

January 15, 2004

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Alameda County

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FINAL REPORT
OF
ENVIRONMENTAL REMEDIATION
ACTIVITIES
at the
Hall Property
1455 5th Street
Oakland, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 West El Pintado Road
Danville, CA 94526
(925) 820-9391

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1.0 INTRODUCTION

This report details the work performed by Aqua Science Engineers, Inc. (ASE) as it relates to the assessment, overexcavation, and offsite disposal of lead-contaminated soil at 1455 5th Street in Oakland, California (Figure 1). The assessment and excavation activities were initiated by the property owners, Mr. Andy Hall and Ms. Jean Stephan Hall.

2.0 BACKGROUND INFORMATION

The subject site existed as a vacant property with two wooden structures, a concrete pad, and areas of weed covered dirt. The site is within a mixed residential and commercial area, just south of the 5th Street BART Station. The site is completely fenced.

2.1 July 2001

In July 2001, a prospective purchaser of the property hired Lowney Associates of Mountain View, California to conduct a limited soil assessment. Two soil borings were drilled, and analysis of the soil samples identified elevated lead concentrations up to 410 parts per million (ppm).

2.2 January 2002

In January 2002, ASE was hired by the property owners to perform a subsurface soil assessment at the site to confirm the results of the Lowney assessment. On January 4, 2002, ASE drilled soil borings B-1 and B-2 at the site using a hand auger. Vironex, Inc. of San Leandro, California drilled soil borings B-3, B-4 and B-5 using a Geoprobe hydraulic sampling rig (Figure 2). Soil samples were collected from each boring at 12-inches, 24-inches, 36-inches and 48-inches below ground surface (bgs). The 12-inch and 24-inch soil samples from each boring were analyzed at a CA-DHS certified laboratory for hydrocarbons and total lead. Several of the 12-inch deep soil samples contained elevated concentration of total lead, ranging from 390 ppm to 1,800 ppm. All of the 24-inch deep soil samples contained only very low concentrations of total lead. None of the soil samples contained hydrocarbons at or above levels of concern.

Based on the data rendered during the January 2002 site assessment, it was obvious that the site contained soil contaminated with lead, and that excavation and off-site disposal would be required.

2.3 March 2003

In March 2003, soil borings B-6 through B-20 were drilled in equally-spaced locations on the property and within the rear building. Vironex, Inc. of San Leandro, California drilled twelve of the soil borings using a Geoprobe hydraulic sampling rig. ASE used a hand auger to drill soil borings B-12, B-16 and B-20 (Figure 2). The soil samples collected from 1 and 2-feet from all fifteen soil borings were analyzed by STL San Francisco (STL) of Pleasanton, California (CA DHS #1094) for total lead by EPA Method 6010. Based on the results of these samples, the 3-foot soil sample from three of the soil borings and the 4-foot sample from one of the soil borings were also analyzed for total lead. The results of this investigation concluded that soil from the surface to approximately 18-inches below grade over the majority of the property contained elevated concentrations of total lead. See Table One and Figure 2.

ASE prepared a report dated April 28, 2003 that recommended removal of all lead-impacted soil above the Risk-Based Screening Level (RBSL) for surface soil with residential use permitted as presented in the California Regional Water Quality Control Board, San Francisco Bay Region "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document dated December 2001. The cleanup goal for this project was 200 parts per million (ppm).

ASE received a letter dated September 21, 2003 from the Alameda County Health Care Services Agency (ACHCSA) stating that the workplan had been approved (Appendix A). ASE then applied for and received a building demolition permit from the City of Oakland to demolish and remove the two structures on the property (Appendix A).

3.0 ASBESTOS AND LEAD SURVEY OF BUILDINGS

ProTech Consulting and Engineering of Redwood City, California was subcontracted by ASE to perform a lead-based paint and asbestos study of the building materials of the two structures on site. Their report concluded that some of the building materials contained both lead-based paint and asbestos. A copy of their report is attached in Appendix B.

4.0 SITE DEMOLITION

Prior to site mobilization, all utilities were cut, capped or removed by PG&E. Iconco, Inc. of Oakland, California was subcontracted by ASE to perform all of the building and surface material demolition and disposal.

Between November 3 and November 5, 2003, all of the building materials that contained lead-based paint and/or asbestos were removed by Iconco's subcontracted crew and disposed of properly.

The buildings and concrete surfaces were then removed and disposed of at a local landfill.

5.0 OVEREXCAVATION AND SOIL OFFHAULING ACTIVITIES

On November 6, 2003, all field personnel reviewed and signed the site specific health and safety plan prepared by Mr. Kevin Braun, CIH, of Earth Safety Dynamics. Mr. Braun was responsible for health and safety issues relating to the excavation and stockpiling activities. A copy of the personnel and fenceline air sampling report confirming safe working conditions is attached in Appendix C.

Using the analytical data of the prior soil borings, the area of excavation was outlined, and depths were measured and confirmed during the excavation process. For the most part, the soil was loaded directly onto the trucks as it was removed from the excavation. While waiting for the trucks to return, excavated soil was stockpiled.

The excavated soil was loaded onto Roger's Trucking trucks and deposited at Pier 96 in San Francisco. The soil was then loaded onto rail-cars and delivered to the ECDC facility in East Carbon, Utah where it was accepted as hazardous waste. See Appendix D for copies of the manifests. A total of 14 truckloads of soil were removed from the subject site, weighing 349.54 tons.

6.0 SOIL SAMPLE COLLECTION AND ANALYSES

When the excavation activities discussed above were completed, eight (8) bottom of excavation soil samples were collected (XCON-A through XCON-H) to confirm that all of the soil containing total lead above 200 ppm was removed (see Figure 3). The samples were collected from the bottom of the excavation at depths ranging from 18-inches to 48-inches below ground surface. Soil from the bottom of the excavation was placed directly into brass sample tubes by using the tube itself as a collection device. The ends were then covered with Teflon tape and plastic end caps. Each sample was then discretely labeled and placed into an ice chest containing wet ice. The soil samples were submitted to McCampbell Analytical of Pacheco, California (CA DHS #1644) under chain of custody

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procedures for analysis of total lead by EPA Method 6010 on RUSH turnaround.

Analytical results of all eight confirmation soil samples confirmed residual total lead concentrations well below the target clean-up goal of 200 ppm. The analytical results are tabulated in Table Two, and the certified analytical results with chain of custody documents are presented in Appendix E.

7.0 BACKFILLING AND RESURFACING

The excavation was backfilled with clean, import material on November 17, 2003 by Iconco and ASE personnel.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Soil containing elevated concentrations of lead were removed from the subject site and disposed of at the ECDC facility in East Carbon, Utah where it was accepted as hazardous waste. Confirmation soil samples collected from the bottom of the excavation confirms that all of the lead-bearing soil was removed to levels acceptable for residential development.

9.0 REPORT LIMITATIONS

The results of the assessment activities described within represent conditions at the time of the soil sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

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Should you have any questions or comments, please call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen

Senior Project Manager





Robert E. Kitay, R.G., R.E.A.

Senior Geologist

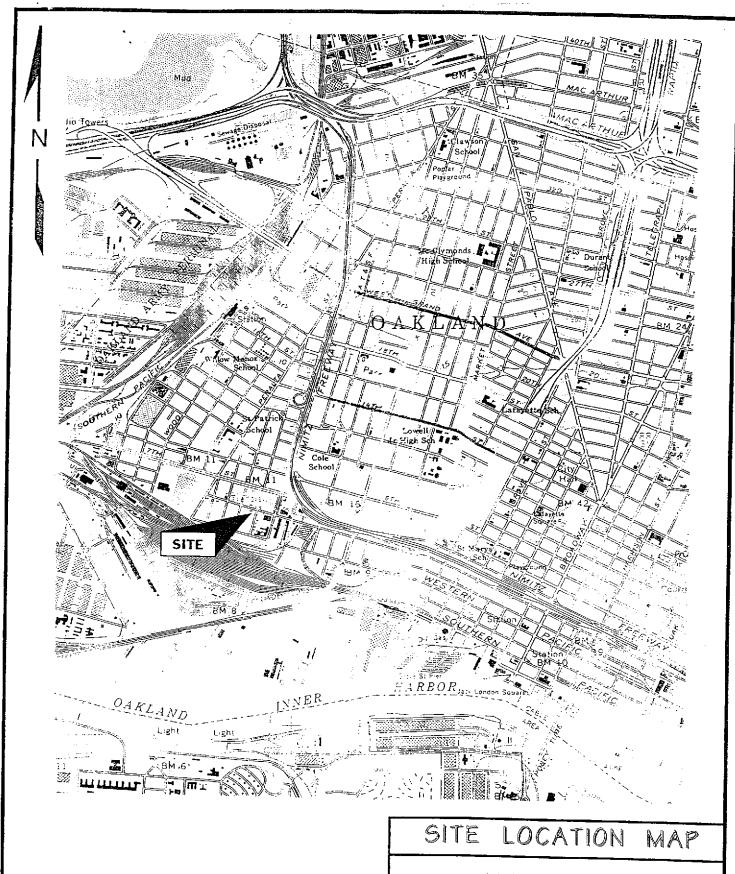
cc: Mr. Andy Hall, Chemical Compounding Company, 791 66th Avenue, Oakland, CA 94621

Ms. Jean Stephan Hall, 277 Castle Hill Ranch Road, Walnut Creek, CA 94595.

Mr. Larry Jones, CB Richard Ellis, Inc., 155 Grand Avenue, Suite 100, Oakland, CA 94612

Mr. Barney Chan, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

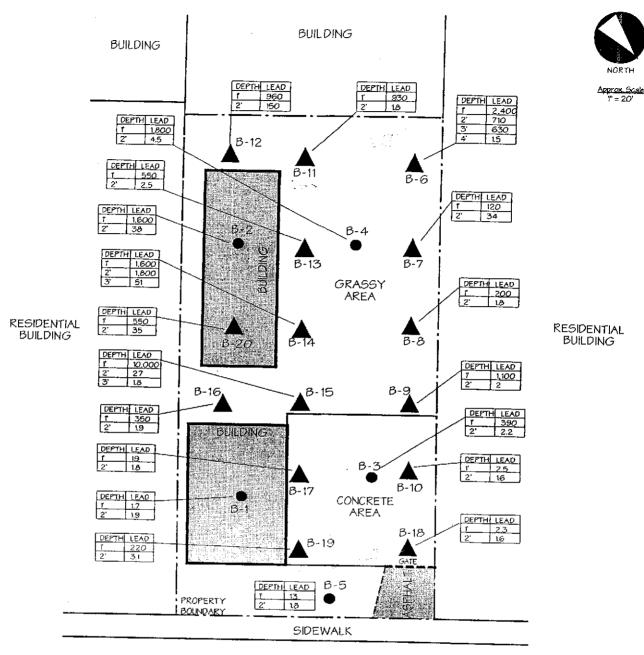
- 5 -



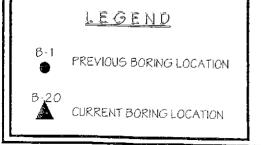
1455 5th Street Oakland, CA 94621

Scale: 1 inch = 2,000 feet Aqua Science Engineers

Figure 1



5TH STREET



SOIL BOPING LOCATION MAP

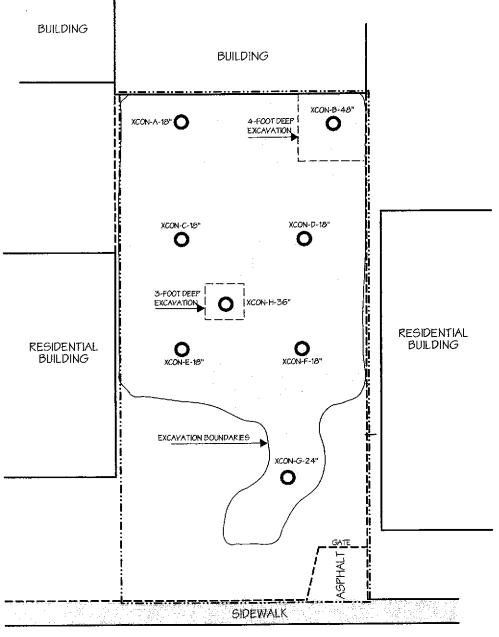
VACANT PROPERTY 1455 5TH STREET OAKLAND, CA

AQUA SCIENCE ENGINEERS

FIGURE 2



Approx. Scale 1" = 20"



5TH STREET

LEGEND

XCON-H-36*

CONFIRMATION SOIL SAMPLE LOCATION

CONFIRMATION SOIL SAMPLING MAP

VACANT PROPERTY 1455 5TH STREET OAKLAND, CA

AQUA SCIENCE ENGINEERS

FIGURE 3

TABLE ONE

Soil Boring Analytical Results Total Lead Concentrations In Soil

Hall Property

1455 5th Street, Öakland, California All Results in Parts Per Million

	rarus rerivillion
SAMPLEID.	TOTALLEAD
B-1-1'	1.7
B-1-2'	1.9
B-2-1'	1600
B-2-2'	38
B-3-1'	390
B-3-2'	2.2
B-4-1'	1800
B-4-2'	4.5
B-5-1'	13
B-5-2'	1.8
B-6-1'	2400
B-6-2'	710
B-6-3'	630
B-6-4'	1.5
B-7-1'	120
B-7-2'	34
B-8-1'	200
B-8-2'	1.8
B-9-1'	1100
	2.0
B-9-2'	2.5
B-10-1'	1.6
B-10-2'	930
B-11-1'	1.8
B-11-2'	960
B-12-1'	15 <i>0</i>
B-12-2'	55 <i>0</i>
B-13-1'	
8-13-2'	2.5
B-14-1'	1600
B-14-2'	1800
B-14-3'	51
B-15-1'	10000
B-15-2'	27
B-15-3'	1.8
B-16-1'	35 <i>0</i>
B-16-2'	1.9
B-17-1'	19
B-17-2'	1.8
B-18-1'	2.3
B-18-2'	1.6
B-19-1'	220
B-19-2'	3.1
B-20-1'	550
B-20-2'	35
EPA Method	6010
EL ATTRIOUNOU	

TABLE TWO

Confirmation Soil Samples Results Total Lead Concentrations In Soil **Hall Property**

1455 5th Street, Oakland, California All Results in Parts Per Million

SAMPLE	TOTAL
<u>IDENTIFICATION</u>	LEAD
XCON-A-18"	< 5.0
XCON-B-48"	< 5.0
XCON-C-18"	85
XCON-D-18"	< 5.0
XCON-E-18"	< 5.0
XCON-F-18"	< 5.0
XCON-G-24"	< 5.0
XCON-H-36"	< 5.0
EPA Method	6010

APPENDIX A

ACHCSA Approval Letter
Dated September 21, 2003
and
City of Oakland Demolition Permit

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

September 21, 2003

Mr. Andy and Mrs. Jean Hall 791 66th Ave. Oakland, CA 94621-3713

Dear Mr. and Mrs. Hall:

Subject: Environmental Case No. RO0002537, 1455 5th St., Oakland, CA 94607

Alameda County Environmental Health staff has reviewed the case file for the referenced site including the Aqua Science Engineers (ASE) August 8, 2003 Workplan for Excavation and Offsite Disposal of Lead-Bearing Soil. The work plan proposes the excavation of specific areas of the property to defined depths and the collection and analysis of confirmation soil samples for lead. Our office concurs with the work plan, however, please observe the following technical comment when performing this work.

TECHNICAL COMMENT

1. The area of proposed excavation near former boring B-14 should be increased to a depth of 3' based upon prior analytical data.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely.

Barney M. Chan

Hazardous Materials Specialist

Barney M Cha_

C: B. Chan, D. Drogos

√Mr. Dave Allen, Aqua Science Engineers Inc., 208 W. El Pintado, Danville, CA 94526

Wpap1455 5thSt

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 1455 5TH ST Descr Demolish 600 s		Parcel# 004 -0075-0	Di Pe	Appl# RB0304135 strict: RD-INSP 01 ermit Issued 10/01/03 schedule inspection
Related RB0304136				call (510) 238-3444
Scope: Building: YES	Electrical: NO	Mechanical· NO	Plumbing	NO .
Work Type DEMOLITION	#Units	Plans	Energy Calca	
Bldg Sq Ft 600	#Stories	Survey	Struct Calca	
Est Value	Const Type	Soil Report	Occur Codes	·
IBIAG USE MISC. STRUCTUR	₹E	Sprinkler	Zonina	•
		Applont Phone#	Lic#L	icense Classes
Owner HALL ANDREW A	& JEAN S			
Contractor AQUA SCIENCE	ENGINEERS, INC.	X (925)820-93	91 487000 A	.C57
Arch/Engr				
Agent				10.29
Applic Addr 208 WEST EI	PINTADO, DANVIL	LE, CA., 94526	Alberton. Grant State	er om det geleger i de de la companya de la company
\$588.85 TOTAL FEES F	AID AT FILING	\$.00	TOTAL FEES P	AID AT ISSUANCE
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CITY OF OAKLAND . Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 1455 5TH ST BLD B Parcel# 004 -0075-008-02 Appl# RB0304136 District: RD-INSP 01 Permit Issued 10/01/03 Descr Demolish 600 sf bldg. To schedule inspection call (510) 238-3444 Related RB0304135 Scope: Building: YES Electrical: NO Mechanical: NO Plumbing: NO Work Type DEMOLITION #Units Plans Energy Calcs Survey Struct Calcs Bldg Sq Ft 600 #Stories Const Type Soil Report Occup Codes
Sprinkler Zoning Est Value Sprinkler Bldg Use MISC. STRUCTURE Applicat Phone# Lic# --License Classes--Owner HALL ANDREW A & JEAN S Contractor AQUA SCIENCE ENGINEERS, INC. X (925)820-9391 487000 A C57 Arch/Engr Agent Applic Addr 208 WEST EL PINTADO, DANVILLE, CA., 94526 \$588.85 TOTAL FEES PAID AT FILING \$.00 TOTAL FEES PAID AT ISSUANCE \$51.00 Applic \$.00 State Regs \$292.00 Process \$.00 School \$.00 Bedroom \$.00 Plot Plan \$.00 Address \$.00 \$.00 \$.00 SMIP \$.00 Fire \$.00 Zone Conds \$18.44 Recd Mgmt \$22.54 Gen Plan \$204.87 Inspects \$.00 Invstg \$.00 Other \$.00 Fld Chk \$.00 Zone Insp \$.00 Proc Coord Permit Issued By Date Plans Checked By Special Inspections Finaled By _____

APPENDIX B

ProTech Consulting & Engineering Asbestos & Lead Sampling Report

1755 E. Bayshore Road, Suite 14B, Redwood City, CA 94063 (650) 569-4020 Fax (650) 569-4023

Date: September 12, 2003 Report #: **1009-MA03**

DHS Certified Inspector: Glen Koutz

LEAD SURVEY AND EVALUATION

CONDUCTED AT:

1455 5th Street Oakland, California

PREPARED FOR:

Mr. Dave Allen Aqua Science 208 West El Pintado Danville, CA 94526

PREPARED BY:

PROTECH CONSULTING AND ENGINEERING

INTRODUCTION

On September 10, 2003, **ProTech Consulting and Engineering** performed a cursory survey to detect the presence of lead paint at two building located at 1455 5th Street, Oakland, California. Lead survey work was performed for the purpose of identifying the presence of lead-based (LBP) paint on major building components on each structure. ProTech's lead survey services were conducted at the request of Mr. Dave Allen with Aqua Science of Danville, California.

The following report presents the results of ProTech's lead building survey. Lead-related consulting services were conducted by Mr. James Ratti. The objective of ProTech's lead survey was limited to providing the following scope services:

- Conduct an survey of the subject sites to identify suspect LBP on major building components.
- Take random reading of painted surfaces by X-ray fluorescence (XRF) detector to determine the presence of lead-based paint on major building components.
- Make general recommendations as appropriate.

This screening survey was conducted for the purpose of generally characterizing the presence of lead-based paint on major building components. ProTech does not represent this screening survey as a comprehensive survey or evaluation. This survey and the sampling methodology used during this scope of work did not comply with comprehensive HUD lead survey methods of protocol.

RESULTS

Lead was detected in various amounts on a variety of building components. Sample results fell into one of three categories a follows:

	Lead-based paint (LBP)	1 milligrams of lead per square centimeter (mg/cm ²) or greater
	(LCP)	This on or load
3	No detected lead (ND	0 or <0 mg/cm ² of lead

There were a total of nineteen (19) XRF reading taken including six (6) calibration readings. The results of these reading are summarized as follows:

Front Structure

LBP:	I reading tested positive for lead-based paint (LBP).
LCP:	4 readings tested positive for lead-containing paint.
ND:	No lead was detected in 5 readings.

Rear Structure

LBP:	1 readings tested positive for lead-based paint (LBP).
LCP:	0 readings tested positive for lead-containing paint.
ND:	No lead was detected in 1 reading.

An inventory of all sample results can be found in the attached "Lead Survey Report". Paint sampling was not comprehensive or representative of all painted surfaces.

CONCLUSION AND RECOMMENDATION

- At the clients request, Supplemental paint chip sampling may be performed to confirm XRF sample location where no lead was detected (0.0 mg/cm²). Cal OSHA does not accept a zero XRF reading as conclusive data to prove that no lead is present.
- Any work performed at the site where LBP or LCP is likely to be disturbed should be
 performed by a contractor trained and qualified to perform lead-related construction
 work. Any work perfumed to remediate a lead hazard should be performed by DHS
 certified personnel employing lead work practices in accordance with HUD guidelines.
- Contractor's, whose employees work at this site are required to assess if their work will be subject to the requirements of the Cal OSHA lead construction standard (CCR Title 8 § 1532). Cal OSHA standards are designed to regulate and enforce on-the-job worker safety. Employers are required by law to ensure that employees are not exposed to airborne lead levels which exceed the permissible exposure limit (PEL). The standard requires worker exposure monitoring, medical surveillance, training, special work practices, etc.

Cal OSHA requires compliance with their lead construction regulation when:

- 1. The permissible exposure limit (PEL) will or may be exceeded. The PEL is an exposure to airborne lead dust of 50 micrograms of lead per cubic meter of air $(50 \mu g/m^3)$ over an 8 hour time weighted average (TWA).
- 2. Employees perform "trigger activities" that impact a material containing lead in any detectable amount. Cal OSHA mandates that an employer assume the PEL will be exceeded when his/her employees conduct "trigger activities" involving lead. Trigger activities are defined as follows:

Trigger Activity	Anticipated Exposure	Required Respirator
 Manual demolition Manual scraping and sanding Heat gun use Use of power tools with dust collection systems Spray painting with lead paint Any other activity that the employer has any reason to believe that an employee may be exposed in excess of the PEL. 	50-100 μm/m ³	Half-mask, air purifying

Using lead containing mortar Lead burning Rivet busting Power tool cleaning without dust collection system Cleaning Collection	500-2500 μm/m ³	Full-face, air purifying, or Tight fitting PAPR, or Supplied air, contiguous flow
 Clean-up of dry abrasive blast residue. Abrasive blasting Welding Cutting Torch burning. 	>2500 μm/m ³	Supplied air, pressure demand

- Contractors whose employees will be working on this project are required to assess lead exposure risk to their employees (as per Cal OSHA lead standard CCR Title 8 § 1532.1). In making this evaluation, contractors should:
 - 1. Review all lead related documents and reports.
 - 2. Become familiar and comply with Cal OSHA and other applicable lead regulations.
 - 3. Make an assessment to determine potential worker exposure relative to the various lead-related construction work to be performed.
 - 4. Collect supplemental data/samples if necessary.
 - 5. Assess and monitor worker lead exposure levels during the performance of lead trigger tasks or other activities that may potentially expose workers to levels above the Cal OSHA permissible exposure level.
 - 6. Determine compliance requirement relative to DOSH notification rules.
- Painted surfaces that contain levels of lead below 1 mg/cm², may create lead lead-contamination if paint is turned into dust by abrasion, scraping, or sanding. This report should be kept by the owner and all future owners for the life of the building.
- Samples reported at greater than 0.0 mg/cm² are considered to contain detectable amounts of lead. These results are reported with a 95% confidence limit as calculated by the XRF unit as required by HUD guidelines.
- ProTech recommends that the building owner disseminate this report as well as any
 other lead-related information to all prospective contractors bidding work at the subject
 site. Contractor should be encouraged to evaluate and possibly supplement this data to
 assess potential worker exposure impact and possible regulatory requirements
 associated with their particular construction scope of work.

LEAD STANDARDS

The following is a discussion of the lead paint, dust, and soil standards established by the California Department of Health Services (DHS), California Occupational Safety and Health Administration (Cal OSHA), Environmental Protection Agency (EPA), and U.S. Department of Housing and Urban Development (HUD). These standards were used to compare with the sample results obtained during the risk assessment of the subject property.

Lead-Based Paint and Lead-Containing Materials:

The DHS, EPA, and HUD define "lead-based paint" (LBP) as any surface coating which contains a lead content of 5,000 parts per million (ppm) (or 0.5% by weight) or greater. Accordingly, surface coatings containing a lead content below these levels are not considered LBP and are not considered a hazard as defined by DHS, EPA, and HUD. LBP can present a lead hazard if the paint is damaged or deteriorated.

Cal OSHA defines lead-based paint at the Consumer Product Safety Commission's (CPAC) level of 600 ppm for non-trigger tasks (trigger tasks are discussed in the Lead-based Paint Regulation section of this report). However, when trigger tasks are conducted, the Cal OSHA regulation must be followed when there is **any detectable lead** in the product being disturbed.

Government Agency	Lead-based Paint Definition	Lead-containing Material Definition	
OSHA and Cal OSHA	600 ppm or greater	Any detectable amount	
DHS	1 mg/cm ² or 5,000 ppm (or greater)	N/A	
EPA	1 mg/cm ² or 5,000 ppm (or greater)	N/A	
HUD	1 mg/cm ² or 5,000 ppm (or greater)	N/A	

Lead In Dust:

The DHS, EPA, and HUD have each established lead in dust standards to define the presence of a lead hazard. According to these agencies, a lead hazard is determined to be present when lead wipe sample results are at or above the following hazard levels.

Sample Location	Hazard Level
Hard Floors	40 μm/sq ft (50 DHS)
Interior Window Sills	$250 \mu\text{m/sq ft}$
Exterior floors & horizontal window surfaces	400 μm/sq ft

Lead In Soil:

The DHS, EPA, and HUD have each established lead in bare soil standards to define the presence of a lead hazard. According to these agencies, a lead hazard is determined to be present when bare soil sample results are at or above the following hazard levels.

Sample Location	DHS Hazard Level
Bare Soil (dwelling perimeter and yard)	1,000 PPM
Bare Soil (children's play areas)	400 PPM

LEAD-BASED PAINT REGULATIONS

California Department of Health Services (DHS) - Title 17, CCR, Division 1, Chapter 8, Sections 35000-361000:

The DHS has implemented a comprehensive regulation that provides an accreditation process for lead training providers and professionals. This regulation requires anyone conducting lead paint surveys, risk assessments, lead paint abatement and lead hazard reduction work in any public or residential building to be DHS trained and certified.

A written abatement plan describing exposure prevention procedures, abatement methods, items to be abated, re-survey recommendations, and instructions on how to maintain

Lead Building Survey
Aqua Science / 1455 5th Street, Oak, CA

potential lead hazards in a safe condition is required for all abatement work. DHS also requires notification of upcoming abatement work on Form 8551. This form must be posted at all job site entrances five days before abatement begins.

The standard requires inclusion of certain elements in each hazard evaluation report including a copy of DHS Form 8552. In addition, the standard requires the use of HUD guidelines when performing lead risk assessments, surveys, monitoring, abatement and interim control work.

Environmental Protection Agency (EPA) - Title X:

Under the Housing and Community Development Act of 1992 (Title X) Congress required the EPA to take on many responsibilities. A few of the key issues are discussed below.

On August 28, 1996, the EPA issued a model lead training and accreditation regulation. States were given two years to develop their own programs or adopt the EPA program. In California, the Department of Health Services (DHS) has developed a state training and accreditation program which is currently in effect.

In March 1996, the EPA issued the Real Estate Notification and Disclosure Rule. This rule requires owners of all private housing built before 1978 to take four actions, as follows:

1. Disclose any known hazards to potential buyers or renters.

2. Give potential buyers or renters the EPA/HUD lead disclosure pamphlet titled "Protect Your Family from Lead In Your Home."

3. Allow potential buyers ten days to conduct an optional survey or risk assessment.

4. Add language to real-estate contracts that confirms compliance with the activities described above.

The EPA's objective is to control renovation and remodeling work done in homes that might create lead dust hazards. In May 1998, they issued a regulation that will take effect in June 1999 requiring contractors working in pre-1978 homes to notify the owner if they will disturb more that two square feet of lead-paint.

Department of Housing and Urban Development (HUD):

HUD was the first agency to develop lead standards. By the end of the 1980's, HUD was developing numerous regulations and guidance documents to be used on HUD funded properties. In 1989, HUD published the most comprehensive lead guidance document for survey and management of lead paint hazards to date. A new guidance document ("Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing") for risk assessments, surveys, interim controls, and abatement of lead-based paint hazards replaced the old standard in August 1995. Chapter 7 of the 1995 guideline was revised in October 1997.

The new HUD Standard remains the most comprehensive lead risk assessment, survey, management, and abatement guidance document. Many other federal, state, and local regulations mandate compliance with HUD Guidelines.

California Occupational Safety and Health Administration - CCR Title 8 § 1532:

Cal OSHA regulations are designed to regulate and enforce on-the-job worker safety. Employers are required by law to ensure that employees are <u>not</u> exposed to airborne lead levels which exceed the permissible exposure limit (PEL) of 50 micrograms of lead per cubic meter of air (50 μ g/m³) over an 8 hour time weighted average (TWA). Both California and Federal OSHA standards requires worker training, air monitoring to

determine work exposure to lead, initial blood testing, personal protective equipment, and specific work practices and engineering controls whenever employees disturb lead in any concentration (including less than 600 ppm) where the disturbance will result in exposures to airborne lead in concentrations over the OSHA Action Limit or PEL. OSHA mandates that an employer assume the PEL will be exceeded when conducting "trigger activities".

The Cal OSHA standard also requires DHS lead training and certification for any supervisors or workers who are shown to be exposed to airborne lead levels above the PEL.

Thank you for this opportunity to be of service, please contact me if you require additional information.

Respectfully Submitted,

Glen Koutz DHS Certified Lead Inspector I2204

LEAD PAINT INSPECTION REPORT

REPORT NUMBER:

S#01369 - 09/10/03 14:52

INSPECTION FOR:

Aqua Science

208 West El Pintado Danville, Ca. 94526

PERFORMED AT:

1455 5th Street Oakland, Ca.

Protech Job#1009-LA03

INSPECTION DATE: 09/10/03

INSTRUMENT TYPE: R M D

MODEL LPA-1

XRF TYPE ANALYZER Serial Number: 01369

ACTION LEVEL: 1.0 mg/cm**2

OPERATOR LICENSE: California General

STATEMENT:

Lead paint survey as agreed.

No representations are made for any areas not tested.

SIGNED

_ DATE Protech Consulting & Engineering 1755 E. Bayshore Rd. Suite 14B

Redwood City, Ca. 94063 Phone: 650-569-4020 Fax: 650-569-4023

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Aqua Science

Inspection Date:

09/10/03

1455 5th Street

Report Date:

9/11/03

Oakland, Ca.

Abatement Level:

1.0

S#01369 - 09/10/03 14:52 19 Actionable: 2 09/10/03 14:52

Protech Job#1009-LA03

Report No. Total Readings:

Job Started:

Job Finished:

09/10/03 15:12

Read No.	l Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm≤)	Mode
Exte	rior R	oom 001 Numbe	r Only		··			<u> </u>	
	A	Door	Lft	U Ctr	I	Wood	Gray	1.0	QM
011									

Calibration Readings

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Aqua Science

Inspection Date: Report Date:

09/10/03

1455 5th Street

Report Date:

Report No.

9/11/03

Oakland, Ca.

Abatement Level:

1.0

S#01369 - 09/10/03 14:52 Protech Job#1009-LA03

Total Readings:

Job Started: Job Finished: 19 09/10/03 14:52 09/10/03 15:12

Read	-				Paint		Paint	Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm≤)	Mode
	t Buil	- /					· · ·		
Exte	rior R	oom 001 Number	c Only						
014	A	Wall	U Lft		I	Drywall	White	0.3	QΜ
013	A	Window	Ctr	Sash	I	Metal	Green	0.2	QM
012	A	Door	Lft	Lft jamb	I	Wood	White	0.0	QM
011	Α	Door	Lft	U Ctr	I	Wood	Gray	1.0	QM
Rear	Build:	ing							
015	D	Wall	U Ctr		I	Concrete	White	-0.2	QM
016	D	Door	Rgt	L Ctr	I	Wood	Black	1.8	QM
Fron	t Build	ding			<u>_</u>				
Inte	rior Ro	oom 001 Number	Only						
004	Α	Wall	U Ctr		I	Drywall	White	-0.1	QM
009	A	Window	Ctr	Sash	I	Metal	White	0.0	QM
010	A	Window	Ctr	Sill	I	Wood	White	-0.4	QM
800	A	Door	Rgt	Lft casing	I	Wood	White	0.1	QM
007	Α	Door	Rgt	U Ctr	ľ	Wood	White	-0.2	QM
006	В	Wall	U Ctr		I	Concrete	White	0.5	QM
005	С	Wall	U Ctr		I	Wood	White	-0.1	QM
	bration	n Readings							
001								1.0	TC
002								1.1	TC
003								0.9	TC
017								1.0	TC
018								1.1	TC
019								1.0	TC
		-	End of	Readings					



1755 E. Bayshore Road, Suite 14B, Redwood City, CA 94063 (650) 569-4020 Fax (650) 569-4023

Date: September 11, 2003 Report #: 1009-LA03

DOSH Certified Site Surveillance Technician: Emanuel Dounias

Certificate No.: 90-2766

ASBESTOS SURVEY AND EVALUATION

CONDUCTED AT:

1455 5th Street Oakland, California

PREPARED FOR:

Mr. Dave Allen Aqua Science 208 West El Pintado Danville, CA 94526

PREPARED BY:

PROTECH CONSULTING AND ENGINEERING

September 2003

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Introduction

On September 10, 2003, ProTech Consulting and Engineering performed a selective scope inspection for asbestos-containing materials (ACM) and asbestos-containing construction materials (ACCM) of a commercial building located at 1455 5th Street, Oakland, California. ProTech's asbestos inspection services were conducted at the request of Mr. Dave Allen with Aqua Science, of Danville, California.

The following report presents the results of ProTech's asbestos building survey. Asbestos-related consulting services were conducted by Mr. Emanuel Dounias. Mr. Dounias is a Cal-OSHA Certified Site Surveillance Technician, certificate number 90-2766. The objective of ProTech's asbestos inspection was limited to providing the following scope of services:

- Conduct a non-demolition inspection of the subject site to identify, inventory, and catalog visibly accessible suspect friable and non-friable asbestos-containing materials (ACM);
- Collect samples of suspect ACM for laboratory analysis;
- Submit suspect ACM samples for laboratory analysis by polarized light microscopy (PLM) to determine asbestos content;
- Evaluate and assess the friability and condition of identified ACM;
- Identify the approximate location of each ACM;
- Make general recommendations as appropriate.

The information contained in this report is limited to those areas and suspect asbestos materials found to be visually accessible through reasonable means. No demolition of building materials was conducted to determine the presence of asbestos in wall cavities, chases or other inaccessible areas. ProTech cannot warrant that this building does not contain ACM in locations other than those noted in this report, however, a good faith effort was made to conduct a comprehensive survey within the limitations of the stated scope of services. This report presents a complete record of all significant findings, evaluations and sample results.

Thank you for using ProTech Consulting and Engineering. Please feel free to call with any questions or concerns regarding this report at (650) 569-4020.

Glen Koutz
Cal-OSHA Certified Asbestos Consultant
Certificate #92-0019

RESULTS

The following is an inventory of the suspect asbestos-containing materials identified during ProTech's inspection of the subject site. The table provides the following information:

- 1. <u>Item number</u>: A reference number assigned to each identified homogeneous suspect asbestos material type.
- 2. <u>Suspect Asbestos Material Description</u>: A description of each identified suspect asbestos material type.
- 3. PLM Sample #'s: Identifies the sample number(s) associated with a specific suspect asbestos material.
- 4. <u>Asbestos Content</u>: Report of corresponding laboratory results. Materials found to contain asbestos during laboratory analysis are highlighted in **bold** *italicized* type face.

Item #	Suspect Asbestos Material Description	PLM Sample #'s	Asbestos Content (%)		
1	Wall/ceiling sheetrock, joint tape & compound – throughout mixed with wood	01, 02*, 03*	None detected to <1% Chrysotile		
2	Wall/ceiling sheetrock surfacing texture - throughout	04, 05, 06	None detected		
3	Gray sheet flooring - Bathroom	07	None detected		
4	Exterior window glazing -	08, 09	None detected		
5	Transite siding - rear part	10	19% Chrysotile		
6	Brown /black asphalt flooring - rear half	11	None detected		
7	Gray /black tar and felt roofing	12	None detected		

^{*} No asbestos detected in sample

ACM EVALUATION & ASSESSMENT

ACM Item #1 - Sheetrock, Joint Tape & Compound

ACM Location(s) & Approximate Quantity

Item 1: Wall/ceiling sheetrock, joint tape & compound	1500 sq ft.
 throughout mixed with wood 	

Friability Assessment EPA / AQMD Assessment Non-friable: This ACCM cannot be easily reduced to dust.

Not RACM: This material is not a "Regulated Asbestos Containing Material" because it contains less than 1% asbestos.

Assessment of Present Conditions

No specific action is recommended at this time. This ACM should not pose a significant asbestos contamination concern in its' present condition. This non-friable asbestos material will not easily release asbestos fibers into the air. Note, however, that this material may become friable if it will be subjected to sanding, drilling, grinding, cutting, or abrading.

Special Notes

This asbestos-containing construction material (ACCM) was found to contain an asbestos content of less than 1%. Materials containing less than 1% asbestos are not regulated by most governmental agencies including the US. Environmental Protection Agency (EPA), Federal OSHA, California EPA, and most air quality management districts. However, under most circumstances, the removal and handling of materials containing $^{1}/_{10}$ of 1% (or greater) asbestos are subject to the contractor registration and work practice requirements of the Division of Occupational Safety and Health (Cal OSHA).

Samples #02, 03 tested negative for asbestos content (non-asbestos) while samples #01 collected tested positive (<1% Chrysotile asbestos). In evaluating sample results for a set or group of homogeneous samples (samples of the same material), general industry standards hold that negative sample results are superseded by a single positive sample result. Once a single positive sample is identified, the entire representative/homogeneous area/material is considered, and treated as an asbestos-containing material. However, if additional sampling, as-built plans, or other reliable data can adequately explain or confirm that areas testing positive are different (not homogeneous) from areas that tested negative, this information can be used to more accurately quantify ACM and define the scope of an asbestos abatement job.

Joint compound that is an integral part of the wall system is allowed to be composite sampled by both EPA and BAAQMD.

Additional testing can be done to determine if the levels are less than $\frac{1}{10}$ of 1%.

ACM Item # 5 - Transite Siding

ACM Location(s) & Approximate Quantity

Item 5: Transite siding - rear part

1000 sq ft.

Friability Assessment EPA / AQMD Assessment Non-friable, Category II: This ACM cannot be easily reduced to dust.

Not Currently RACM: In its present condition, this material is not a "Regulated Asbestos Containing Material".

Assessment of Present Conditions

No specific action is recommended at this time. This ACM should not pose a significant asbestos contamination concern in its' present condition. This Category II Non-friable Asbestos Material will not easily release asbestos fibers into the air. Note, however, that this material may become a regulated asbestos-containing material (RACM) if it will be crumbled, pulverized, or reduced to powder during renovation or demolition.

CONCLUSIONS AND RECOMMENDATIONS

Renovation and Demolition:

In accordance with local, state, and federal asbestos regulations, ProTech recommends that any asbestos-containing material that may be impacted during repairs, renovation, or demolition be removed prior to those destructive activities.

In preparation for this task, ProTech recommends that the following steps be taken:

1. Upon request, ProTech's accredited project designers will develop an asbestos abatement scope of work. The abatement design/specification will set forth the guidelines for proper and cost effective removal of ACM as needed. ProTech's project specification will outline the performance parameters for hazard remediation

Asbestos Building Survey

Job No. 1009-LA03

work standards, contamination control, health and safety, contractor qualifications, regulatory compliance, clearance and release criteria, and other requirements specific to this project.

- 2. ProTech will assist the client or manage the selection of qualified asbestos abatement contractors. Prospective bidders must be licensed by the State of California and register with the Department of Occupational Safety and Health (DOSH).
- 3. The owner may need to obtain an EPA generator identification number if greater than 50 pounds of friable/hazardous ACM will be removed and disposed of. An EPA generator ID can be obtained by calling EPA at (916) 324-1781.
- 4. During the removal of asbestos-containing materials, ProTech's certified field technicians can represent the owner, providing quality control oversight of the asbestos abatement operation. On-site consultants monitor the contractor's compliance with accepted industry standard practices and regulatory standards, and ensure that the project is completed on time and within budget.
- 5. The most critical point in an asbestos abatement project is determining when the work has been completed, the contractor can be released, and the building/area can be occupied. ProTech conducts final visual inspections and clearance air monitoring to certify that industry clearance standards are met prior to general re-entry of the asbestos abatement work area. Upon request, ProTech will conduct 3rd party clearance monitoring.

DISCUSSION

Asbestos and its uses:

Asbestos is a term that refers to a group of naturally occurring fibrous minerals. Because of their resistance to decay and their remarkable insulating properties, asbestos fibers have been incorporated into thousands of products and materials. Collectively these products are frequently referred to as asbestos-containing materials (ACM). Many types of ACM have been used in the construction of buildings and homes. ACM types are generally put into one of three classifications, they are:

1. Surfacing materials

Surfacing materials are those products which have been sprayed or trowelled onto ceilings, walls and other structural elements. (e.g. fireproofing, thermal insulation or decoration) Because of the type of mixture used in the construction industry, these materials are commonly *friable*, that is they are easily crushed or reduced to powder form with hand pressure.

2. Thermal systems insulation (TSI)

The insulation applied to mechanical systems, hot water pipes and heating ducts often contains asbestos. Hot water pipes and heating systems are covered with asbestos insulation primarily to prevent heat loss and to protect other nearby surfaces from the hot pipes. Much of this asbestos insulation was manufactured from 1920 to 1972, and it was used in construction until 1978.

3. Miscellaneous

Miscellaneous ACM materials include all asbestos products which cannot be classified as either surfacing material or TSI. These materials are usually non-friable and generally do not release asbestos fibers into the air unless damaged. Products such as floor tile, mastic, roofing material and concrete asbestos products are examples of miscellaneous ACM.

Current Asbestos Regulations:

The following is a summary of select major state and federal asbestos regulations. These summaries are not intended to be a comprehensive discussion of the specific regulations. In addition, this summary is not an all inclusive overview of the asbestos regulatory universe.

Division of Occupational Safety And Health (Cal-OSHA) - Title 8 CCR § 1529

On July 2, 1996 Cal-OSHA implemented revised general industry and construction asbestos standards which apply to all occupational exposure to asbestos. The new Cal-OSHA construction standard requires owners of buildings built prior to 1981 to presume that a variety of building materials contain asbestos unless they are sampled and proved to not contain asbestos. Employers whose employees work in these same buildings face the same responsibility to either test materials or treat them as ACM.

The standard describes four classes of asbestos-related work: I) removal of asbestos thermal systems insulation and surfacing materials, II) removal of asbestos material which are not thermal systems insulation or surfacing materials, III) repair and maintenance operations where small amounts of asbestos or presumed asbestos (PACM) is likely to be disturbed, and IV) maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste, and debris resulting from Class I, II, and III activities. For each class, OSHA specifies the type of training, work practices, air sampling, and personal protection required of the employer and worker. This new regulation is a jobs based standard. Specific notifications and work practices are required if asbestos will be disturbed.

EPA's NESHAP Regulation - 40 CFR Part 61, Subpart M

NESHAP requires building owners to inspect a building for asbestos prior to renovation or demolition. The EPA must be notified in advance of all demolition (whether there is asbestos present or not) and if more than 160 square feet, 260 linear feet, or 35 cubic feet of Regulated Asbestos Containing Materials (RACM) are going to be disturbed during renovation. RACM must be removed before any demolition or renovation work disturbs it. Specific work practices must be followed during the removal of RACM. RACM must be adequately wet when disturbed and must remain wet until placed in leakproof containers. No visible emissions are allowed during collection, packaging, transportation, or disposal of RACM. Records must be kept regarding the transportation and disposal of RACM.

In many areas, including the San Francisco Bay Area, the federal NESHAP regulation is enforced by the local air quality management district (AQMD). In many cases, EPA has "delegated" NESHAP enforcement to these local agencies. Each AQMD has developed an enforcement regulation based on the NESHAP regulation, and in many instances these local regulations are more stringent then the Federal EPA NESHAP regulation.

EXCLUSIONS AND REPORT LIMITATIONS

- This asbestos inspection report has been prepared by ProTech for the exclusive use of ProTech and its client, and not for use by any other party. The investigation and sampling plan discussed in this report may not be appropriate for uses beyond its intended purpose and stated scope. Any use by a third party of any of the information contained in this report shall be at their own risk and shall constitute a release and an agreement to defend and indemnify ProTech from any and all liability in connection therewith whether arising out of ProTech's negligence or otherwise.
- Consulting services performed by ProTech were limited to this asbestos survey. No other services were requested by the client. Lead inspection & assessments, PCB investigations, hazardous material audits, indoor air quality investigations, Phase I & II site assessments, and other general environmental consulting are additional services routinely performed by ProTech. These services were not performed at this site. A

- general environmental audit may be performed to assess the need for additional environmental consulting services.
- ProTech's evaluations do not attempt to forecast or anticipate planned or unforeseen
 events which may negatively impact ACM condition. All conclusions and
 recommendations presented herein are based on visible conditions present at the time of
 inspection. Changes in material condition due to deterioration, unforeseen accidents, or
 planned events such as renovation or demolition may render the recommendations and
 conclusions presented in this report obsolete.
- ProTech does not represent this screening/selective survey as a comprehensive inspection or evaluation. ProTech recommends that an expanded, comprehensive asbestos survey be conducted at this site if renovation or demolition activities are expected to impact any building materials other then those specifically addressed in this report.
- ProTech cannot warrant that this building does not contain ACM in locations other then
 those noted in this report. If suspect asbestos materials are discovered during future
 repairs, demolition or renovation operations, all general work activities which could
 impact the discovered suspect ACM should cease until confirmation sampling and/or
 asbestos abatement options can be assessed.
- This evaluation is limited to the material actually observed and may not apply the same material in other locations. Because of the cursory nature of ProTech's survey (as requested by the client), assessment of material condition is limited to the areas actually observed and sampled.
- ProTech collected one sample (single sampling) of each friable and non-friable suspect asbestos material identified during the inspection. Single sampling was conducted as a means of profiling and generally characterizing the presence and extent of ACCM throughout the subject site. Because this survey was conducted for purposes of characterizing the presence of ACM, it was not ProTech's intent to collect multiple samples of homogeneous materials to comply with EPA recommended or suggested sample quantities.
- ProTech does not represent this report as an assessment of asbestos impact on air quality. No air samples were collected by ProTech to evaluate potential airborne asbestos dust levels. All conclusions and recommendations contained herein are based solely on a visual evaluation of ACM.
- All reasonable efforts were made to examine below carpeted areas and resilient floor coverings to determine and quantify the presence of suspect asbestos materials. ProTech accepts no liability for additional materials or under-reporting of asbestos materials which exist below other floor coverings.
- All quantification of ACM is approximate and should not be relied upon for bidding purposes. This report is not represented as, nor intended to be, an asbestos-abatement scope of work or project specification.
- Because this survey was conducted in an occupied building, intrusive inspection
 methods were limited. Specific care and caution was observed to avoid significant
 aesthetic impact on building materials and finishes during inspection services and
 sample collection. In some cases, additional sampling may be necessary if future
 demolition or renovation activities uncover additional suspect asbestos materials.

Fiberglas insulated mechanical systems were inspected as completely as possibly
without destroying the integrity of the Fiberglas insulation. The condition and presence
or absence of asbestos associated with mechanical systems is assumed to be consistent
with those areas exposed and examined during our inspection. However, ProTech does
not guarantee that this is the case.

SURVEY METHODOLOGY

Inspection and Sample Collection:

A survey of the subject site was conducted to identify and catalog visibly accessible suspect asbestos materials and to develop a sampling strategy for characterizing ACM. Following the initial inspection, samples were collected of suspect asbestos materials from each homogenous sample area. Samples were collected by misting small sample areas with water, then cutting or scraping the sample from the substrate with an appropriate sampling tool. Whenever possible, samples were collected from areas previously damaged or deteriorating. No building systems, components, or structures were demolished to obtain samples of potentially hidden ACM.

Each suspect bulk sample was sealed in its own Zip-lock plastic container and labeled with a unique identification number. Sampling tools were individually cleaned before and after each sample was collected to avoid sample cross contamination. Decontamination was accomplished using single-use, pre-moistened cloths.

ProTech's inspector collected a total of **twelve** (12) suspect asbestos samples, all of which were analyzed by PLM for asbestos content. Samples were recorded on **ProTech's** inhouse chain-of-custody form. This form accompanied the samples to EMSL of Milpitas, California which is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis of bulk building material samples for asbestos.

Sample Analysis:

To determine asbestos content, the samples were submitted to the certified laboratory for analysis. Suspect asbestos samples were subjected to analysis by polarized light microscopy (PLM).

Bulk sample analysis was conducted in accordance with the EPA interim method for determination of asbestos in bulk materials. Samples were first examined by a stereoscopic microscope for determination of homogeneity and preliminary evaluation of composition and presence of fibers. Fibers observed during this examination were then mounted in various refractive index oils and examined in polarized light. During this examination, all minerals and/or man-made materials were identified and the percentages of each were estimated and/or counted.

Evaluation of Asbestos-Containing Materials:

In evaluating each asbestos material, the adhesion of the asbestos material to the underlying substrate, deterioration, and damage from vandalism or any other cause was assessed. Evidence of debris on horizontal surfaces, hanging material, dislodged chunks, scraping, indentations, or cracking were indicators of poor material condition.

Accidental or deliberate physical contact with asbestos materials can result in damage. Inspectors looked for any evidence that asbestos-containing materials had been disturbed. Indicators such as: finger marks in the material, graffiti, pieces dislodged or missing, scraping marks from movable equipment, or furniture, or an accumulation of suspect asbestos dust or debris on floors, shelves, or other horizontal surfaces indicate poor material condition.

Asbestos-containing materials may deteriorate as a result of either the quality of the installation or environmental factors which affect the cohesive strength of the asbestos-containing material or the strength of the adhesion to the substrate. Deterioration can result in an accumulation of dust on the surface of the asbestos-containing material, delamination of the material, or an adhesive failure of the material where it pulls away from the substrate and either hangs loosely or falls to the floor and exposes the substrate. Inspectors touch the asbestos-containing material to determine if dust is released when the material is lightly brushed or rubbed.

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc Client ID: 1454 Project Manager Report Number: B054158 Date Received: 09/11/03 1755 E. Bayshore-Ste 14B Date Analyzed: 09/12/03 Redwood City, CA 94063 Date Printed: 09/12/03 First Reported: 09/12/03 Job ID / Site: 1009-LA03/PO#910-1009-12 - 1455 5th St., Oakland FASI Job ID: 1454-1546 Sample Number Lab Number Asbestos Percent in Asbestos Percent in Asbestos Percent in Type Layer Type Layer Type Layer 01 10263135 Layer: White Drywall ND Layer: Off-White Skimcoat/Joint Compound 2 % Chrysotile Layer: Off-White Skimcoat/Joint Compound Chrysotile 2 % Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(Trace) Cellulose (20%) Fibrous Glass (10%) Comment: Collected on 09/10/2003 02 10263136 Layer: White Drywall ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos: (ND) Cellulose (20%) Comment; Collected on 09/10/2003 03 10263137 Layer: White Drywall ND Layer: Off-White Skirncoat/Joint Compound ND Layer: Off-White Skimcoat/Joint Compound ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (20%) Fibrous Glass (Trace%) Comment: Collected on 09/10/2003 04 10263138 Layer: Off-White Drywall ND Layer: Off-White Skimcoat/Joint Compound ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(ND) Fibrous Glass (Trace%) Cellulose (35%) Comment: Collected on 09/10/2003

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc Client ID: 1454 Project Manager Report Number: B054158 Date Received: 09/11/03 1755 E. Bayshore-Ste 14B Date Analyzed: 09/12/03 Redwood City, CA 94063 Date Printed: 09/12/03 First Reported: 09/12/03 1009-LA03/PO#910-1009-12 - 1455 5th St., Oakland Job ID / Site: FASI Job ID: 1454-1546 Sample Number Lab Number Asbestos Percent in Percent in Asbestos Asbestos Percent in Type Layer Type Laver Type Layer 05 10263139 Layer: Off-White Skimcoat/Joint Compound ND Layer: Paint ND Layer: Beige Skimcoat/Joint Compound ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (Trace%) Comment: Collected on 09/10/2003 06 10263140 Layer: Off-White Skimcoat/Joint Compound ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (Trace%) Comment: Collected on 09/10/2003 10263141 Layer: Grey Sheet Flooring ND Layer: Fibrous Backing ND Layer: Beige Mastic ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (20%) Fibrous Glass (5%) Synthetic (10%) Comment: Collected on 09/10/2003 08 10263142 Layer: Grey Putty ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (Trace%) Comment: Collected on 09/10/2003

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc. Client ID: 1454 Project Manager Report Number: B054158 Date Received: 09/11/03 1755 E. Bayshore-Ste 14B Date Analyzed: 09/12/03 Redwood City, CA 94063 Date Printed: 09/12/03 First Reported: 09/12/03 Job ID / Site: 1009-LA03/PO#910-1009-12 - 1455 5th St., Oakland FASI Job ID: 1454-1546 Sample Number Lab Number Asbestos Percent in Asbestos Percent in Asbestos Percent in Type Laver Type Layer Type Layer 09 10263143 Layer: Grey Putty ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (Trace%) Comment: Collected on 09/10/2003 10 10263144 Layer: Grey Semi-Fibrous Material Chrysotile 20 % Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos:(19%) Cellulose (Trace%) Comment: Collected on 09/10/2003 11 10263145 Layer: Stones ND Layer: Black Tar ND Layer: Black Felt ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (65%) Comment: Collected on 09/10/2003 12 10263146 Laver: Black Tar ND Layer: Black Felt ND Total Composite Values of Fibrous Components: Asbestos:(ND) Cellulose (Trace%) Fibrous Glass (45%) Comment: Collected on 09/10/2003

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting Project Manager	g & Engineers Inc				Client ID: Report Num	-	154 054158
1755 E. Bayshor Redwood City, C	Date Receiv Date Analyz Date Printed First Report	red: 09 red: 09 l: 09	09/11/03 09/12/03 09/12/03 09/12/03				
Job ID / Site:	1009-LA03/PO#910-1009-12 -	1455 5th St., Oak	cland		FASI Job II): 14	154-1546
Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbesto Type	s Percent in Layer



James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Page.		of	
Job#	100		11 1
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1755 E. Bayshore Rd., #14B Redwood City, CA 94063 Phone: (650)569-4020 Fax: (650) 569-4023

	3				CII	Allanmenent beta	ites 1.0. //	<u> </u>
	nformation		Analysis Requeste		n Around T	Time	Special Instru	ctions
Date:		<u> </u>	☐ TEM		8 hours			
		d.1	O Level 2		24 hours			
	and the second s		O AHERA		48 hours			
	<u> </u>		☐ PLM BULK		3-5 days			
Collected By:			AA Lead, Air				☐ Prior Positive	<u> </u>
Lab:		-1	☐ AA Lead, Bulk ☐ AA Lead					
Filter Type:	☐ MCE, 0.8			_	OF 0.0	07		
Tiller Type.	LI MOE, U.O	prii, zanin	n ☐ MCE, 0.45µm, 25	omm ⊔ M	CE, 0.8µm,	3/mm	☐ Other	
Sample# Date	Sample Type	Sample Protocol	Location / Activity / Material C	escription	Time On/Off	LPM	<u>Total Min.</u> <u>Total Vol.</u> Fibers/Fields	Results
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riemiquisticu by.	·		Date/Time	Received By	<u>"; </u>		Date/Tim	e
Sample #			If:				where: $Y_x = (\text{ (Fibers/Fi})$	elds) _{count x} / 0.00785)1/2
Count 1:f	ibers/ fiel	$ds Y_1 =$	\ <u></u> < _	So PASS I	$f \mid Y_1 - Y_2 \mid < [(Y_1 +$	Y ₂) *2.8 * Cv / 2]	$C_v = 0.30 \text{ for } 1 - 0.24 \text{ for } 26$	25 fibers counted 50 fibers counted
Count 2: f	ibers/fiel	ds Y ₂ =	1	SO FAIT			= 0.24 tot 20-	



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Page _		_ of	
Job #	<u> </u>	+ 1 , A	<u> </u>

Consulting & Engineering Environmental Services

General Ir	nformation		Analysis Requested	Turn Around	Time	Special Instruc	tions
Collected By:			PCM NIOSH 7400 TEM Level 2 AHERA PLM BULK AA Lead, Air AA Lead, Bulk ALEAD	☐ Rush ☐ 8 hours ☐ 24 hours ☐ 48 hours ☐ 3-5 days ☐	0-7	☐ Prior Positive	
Sample#	☐ MCE, 0.8	µm, 25mm Sample	□ MCE, 0.45µm, 25mm	n ☐ MCE, 0.8µm,	3/mm	Other	-
Date	Type	Protocol	Location / Activity / Material Descri		LPM	Total Vol. Fibers/Fields	Results
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			_				
Sample #	· · · · · ·		If:			where: $Y_x = (\text{ (Fibers/Fiel})$	ds) _{count_x} / 0.00785)1/2
Count 1:fi		is Y ₁ =	<	$So PASS$ If $ Y_1-Y_2 < [(Y_1-Y_2)]$	•Y ₂) *2.8 * Cv / 2	$C_{\rm v} = 0.30$ for 1-2:	5 fibers counted 0 fibers counted
Count 2: fi	ibers/field		>	_ So FAIL			5 fibers counted

APPENDIX C

Earth Safety Dynamics'
Personnel & Fenceline
Air-Sampling Report

Earth Safety Dynamics Industrial Hygiene Monitoring Report

DATE:

December 2, 2003

T0:

Mr. David Allen, Aqua Science Engineers

FROM:

Kevin R. Braun/CIH

SUBJECT:

Industrial Hygiene Monitoring No. 110603-01

Airborne Dust and Lead Exposure during Site Excavation

1455 5th Street, Oakland, California

I. EXECUTIVE SUMMARY

On November 6, 2003, air sampling was performed to evaluate personnel exposure to airborne inorganic lead during excavation at the residential construction site located at 1455 5th Street in Oakland, California. The work undertaken and monitored consisted of excavation of lead-contaminated soils to end dumps for manifested transport to offsite disposal. Air samples were taken over a full work shift from the breathing zones of three two workers, from the truck loading and decontamination zone, and from the downwind (Mandela Parkway Fence Line) perimeter of the site.

All lead concentrations were below applicable exposure limits. Detectable concentrations of lead were found in one personal (breathing zone) sample; none was detected elsewhere in or at the perimeter of the work area.

The limit of detection for the sample volumes and analytical method was approximately 1-2 μ g/m³, well below the established action level of 30 μ g/m³. One average personal exposure was measured at 1.0 μ g/m³; all others areas were assessed below the method limit of detection. This indicates that engineering controls were effective; this work is therefore believed to have resulted in no significant airborne exposure to site personnel or surrounding communities.

П. METHODS

Air samples were obtained using calibrated SKC Air-Check 50 portable sampling pumps fitted with mixed cellulose-ester filters. Air flow calibrations were performed prior and subsequent to sampling using a primary gas flow standard, a Buck Model M-5 Calibrator, in order to determine average flow rates for sampling periods. The samples were obtained at average collection rates set in accordance with standard NIOSH methodologies (NIOSH Method 7300).

Workers were monitored as follows:

- Worker 1: Francisco Fregoso, Excavator Operator This worker used an excavator to excavate
 and load soils to end dumps for manifested disposal. The sample was taken from his immediate
 breathing zone for a full shift.
- Worker 2: Alex, Villalbazo, Dust Control and Grade Verification This worker used fire
 hose supplied by a hydrant to perform dust suppression for excavation and loading operations as
 well as site haul roads. He also worked closely with the operator to verify grade elevation for each
 lift taken from contaminated areas. The sample was taken from his immediate breathing zone for a
 full shift.

Areas sampled were identified as follows:

- Area 1: Perimeter at Gate- This sample location was at the perimeter of the project at the fenceline separating the subject lot from the sidewalk along 5th Street.
- Area 2: Downwind Perimeter This sample location was at the downwind (southeast) perimeter of the project at the fenceline separating the subject lot from the adjoining residence.
- Area 3: Downwind Perimeter This sample location was at the downwind (southwest) perimeter of the project at the fenceline separating the subject lot from the adjoining residence.

III. RESULTS

3.1 SAMPLE ANALYSIS

Samples were delivered samples were delivered under strict chain-of-custody protocol to Data Chem Laboratories of Cincinatti, Ohio. Data Chem is accredited by the American Industrial Hygiene Association and Environmental Protection Agency. Samples were digested and analyzed by in accordance with NIOSH Method 7300.

Full analytical and quality assurance reports are included in the appendices of this document.

3.2 RESULTS

Integrated Sample Time-Weighted Average (TWA) Results

Sample	Description	[Lead] (µg/filter)	[Lead] (µg/m³)	PEL(μg/m³)†	A.L. (μg/m³)††
110603-01	Worker 1	1.	1.0 µg/m³	50 μg/m ³	30 μg/m ³
110603-02	Worker 2	N.D. *	< 0.9 μg/m ³ *	50 μg/m ³	30 µg/m³
110603-03	Area 1	N.D. *	$< 0.9 \mu g/m^3 *$	50 μg/m ³	30 μg/m ³
110603-04	Area 2	N.D. *	< 0.9 μg/m ³ *	50 μg/m ³	30 μg/m ³
1 10603-05	Area 3	N.D. *	< 1.0 μg/m ³ *	50 μg/m ³	30 μg/m³
100803-06	Blank	N.D. *	N.A. **	$50 \mu g/m^3$	30 μg/m ³

Units: Micrograms inorganic lead; micrograms lead per cubic meter (µg/m³)

- (1) * Indicates sample concentration below the method limit of detection
- (2) ** None detected (Blank sample; 0 air volume sampled)
- (3) † Permissible Exposure Limit (PEL; 8 CCR 5155 and 1532.1)
- (4) †† Action Level (Title 8 CCR, 1532.1)

IV. DISCUSSION AND RECOMMENDATIONS

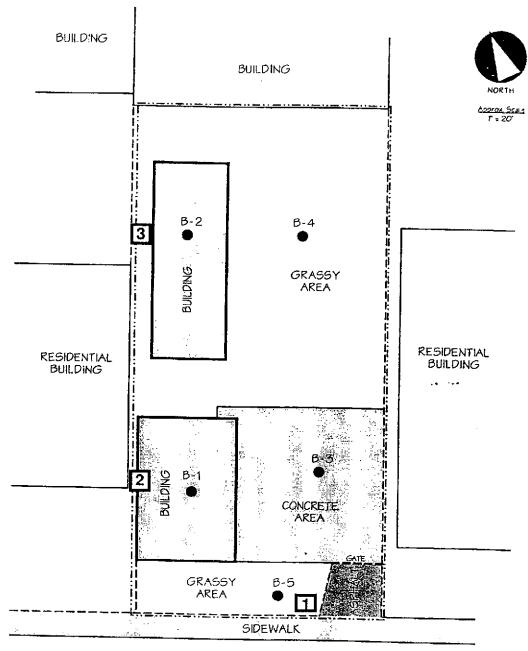
No results were obtained for inorganic lead indicating any personnel exposures in excess of published Permissible Exposure, Short Term Exposure, or Ceiling Limits as defined in 8 CCR 5155. Also, the Action Level of 30 micrograms per cubic meter as defined in 8 CCR 1532.1 was not exceeded or approached in any area or worker breathing zone. No significant or harmful lead exposure is therefore thought to have resulted from the work conducted at this site on the days monitored, which have been indicated by project management as representative of all site activity conducted and conditions encountered.

Dust control measures in effect on the days of monitoring appeared to be extremely effective. This is reinforced by the extremely low levels of lead particulate detected in the monitored areas and breathing zones. Ratios of total dust to lead are not expected to rise during subsequent observations, since excavations were reported on the day of monitoring to be performed in the area of highest concentrations of lead in soil. Work may therefore proceed without modification of work practices or addition of protective equipment.

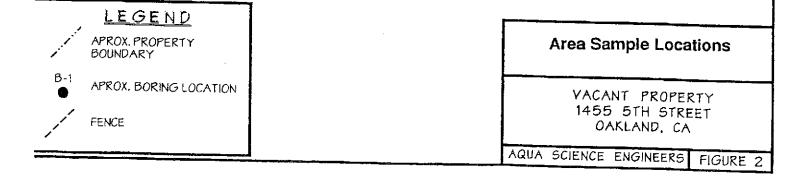
References

- 1. 8 CCR 5155: Airborne Contaminants
- 2. 8 CCR 1532.1: Lead in Construction

APPENDIX A: AREA SAMPLE LOCATIONS



5TH STPEET

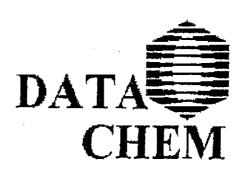


APPENDIX B; FIELD DATA SHEETS

INTEGRATED SAMPLING DATA SHEET

PROJ	ECT:	Ċ	027:	10 - 6	Iqua	Jineral 1	ull, 8	t gr	Jan	ce Kemaral
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Metec	rologi	cal (Conditio	ns:						
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Sample	_	lyte	Flow _(i) (lpm)	Flow _(f)	Avei	age Time	(i) Ti	me _(f)	Elapse Time	d Sample Volume
177-7	<i>["6</i>		(A.)	17.)	d.I	1 (/6/	1 /)/[[400.	1050 L
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Sample	Analy		Flow _(i) (lpm)	Flow _(f) (lpm)	Avera lpm	ge Time(i	i) Tim	ie _(f)	Elapsed Time	Sample Volume
1106503	10		2.1	2.6	7.11	OHC	14	ĵυ ,	410	1071 1
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APPENDIX C: LABORATORY ANALYTICAL REPORT



Fax Transmittal Sheet

DATE: 11/ >0/03

TO: Kevin Braun

COMPANY: Earth Safety Dynamics

PHONE:

FAX: 425-455-6634

FROM:

MN

PHONE: FAX:

(513) 733-5336 (513) 733-5347

Number of pages including cover sheet: _ 식

MESSAGE:

Thanks:

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of the communication is strictly prohibited. If you have received this message in error, please notify us immediately by telephone (800-458-1493) and return the original message to us via postal service at 4388 Glendale-Miliford Road, Cincinnati, OH 45242.

If you are missing any part of this transmittal please call DataChem Laboratories at (513) 733-5336.



TEST REPORT Page 1 of 2 11/18/03

Submitted To: Kevin Braun

Earth Safety Dynamics 70 Rockrose Street Livermore, CA 94551

Reference Data:

Lead

Client Sample No.:

110603-01 through 110603-06

P.O. No.:

Not Available

Sample Location:

Not Available

Sample Type:

Filter

Method Reference:

NIOSH 7300

DCL Set ID No.: DCL Sample ID No.: 03-8-5594 03-33317 through 03-33322

Sample Receipt Date:

11/14/2003

Preparation Date:

11/18/03

Analysis Date:

11/18/03

The samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Blmer 3000XL ICP.

The sample condition upon receipt was acceptable except where noted.

The results are in the enclosed data table. Results relate only to the items tested and are not blank corrected unless indicated in the data table.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Chris Baugues

Analyst

Reviewer

CINCINNATI OFFICE 4388 GLENDALE-MILFORD ROAD CINCINNATI, OHIO 45242-3706 513 733-5336, FAX 513 733-5347

WEST COAST OFFICE 11 SANTA YORMA COURT NOVATO, CALIFORNIA 94945 590 280-8071, FAX 415 893-9469

TEST REPORT Page 2 of 2 03-S-5594

Results Lead

	lient # DCL # Sample Volume (L)		µg/sample	e mg/m³		
110603-01	03-33317	1050	1.	0.001		
110603-02	03-33318	1092	ND	<0.0009		
110603-03	03-33319	1071	ND	<0.0009		
110603-04	03-33320	1071	ND	<0.0009		
110603-05	03-33321	778	ND	<0.001		
110603-06	03-33322	0	ND	-		
	Prep Blank		ND			
Recovery	LCS		109.			
RPL						

ND = not detected at or above the reporting limit (RPL). LCS = laboratory control sample.

Chris Baugues Analyst

Reviewer



ANALYTICAL REQUEST FORM

	Hetin Bi	Gram 4811 mus		Industrial Process Date of Callection 4/6/2 7
Pax Telephone (7Z/)	411- 6634			Time Collected Date of Shipment 147/07
E-mail Address	KRBraum la	3 ADI CO.	<i>ተ</i> ነ	Date of Shipment 147/03
Billing Address (II differ	int from above)			Chain of Custody No.
6. REQUEST FOR ANALY Leberatory Use Only	SES Client Sample Number	Maste*	Sample Volume	ANALYSES REQUESTED - Use metrod number if known
75317	110603-01	MIEF	1050 L	(NIOH +30) PB
33318	-02		1092 L	
33319	-03		1071 1	
33390	_04		10712	
33321	- 03		738 2	
33322	- 08	V		Ÿ
		<u></u>		
			 	
Specify: Solid screent to 1, mg/semple 2, mg/m	ibe, e.g. Charcoal; Pilier ty ³ 3, ppm 4, % 3.	pet Impinger so (ather) P	olution; Bulk sampl base indicate one	e: Blood; Urine; Tiesue; Soll; Weter; Other or more units in the column entitied Units***
	Vor Chemical Hazants			
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Possible Contamination and 7. Chain of Custody-(Opti	onal)	-		1/1/17 @ 1500
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7. Chain of Custody (Opti Relinquished by		20010		Deta/Time /////
7. Chain of Custody (Opti Relinquished by Received by	onal)	10cm)		Data/Time 19 4 03 13:50
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7. Chain of Cuetody (Opti Relinquished by Received by		70010)		Detertime Detertime Detertime

960 West LeVoy Drive / Salt Lake City, UT \$4123 900-358-9135 or 801-268-7700 / FAX: 801-268-9882 DATACHEM LABORATORIES, INC.

APPENDIX D

Hazardous Waste Manifests

Department of Toxic Substances Control

UNIFORM HAZARDOUS WASTE MANIFEST		Manifest Docume	12 1	2. Page 1	is not req	on in the shaded areas uired by Federal law.
3. Generator's Name and Mailing Address		<u> </u>	A. State	Manifest Document	Number 🚜	332133
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1911 Figh Amanie College to	CONTROL OF THE SECOND STREET			Generator's ID		
			5. 5.5.5	1 1 1 1	1 1 1.4	e e e e e
4. Generator's Phone (540, 1400, 276	4. 116 FDA ID II		C 51:34	To 10 10 10 10		
5. Transporter 1 Company Name	6. US EPA 1D Number)	Transporter's ID [Re		
KESSTRUCK IN	8. US EPA ID Number		D. Tran	sporter's Photie	- 22	3-1483
7. Transporter 2 Company Name	8, US EPA ID Number		E. State	Transporter's ID (Res	erved.]	
Condia Pacific Lones, 1416 (Article) Condia, NE 06170	HEADOORFE	2010	F. Trans	porter's Phone	(402)	271-4400
9. Designated Facility Name and Site Address	10. US EPA ID Number	<u> </u>	G. State	Facility's 1D	**************************************	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
CALAT Environmental			1	I JUITIAI	494	1. 10101 1
1 in West Highway 123			H. Facil	ity's Phone	3 8 NJ 177	1 4 4 4 4 4 4
Rest Carbon, UT 84520	1 0 6 6 0 0 1 4	2201			2001	144-4451
The contract of the contract o			ntainers	13. Total	14. Unit	
1. US DOT Description (including Proper Ship	ping Name, Hazard Class, and ID Number)	No.	Type	Quantity	Wt/Vol	
Non-RCRA Hazandous Wasta	Societ					State
(Pion DOT (populatest)	. p. m.g				Α.	611
(a contraction of the financial states of the		ggg	n.s.	poort	1	EPA/Other Non-RCPA
			7	 		
b						State
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d.						State
						FRA COLL
		1 1	1 1	1 1 1		EPA/Other
	1455 5th St., Oakland, CA		a.	03	b.	
			С.		d	
5 Secretal Handling Instructions and Addition	al lafarmation		1			2.5
5. Special Handling Instructions and Addition in the part of the p	Here get Starting A	ii)				
Cherry on 1900, 100 3 On						. o/
Cotto Bajar sa	To be the state of	1. L.				
		Va.	-			
6. GENERATOR'S CERTIFICATION: I hereby	declare that the contents of this consignment are fully and cts in proper condition for transport by highway accordi	occurately descri	bed above	by proper shipping r	ame and or	e classified, packed, lations
,	y that I have a program in place to reduce the valume (
practicable and that I have selected the pr	acticable method of treatment, storage, or disposal curr quantity generator, I have made a good faith effort to r	ently available to	me which	minimizes the prese	nt and futur	e threat to human health
rinted/Typed Name	Signature		9.0		Mo	nth Day Ye
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And the second s				- 	- 1	
8. Transporter 2 Acknowledgement of Receip			<u>.</u>	<u></u>		-d D
rinled/Typed Name	Signature				Moi	nth Doy Ye. I ≀ I
9. Discrepancy Indication Space						
	,					
O. Encility Owner or Operator Certification o	f receipt of hazardous materials covered by this manifest	except as noted	in Item 19			
rinted/Typed Name	Signature	except as iteled			Мо	nth Day Ye
Times Typed Tadine	alginaria				""	,

DO NOT WRITE BELOW THIS LINE.

Department of Toxic Substances Control

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator	's US EPA ID		# 7 M F		fest Docu		No. →	2. Page 1		on in the shaded areas uired by Federal law.
3. Generator's Name and Mailing Address			Ш		Î o		71		Manifest Document	Number	we see the state of
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4. Generator's Phone (210) 1400 276	ga.									1	ri i i i i 🦸
5. Transporter 1 Company Name		6. US	EPA ID N	lumber				C. State	Transporter's ID (Res	erved.]	
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9. Designated Facility Name and Site Address	.5	10. US	EPA ID N	lumber				G. State	Facility's ID	1. 5. 5 °	
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Department of Toxic Substances Control

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UNIFORM HAZARDOUS WASTE MANIFEST		anifest Documen	+No. →	2. Page 1		on in the shaded areas wired by Federal law.
3. Generator's Name and Mailing Address		<u> </u>	A. Staté	Manifest Document I	Number	AAA4AAA
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4. Generator's Phone () 10 1420.279	D2		1		1.1	
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9. Designated Facility Name and Site Addres			G. State	Facility's ID	<u> </u>	1
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1. US DOT Description findluding Proper Shi	ipping Name, Hazard Class, and ID Number)	12. Cor		13. Total	14, Unit	
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6. GENERATOR'S CERTIFICATION: 1 hereby	declare that the contents of this consignment are fully and a	ccurately descri	bed above l	y proper shipping n	ame and ar	e classified, packed,
marked, and labeled, and are in all resp	ects in proper condition for transport by highway according	g to applicable i	aternationa	Il and national gove	rnment regu	lations.
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and the environment; OR, it I am a small available to me and that I can afford.	I quantity generator, I have made a good faith effort to mi	ananize my wasi	e yeneronc	in and select the be	: wusie ma	inagement method that is
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10 Facility Owner or Operator Cartification	of receipt of hazardous materials covered by this manifest e	vcent as nated i	n Item 19			
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State of Californios—Environmental Protection Agency
Form Approved OMB No. 2050–0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control

UNIFORM HAZARDOUS	Generator's US EPA ID No.	Manifest Documer	nt No.	2. Page 1		on in the shaded areas
WASTE MANIFEST	LEPHRICH PROPERTY	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1318	of	is not requ	uired by Federal law.
3. Generator's Name and Mailing Address			A. State /	Manifest Document	Number	332133
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4. Generator's Phone (200) 1999-219			B. State C	enerator's ID		.
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5. Transporter 1 Company Name	6. US EPA ID Number			ransporter's ID [<u>Re</u>	served. J	
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7. Transporter 2 Company Name United Procises 1996 (Procises	B. US EPA ID Number		E. State T	ransporter's ID [<u>Res</u>	erved.]	
Omaha, NE 68 170	MERPATY	PRAIR	F. Transpo	orter's Phone	(402) 5	71-4400
9. Designated Facility Name and Site Address			G. State F	acility's ID	<u> ~1566] . 6</u>	1 1 metro (110)
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		12. Coi	ntainers		14. Unit	44-4451
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5. Special Handling Instructions and Addition	I Information	ion Nation of the second	i,			
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9. Discrepancy Indication Space				<u>.</u>	L_	
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Department of Taxic Substances Control
Sacramenta, California

	Generator's US EPA ID No.	Manifest Docume	nt No.	2. Poge 1		on in the shaded areas
UNIFORM HAZARDOUS WASTE MANIFEST		1 13			<u> </u>	vired by Federal law.
3. Generator's Name and Mailing Address			A. State	Manifest Document t	Number 7	332133
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4. Generator's Phone (517) 1436.270	,			1	11	
5. Transporter 1 Company Name	6. US EPA ID Number		C. State 1	ransporter's ID [Res	erved.]	
All Law Call Hard	门间的诗学家	or a hardel	D. Transp	orter's Phone	14 7	16 9143
7. Transporter 2 Company Name Union tracthe Lines, 1416 Design	8. US EPA ID Number			ransporter's ID [Res	erved]	
Omaka NE 63179	MEDYPIT	188818		orter's Phone	402) 2	71-4400
9. Designated Facility Name and Site Address COLIC Envir On Pentini	10. US EPA ID Number		G. State I	acility's ID	H1914	<u> - 2 2 </u>
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6. GENERATOR'S CERTIFICATION: I hereby	declare that the contents of this consignment are full	ly and occurately descri	peq apove p	y proper shipping n	ame and are	classified, packed,
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19. Discrepancy Indication Space	_					
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	receipt of hazardous materials covered by this ma Signature	inifest except as noted i	n Item 19.	· · ·	Mor	ith Day Yes
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Department of Toxic Substances Control

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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US		** ** · · · · · · · · · · · · · · · · ·	anifest D	ocumen $\vec{\mathbb{S}}$	14-1	2. Page 1	is not requ	on in the shaded areas uired by Federal law.
3. Generator's Name and Mailing Address Pile Address Heart Food Mailing Address The CRITE American Conference Co. 9	nestri dine ner o	san ay taasa	<u> </u>			A. Stat	e Manifest Document	Number 2	3321340
4. Generator's Phone (10 y 10) 279						B. State	e Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID N	lumber				e Transporter's ID [Re		
P. T.M. Prop.	Kansa			Δ ₁ U ₁	ر ا	D. Tran	nsporter's Phone ?	·). 5	17- MA
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9. Designated Facility Name and Site Address		10. US EPA ID N	lumber			G. Stat	e Facility's ID	H94	- 2 2
1771 Wood Highway 170 East Carbon, UT 64620		JT PP F	77977	376	} {	H. Faci	lity's Phone	(800) 4	144-4451
11. US DOT Description (including Proper Shipp	ping Name, Hazard Clo	oss, and ID Numb	er)		2. Cor la.	tainers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
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Department of Toxic Substances Control

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA			nifest Docu		No.	2. Page 1		on in the shaded areas uired by Federal law.
3. Generator's Name and Mailing Address		<u> </u>	r r			A. State	Manifest Document	Number e	2204'044
Mr. Antly End and Mrs. Jean Hill Enr. Milit Avenue, Oaklerd OA:1	18071 Albertan Auce	y Nell				B. State C	Generator's ID	4	23321341
4. Generator's Phone (*10)430-278)						1111		
5. Transporter 1 Company Name	1	US EPA ID Num	ber			C. State 1	Transporter's ID [<u>Re</u>	served.]	
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7. Transporter 2 Company Name : http://www.harm.com/states/articles/company/articles/compan	Sitta Gal	US EPA ID Num		· 25 4	*-		ransporter's ID [<u>Re</u>	served.]	
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9. Designated Facility Name and Site Addres CODEC Cover OF CONTROL	s 10.	US EPA ID Num	ber				Facility's ID	H 9 4	- 2 2
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11. US DOT Description (including Proper Shi	pping Name, Hazard Class,	and ID Number)		. ,		tainers	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
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LENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

See Instructions on back of page 6.

Department of Toxic Substances Control Socramento, California

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Department of Toxic Substances Control

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Department of Toxic Substances Control

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Department of Toxic Substances Control

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Department of Toxic Substances Control

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CALL 1-800-852-7550

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA,

See Instructions on back of page 6.

Department of Toxic Substances Control

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DO NOT WRITE BELOW THIS LINE.

APPENDIX E

Analytical Reports and Chain of Custody Documents For Confirmation Soil Samples

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc.	Client Project ID: #3788; Hall 1455 5th	Date Sampled: 11/06/03
208 West El Pintado Road	St. Oakland	Date Received: 11/07/03
Danville, CA 94526	Client Contact: Dave Allen	Date Reported: 11/10/03
Banvino, Cri 77520	Client P.O.:	Date Completed: 11/10/03

WorkOrder: 0311081

November 10, 2003

Dear Dave:

Enclosed are:

- 1). the results of 8 analyzed samples from your #3788; Hall 1455 5th St. Oakland project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

contact on

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc.	Client Project ID: #3788; Hall 1455 5th	Date Sampled: 11/06/03						
208 West El Pintado Road	St. Oakland	Date Received: 11/07/03						
Danville, CA 94526	Client Contact: Dave Allen	Date Extracted: 11/07/03						
•	Client P.O.;	Date Analyzed: 11/08/03						

Lead by ICP*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0311081 Lab ID Client ID Matrix Extraction Lead DF % SS 0311081-001A XCON-A-18" S TTLC ND 1 112 0311081-002A XCON-B-48" S TTLC ND 1 110 0311081-003A XCON-C-18" S TTLC 85 1 112 0311081-004A XCON-D-18" S TTLC ND 1 114 0311081-005A XCON-E-18" S TTLC ND 108 0311081-006A XCON-F-18" S TTLC ND 1 109 0311081-007A XCON-G-24" S TTLC ND 1 107 0311081-008A XCON-H-36" S TTLC ND 1 109

Reporting Limit for DF =1; ND means not detected at or	W	TTLC	NA	mg/L
above the reporting limit	S	TTLC	5.0	mg/Kg

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, filter samples in μg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

Angela Rydelius, Lab Manager

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.inccampbell.com E-inail: main@mccampbell.com

QC SUMMARY REPORT FOR 6010C

Matrix: S

WorkOrder: 0311081

EPA Method: 6010C		extraction:	SW30501	3	BatchID:	9253	Spiked Sample ID: N/A						
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
Lead	N/A	50	N/A	N/A	N/A	105	102	3.20	80	120			
%SS:	N/A	100	N/A	N/A	N/A	106	104	1.62	80	120			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

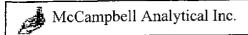
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR 6010C

Matrix: S

WorkOrder: 0311081

EPA Method: 6010C	E	xtraction:	SW3050	в -	BatchID:	9273	Spiked Sample ID: N/A						
	Sample	Spiked	MS*	M\$D*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High			
Lead	N/A	50	N/A	N/A	N/A	106	109	3.49	80	120			
%SS:	N/A	100	N/A	N/A	N/A	106	108	2.15	80	120			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McCampbell Analytical Inc.



CHAIN-OF-CUSTODY RECORD

Page 1 of i

WorkOrder: 0311081

Client:

Aqua Science Engineers, Inc.

208 West El Pintado Road Danville, CA 94526 TEL:

(925) 820-9391

FAX:

(925) 837-4853

ProjectNo:

#3788; Hall 1455 5th St. Oakland

Date Received:

11/7/03

Date Printed:

11/7/03

Sample ID					Requested Tests						
	ClientSampID	Matrix	Collection Date I	Hold	PB_S						
0311081-001	XCON-A-18"	Soil	11/6/03		<u> </u>]					
0311081-002	XCON-B-48"	Soil	11/6/03		А						
0311081-003	XCON-C-18"	Soil	11/6/03		Α						
311081-004	XCON-D-18"	Soil	11/6/03		А						
311081-005	XCON-E-18"	Soil	11/6/03		Α						
311081-006	XCON-F-18"	Soil	11/6/03		Α						
311081-007	XCON-G-24"	Soil	11/6/03		Α						
311081-008	XCON-H-36"	Soil	11/6/03		А						

Prepared by: Maria Venegas

Comments:

24hr Rush

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

0311081

A qua Science Engineers, Inc. 208 W. El Pintado Road Danville, CA 94526 (925) 820-9391 ENY (925) 837-4853

Chain of Custody "

RUSHI

(925) 820-9391 F,\X (925) 837-48	853							·	•			. •			<i>"</i>			246	(05		
S/MPLER (SIGNATUR	₹E)			(PHC	ONE NO.)) .		PROJECT NAME HALL ADDRESS 1455 Sth St. Oakland						l	PAGE OF JOBNO. 37 PF							
ANALYSIS REQUEST SEFECIAL INSTRUCTIONS:			TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	7PH-DIESEL (EPA 3510/8015)	TPH-DIESEL 8. MOTOR OIL (EPA 3510/3015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	EASE 20)	(EPA 6010+7000)	LUFT METALS (5) (EPA 6010+7000) CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	PCBs & PESTCIDES (EPA 608/8080) ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	ETAGOOJOUGUJ FUEL OXYGENATES (EPA 8260)	Pb (TOTAL of DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 0XY'S (EPA 8260)	TPH-G/BTEX/ 5 0XY'S / LEAD SCAVENGERS (EPA 6260)		COMPOSITE			
SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GA (EPA 50	TPH-DIE	TPH-DIE (EPA 3):	PURGE, (EPA ©	VOLATII (EPA 6)	SEMI-V. (EPA 6.	OIL & GREASE (EPA 5520) —	LUFT MI (EPA 60	CAM 17 (EPA 64	PCBs &	ORGAI PESTIC EPAG	FUEL 0 (EPA 8	Pb (TO)	TPH-G, (EPA 8	TPH-G LEAD S (EPA 8		COMP	
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XCON-D-18"				 													X					
XCON-E-18"																	X					
XCON-F-18"									·								x					
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ASE VETRA				: 67	L	1 00(0)					Me	McCampbell OF				HCK.						