GROUNDWATER SAMPLING & ANALYSIS
AND
COMPREHENSIVE ASBESTOS SURVEY
15563 WASHINGTON AVE.
SAN LORENZO, CALIFORNIA
FOR
MR. DON CALLAHAN

JOB NO. EC-517/E316-02 AUGUST 23, 1993

1993 Assessment of adjoining commercial property



# ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.

CONSULTANTS IN APPLIED EARTH SCIENCE

2495 INDUSTRIAL PARKWAY WEST, HAYWARD, CALIFORNIA 94545 TELEPHONE (415) 786-0243 · FAX (415) 732-0289

Job No. EC-517/E316-02 August 23, 1993

Mr. Don K. Callahan 15250 Hesparian Boulevard San Leandro, California 94578

SUBJECT: Groundwater Sampling and Comprehensive Asbestos Survey, 15563

Washington Boulevard, San Lorenzo, California

Dear Mr. Callahan:

Per your request Environmental Geotechnical Consultants, Inc. (EGC) has completed groundwater sampling and a comprehensive asbestos survey at the above referenced site. The survey was carried out in general accordance with our Proposal No. EPH926, dated July 19, 1993.

In summary, groundwater was found to have been impacted by gasoline and significant amounts of asbestos containing materials (ACMs) were detected throughout the buildings located on the property. The attached report presents details of our findings.

Thank you for the opportunity to be of continued service to you on this project. If you have any questions or require additional information please feel free to contact EGC at your convenience.

Very truly yours,

ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.

John F. Hicks, P.E., R.E.A. Principal

Duane K Graves
AHERA Accredited Building Inspector
and Management Planner
Division of Occupational Safety and Health
Certified Consultant

NO. 00062

#### 1.0 INTRODUCTION

### 1.1 Site Location and Description

The site is located at 15563 Washington Ave., in San Lorenzo, California. The site contains a single wood frame parking structure and a single story commercial building. The building includes 3 separate suites. It was not apparent that renovations have been performed to the site; however, if documentation exists on past renovations to the site, the extent and dates of the renovations were not made available to EGC prior to performance of the survey. The building is of a wood frame construction with a stucco and brick exterior. The interior finishes consist of drywall, carpeting, panelling, and various styles of linoleum flooring located in the restrooms and entries. The drywall was finished throughout with the exception of a storage area in suite B. The storage area drywall however was mudded and taped.

A Shell service station adjoins the subject property to the south.

#### 1.2 Objectives and Scope of Work

#### 1.2.1 Groundwater

The purpose of the groundwater sampling was to determine whether gasoline from leaking underground storage tanks (UST) at the neighboring Shell service station may have impacted groundwater beneath the subject site. The scope of the groundwater sampling and analysis included obtaining 3 groundwater samples from the subject property along the south property line adjacent to the Shell service station and submitting the samples under chain of custody procedure to Excelchem, a state certified analytical laboratory in Citrus Heights, California to be analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline, including benzene, toluene, ethylbenzene and xylene (BTEX) and TPH - diesel.

#### 1.2.2 Asbestos

The purpose of the comprehensive asbestos survey was to assess all accessible areas of the site. All occupied and unoccupied areas of the site were inspected to ensure that all visually observed ACMs were assessed. The scope of the survey included:

- Assessment of visually identifiable and accessible ACMs throughout the site.
- 2. Visual assessment of ACMs to determine condition and friability of the material.
- Collection of bulk samples of suspected ACMs.
- Provide an estimate of the quantity of ACMs.
- 5. Provide recommendations to reduce the potential for disturbance of ACMs and exposure to airborne asbestos due to confirmed ACMs on the property.

### 2.0 METHODS AND PROCEDURES

#### 2.1 Groundwater

On August 9, 1993 an EGC representative visited the site to obtain groundwater samples from 3 locations along the south property line, adjacent to the Shell service station. Groundwater sampling was accomplished using a 6-foot section of decontaminated, perforated, 3/4 inch I.D. galvanized steel probe, with the bottom end capped. The perforated probe pipe was attached to 5-foot sections of decontaminated, non-perforated probe pipe. The probes were pneumatically driven to a tip depth of 20 feet below ground surface. Groundwater samples were collected with a decontaminated, stainless steel bailer and placed into laboratory supplied containers which were then labelled in the field.

#### 2.2 Asbestos Survey

No construction drawings were provided to EGC. Prior to conducting the survey a walk through was performed by the inspector to become familiar with the floor plan of the buildings and building materials.

The inspector collected a total of 13 bulk samples. Both friable and non-friable materials were sampled including: drywall joint compound; linoleum; exterior stucco; transite panelling; HVAC sealant; and roofing materials.

The results of the analysis were combined with the observations of the inspector to determine the hazard potential for each type of material. A determination of the quantity, location and condition of these materials was also based on the observation of the inspector during the survey. Once a homogenous (or type) building material was found, the material was provided with a Homogenous Area Number (HA#) and the characteristics of the material were identified. Characteristics include type, color, design, texture and friability. Each time the same material was observed, the same HA# was assigned to the material.

#### 2.3 Asbestos Sampling

During collection of materials for analysis, bulk samples were placed in plastic bags, sealed, and labeled with a sample identification number and delivered to a qualified laboratory for analysis. The sample identification number includes the HA# of the material, the assigned sample number and the date of collection.

#### 2.4 Asbestos Sample Analysis

The bulk samples were examined at the laboratory under a stereomicroscope to identify suspected asbestos fibers. A polarized light microscope equipped with a dispersing staining objective was then used to determine if the sample contained asbestos fibers. The various types of asbestos were identified on the basis of optical characteristics and reported percentages were determined by visual volume estimates. All bulk samples were

analyzed by Precision Micro-Analysis which is a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory and were analyzed using the EPA-endorsed interim method of Polarized Light Microscopy (PLM).

#### 3.0 RESULTS

#### 3.1 Groundwater Results

The results of the groundwater analysis show that TPH-gasoline contamination of the groundwater beneath the subject property has occurred. The concentrations of TPH-gasoline range from 50 parts per billion (ppb) at location B-1, closest to Washington Boulevard (Figure 2), to Not Detected at B-2, to 4,500 ppb at B-1, the western-most sample. BTEX were detected in B-1 and B-3. TPH - diesel was not detected in any of the samples. Laboratory data are presented in Table 2 and laboratory data sheets are included in Appendix D.

#### 3.2 Asbestos Results

Results of the survey indicated that the drywall joint compound on all drywall throughout the building, linoleum, transite panelling, and roof flashing tar were found to contain asbestos. Analytical results are included in Appendix A.

Analysis of the roofing material identified asbestos in the roof flashing tar which can be found on all flashing and penetrations throughout the roof. Other layers and types of roofing which would include aggregate, felts, and composition roofing were not found to contain asbestos. The roofing material was identified during the survey as non-friable asbestos containing material.

Also identified on the roof was transite panelling surrounding the HVAC fan units on the roof. The transite panelling was found to be in a non-friable condition, however, various panels were damaged and rendered friable.

The drywall joint compound found throughout the interior of the building and linoleum in two separate areas were identified during the survey as friable asbestos containing material.

#### 4.0 CONCLUSIONS

#### 4.1 Groundwater

Contamination of the groundwater is most likely caused by sub-surface migration of gasoline onto the subject property from the neighboring Shell service station. The highest concentration of contaminants was detected in B-3 at the southwest corner of the subject

property. The detected levels of TPH-gasoline and BTEX are all above action limits dictated by the state and county regulatory agencies.

#### 4.2 Asbestos

Asbestos fibers are known to cause a number of diseases (including lung and other cancers) when inhaled or ingested. However, the mere presence of AC in a building does not in itself mean that there is a significant exposure risk. In order for a significant exposure risk to exist, the materials must be accessible and capable of releasing fibers (ie, be damaged to the extent of releasing fibers).

#### 4.3 Friable Asbestos

Friable asbestos was identified at the site during the survey in the forms of linoleum in both the restrooms of Castro Insurance and Rice Photography, and drywall joint compound throughout the interior of the building. Approximately 61 sq. ft. of linoleum and 8,638 sq. ft. of drywall w/ joint compound. Although wood panelling was observed on walls in rice photography and suite B, it is assumed that drywall with w/ joint compound is behind the panelling.

Additionally, the non-friable transite panelling on the roof that was damaged was observed to be in a friable condition. It is estimated that approximately 10 sq. ft. of the transite panelling was found to be in a friable condition due to damage.

With the exception of the damaged transite panelling, all friable asbestos was found to be in a good condition.

#### 4.4 Non-Friable Asbestos

Non-friable ACM was identified at the site in the forms of roof flashing tar and the undamaged transite panelling found on the roof. All roofing tar and transite panelling was observed to be in a good condition. Total of roofing was estimated at approximately 3,300 sq. ft.. Amount of roof flashing could not be estimated due to the nature of construction of the roof. Total amount of transite panelling was estimated at approximately 180 sq. ft.

#### 5.0 RECOMMENDATIONS

#### 5.1 Groundwater

A copy of this report should be sent to the Alameda County Health Care Services Agency which has local enforcement jurisdiction for leaking UST's in Alameda County.

#### 5.2 Asbestos

As long as the ACM remains in good repair/condition and disturbance is kept to a minimum, few fibers will be released into the air. Minimizing fiber release through maintaining the integrity of the ACMs constitutes the basic premise of the following recommendations. Any materials that are determined to be in a moderate or poor condition based on the visual assessments should be removed, repaired, or enclosed in place to reduce the risk of fiber release.

All ACMs at 0.1% asbestos content or greater regardless of friability are regulated in the State of California by CAL-OSHA. These ACMs require strict removal and disposal methods as required by CAL-OSHA. Greater than 1% asbestos content friable ACMs or non-friable ACMs that have become friable, or will become friable during renovation or demolition activities are regulated by EPA and also require very strict removal and disposal standards. Improper removal or disposal of ACMs is a violation of EPA and CAL-OSHA regulatory standards for asbestos and can cause fines ranging up to \$25,000.00 per day per violation or in some cases criminal prosecution.

Due to the damage that has occurred with transite panelling on the roof and the location of HVAC supply fans that are immediately adjacent to the damaged transite, it is recommended that the damaged transite be removed as required as soon as possible to prevent any potential fiber release into the building through the air supply fan on the roof. This should be performed by a licensed and registered asbestos abatement contractor in conformance with applicable CAL-OSHA and EPA regulatory standards for friable asbestos containing materials.

#### 5.3 Roofing

Any removal of existing roofing that contains the asbestos containing roof flashing tar should be performed in accordance with standards as required by CAL-OSHA for roofing work involving ACMs. These standards require special asbestos certification of the roofing contractor to perform that type of work properly and in accordance with regulatory standards for asbestos containing roofing materials.

### 5.4 Removal of friable and non-friable ACMs

Removal of friable asbestos containing materials such as linoleum and drywall that does not qualify as a small scale short duration project must be performed under full containment by a CAL-OSHA certified, licensed asbestos abatement contractor. Any removal of friable materials with a concentration of 1% or greater asbestos and at a quantity of 10 sq. ft. or greater would require notification to the Sacramento Metropolitan Air Quality Management District (SMAQMD) and would require engineering controls and disposal as required in the regulatory standards.

Removal of non-friable asbestos containing materials such as the roof flashing tar or transite panelling do not require removal under a full containment, and do not require notification to most air quality districts. Removal of such materials however do require conformance with CAL-OSHA standards for asbestos related work. Local regulations from

the air quality management district should be contacted for any local requirements that may apply to non-friable asbestos containing materials.

Removal of both friable and non-friable asbestos containing building materials greater than the limitations established by the local air quality districts and that will be disturbed during renovation or demolition activities must be removed prior to such activities in conformance with required standards for friable and non-friable asbestos containing materials.

Small scale short duration projects typically are maintenance related items such as small repair of walls and flooring and are defined as a project involving removal of materials that could be placed inside a single glove bag. Small scale short duration projects can be performed by a non-licensed contractor. Additionally, as much as 100 sq. ft. of ACMs can be removed per project by a non-licensed contractor. However, engineering controls, and disposal of materials must still meet CAL-OSHA standards. This would include removal of asbestos containing roofing materials.

The visual description of materials utilized in this survey is a valuable tool for initial identification when additional building materials are found within the complex that were not found during this survey. Although the visual method can be used for an initial identification of not previously identified materials, it is recommended that PLM analysis of any newly identified building material be performed if the material is to be treated as non-asbestos containing material.

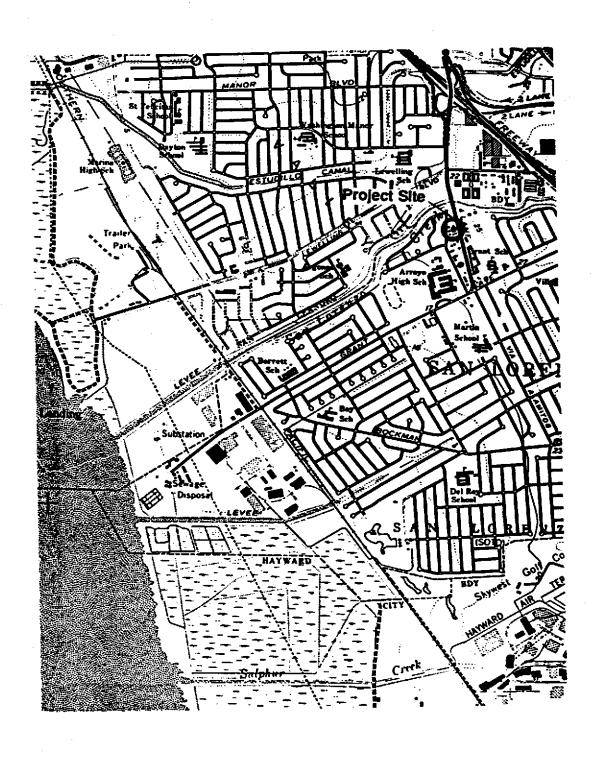
#### 5.5 Operations and Maintenance Plan

An O&M plan will include requirements for maintenance, small scale short duration removal, large scale asbestos abatement, training, notification, and ongoing survey and resurvey for ACMs that exist within the site. Based on the size of the site location, an Operations and Maintenance Plan is not recommended. It is recommended, however that the men's and women's restrooms and the storage room where asbestos containing materials are present are locked and sealed to prevent vandalism and damage to the material.

#### 6.0 LIMITATIONS

The scope of work of this project and the basis for our conclusions was strictly limited to the groundwater sampling and analysis and comprehensive asbestos survey as described above.

No warranty, express or implied, is given regarding the presence of hidden or unidentified sources of contamination or ACMs on the subject property. Any additional information that becomes available concerning this site should be submitted to EGC so that our conclusions may be reviewed and modified, if necessary. This report was prepared for the sole use of Mr. Don Callahan.



HOTES	DATE June 29, 1993	EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.	
Scale: 1 = 24,000	<b>јов но. Е316-0</b> 2	CONSTITUTION IN WANTED EVELIN SCIENCE	
	DWG NO. E316-0 201	PROJECT SITE LOCATION MAP	FIGURE NO.
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	сико J. Phillips	San Lorenzo, Čalifornia	
	APPO J. Hicks	Mr. Don Callahan	REY NO.

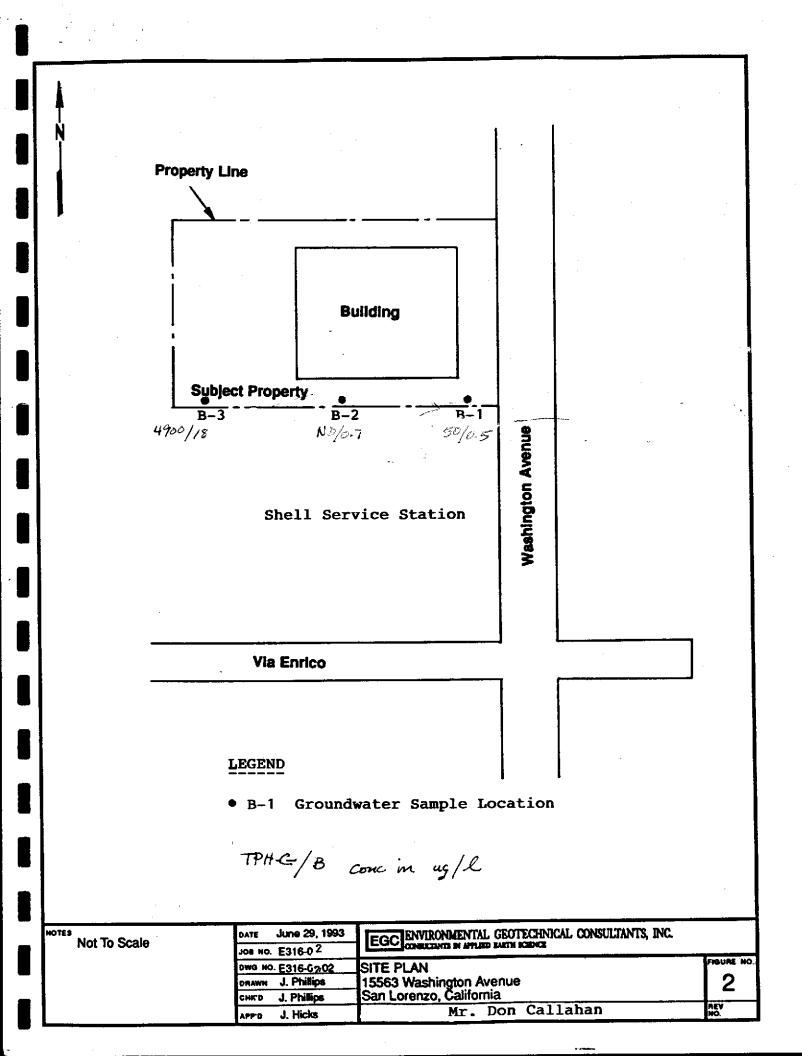


Table	Table 1: Homogeneous Area Number and Material Description				
Homogeneous Material Code	Material Description				
L-1	Beige Linoleum with Brown Octagon Style				
L-2	Tan Linoleum with Etching Style				
JC-1,2	Drywall Joint Compound				
RT-1	Black/Gray Roof Flashing Tar				

**TABLE 2 - GROUNDWATER ANALYTICAL RESULTS** 

Sample ID	TPH - D	TPH · G	Benzene	Toluene	E-Benzene	Xylene
B-1	ND	50	0.5	0.5	ND	0.5
B-2	ND	ND	0.7	ND	ND	ND
B-3	ND	4,900	18	28	12	26

All the above results are in parts per billion.

### **APPENDIX A**

### POLARIZED LIGHT MICROSCOPY ANALYSIS REPORTS



#### SPECIALISTS IN ASBESTOS-RELATED ANALYSIS

## **Bulk Sample Analysis (PLM) Report**

Report # 93223008

Duane Graves 4804 Peale Dr. Sacramento, CA 95842-

Phone:(916)348-7992

Date Collected:08/07/93 Date Received:08/10/93 Date Analyzed:08/11/93

Job Information: J0806-93 15563 Washington Ave. San Lorenzo, CA

			Dan Lorenzo, Ori			
Sample Number	Sample Location	Sample Description	Analytical Results			
001	Rice Photo restroom	(L-1) Beige w/brown octogon lino. w/tan backing, off-white lino. w/ lt. grey backing (OW lino. com-	Overall: 10-15% Chrysotile asbestos (Asbestos found in off-white lino.)			
Leb # 93-115425		prised approx. 50% of the sample)				
002	Rice Photo telephone room	(JC-1) White joint compound, off- white joint compound, tan paint	Overall: Trace Chrysotile asbestos CW JC: 10-15% Chrysotile asbestos			
Lab # 93-115426		·	W JC: No asbestos detected			
003	Rice Photo roof hatch access	(JC-1) White joint compound, tan paint	No asbestos detected			
Lab # 93-115427						
004	Castro Insurance right angled wall	(JC-2) Off-white paint, 2 layers of white joint compound, 1 layer tan	Overall: Trace Chrysotile asbestos W JC: 3-8% Chrysotile asbestos (Asbestos found in outer layer of			
Lab # 93-115428		joint compound	white joint compound)			
005	Castro Insurance entry	(L-2) Brown with brick style linoleum	No asbestos detected			
Lab # 93-115429						
006	Castro Insurance bathroom	(L-3) Tan with etching linoleum and grey fibrous backing	20-25% Chrysotile asbestos (Asbestos found in fibrous backing)			
Lab # 93-115430						

OFFICIAL NOTICE: After 45 day	s, samples are disposed of at a licensed waste d your laboratory identification #'s. Charges for	lisposal site unless client requests
their return, identifying samples b	our laboratory identification #'s. Charges for	· sample returns are a \$5.0 <del>0 r</del> etrieval
fee plus \$2.00 per sample to fover	psts of retrieval, handling, and shipping.	

Total Number of Samples: 13

Analyst Laurettisle

Note: The test result findings are made to the methodologies and parameters described on the reverse of this page.



# SPECIALISTS IN ASBESTOS-RELATED ANALYSIS

# **Bulk Sample Analysis (PLM) Report**

Report # 93223008

Duane Graves 4804 Peale Dr. Sacramento, CA 95842-

Phone:(916)348-7992

Date Collected: 08/07/93 Date Received: 08/10/93 Date Analyzed:08/11/93

Job Information: J0806-93 15563 Washington Ave. San Lorenzo, CA

······							
Sample Number	Sample Location	Sample Description	Analytical Results				
007	Suite B entry	(L-4) Beige and tan linoleum with flower design	No asbestos detected				
Lab # 93-115431							
800	Bldg. exterior	(ST-1) Grey & white exterior stucco	No asbestos detected				
Lab # 93-115432							
009	Roof HVAC	(S-1) Beige seam sealant	No asbestos detected				
Lab # 93-115433							
010	Roof north	(R-1) Black built-up roofing	No asbestos detected 70-75% Cellulose fibers				
Lab # 93-115434							
011	Roof south	(R-1) Black built-up roofing	No asbestos detected 70-75% Cellulose fibers				
Lab # 93-115435							
012	Roof flashing	(RF-1) Black plysheet with grey-tan sealant (Ply comprised approx. 85%	Overall: 5-10% Chrysotile asbestos Ply: 5-10% Chrysotile asbestos				
Lab # 93-115436		of the total sample)	Sealant: 3-8% Chrysotile asbestos				

OFFICIAL NOTICE: After 45 days, samples are disposed of at a licensed waste disposal site unless clie	nt reques	ete
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their return, identifying samples by our laboratory identification #'s. Charges for sample returns are a fee plus \$2.00 per sample to coyer costs of retrieval, handling, and shipping.	,0.95 res	Peru
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Total Number of Samples: 18

Supervisor\_

Note: The test result findings are made to the methodologies and parameters described on the reverse of this page.



#### SPECIALISTS IN ASBESTOS-RELATED ANALYSIS

# **Bulk Sample Analysis (PLM) Report**

Report # 93223008

Duane Graves 4804 Peale Dr. Sacramento, CA 95842-

Phone:(916)348-7992

Date Collected:08/07/93 Date Received:08/10/93 Date Analyzed:08/12/93

Job Information: J0806-93 15563 Washington Ave. San Lorenzo, CA

Sample Number	Sample Location	Sample Description	Analytical Results
013	Roof wall surrounding HVAC units	(T-1) Grey transite paneling with black paint	30-35% Chrysotile asbestos
Lab # 93-115437			1

OFFICIAL NOTICE: After 45 days, samples are disposed of at a licensed waste disposal site unless client requests their return, identifying samples by our laboratory identification #'s. Charges for sample returns are a \$5.00 retrieval fee plus \$2.00 per sample to cover costs of retrieval, handling, and shipping.

Total Number of Samples:

Supervisor <u>Rungtes lus</u>

Analyst Courtester

Note: The test result findings are made to the methodologies and parameters described on the reverse of this page.

### **APPENDIX B**

### **GROUNDWATER LABORATORY DATA SHEETS**

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# **Excelchem**

Environmental Labs

8112 Patton Avenue Citrus Heights, CA 95610 (916) 729-5313



#### ANALYSIS REPORT

EGC, 2495	ard, CA	8 al Pkwy. W 94545	Date est BTE	Sampled Receive Analyze Analyze Katri	d: d:	8-09-93 8-10-93 8-16-93 8-16-93 Water
Reporting Limit	Benzene PPB : 0.5	Toluene PPB 0.5	Ethyl- benzene <u>PPB</u> 0.5	Total Xylenes PPB 0.5	ТРН9 <u>РРВ</u> 50	
SAMPLE Laboratory Iden	tification	1:			·	
B-1 W0893052	0.5	0.5	ND	0.5	50	

PP8 = Parts per billion = ug/L = micrograms per liter
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ND

AMOUNTICAL PROCEDURES

BIEX- Benzene, teluene, athylbenzene, and total xylene isomers (BTEX) are emplyzed by using EPA Nethod 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPBg--Total petroleum hydrocarbons as gasoline (low-to-medium bolling points) are analyzed by using modified EPA Nethod 8015, which utilizes a GC equipped with an FID.

ND

Laboratory Representative

B-2 W0893053 0.7

8-18-93 Date Reported

ND

ND

# **Excelchem**

## **Environmental Labs**

8112 Patton Avenue Citrus Heights, CA 95810 (916) 729-5313



#### ANALYSIS REPORT

EGC, 2495	Industria ard, CA	al Pkwy. W	pate est BTE	e Sampled e Receive X Analyze g Analyze Matri	d: 8-10-93 d: 8-16-93 d: 8-16-93
Reporting Limit:	Benzene PPB 10	Toluene <u>PPB</u> 10	Ethyl- benzene <u>PPB</u> 10	Total Xylenes <u>PPB</u> 10	TPHg <u>PPB</u> 1000
SAMPLE Laboratory Ident	ification	1:			
B-3 W0893054	18	28	12	26	4900
PPS = Parts per billion = MD = Not detected. Compos BTEX Benzene, toluene, o which utilizes a gas chron TPBgTotal petroleum hyde EPA Method 8015, which util	und(s) may be pr ethylbenzene, a matograph (GC) ( mocarbons as ges	eaent at concent AMALYTICAL PR nd total Kylene equipped with a p soline (low-to-m	isomers (BTEX) a photoionization ( pdium boiling po	re analyzed by detector (PID).	using EPA Method 602
				R-	18-93
					Reported

# Excelchem

## **Environmental Labs**

8112 Patton Avenue Citrus Heights, CA 95610 (918) 729-5313



### ANALYSIS REPORT

Attention: Mr. John Hicks

EGC, Inc.

2495 Industrial Pkwy. West

Hayward, CA 94545

Date Sampled: Date Received:

8-09-93

TPHd Analyzed:

8-10-93

Matrix

8-17-93 Water

Project #: E316-02

TPHd

PPB

Reporting Limit:

100

Laboratory Identification

#1\*\*

ND ...

#2\*\*

ND~~

#3\*\*

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#### AMALYTECAL PROCEDURES

TPMd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA Method 8015 with direct sample injection into m GC equipped with an FID.

Laboratory Representative

<u>8-18-93</u> Date Reported

EXCELCHEM ENVIRONMENTAL LABS IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 1760)

PPB = Parts per billion = ug/L = microgram per Liter sa m No sample identification on sample container.

<sup>-- -</sup> Peaks in dieset range.

NO = Not detected. Compound(s) may be present at concentrations below the reporting limit.