operations Division. Programs include UST, RCRA, and NPDES, utilizing EPA 600 and 8000 Series Methods. | Gulf Coast |
| 7 | RCRA | ***Electric/Utility Company, Gulf Coast Region*** Serve as the primary analytical testing laboratory for a major electric utility company in the Gulf Coast region in support of RCRA characterization of waste and transformer oils. Provided rapid TAT and emergency response capabilities. | Gulf Coast |
| 8 | RCRA | ***Custom analysis of hydraulic fracturing fluid*** for several oil & gas exploration companies. Also developed specialized analysis for dissolved gases and air. | Gulf Coast |
| 9 | RIFS RCRA | ***Multiple RIFS/RCRA sites throughout the mid-west.*** Analyses of soil and ground-water for full TCL/TAL. State-specific methods utilized as needed. Custom electronic data deliverables. | Central |
| 10 | RCRA | ***Former Steel Manufacturing Site*** Waste Characterization and groundwater monitoring. Analysis included full TCLP on rush turnaround. | Mid-West |
| 11 | DOE | ***High Profile Groundwater and Soil Investigation and Remediation Project*** of a two mile linear accelerator. Thousands of samples on an expedited turnaround time during the life of the project. | West |

ACCUTEST LABORATORIES

## Major Project Experience (continued)

| Experience (DoD Projects) | | | |
|---|---|---|---|
| Project Type | | Project Description | Region |
| 1 | DoD | ***US Army Corps of Engineers, Philadelphia District.*** Indefinite delivery contract for several large scale investigation and remediation projects within the district. Provide full data deliverable packages, SEDD EDD and ADR EDD. | Mid-Atlantic |
| 2 | DoD | ***Regulatory Compliance Sampling and Analysis*** throughout Naval Air Station. Sampled groundwater monitoring wells, wastewater grab and 24-hour composites, soil and waste drum samples. Analyzed for priority pollutants, waste classification and general chemistry parameters. | New England |
| 3 | DoD | ***Department of the Army, Natick R&D Laboratories*** Analytical to support Field Site Investigations, Treatability Studies and Groundwater Monitoring. Analyses included full TCL+ and Mercury. | New England |
| 4 | DoD | ***Department of the Airforce, Airforce Center for Environmental Excellence*** Multiple RIFS, SI and Groundwater Monitoring Programs at Cape Canaveral. 600 samples analyzed on an expedited basis for TCL Volatiles and EPA Method 8310. Provided reduced CLP deliverables package and an ERPIMS EDD. | Southeast |
| 5 | DoD | ***Department of the Navy, Southern Division Navy Clean Contract*** 1600 samples analyzed according to NFESC protocol. Analyses included Full TCL/TAL and EPA Method 8330. Sites include NAS Cecil Field, NAS Jax, NAS Key West, NTC Orlando, NAS Pensacola, and Eglin AFB. | Southeast |
| 6 | DoD | ***Department of the Navy, Atlantic Division Navy Clean Contract*** RIFS activities at Camp Lejuene, USN Cherry Point, and Yorktown Naval Weapons Station. Data electronically transferred via LabLink to expedite the validation of 250 samples. | Southeast |
| 7 | DoD | ***US Army Corps of Engineers*** Fort Wingate, New Mexico, site investigation: Expedited 150 samples for Full TCL/TAL plus Explosives. | Gulf Coast |
| 8 | DoD | ***US Army Corps of Engineers*** quarterly ground-water and soil monitoring at The Plum Brook Ordnance Works Sandusky, Ohio and The West Virginia Ordnance Works remediation, Mason County, WV. 300 samples per quarter analyzed for Nitroaromatics, Volatiles, Semi-Volatiles, TAL Metals and PCB's. Results in ERPIMS deliverables and custom EDDs. | Central |
| 9 | DoD | ***Department of the Army, Chicago District*** Treatability Study for the Indiana Harbor Confined Disposal Facility. Analysis included Full TCL/TAL using SW846 Methodology. | Central |
| 10 | DoD | **Department of the Air Force, Air Force Center for Environmental Excellence** Multiple groundwater and soil monitoring programs at McConnell Air Force Base, Kansas. 450 samples analyzed for Volatiles, Semi-Volatiles, PCB's, TPH, Pesticides and Herbicides. Soil and ground-water disposal parameters including a full suite of TCLP parameters. | Mid-West |
| 11 | DoD | ***US Army Corps of Engineers*** Quarterly ground-water and soil monitoring at former BRAC installation. 300 samples analyzed for Volatiles and inorganic analysis. Project requires utilization of Passive Diffusion Sampling Bags (PDS) provided prefilled by laboratory. Level 4 deliverables and ADR EDD. | West |
| 12 | DoD | ***Department of the Air Force*** RIFS over 400 samples from Air force base located in the Hawaiian Islands. 2-3 day TAT for Pesticides, PAH's and PCB's with level 4 deliverables and ERPIMS EDD. | West |

ACCUTEST LABORATORIES

## Representative Client List

AECOM
AMEC
Amerada Hess
Arcadis
Ashland Chemical
ATC
Atofina Petroleum Chemicals
Beazer
BEM Systems
Brenntag
Brown and Caldwell
Cabot Oil & Gas
Chesapeake Energy
Chrysler
Citgo
Clean Harbors
Conestoga-Rovers & Associates
Conoco Phillips
CSXT
Dow Chemical
EA Engineering
El Paso
Ensafe
ERM
Exxon Mobil
Ford
Gannet Fleming
General Electric
GEI Consultants, Inc
GES
Getty Petroleum
Golder Associates
Granite Construction
HDR Engineering
Hoffman - La Roche Inc.
Honeywell International Inc.
IBM
Kleinfelder
Langan Engineering
MACTEC
Marathon Petroleum
MWH Americas
NiSource
O'Brien & Gere Engineers, Inc.
Occidental
OP-TECH Environmental Services
PPG Industries
PSI
Republic
Roux Associates
Shaw
Shell
SouthWest Water Corp.
Sovereign Consulting
Stantec
Sunoco
Terracon
Tetra Tech
TRC
United Technologies
Warren Equities
Weston Solutions
Williams Energy
WSP

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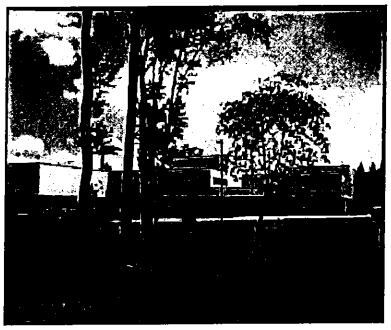

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