APPENDIX D

PHASE I/II ENVIRONMENTAL SITE ASSESSMENTS, SOIL AND GROUNDWATER ASSESSMENTS, AND GEOTECHNICAL INVESTIGATION

ARCADIS
GERAGHTY & MILLER

Phase I/II Environmental Site Assessment

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, California

PREPARED FOR

BAE SYSTEMS
3400 Airport Avenue
Santa Monica, California 90405

ARCADIS GERAGHTY&MILLER

Reinhard Ruhmke, R.G.
Senior Geologist/Project Manager

Ken W. P. Thomas
Principal Scientist

REGISTERED GEOLOGIST
REINHARD M. RUHMKE
No. 6910
STATE OF CALIFORNIA

Phase I/II Environmental Site Assessment

BAE SYSTEMS
3171 South Bundy Drive
Los Angeles, California

Prepared for:
BAE SYSTEMS
3400 Airport Avenue
Santa Monica, California 90405

Prepared by:
ARCADIS G&M, Inc.
1400 N. Harbor Boulevard
Suite 700
Fullerton
California 92835-4127
Tel 714-278-0992
Fax 714-278-0051

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Figures

Tables

Appendices

EXECUTIVE SUMMARY

ARCADIS G&M, Inc. (ARCADIS G&M) has performed and documented a Phase I Environmental Site Assessment (Phase I ESA) and completed a limited Phase II subsurface investigation of the BAE SYSTEMS Facility located at 3171 South Bundy Drive, Los Angeles, Los Angeles County, California (the "subject property"). The Phase I ESA was conducted in accordance with the scope and limitations of American Society of Testing and Materials (ASTM) Standard E 1527-00. The limited Phase II subsurface investigation was performed using industry standards for subsurface investigations.

The subject property consists of one parcel of land that is owned by BAE SYSTEMS. The subject property consists of two large parking lots and five buildings. The subject property was developed from vacant land beginning in approximately 1952 and expanded in the 1960's through 1980. Activities associated with the manufacturing of electronic control systems for the aerospace industry are performed at the subject property. Manufacturing operations currently and have consistently occurred in Building 1. Several listed wastes or characteristic hazardous wastes are generated and temporarily stored on the subject property, and BAE SYSTEMS has a United States Environmental Protection Agency (USEPA) ID number (CAD008285736). Hazardous materials are used throughout Building 1 of the subject property and they are currently stored in the hazardous materials storage area on the neighboring Santa Monica property (Figure 2). The printed circuit board cleaning area is aboveground and discharges the wastewater through aboveground piping to the on-subject property wastewater treatment plant (WWTP). Based on the results of the Phase I ESA, eight areas of potential environmental concern were identified and were further investigated by ARCADIS G&M. These areas include the following:

- The former hazardous waste storage yard;
- The former paint storage area;
- The current satellite hazardous waste storage yard;
- The paint booths;
- The plating area;
- The WWTP clarifier;
- The former clarifier; and
- The northern property boundary where a former UST was present on the adjacent property.

In addition, based on the age of the buildings, asbestos containing materials (ACM) may be present.

Although there are no indications or records of a chemical release to the subsurface, ARCADIS G&M conducted a limited Phase II subsurface investigation to determine whether there have been releases of chemicals in the eight areas of potential environmental concern. Based on the results of the investigation, this assessment found evidence of minor contamination in connection with the site at the following areas:

- The former hazardous waste storage yard;
- The former paint storage area;
- The current satellite hazardous waste storage yard;
- The paint booths;
- The plating area; and
- The WWTP clarifier.

However, the concentrations of detected volatile organic compounds (VOCs) [acetone, 1,1-dichloroethane 1,1-dichloroethene (DCE), cis-1, 2 DCE, trans-1, 2 DCE, ethylbenzene, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, and p/m/o xylenes] are significantly below any current regulatory based criteria and all metal concentrations are similar to background concentrations found in the State of California. In our professional opinion, no further investigation or remediation is warranted at the site.

In addition, to verify the presence of ACM, ARCADIS G&M conducted a limited ACM survey in the buildings. ARCADIS G&M notes that ACM is present in the buildings. Any building renovation or demolition should follow applicable asbestos abatement regulations.

1. Introduction

This report presents the results of a Phase I Environmental Site Assessment (ESA) conducted for BAE SYSTEMS (BAE SYSTEMS), for the site located in Los Angeles, California. The address for the subject property is 3171 South Bundy Drive, Los Angeles, California (subject property) (Figure 1). Limitations to this ESA are presented in Section 1.3. Qualifications of the environmental professionals who completed this Phase I ESA are presented in Appendix A. The Phase I ESA was performed in general accordance with the standards described in ASTM Standard E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (2000), and written authorization between BAE SYSTEMS and ARCADIS G&M, Inc. (ARCADIS G&M) dated February 23rd, 2001. In addition to the ESA, a limited Phase II subsurface investigation was conducted at the subject property. The ESA is addressed in Sections 1.0-6.0 of this document. The results of the limited Phase II subsurface investigation are provided in Section 7.0.

1.1 Purpose

The purpose of the ESA was to assess the presence, to the extent practical, of all recognized environmental conditions (RECs) and historical recognized environmental conditions (HRECs) located in, under, or originating from the subject property in support of a potential acquisition of the subject property. A REC is defined by ASTM Standard E 1527-00 as:

> The presence or likely presence, of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimums are not recognized environmental conditions.

A HREC is defined ASTM Standard E 1527-00 as:

> An environmental condition that in the past would have been considered a REC, but which may or may not be considered a REC currently.

In general, an ASTM Standard E1527-00 Phase I consists of a site description, historical information and records review, including aerial photographs and topographic maps, site reconnaissance and interviews, and report generation.

1.2 Methodology Used

The methodology employed to achieve the above-referenced objective of this ESA was as follows:

- Document the purpose, methodology, limitations, and any limiting conditions uncovered while conducting the ESA.

- Provide a site description of the subject property, including its location; legal description (if provided); site and vicinity characteristics; a description of structures, roads, and other improvements of the subject property (including the heating/cooling system, sewage disposal, source of electrical power, and source of potable water); current uses of the subject property; past uses of the subject property (to the extent identified); and a description of adjoining properties.

- Conduct 1) a records review that includes standard federal and state environmental record sources to determine whether the subject property or facilities in the vicinity of the subject property have been subject to any environmental actions or review; 2) review the physical setting of the subject property (geographic setting and physiography of the subject property and surrounding area); and 3) review historical use information, as available, from one or more of the following sources: a) aerial photographs, b) Sanborn™ fire insurance maps, and/or c) other land-use documents, to identify past operations or activities which may have caused adverse environmental impacts to the subject property.

- Collect information from the site reconnaissance and interviews, including the identification of hazardous substances in connection with identified uses (including the storage, handling, and disposal practices); identification of any storage tanks (including contents and assessment of leakage or potential for leakage); indications

of polychlorinated biphenyls (PCBs); indications of solid waste disposal; and any other conditions of concern.

- Document all findings, opinions, and conclusions.
- Provide all applicable references and the signatures and qualifications of the environmental professionals participating in the ESA.
- Support findings and conclusions with documentation provided in various appendices.

1.3 Limitations and Exceptions of Assessment

The evaluations and recommendations presented in this ESA are based exclusively on examination of selected maps, aerial photographs, and environmental records; on information gained during interviews; review of available reports; and on observations made during the reconnaissance of the subject property. In preparing this report, ARCADIS G&M has assumed the information provided in reports and during interviews is correct. ARCADIS G&M warrants that the services performed were conducted in a competent and professional manner in accordance with sound consulting practices and procedures. ARCADIS G&M cannot warrant the actual property conditions described in this report beyond matters amenable to visual confirmation and analytical data within the limits of this ESA.

There are no third party rights or benefits conferred under this ESA report. Use of this report is strictly limited to BAE SYSTEMS and its lenders. These parties are the sole parties to whom ARCADIS G&M intends to confer any rights. Any reliance on the contents of this ESA report by any other party is the sole responsibility of the party.

2. Site Description

As part of the Phase I ESA, ARCADIS G&M conducted a review of the physical setting, local utility connections, surrounding land use, and regional geologic setting of the subject property. The information presented in this section was obtained by ARCADIS G&M from observations made during the visual site inspection, information provided by BAE SYSTEMS, and from published information obtained in connection with this ESA.

2.1 Location

The subject property is located in Los Angeles, California (Figure 1) at 34° 0' 56.2" North Latitude and 118° 26' 42.4" West Longitude (Environmental Data Resources, Inc. [EDR] 2001). Based on the USGS 7½-Minute Topographic Series, Beverly Hills Quadrangle Map, dated 1966 (photorevised 1994), the subject property is located in Section 4, Township 2 South, Range 15 West. The subject property is located south of the 10 Freeway, along Bundy Drive near Santa Monica Airport within a commercial-industrial-residential area in Los Angeles (Figure 1).

2.2 General Site Configuration

The subject property, which covers approximately 250,000 square feet, consists of two paved parking lots and four buildings (Figure 2). Access to the subject property is via two driveways off of Airport Road. Assessor's Parcel Number (APN) for the subject property is 4247-001-030.

The four buildings were constructed between approximately 1951 and 1980. The following provides a summary of each building:

Building 1 – Single-story building (approximately 84,000 square feet) constructed between approximately 1952 and 1956. Contains printed circuit board electronics assembly area, cafeteria, engineering labs, and office space;

Building 3 – 2-story building (approximately 10,000 square feet) constructed in 1963. Contains office space and engineering labs;

Building 4 – 4 story building (approximately 25,000 square feet) constructed in 1980. Contains office space;

Building 5 – 4 story building (approximately 32,000 square feet) constructed in 1963. Contains office space;

The city limits between Santa Monica and Los Angeles exists at the northern property boundary. The facility also currently leases an adjacent property to the north, which will be herein called the "Santa Monica" property, while the subject property will be called the "Los Angeles" property.

2.3 Surrounding Grounds

The grounds of the subject property are mostly covered by asphalt and concrete surfaces including either the buildings or the parking/driveway and sidewalk areas. Housekeeping on the subject property was observed to be good. Very minor staining was noted on the subject property in the parking areas, and this was limited to asphalt and concrete surfaces. The asphalt parking areas contain a significant number of cracks in various directions.

2.4 Physical Setting

This section provides a review of the regional environmental setting of the subject property, and includes a review of surface water, regional geology and hydrogeology.

2.4.1 Site Topography and Surface Slope

Based on a review of the United States Geological Survey (USGS) 7½-Minute Topographic Series, Beverly Hills Quadrangle Map (USGS 1994), the subject property lies relatively flat at an elevation of approximately 140 feet above mean sea level (msl). The topography of the subject property slopes slightly towards the west. There are no exposures of soil at the subject property.

2.4.2 Proximity to Surface Water Bodies

No wetland areas were observed adjacent to the subject property. No surface water bodies were observed near the subject property (USGS 1994).

2.4.3 Site Geology

The subject property is located in the northwestern portion of the Los Angeles Basin, approximately seven miles south of the Santa Monica Mountains. The subject property is underlain by faulted Tertiary and Pleistocene age sediment. Recent alluvium composed of fine to medium sands, silt, and clay compose the near surface soil. The Charnock Fault and the Newport-Inglewood Fault Zone are located approximately ½-mile and 4-miles east of the subject property, respectively.

2.4.4 Hydrogeologic Conditions

The subject property lies within the Santa Monica Ground Water Basin. Based on California Department of Water Resources (DWR) Bulletin 104, the first aquifer in the vicinity of the subject property is the Ballona Aquifer (DWR 1961). Water level data needed to assess groundwater depth and flow direction beneath the subject property is not available. However, ARCADIS G&M completed a file review for the nearby Santa Monica residential property and determined that first groundwater is present at a depth of approximately 65 feet below ground surface (bgs) and flows in a southeasterly direction. A perched water-bearing zone was reported at approximately 39 feet bgs at the nearby Santa Monica Airport property, however the areal extent of the perched water-bearing zone was limited. Based on the results of the limited Phase II subsurface investigation performed by ARCADIS G&M (Section 7.0) groundwater was not encountered on the subject property to a depth of 50 feet bgs. No municipal wells were identified by EDR within a 1-mile radius of the subject property or observed during the site reconnaissance on the subject property (Appendix D).

3. Historical Information and Records Review

Several sources were reviewed as part of the background research for development of this ESA report. Sources were reviewed to develop an understanding of current and past land uses and practices that may have involved the handling, use, storage, and/or disposal of hazardous substances or wastes. Subject property information and historical information are provided in the sections below.

The historical information obtained for this ESA included the following:

- The review of seven aerial photographs and six historical topographic maps;
- The review of historical city directories; and
- The EDR database record review that consisted of a search of federal, state, and local environmental databases;

3.1 Site and Vicinity History

As part of the aerial photograph review, seven historical aerial photographs were provided by EDR. A copy of the EDR aerial photographs is provided in Appendix B. The following provides a summary of the aerial photograph review:

- EDR, 1"=500', 1928 – The subject property is vacant and appears to be used for agricultural purposes. The surrounding area is relatively undeveloped;

- EDR, 1"=666', 1947 – This aerial photograph is similar to the 1928 aerial photograph. The subject property continues to be undeveloped. The Santa Monica Airport is present north of the subject property. Residential development is occurring in the vicinity of the subject property;

- EDR, 1"=555', 1952 – This aerial photograph is similar to the 1947 aerial photograph. The subject property continues to be undeveloped. Development has occurred on the adjacent property to the north. Residential development continues to occur in the vicinity of the subject property;

- EDR, 1"=600', 1966 – Buildings 1, 3, and 5 are present in this aerial photograph. Residential development appears to be complete in the vicinity of the subject property;

- EDR, 1"=666', 1976 – This aerial photograph is similar to the 1966 aerial photograph;

- EDR, 1"=666', 1989 – Building 4 has been constructed and the photograph generally depicts current subject property conditions; and

- EDR, 1"=666', 1994 – This aerial photograph is similar to the 1989 aerial photograph.

As part of the historical topographic map review, six historical topographic maps provided by EDR were reviewed. A copy of these topographic maps is provided in Appendix C. Our review of the historical topographic maps confirmed the results of the aerial photo review in relation to the presence of on-site and nearby features since at least 1928. The following provides a summary of the historical topographic map review:

- Topographic Map, 1898, USGS, Santa Monica, California, 1:62,500
- Topographic Map, 1950, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1966, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1972, USGS, Beverly Hills, California, 1:24,000
- Topographic Map, 1981, USGS, Beverly Hills, California, 1:24,000

- Topographic Map, 1994, USGS, Beverly Hills, California, 1:24,000

A review of historical documentation indicates that there is no evidenceof site activities that might have caused any environmental impact to the subject property. A review of the historical aerial photographs and topographic maps did not indicate evidence of a REC at the subject property.

3.2 Environmental Record Review

A search of selected government databases was conducted by ARCADIS G&M using EDR to identify any hazardous/solid waste disposal sites, registered USTs, reported leaking USTs, hazardous material users, and hazardous material generators. The EDR report did identify the subject property on the FINDS, RCRIS, and HAZNET databases. These databases are generally associated with the storage and/or use of hazardous materials on-site and are not associated with the release of hazardous materials to the subsurface. Three nearby sites were identified (two Santa Monica Airport sites and a Shell Oil Co. site) that may pose an environmental concern for the subject property. EDR reports that groundwater at these properties is contaminated. A copy of the EDR report is included as Appendix D.

A review of the EDR map findings and database search has revealed that there are no RECs associated with the subject property. However, the reported groundwater contamination at the Santa Monica Airport may be a concern.

3.3 City Directory Abstract Review

EDR, at the direction of ARCADIS G&M, conducted a review of City Cross Reference directories to assist in identifying any facilities that may have occupied the subject property which have had the potential to contribute to, or create, recognized environmental conditions. City Directory coverage was available for the subject property from 1963 through 1998. A copy of the EDR City Directory document is included in Appendix E.

A review of the EDR-City Directory Abstract reveals the following information:

- Prior Use Report™ Timeline shows Lear Siegler Inc. listed at the subject property in 1963 and 1968. No other companies were listed at the subject property address.

- Gasoline service stations were present at nearby 2876 and 3010 South Bundy Drive since 1963. A variety of businesses were listed at 3030 South Bundy Avenue since 1973.

- No other listings were provided in the City Directory Search.

A review of the EDR City Directory Search has revealed that there are no RECs associated with the subject property.

3.4 Sanborn Maps

Sanborn™ Maps were not available for the subject property.

3.5 Ownership History

No chain-of-title search was conducted as part of this assessment.

3.6 File Review

At the request of BAE SYSTEMS, ARCADIS G&M reviewed environmental files associated with the nearby Santa Monica Airport and Shell Oil Co. as discussed in Section 3.2 The Los Angeles Regional Water Quality Control Board (LARWQCB) provided files for two of the sites with groundwater and soil releases: The Santa Monica Municipal Airport Administration Building and the Santa Monica Residual Property. The LARWQCB did not have a file for the Shell site. The following sections provide a summary of the data reviewed.

3.6.1 Santa Monica Municipal Airport Administrative Building

3.6.1.1 Groundwater

The Santa Monica Municipal Airport Administrative Building is located northeast of the subject property at 3223 Donald Douglas Loop South, Santa Monica, California. Groundwater is impacted with total petroleum hydrocarbons (TPH) as phase-separated hydrocarbons (PSH) and dissolved phase hydrocarbons (benzene, toluene, ethylbenzene, and xylenes (BTEX). The lateral extent of groundwater impact has been delineated and according to the most recent report, the impact has not migrated beneath the subject property. According to Lindmark Engineering Inc. (Lindmark), depth to groundwater ranges from approximately 130 feet bgs to 155 feet bgs and flows in a

southeasterly direction (Lindmark 1992). The PSH was discovered in a perched water-bearing zone at a depth of approximately 39 feet bgs. The areal extent of the perched water-bearing zone is limited (Lindmark 1992). The City of Santa Monica has been identified as the responsible party for this release. No other information was available.

3.6.1.2 Soil

Soil impacted with petroleum hydrocarbons was present in the subsurface. A soil vapor extraction (SVE) system was installed and operated between July 1996 and July 1997. Following SVE system shutdown, a human health risk assessment (HHRA) was performed and site closure with no further action was recommended based on the results of the HHRA (Converse 1998). No other information was available.

3.6.2 Santa Monica Residual Property

3.6.2.1 Groundwater

The Santa Monica Residual Property is located southeast of the subject property at 3000 Airport Avenue, Santa Monica, California. Depth to water in the deep aquifer ranges between 109 and 112 feet bgs and groundwater flows in a southeasterly direction. Approximately 0.5 feet of PSH is present on the deep aquifer. The depth to water in the shallow aquifer ranges from approximately 64 to 66 feet bgs and flows predominantly south. Approximately 1.0 feet of PSH is present on the shallow aquifer. The downgradient wells do not contain detectable concentrations of petroleum hydrocarbons and volatile organic compounds (VOCs) (Arthur D. Little 2000). Based on the data provided, impacted groundwater does not appear to be migrating under the subject property. The City of Santa Monica has been identified as the responsible party for this release. No other information was available.

3.6.2.2 Soil

Soil impacted with petroleum hydrocarbons was present in the subsurface. The reported concentrations exceeded Los Angeles County Action Levels. Test results also indicated the presence of 2-butanone for which no action limit was established. However, concentrations for 2-butanone were relatively low and not considered to affect the environmental suitability of the site (Earth 1988). No other information was available.

3.7 Previous Investigations

No previous subsurface investigations have been conducted at the subject property. Environ Corp. conducted a compliance audit at the subject property in 1995 (Environ 1995). There were no adverse findings from this investigation.

4. Site Reconnaissance and Interviews

A site inspection was conducted on April 19th, 2001. A general description of the subject property and neighboring properties is presented in the following sections.

Summarized below are observations relative to specific physical features.

Physical Feature	Observations
Foundations of former structures	None observed during the site inspection.
Odors	None were noted during the site inspection.
Pools of liquid	None observed during the site inspection.
Electrical or hydraulic equipment known or likely to contain PCBs	None observed during the site inspection.
Unidentified substance containers (including empty drum storage)	None were noted during the site inspection.
Stained soil and pavement, corrosion, and degradation of floors and walls	None observed during the site inspection.
Pits, ponds, and lagoons	None were noted during the site inspection.
Stressed vegetation (from other than insufficient water)	None were noted during the site inspection.
Wells (including dry wells, irrigation wells, injection wells)	None were noted during the site inspection.
Septic systems	None were noted during the site inspection.

Photographic documentation of conditions observed on the property is referenced in this report and included in Appendix F.

4.1 Interviews

Mr. James Bright and Mr. Richard Spalding representing BAE SYSTEMS were available for the interview. Mr. Reinhard Ruhmke representing ARCADIS G&M conducted the interview and site inspection.

4.2 Current Use of Subject Property

This section presents of brief summary of the current uses of the subject property.

4.2.1 Operations

BAE SYSTEMS currently manufactures primarily electronic control systems for the aerospace industry. Other than removing, relocating or upgrading some of the manufacturing processes as necessary, historical operations have not changed significantly from the current manufacturing process. A facility map, which shows the different manufacturing areas, is provided in Figure 2. Several listed wastes or characteristic hazardous wastes are generated and temporarily stored on the subject property, and BAE SYSTEMS has a United States Environmental Protection Agency (USEPA) ID number (CAD008285736). Hazardous materials are used throughout Building 1 of the subject property and they are currently stored in the hazardous materials storage area on the Santa Monica property (Figure 2).

Manufacturing operations have consistently occurred in Building 1 (Figure 2). Activities associated with the manufacturing operations that may impact the subsurface include the paint booths and plating areas (Figure 2). The printed circuit board cleaning area is aboveground and discharges the wastewater through aboveground piping to the WWTP (Figure 2). The paint booths were recently renovated due to corrosion problems (Environ 1995).

The following is a list of the chemicals most frequently used at the facility based on hazardous waste manifests:

1,1,1-Trichloroethane (discontinued in 1995);
Methyl Ethyl Ketone (MEK);
Prozone Solvent;

Lead solder;
Toluene;
Xylenes;
Isopropyl Alcohol;
Chromic Acid (Hexavalent Chromium);

4.2.2 Waste Disposal

The subject property uses the on-site WWTP for treatment of the wastewater prior to discharge to the Los Angeles County Sanitation District under an active waste discharge permit. The WWTP contains an evaporator and a 4-stage clarifier. Various Notice-of-Violations (NOVs) for exceedence of allowable concentrations of metals and solvents were reported by BAE SYSTEMS. Most of the NOVs were reported in 1994 and 1995 with two occurring within the past year (dates unknown). Subsequent to the NOVs, additional water treatment equipment was installed at the WWTP and the inside of the clarifier was covered with an epoxy sealant material. Another clarifier was present outside the southeast portion of Building 1. There was no information available regarding its history with the exception that it was backfilled with gravel and concrete by BAE SYSTEMS in approximately 1994.

The subject property also disposes of hazardous waste generated during facility operations. The main hazardous wastes disposed of or recycled at off-site facilities permitted to accept the wastes include metals (including lead and hexavalent chromium), MEK, 1,1,1-trichloroethane (prior to 1995), xylenes, toluene, and isopropyl alcohol. Currently the hazardous waste is stored on the Santa Monica property (Figure 2). Historically, prior to 1992, the hazardous waste was stored in the southwest portion of the subject property. A satellite hazardous waste storage area and former paint storage area were also located on the south side of Building 1 (Figure 2).

4.3 Utilities

The subject property is provided with commercial and/or municipal utility services including natural gas, potable water, combined storm and sanitary sewer services, and electricity.

No septic systems, water supply wells, or injection wells are known to exist at the subject property, either formerly or currently, and evidence of such systems was not observed during the site inspection.

Three pole-mounted transformers were observed outdoors on the southeast portion of the subject property. According to Mr. Spalding, these units are owned and maintained

by the Los Angeles Department of Water and Power (LADWP) and are not the responsibility of BAE SYSTEMS. In addition, the units appeared to be in good condition with no signs of leaks or staining.

The facility does generate process wastewater in the course of daily operations, and the Los Angeles City Public Works Department has issued the facility a formal permit to discharge. Storm water runoff from the subject property is conveyed to the west portion of the subject property where it leaves the subject property. No storm water holding capacity is known to exist on the subject property.

4.3.1 Vicinity

At the time of the site inspection by ARCADIS G&M in April 2001, surrounding land uses were observed to be residential and commercial. In general, adjoining land uses are as follows.

North: A property currently leased by BAE SYSTEMS bounds the subject property to the north. The Santa Monica Airport is located across Airport Drive.

East: Bundy Drive and residential property bounds the subject property to the east.

South: Residential property bounds the subject property to the south.

West: Residential property bounds the subject property to the west.

4.4 Radon Gas

According to the USEPA in the National Radon Database (as reported by EDR), the average radon gas concentration measured at locations within the same postal zip code as the subject property is less than 0.711 picocuries per liter (pCi/L) on 1st floor of dwellings. While there is currently no occupational safety guideline for radon gas exposure in the work place, the USEPA safety guideline for radon levels for residential properties is 4.0 pCi/L.

4.5 Fuel and Chemical Storage

No evidence of any existing USTs, including fill pipes, vent pipes, manways or other typical UST appurtenances were noted during the subject property inspection. As discussed previously, there are three areas on-site where hazardous wastes are or were stored. These areas include the former hazardous waste storage area, former paint storage area, and current satellite hazardous waste storage area (Figure 2). Most of these materials were stored in vendor-supplied containers. The floor of the former waste storage area is bermed and has a minimum of 6 inches of concrete. The former paint storage area and current satellite hazardous waste storage area are covered with asphalt. All materials are currently stored in areas with secondary containment.

Mr. Spalding stated that a UST was formerly located on the neighboring property to the north and that it was removed during the late 1970's (Figure 2). No additional information was available regarding this UST. Based on the results of the soil gas survey completed by ARCADIS G&M (Section 7.0), there does not appear to be a release from the former UST that has impacted the subject property (Section 7.8.1).

4.6 Asbestos

Hygienetics Environmental Services, Inc. (Hygienetics) conducted a limited asbestos survey on April 19th, 2001. The purpose of the survey was to identify, locate, and quantify accessible asbestos-containing material (ACM) within the four buildings (Buildings 1, 3, 4, and 5). The survey was limited to friable and damaged non-friable materials. A California Accredited Asbestos Consultant performed the survey. A copy of the asbestos report is provided in Appendix G.

Based on the results of the survey, ACM is present in the acoustic ceiling materials, floor tile mastic, and most floor tiles. Although, samples were not collected from roofing materials, based on the age of the buildings, ACM is likely present in this area also.

Accordingly, prior to any building renovation or demolition, ACM must be removed and properly disposed in accordance with applicable regulations by a licensed and registered asbestos abatement contractor. Also, additional destructive sampling for ACM would likely be required to verify the presence of ACM in areas not accessible during this survey.

The friable acoustic ceiling material was in fair to good condition. If building renovation or demolition is not proposed in the near future, these materials can be effectively managed through a facility asbestos operations and maintenance (O&M) program.

4.7 Historical Use of Subject Property

According to Mr. Bright and Mr. Spalding, Lear has owned the subject property since approximately 1936 and the first building (Building 1) was constructed in the early 1950's. It was reported that the City of Santa Monica and the Navy conducted operations on a portion of the subject property (Environ 1995). However, based on a review of aerial photographs, these operations appear to have been conducted on the leased Santa Monica property not the Los Angeles property. There is no recollection of USTs ever being used on the subject property.

5. Findings

Based on information gathered during the ESA by ARCADIS G&M, the following findings are presented:

- No USTs were or are located on the subject property. A former UST may have been located near the northern property boundary of the subject property (Figure 2).

- Groundwater was not encountered to a depth of 50 feet bgs. Based on a review of files, depth to the shallow aquifer is approximately 65 feet bgs and groundwater flows in a southerly direction. Depth to groundwater and groundwater flow direction beneath the subject property is unknown. However, it is likely similar to the nearby Santa Monica Airport sites.

- One current (satellite waste storage area) and two former chemical storage areas (former waste storage area and former waste paint storage area) were observed on the subject property (Figure 2).

- The facility manufactures electronic control systems.

- The facility has a WWTP with a 4-stage clarifier. Various NOVs were reported by BAE SYSTEMS for exceedance of allowable discharge of metals and solvents in the wastewater.

- A former clarifier is present near the southeast corner of Building 1. No information is available regarding the history of this former clarifier.
- There is a plating area and two paint booths in Building 1.
- No spills, stained vegetation, or heavily stained asphalt or concrete were observed.
- The buildings were constructed between 1951 and 1980.
- ACM is present in the buildings.

6. Opinions

Based on information gathered during the ESA by ARCADIS G&M, the following opinions are presented:

- Based on the age of the buildings and the results of the limited sampling, ACM is present and should be appropriately abated prior to any building renovation or demolition.
- There are two reported off-site releases to groundwater in the vicinity of the subject property. However, based on available data, contaminated groundwater originating from these sites does not appear to be migrating beneath the subject property. The responsible parties for the identified groundwater impacts have been identified.
- Based on the data provided, there are eight areas of potential concern where releases of chemicals to the subsurface may have occurred although there are no indications or records of a chemical release. These areas are:

    1. The former hazardous waste storage yard;
    2. The former paint storage area;
    3. The current satellite hazardous waste storage yard;
    4. The paint booths;

5. The plating area;

6. The WWTP clarifier;

7. The former clarifier; and

8. The northern property boundary where the former UST was present on the adjacent property.

7. Phase II Subsurface Investigation

At the request of BAE SYSTEMS, ARCADIS G&M also conducted a limited Phase II subsurface investigation at the areas of potential environmental concern identified in Section 6.0. The objective of the limited Phase II investigation was to determine whether releases to the subsurface had occurred in the areas of potential concern identified in Section 6.0. The eight areas of potential concern are identified as the following:

1. The former hazardous waste storage yard;

2. The former paint storage area;

3. The current satellite hazardous waste storage yard;

4. The paint booths;

5. The plating area;

6. The WWTP clarifier;

7. The former clarifier; and

8. The northern property boundary where the former UST was present on the adjacent property.

This section describes methods and results of the soil and soil-gas sampling program. Sampling activities were conducted between May 11th and June 3rd, 2001, and consisted of sampling 17 on-site locations and four off-site background locations for soil and 26 onsite locations for soil-gas.

7.1 Utility Clearance

Prior to commencement of field activities, Underground Services Alert (USA) was notified of our intent to conduct subsurface investigations at least 48 hours prior to initiation of intrusive field tasks. USA contacted all utility owners of record within the site vicinity and notified them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation. In addition, all on-site locations were cleared for underground structures using a utility locating company.

7.2 Site Soil Sampling Procedures

ARCADIS G&M developed the following scope of work to complete the objectives outlined in Section 7.0. The scope of work performed included performing limited subsurface investigations in the vicinity of areas of potential environmental concern identified during the ESA (Section 6.0) (Figure 2). The investigation methods included conducting a soil-gas survey, and installing soil borings and collecting soil samples for possible laboratory analysis. ARCADIS G&M personnel, working under the supervision of a California Registered Geologist, directed all of the activities. All work was performed under a Site-Specific Health and Safety Plan (HASP) prepared by ARCADIS G&M. A summary of the methodologies used during this investigation is provided below, and a detailed description of field methodologies is provided in Appendix H. The methodology for the initial soil-gas survey is provided in the Environmental Science Technologies, Inc. (EST) Report (Appendix I). The rationale for locating the soil borings and soil-gas probes is provided below:

Soil-gas/Boring No.	Rationale:
SG-1 – SG-12	Determine whether VOC impact is present in the vicinity of the former hazardous waste storage area
SG-13 and SG-14	Determine whether VOC impact is present beneath the storm water drainage channel in the vicinity of the former hazardous waste storage area.
SG-15 – SG-18	Determine whether VOC impact is present in the vicinity of former paint storage area, current

	satellite waste storage area, paint booths, and WWTP.
SG-19 and SG-20	Determine whether VOC impact is present in the vicinity of the former clarifier.
SG-21 - SG-26	Determine whether VOC impacts are present in the vicinity of the off-site former UST located near the northern property boundary.
SB-1	Determine whether soil impact is present in the vicinity of the WWTP (clarifier).
SB-2	Determine whether soil impact is present in the vicinity of the paint booths.
SB-3, 3A, 3B	Determine whether soil impact is present in the vicinity of the plating room
SB-4	Determine whether soil impact is present in the vicinity of former clarifier.
SB-5	Determine whether soil impact is present in the vicinity of former paint storage area. Location based on soil gas results from SG-7.
SB-6 and SB-7	Determine whether soil impact is present in the vicinity of former hazardous waste storage area. Locations based on soil gas results from SG-6 and SG-11.

7.3 Soil-Gas Survey and Soil Sampling

In order to determine whether releases to the subsurface had occurred from some of the areas of potential environmental concern previously identified, a focused, limited soil-gas survey and initial soil sampling program was completed at the 37 locations depicted on Figure 3. Between May 11th and May 25th, 2001, a representative from ARCADIS G&M was on-site to oversee the installation of 26 shallow (less than 5 feet bgs) soil-gas probes (SG-1 through SG-26), and eleven soil borings (SB-1 through SB-7 and BG-through BG-4) by EST (Newport Beach, California) (Figure 3). The soil borings were installed using direct-push drilling methodology. Soil samples were collected from each borehole by an ARCADIS G&M geologist for potential laboratory analysis. Selected soil samples were analyzed for VOCs, hexavalent chromium, and CAM-17 Metals. The VOCs were extracted in the field using EPA Method 5035. The soil-gas samples were

analyzed in the field for Total Volatile Petroleum Hydrocarbons (TVPH) and VOCs using a mobile laboratory provided by EST equipped with a Varian-3400 GC configured with a photo-ionization detector (PID) and an electrolytic conductivity detector (ELCD) placed in series. The soil gas survey was performed in general accordance with the LARWQCB protocols dated February 25, 1997. Soil-gas sampling methodology is provided in the EST report located in Appendix I.

Based on the results of the initial soil sampling, ARCADIS G&M returned to the subject property on June 3rd, 2001 to continue soil boring SB-3 to further vertically delineate subsurface impact (hexavalent chromium) detected near the plating shop. The boring was drilled by Cascade Environmental Services (Cascade) using a hollow-stem auger drill rig to a final depth of 50 feet bgs. Soil samples were collected from the borehole by an ARCADIS G&M geologist for potential laboratory analysis. Selected soil samples were analyzed for hexavalent chromium.

The soil samples were labeled, custody sealed, entered into chain-of-custody, placed in an ice-chilled cooler, and delivered to a state-certified laboratory. The soil was field-screened for organic vapors using a PID and was characterized according to the Unified Soil Classification System (Howard 1986). Elevated organic vapor readings above background levels were not encountered during field sampling activities. The field geologist recorded these organic vapor readings and soil characterization in field notes.

7.4 Background Soil Sampling Procedures

Background soil borings (BG-1 through BG-4) were installed at the perimeter of the subject property (Figure 3). Samples were collected at one and five feet bgs and placed into laboratory provided containers. Soil samples were then, labeled, custody sealed, entered into chain-of-custody, placed in an ice-chilled cooler, and delivered to a state certified laboratory. All background samples were analyzed for CAM metals using USEPA Method 6010B/7471A.

7.5 Decontamination Procedures

All equipment that came into contact with the soil was decontaminated consistently to assure the quality of samples collected. Decontamination was conducted prior to and after each use of a piece of equipment. All sampling devices used (stainless-steel hand auger buckets) were decontaminated using the following procedures:

- Non-phosphate detergent and distilled water wash, using a brush;
- Initial deionized/distilled water rinse; and
- Final deionized/distilled water rinse.

7.6 Investigative-Derived Waste Management

All soil cuttings and decontamination water was placed onsite in labeled 55-gallon drums. The waste material and water will be properly disposed pending analytical results. Used personal protection equipment (PPE) were placed in a municipal refuse dumpster.

7.7 Locations of Soil Samples

Soil sample locations were measured in the field by ARCADIS G&M personnel. A reference point (i.e. corner of property) was used to measure the approximate location of each soil boring location. The measured locations of each soil sample location are presented on Figure 3.

7.8 Analytical Results

Tabular summaries of analytical results are presented in Tables 1 through 6. Laboratory summary reports are presented in Appendix J.

7.8.1 Soil-Gas

A summary of soil gas results is provided in Table 1. Several VOCs [1,2-trichloroe-trifluoroethane, 1,1-dichloroethene (1,1 DCE), cis-1, 2 DCE, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), toluene, tetrachloroethene (PCE), ethylbenzene, and meta, para, and ortho xylenes) were detected in the soil-gas samples. In general, the

soil gas concentrations were low [less than 100 micrograms per Liter (µg/L)] in all areas investigated. The highest soil gas concentration (674 µg/L of toluene) was detected in SG-6 at 5 feet bgs. This sample was collected from the former hazardous waste storage area. The higher concentrations of soil gas were measured in the former hazardous waste storage area, former paint storage area, satellite waste storage area, and WWTP. Consequently, these areas were included as part of the subsequent soil investigation. Due to the very low (less than 10 µg/L) concentrations of petroleum hydrocarbon constituents (xylenes, etc.) detected in soil gas samples collected adjacent to the northern property boundary, there does not appear to have been a release from the neighboring property former UST that has impacted the subject property. Consequently, a subsurface soil investigation was not performed in this area.

7.8.2 Soil

Selected soil samples were analyzed for VOCs by EPA Method 8260C and 5035 extraction, hexavalent chromium by EPA method 7199, and CAM 17 metals by EPA Method 6010/7471. The analytical results of soil analyses are provided in Tables 2 through 4.

7.8.2.1 Volatile Organic Compounds

A summary of detected VOC compounds in soil is provided in Table 2. Some of the VOC analyses were performed in boring installed where concentrations of VOCs in soil gas were the highest. The reported concentrations of detected compounds [acetone, 1,1-dichloroethane (1,1-DCA), 1,1 DCE, cis-1, 2 DCE, trans-1, 2 DCE, ethylbenzene, PCE, 1,1,1-TCA, TCE, and p/m/o xylenes are summarized below:

- A detectable (greater than 1 µg/kg) concentration of acetone was reported in soil samples from borings SB-2, SB-6, and SB-7. The maximum reported concentration was 45 µg/kg at 1 foot bgs in boring SB-7;
- A detectable (greater than 0.5 µg/kg) concentration of 1,1-DCA was reported in a soil sample from boring SB-2. The concentration was 0.9 µg/kg at 5 feet bgs;
- A detectable concentration of 1,1-DCE was reported in soil samples from borings SB-1, SB-2, and SB-6 through SB-7. The maximum reported concentration was 10 µg/kg at 15 feet bgs in boring SB-5;

- A detectable concentration of cis 1,2-DCE was reported in a soil sample from boring SB-1. The reported concentration was 12 µg/kg at one-foot bgs;

- A detectable concentration of trans 1,2-DCE was reported in a soil sample from boring SB-1. The reported concentration was 0.89 µg/kg at one-foot bgs;

- A detectable concentration of ethylbenzene was reported in a soil sample from boring SB-1. The reported concentration was 4.6 µg/kg at one-foot bgs;

- A detectable concentration of PCE was reported in soil samples from boring SB-2, SB-6, and SB-7. The maximum reported concentration was 3.8 µg/kg at one-foot bgs in boring SB-6;

- A detectable concentration of 1,1,1-TCA was reported in soil samples from boring SB-2, SB-6, and SB-7. The maximum reported concentration was 5.5 µg/kg at one-foot bgs in boring SB-6;

- A detectable concentration of TCE was reported in soil samples from boring SB-1, SB-2, SB-5, SB-6, and SB-7. The maximum reported concentration was 17 µg/kg at one-foot bgs in boring SB-1;

- A detectable concentration of p/m-xylenes was reported in a soil sample from boring SB-1. The reported concentration was 26 µg/kg at one-foot bgs; and

- A detectable concentration of o-xylenes was reported in a soil sample from boring SB-1. The maximum reported concentration was 13 µg/kg at one-foot bgs.

Based on the data presented, it appears that very low concentrations of VOCs are present in soil beneath the former hazardous waste storage yard, WWTP, and former paint storage area. The maximum vertical extent of VOCs is at approximately 15 feet bgs. The concentrations of VOCs decreased to below laboratory reporting limits below this depth. The detected VOC concentrations are significantly below their respective Preliminary Remediation Goals (PRGs) for industrial properties provided by the USEPA (USEPA 2001). The PRGs for each VOC are also provided in Table 2. In addition, based on groundwater being deeper than 50 feet bgs, the concentrations are not considered a threat to groundwater based on the LARWQCB VOC guidance document (LARWQCB 1996). Thus the detected concentrations are below any current regulatory-based criteria and no additional investigation or remediation is warranted.

7.8.2.3 Metals

A summary of metals results is provided in Table 3. The following metals were detected at the subject property above reporting limits (the number of detections is indicated in parentheses following each analyte): arsenic (6), barium(13), beryllium (4), total chromium (13), cobalt (13), copper (13), lead (13), mercury (3), molybdenum (3), nickel (13), selenium (2), vanadium (13), and zinc (13). Antimony, cadmium, silver, and thallium were not detected above reporting limits in any samples. Maximum reported concentrations of each detected metal are as follows (the concentration in milligrams per kilogram [mg/kg] is indicated in parentheses following each analyte): arsenic (4.51), barium (86.6), beryllium (0.285), total chromium (14.7), cobalt (8.49), copper (14.2), lead (63.7), mercury (0.221), molybdenum (0.629), nickel (15.5), selenium (1.44), vanadium (32.8), and zinc (42.4). As mentioned above, eight background samples were collected. The ranged of detected background metals are summarized below.

- Antimony background concentrations were below laboratory reporting limits (ND) of 0.25 mg/kg;
- Arsenic background concentrations were ND (<0.25 mg/kg);
- Barium background concentrations ranged from 39.5 to 92 mg/kg;
- Beryllium background concentrations ranged from 0.125 to 0.363 mg/kg;
- Cadmium background concentrations were ND (<0.25 mg/kg);
- Total chromium background concentrations ranged from 9.44 to 18.6 mg/kg;
- Cobalt background concentrations ranged from 3.74 to 8.49 mg/kg;
- Copper background concentrations ranged from 3.83 to 10.6 mg/kg;
- Lead background concentrations ranged from 3.76 to 6.25 mg/kg;
- Mercury background concentrations ranged from ND (< 0.04175 mg/kg) to 0.119 mg/kg;
- Molybdenum background concentrations were ND (<0.25 mg/kg);
- Nickel background concentrations ranged from 6.49 to 12.1 mg/kg;
- Selenium background concentrations ranged from ND (< 0.375 mg/kg) to 0.912 mg/kg;
- Silver background concentrations were ND (< 0.25 mg/kg);

- Thallium background concentrations were ND (< 0.75 mg/kg);
- Vanadium background concentrations ranged from 15.4 to 34 mg/kg; and
- Zinc background concentrations ranged from 7.44 to 27.3 mg/kg.

7.8.2.4 Discussion of Metal Results

The maximum detected concentrations of arsenic, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, and zinc in the soil samples collected on the subject property exceeded the maximum detected concentration of the same metals in the background samples (Table 4). The average concentrations in the soil samples for these metals were then compared to the background samples (Table 5). The site mean concentrations for lead and zinc were slightly greater than the 95% UCL background concentration, but are significantly below USEPA Region IX PRGs for industrial sites. Because arsenic and molybdenum were not detected in the background samples they are carried forward as being a potential chemical of concern and were also compared to USEPA PRGs. For molybdenum the industrial PRG is 10,000 mg/kg and the maximum detected concentration on the subject property was 0.629 mg/kg, significantly below the level of concern.

For arsenic, the maximum detected concentration was 4.51 mg/kg and the 95% UCL concentration was 1.62 mg/kg. The PRG for industrial sites for arsenic is 2.7 mg/kg using a cancer endpoint and 440 mg/kg for a non-cancer endpoint. Background levels in soil across the continental U.S. typically exceed EPA Region IX carcinogenic PRG values. Background levels of arsenic in soil can have both natural and anthropogenic components. Natural background levels are a function of the specific geologic strata being evaluated. Therefore, to "remediate" beyond natural background levels may not be practical where soil depth exceeds the limits of excavation technology. To dispose properly of excavated natural (but "risky") arsenic impacted soil is inappropriate due to the wide variation of natural arsenic background levels across the U.S. Also, it may not be possible to obtain "clean" fill that has arsenic concentrations lower than regional background.

In a study of background concentrations for metals in California soils, arsenic concentrations were found to range from 0.6 mg/kg to 11.0 mg/kg (Kearney 1995). Even the lower ends of the background ranges of arsenic in soil typically exceed USEPA Region IX "risk-based" level of 2.7 mg/kg for industrial soil assuming a cancer endpoint (USEPA 2001). The highest detected concentration of arsenic at the

subject property does not exceed typical background concentrations for California soils and is most likely naturally occurring.

7.8.2.5 Hexavalent Chromium

A summary of hexavalent chromium concentrations in soil is provided in Table 5. The hexavalent chromium analyses were performed in the worst-case location (Boring SB-3 located next to plating room). A detectable (greater than 40 µg/kg) concentration of hexavalent chromium was reported in soil samples collected at depths of 5, 10, and 13 feet bgs. The maximum reported concentration was 150 µg/kg in the 13-foot bgs soil sample.

Based on the data presented, low concentrations of hexavalent chromium are present in the soil in the vicinity of the plating room. The maximum vertical extent of hexavalent chromium is at approximately 13 feet bgs. The concentration of hexavalent chromium decreased to below laboratory reporting limits below this depth. All hexavalent chromium concentrations are significantly below the industrial PRG of 64,000 µg/kg (USEPA 2001).

7.9 Summary

Based on the results of the limited Phase II subsurface investigation, low concentrations of VOCs and hexavalent chromium are present in the subsurface. The vertical extent of impact is defined to approximately 15 feet bgs. Groundwater was not encountered to a depth of 50 feet bgs, the maximum depth investigated. The reported concentrations of VOCs and hexavalent chromium are below their respective industrial PRGs provided by the USEPA and soil screening criteria provided by the LARWQCB. Thus the detected concentrations are below any current regulatory-based criteria that would warrant additional action, and therefore additional investigation or remediation is not recommended.

8. Recommendations

In conducting the Phase I ESA, ARCADIS G&M identified various areas of potential concerns identified in Section 6.0. The Phase II investigation focused on each of these areas. Based on the results of the Phase II testing (Section 7.0), ARCADIS G&M concludes that there are no reported concentrations of contaminants above current regulatory levels and no further investigation or remediation is warranted.

In addition, due to the presence of ACM in the buildings, any building renovation or demolition should follow applicable asbestos abatement regulations.

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Appendix A

Environmental Professional Qualifications

Reinhard Ruhmke

Senior Project Scientist

Mr. Ruhmke has over 9 years of experience in the environmental field. He has performed and supervised site investigations and cleanups for numerous UST sites. Mr. Ruhmke has performed and analyzed data from numerous aquifer tests and has prepared and implemented remedial action plans for soil and groundwater remediation at UST sites. He is currently the project geologist for a RCRA CMS/CMI project at a former chemical recycling facility which was the first to reach this stage of corrective action within California DTSC Region 4 jurisdiction. Mr. Ruhmke has also managed closure and decommissioning of a chemical processing facility in Southern California.

Education

B.S., Geology, emphasis in Hydrogeology, San Diego State University, 1988

Professional Registrations

Registered Geologist: State of California

Professional Associations

Association of Engineering Geologists

National Groundwater Association

Groundwater Resources Association of Southern California

Investigation/Remediation

Mr. Ruhmke has performed or managed numerous hydrocarbon investigations at a variety of sites involving fuel hydrocarbon and chlorinated hydrocarbon constituents such as gasoline, waste oils, diesel, hydraulic oils, trichloroethylene (TCE), perchloroethylene (PCE), and their respective derivative compounds. Sites have ranged in size from corner gas stations to 5-acre manufacturing facilities. Subsurface investigations have included such intrusive drilling techniques as hollow-stem auger, cone penetrometer testing (CPT), air rotary, mud rotary and air percussion. Additional investigative techniques included Hydropunch and Simulprobe™ soil and groundwater sampling, and soil gas surveys with vapor probes typically at depths of 5 to 15 feet below grade and also deep-nested vapor probes (> 25 feet). Techniques he has employed that were non-intrusive include geophysical surveys by ground penetrating radar. Mr. Ruhmke has also performed numerous aquifer tests in both confined and unconfined aquifers. Based on the data gathered, he has calculated aquifer parameters, capture zones and flow rates.

Remediation programs associated with subsurface contamination implemented or managed by Mr. Ruhmke include in-situ vacuum extraction and bioremediation of soils, ex-situ vapor extraction, ex-situ bioremediation, groundwater pump-and-treatment by carbon adsorption and air stripping, air sparging of groundwater and passive groundwater remediation using the BioPlume II modeling program. Mr. Ruhmke has also performed a soil permeability enhancement program for a UST site in Southern California. These investigation and remediation programs have been conducted in Marin, San Francisco, Contra Costa, Alameda, Monterey, Los Angeles, Orange, Riverside, San Bernardino and San Diego counties under the regulatory supervision of local fire departments, county health care agencies, Cal-EPA and regional water quality control boards.

RCRA Corrective Action

Mr. Ruhmke has been involved in several RCRA Corrective Action programs which have entailed the preparation of a Interim Corrective Measures (ICM) Workplan, a Corrective Measures Study (CMS) and Corrective Measures Implementation (CMI) at a former chlorinated solvent recycling facility, and participation of four partial closures of ongoing mineral spirits processing and recycling facilities.

Activities for these corrective actions have been performed under the regulatory supervision of the California Department of Toxic Substances Control - Region 3 and Region 4. Studies for remediation at the sites have included vacuum extraction pilot tests, soil washing bench tests, soil hydraulic permeability enhancement tests, and aquifer testing and preparation of feasibility studies.

Site Characterization/Assessment/Remediation

Mr. Ruhmke has managed the closure and decommissioning of a chemical manufacturing facility in Southern California. Activities performed at this site included subsurface investigation using soil/gas survey and hollow-stem auger drilling techniques, wipe sampling, feasibility study for soil remediation and closure negotiations with the regulatory agencies and the buyer of the property. In addition, he has managed the assessment and closure of numerous small manufacturing facilities in Northern California.

CERCLA

Mr. Ruhmke has participated in soil and groundwater investigations for existing and potential CERCLA sites. The work included a regional hydrogeologic assessment, groundwater monitoring well installation, deep-nested vapor probe installation and sampling, and report preparation. All work was performed under guidelines prepared by the regional water quality control board - well investigation program (WIP) and was in compliance with the National Contingency Plan (NCP).

Remediation

CMS/CMI

Confidential Client, *Santa Ana*

Currently Mr. Ruhmke is the project geologist, project manager for a CMS/CMI project in Santa Ana for the remediation of a chlorinated solvent chemical recycling plant. The site has highly contaminated soils (up to 11,000 ppm of TCE) and DNAPL and contaminated groundwater in multiple water-bearing zones. The soils generally have low permeability, high moisture content, and are very heterogeneous

throughout the half-acre site. Pilot tests have been performed with mixed results for vapor extraction, permeability enhancement by hydraulic fracturing, and soil washing. A human health risk assessment with remediation goals was also performed. Remedial options were evaluated and a dual phase extraction system was installed.

Subsurface Investigation

Confidential Client, *Irvine*
Developed and implemented technical strategies as part of a non-RCRA plant closure for a chemical manufacturing company in Southern California. Activities performed at this site included subsurface investigation using soil/gas survey and hollow-stem auger drilling techniques, wipe sampling, feasibility study for soil remediation, and closure negotiations with the regulatory agencies and the buyer of the property.

Confidential Client, *Santa Rosa, CA*
Participated in the subsurface investigation and hydrogeologic testing portion for an in-situ soil and ground water bioremediation program located in Santa Rosa, California. The contaminants were gasoline and diesel fuels. The scope of work included defining the extent of contamination, aquifer testing and soil treatability studies. Soil tests performed included biotreatability studies where vacuum extraction test was performed in the laboratory to determine whether VES enhances molecular activity in the soil.

Hydrocarbon Investigation/Remediation

Confidential Client
Investigations of Underground Storage Tanks, California. Completed several underground tank projects, ranging from remediation of gasoline-station fuel spills to programs of investigations and cleanup at facilities with multiple leaking solvent storage tanks. Activities included obtaining permits, drilling exploratory borings, soil logging using ASTM-2488, monitoring well installation, soil and water sampling, vapor-probe sampling installation, regulatory-agency contact, project coordination, and report preparation.

Confidential Client
Obtained closure on petroleum fuel UST sites using active remediation techniques such as vapor extraction and excavation with confirmation sampling while others have been closed by agency negotiation and risk assessment which have allowed from 5,000 ppm to 20,000 ppm of diesel contaminants to remain in place. Obtained 'no further action' letters for groundwater remediation for several sites based on agency negotiation and a thorough review of regional groundwater issues and Groundwater Basin Plans prepared by the regional water quality control board(s).

Confidential Client, *Santa Ana*
Participated in a soil permeability enhancement program for a UST site in Southern California. The purpose of the program was to fracture the clay soil to enhance removal of free-product from

the water-bearing zone and increase air flow through the subsurface.

Confidential Client, *San Leandro*
Supervised the excavation and aboveground bioremediation of approximately 2,500 cubic yards of diesel contaminated soil. In addition to soil excavation, approximately 12,000 gallons of free product were removed from the shallow water-bearing zone using pump and treat technology. The level of diesel contaminant in water was reduced to non-detectable levels over a 3-month period, and levels of diesel in the soil were reduced to below allowable levels for use as fill material in 6 months.

Confidential Client, *Santa Fe Springs*
Managed the excavation and aboveground treatment of approximately 3,000 cubic yards of diesel contaminated soil. The diesel-contaminated soil was incorporated into an on-site soil treatment unit using asphalt incorporation. Through the use of this remedial technology, approximately 1 acre of the facility, previously covered with dirt, was paved, which increased the efficiency of the truck traffic around the facility.

RCRA Corrective Action

Confidential Client, *Southern California*
Performing as a Project Geologist for the investigation of several mineral spirit recycling facilities within the jurisdiction of DTSC Region 3 and Region 4. The investigations are being performed in accordance with the owner's RCRA Part B Permit. Because one of the sites is located within the San Gabriel Valley Superfund site, additional regional hydrogeologic assessment activities were performed. The work included reviewing boring logs of public drinking water wells and preparing region-wide geologic cross-sections.

Site Characterization/ Assessment/Remediation

Confidential Client, *Berkeley*
Served as Project Manager for the closure of a small vending machine manufacturing company in Northern California. During the Phase I investigation of the property, it turned out the site used to be a metal reclamation facility and that significant heavy metal contamination existed in the shallow soil. Supervised excavation and disposal of the soil during demolition of the site structures and assisted in the negotiations for closure and ultimate sale of the property.

Confidential Client, *Texas*
Participated in an extensive (50 acres) soil/gas survey for an Air Force Base in Texas where air samples were collected in a 100-foot grid pattern. The survey was performed as part of a program to determine the extent of chlorinated solvents in the soil and ground water.

CERCLA

Confidential Client, *Highland*
Performed field activities associated with a PRP in the San Gabriel Valley Superfund Site. Field work included: Groundwater monitoring well installation, Deep-nested vapor probe installation and sampling. All work was performed under WIP guidelines and was required to be in compliance with the NCP. In addition, Mr. Ruhmke was task manager for a subsurface investigation in the immediate vicinity of Norton AFB, a CERCLA site, where all work was required to be in compliance with NCP.

ARCADIS GERAGHTY&MILLER

Kenneth W. P. Thomas, REA

Project Director

Mr. Thomas has over 18 years experience in environmental geology, hydrogeology and construction related projects, including management of assessment, construction and remediation projects. He has extensive experience in characterizing and remediating soil and groundwater contaminated sites, with particular emphasis on sites contaminated with petroleum and chlorinated hydrocarbons. In addition, he is well versed in underground storage tank compliance and closure requirements throughout California and Arizona Mr. Thomas has also provided expert testimony, technical review, and deposition preparation on over 12 separate environmental litigation cases.

Representative Project Experience

Construction Management, FAA UST Upgrade, and Soil Remediation

Won a $600K multi-site UST upgrade project for the FAA in southern California. The work consisted of management and oversight of construction personnel to upgrade UST's for emergency generator's at several FAA remote radar systems. All installation work and fuel transfers had to be done within strict timeframes and with absolute minimal downtime. Work included removal of contaminated soils and required working in strict security and environmentally sensitive ecological zones.

Groundwater Barrier Project, Major Oil Refinery

Port of Los Angeles

Awarded an $800K groundwater barrier LNAPL collection project to prevent the migration of LNAPL from a fuel bulk terminal into the harbor. The project consisted of the supervision of shoring installation, soil removal, and bentonite grout emplacement. Work also included the preparation of a detailed hydrogeologic model and installation of a unique LNAPL collection system that would account for tidal influences.

MTBE Remediation, Bulk Fueling Terminal

Using a hi-vacuum pump extraction system in a shallow groundwater environment, Mr. Thomas oversaw the extraction of an estimated 800 gallons of MTBE that leaked from above ground tanks into the groundwater. Initial concentrations ranged from 8-million ppb before extraction down to 500, 000 ppb after.

Site Assessments & Subsurface Characterization

Managed or participated in over 500 site assessments in Southern California, Arizona, and Nevada. These sites have included national retail gasoline stations, refineries, ship fueling and bulk storage facilities, agricultural operations, airport terminals, and industrial operations. Responsibilities

Education

B.S., California State University, Long Beach; 1979

M.S., California State University, Los Angeles; 1982 (Coursework completed)

Professional Registrations

Registered Environmental Assessor No.01052

OSHA 40 hour Hazardous Materials Training

Professional Associations

Professional Environmental Marketers Association

National Groundwater Association

Association of Hazardous Materials Professionals

included direct oversight of all technical, operational, and managerial aspects of the projects as well as acting on the client's behalf during interactions and technical negotiations with various regulatory agencies.

Former Commercial Sanitary Landfill

Carson, California

Manager during the site characterization and remedial design phase of this project. The site was part of a larger parcel of land that was being renovated into a multi-unit development. During construction, a methane abatement and remediation system was installed using thermal destruction technology. The design of the system was engineered to work around constructed buildings to minimize any impacts and aesthetically blend into the surrounding structures. The total design and installation cost for the project was $300,000.

Removal of Phase-separated Chlorinated Organics & Groundwater Treatment, Circuit Board Manufacturer

San Fernando Valley, California

Using two 1000 cfm airstripping towers and a regenerative carbon system, Mr. Thomas oversaw the remediation of a large phased separated chlorinated spill. This site is located in one of the active Superfund Designated Areas, and involved negotiating all phases of work with the CRWQCB and the EPA. Project costs were in excess of one million dollars with a design and installation cost of $500,000.

Former Commercial Sanitary Landfill

San Diego, California

Project Director on this project that involved the supervision of a methane abatement project. The project involved the installation of a positive pressure vapor abatement and barrier system. A barrier system made of a 10-ml thick "hytrel" liner was installed underneath each structure. Around the perimeter of each structure, a series of perforated PVC piping was installed and connected to two regenerative blowers, which forced air around the footing of the structures to prevent vapors from accumulating. The facility was designed with green belt areas to allow landfill vapors to naturally discharge into the atmosphere.

Methane Gas Recovery at a Small Abandoned Municipal Landfill

Escondido, California

Oversaw the installation of a methane abatement and recovery system at a small landfill that was being developed into an Auto Dealership. The system included the installation of vapor recovery wells around the perimeter of constructed buildings and a flare unit to burn off accumulated methane. Barrier

systems were also installed underneath each building to prevent the accumulation of methane. All work had to be performed during construction of the Dealership.

Expedited Remediation and Emergency Response for a large Transportation Pipeline Company

Long Beach, California

Acting as site response team leader provided oversight on emergency response activities and supervised the removal of 150,000 gallons of gasoline during a pipeline leak for a major pipeline transportation company. The emergency response work cost over $200,000, with the total project cost reaching $1 million. The project included performing a fast tract vapor survey, an emergency response product removal program, and design and the installation of a vapor extraction system using thermal oxidation.

Use of a Risk Assessment to Establish Risk Based Cleanup levels at a Pharmaceutical Company

Irvine, California

Project manager of this groundwater pump and treat project. The remediation system, which included airstripping and product removal, had removed 90% of the contaminant, but was at the point of diminishing return. A risk assessment was performed using the risk model "Sesoils" along with the dispersion model, AT123. The model showed that due to attenuation and soil/water conditions, higher than approved concentrations could be left in place. This was the first Risk Based Cleanup program to establish cleanup levels approved in Orange County using this approach.

Heavy Metal and PCB Removal at a Large Scrap Metal Recycling Facility

Los Angeles, California

As senior technical advisor provided oversight and technical review of the assessment and removal of soil contaminated with polychlorinated biphenyl's (PCBs), heavy metals, and petroleum hydrocarbons at this large scrap metal facility. To minimize soil removal a risk based environmental assessment was used to establish cleanup levels for the site based on future usage of the site. The success of the project was due to successful negotiation with both local and EPA regulators as no approved cleanup levels existed at that time. All work had to be done during evening hours to minimize impact to the neighborhood. Work was done under level C containment requirements with PCB work performed under level B. The total project cost exceeded $800,000.

Environmental Audit at an Electrical Power Plant

Phoenix, Arizona

Provided technical review of a facility compliance audit at an electrical power facility at an Arizona Public Electrical Utility (Branson). The audit consisted of the review of all facility permits, solid waste management units (SWMUs), as well as underground tank fuel systems. Project costs were in excess of $150,000.

Property Transaction Involving the Survey and Environmental Audit of 350 Service Stations in Southern California

Project director for this project which involved the implementation of a large-scale service station environmental audit and screening program for a California-based oil company in Orange County, California. The project involved reviewing existing permits, environmental records, and site visits at 350 UST sites. The project was part of a large divestiture of property. Mr. Thomas had to coordinate the activities of 20 professionals working out of three office locations to meet the project timeframe for completion. All field work along with estimates of cleanup cost had to be completed within three months of contract award.

Part B Closure Plan Preparation and Permitting for Unocal Refinery

Wilmington , California

Manager and senior technical advisor in the preparation of a Part B facility permitting and pond closure plan at the refinery. Follow-up work involved the assessment and construction management of the pond closure program.

Underground Tank Upgrade and Monitoring Program for Circle K Stores

Southern California Area

Working as a contractor, Mr. Thomas was involved in the implementation and installation of hazardous materials monitoring systems within Los Angeles, Orange, and San Diego Counties, for this large convenience store and automotive fuel supplier. Work included the preparation of individual site monitoring plans, the submittal of these plans to various oversight agencies, negotiations for approval, and installation supervision. In all, 86 sites were upgraded under this contract.

Chevron Marine Terminal

San Pedro, California

Project manager during the installation of a large scale product pump and treat system at the Marine Terminal to mitigate migration of phased separated product into the harbor. The system consisted of three separate pumping systems installed at different locations within the facility to control the migration of phased separated hydrocarbons. The project was hydrologically complex because of the tidal effects on the facility. Permitting of the system involved negotiating with the CRWQCB, the Port of Los Angeles, the California Coastal Commission, and LACDWP.

Appendix B

Historical Aerial Photographs

The EDR-Aerial Photography Print Service

3171 South Bundy Drive
3171 South Bundy Drive
Los Angeles, CA 90066

April 20, 2001

Inquiry Number: 620973-6

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
Aerial Photography Print Service

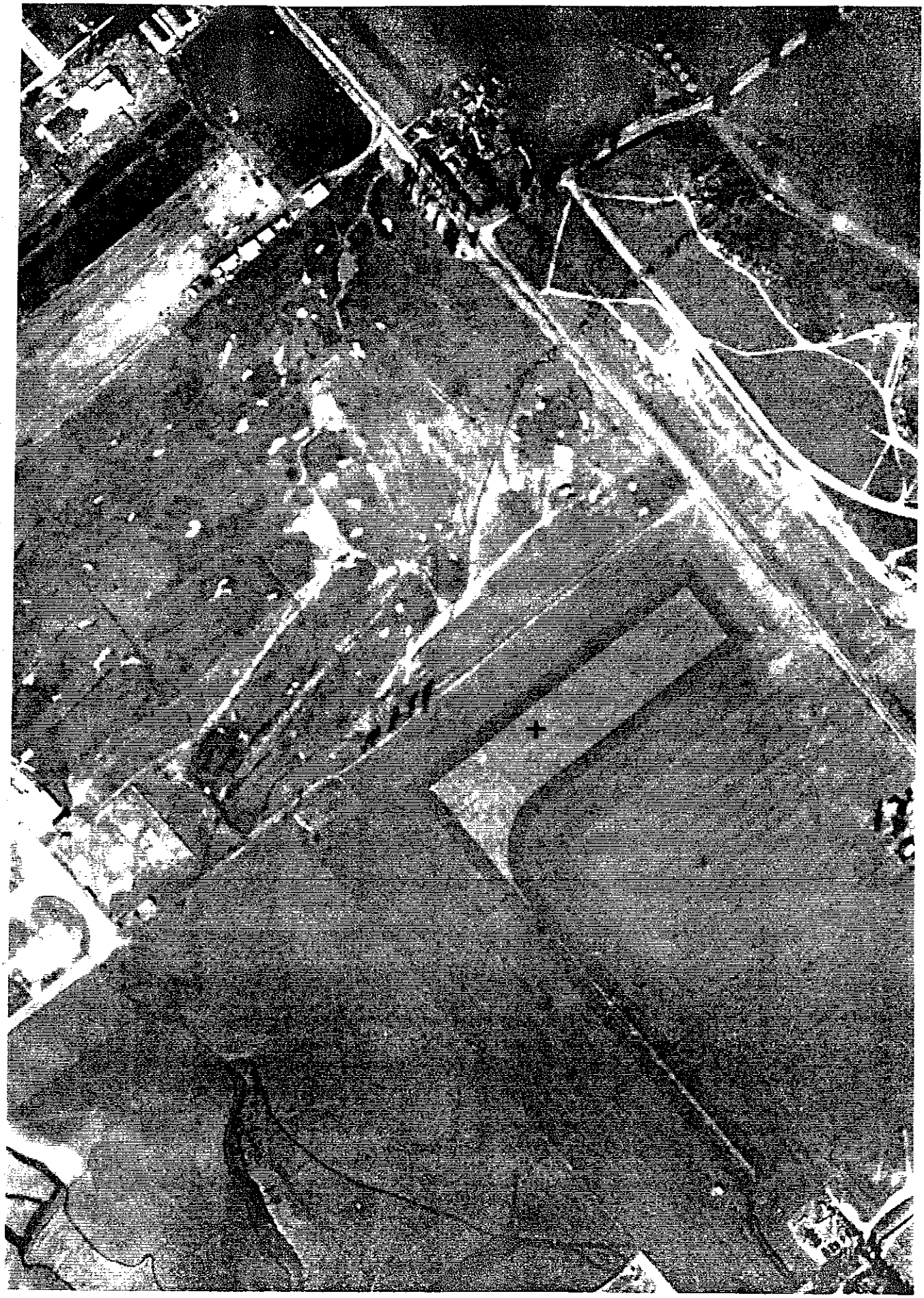
Environmental Data Resources, Inc.'s (EDR) Aerial Photography Print Service is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.2, page 11.

Aerial Photographs

Aerial photographs are a valuable historical resource for documenting past land use and can be particularly helpful when other historical sources (such as city directories or fire insurance maps) are not reasonably ascertainable. The EDR Aerial Photograph Print Service includes a search of aerial photograph collections flown by public and private agencies for the state of California. EDR's professional field-based researchers provide digitally reproduced historical aerial photographs at approximately ten year intervals.

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8a.m-8pm EST)
with questions or comments about your report.
Thank you for your business!



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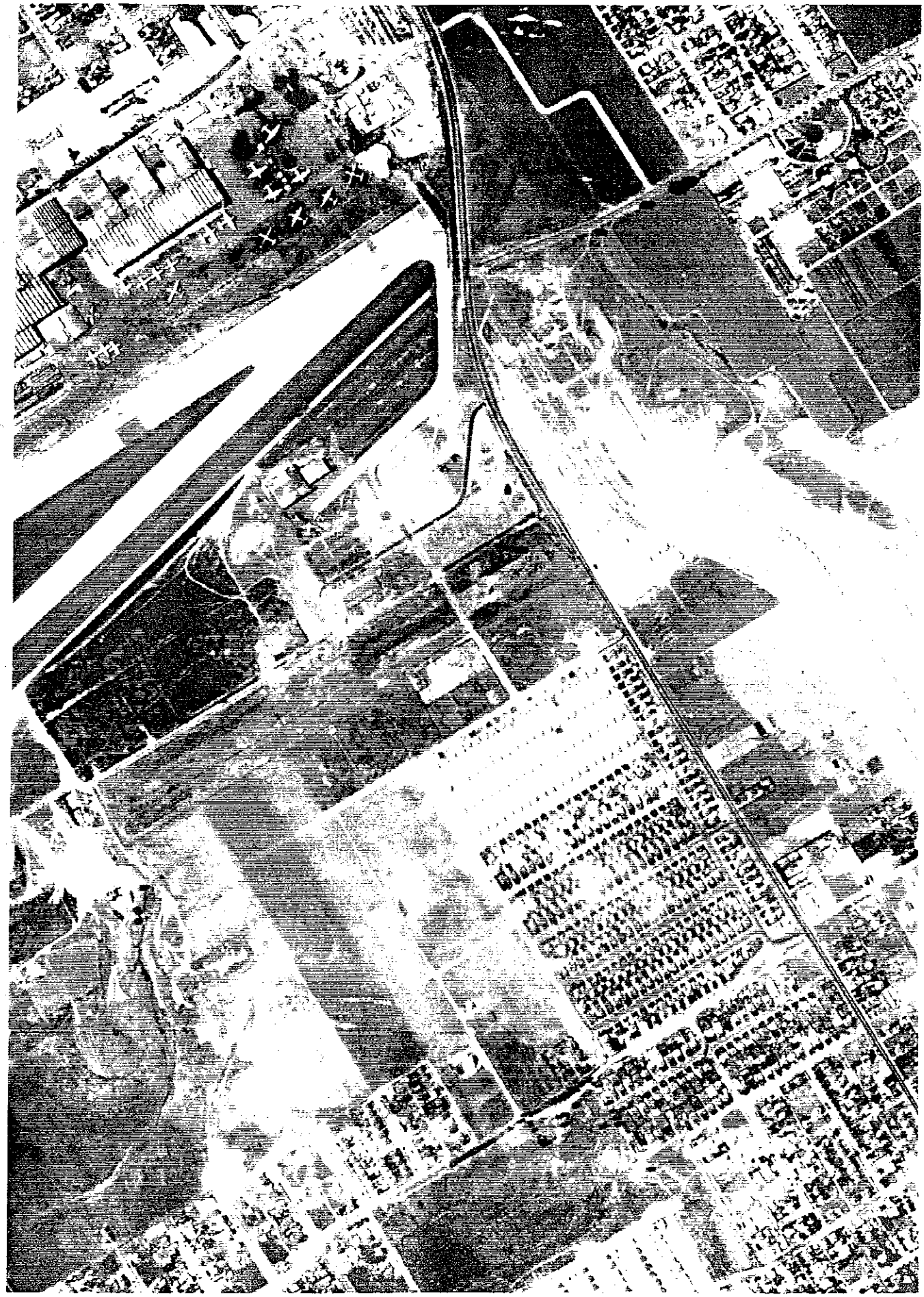

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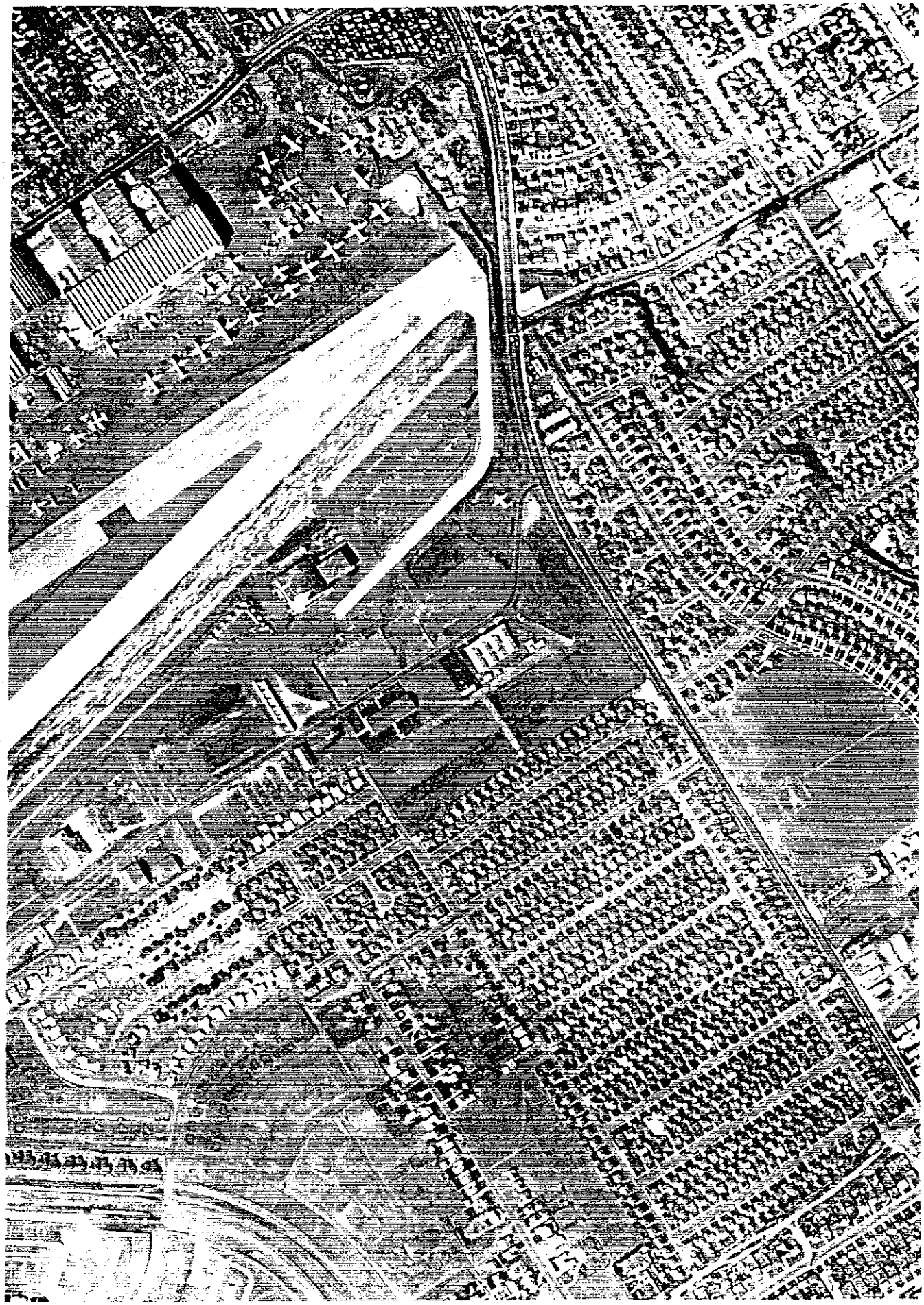
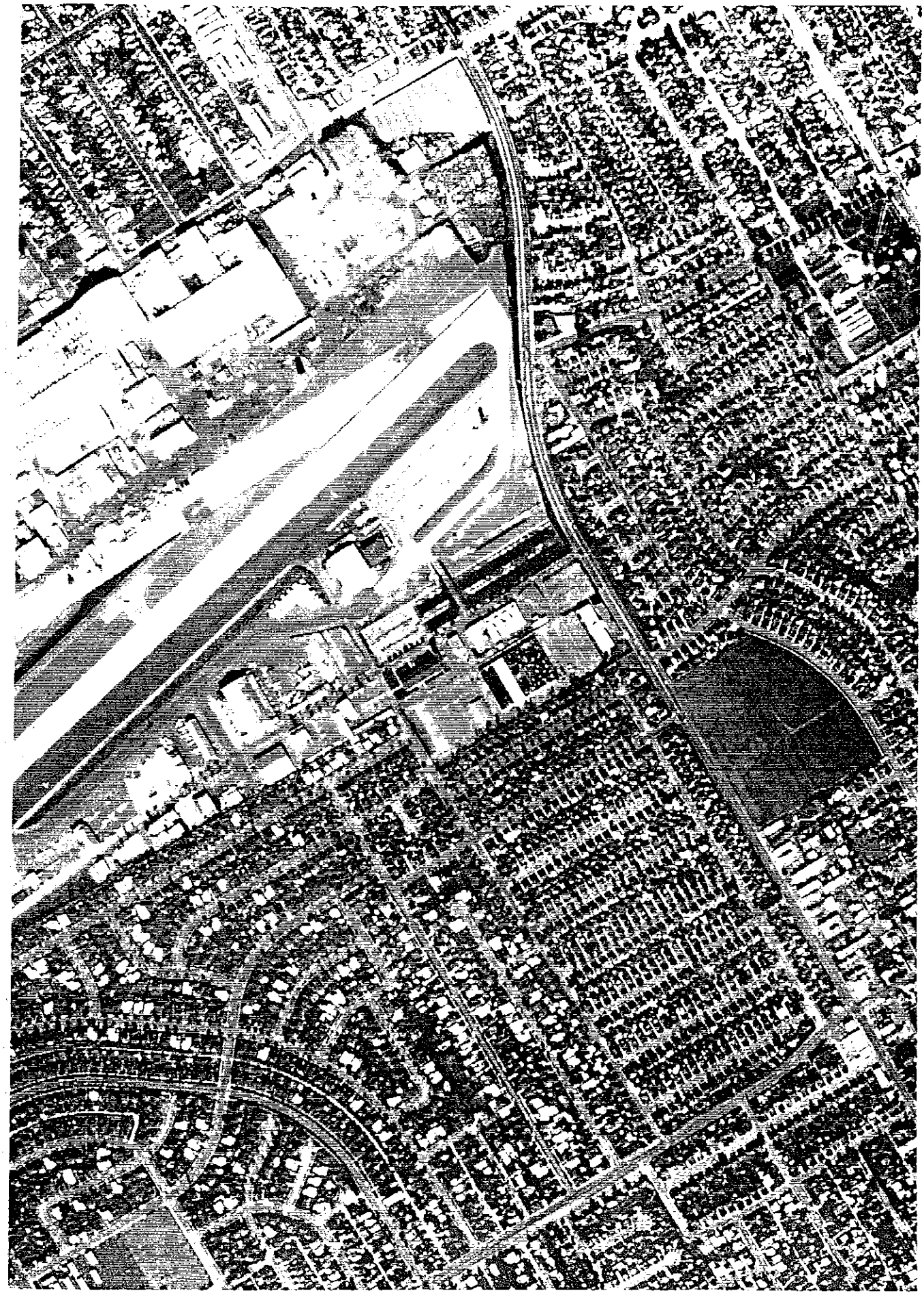


1952



1965

1976

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1994

Appendix C

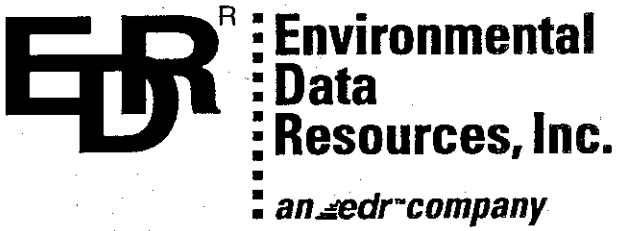
Historical Topographic Maps

The EDR-Historical Topographic Map Report

3171 South Bundy Drive
3171 South Bundy Drive
Los Angeles, CA 90066

April 20, 2001

Inquiry Number: 620973-5



The Source
For Environmental
Risk Management
Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

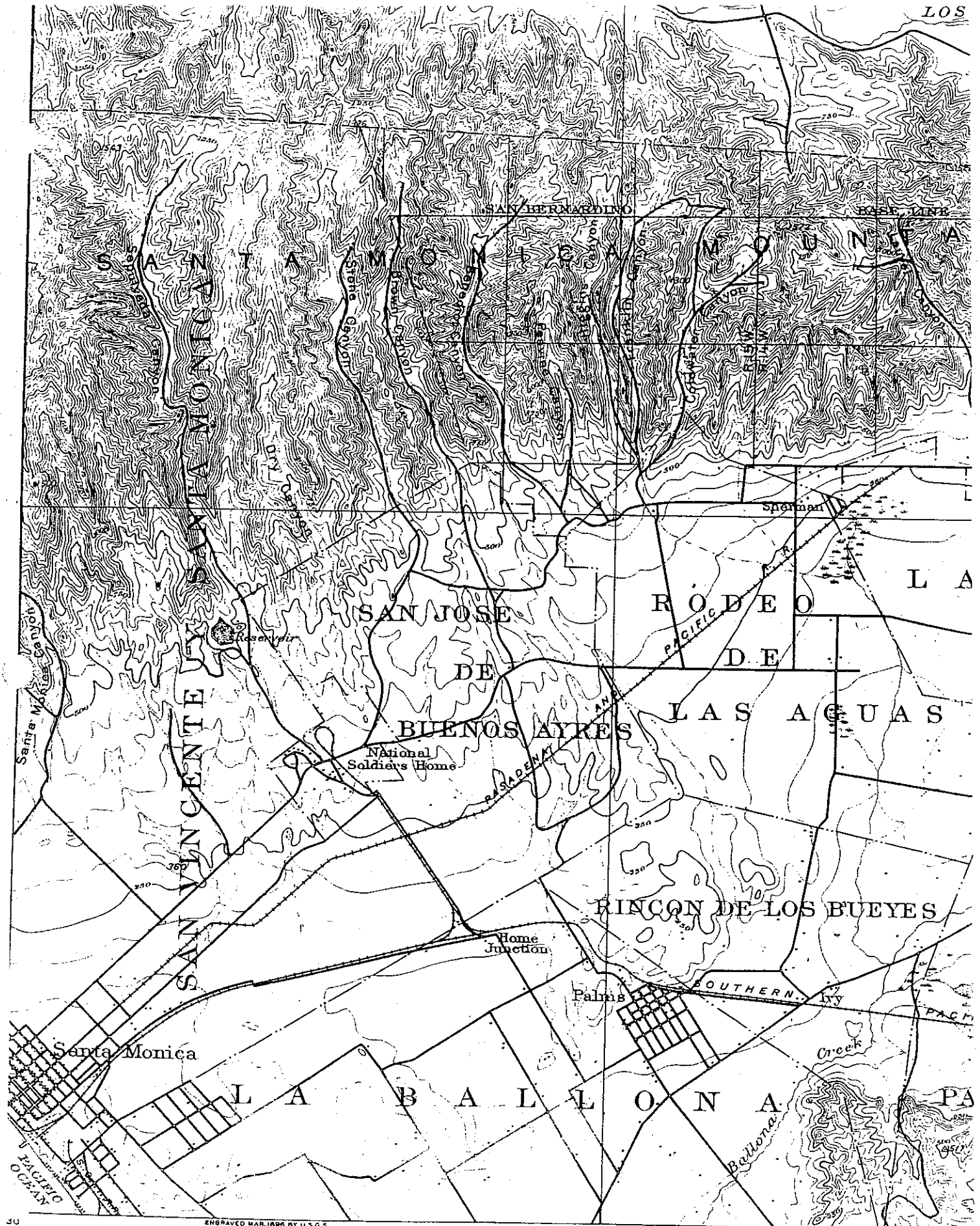
To meet the prior use requirements of ASTM E 1527-00, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.2 page 11.)

EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

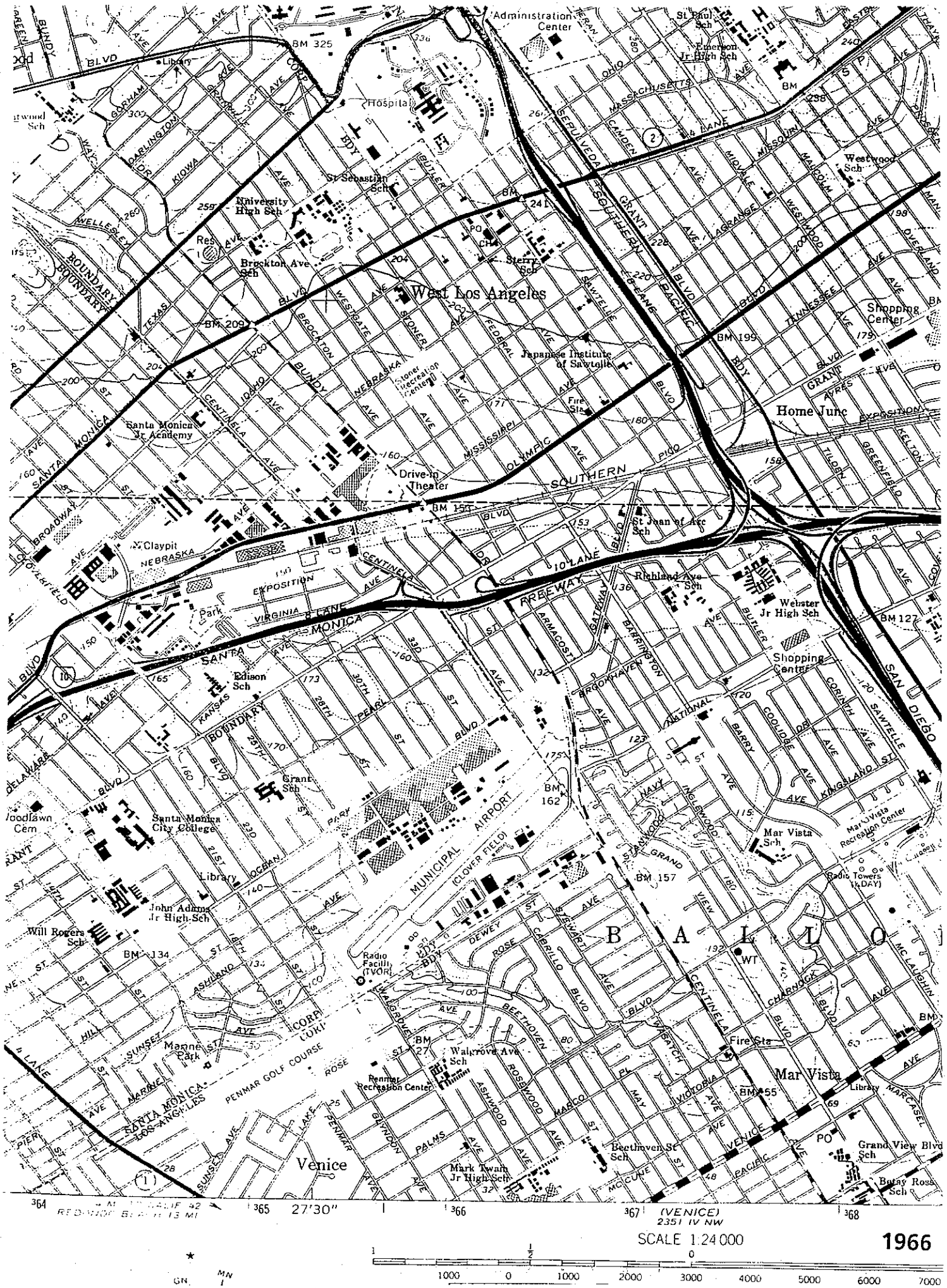
Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.



A.H. Thompson, Geographer.
A.P. Davis, Topographer in charge.
Triangulation by A.P. Davis.
Topography by W.S. Post.
Surveyed in 1893.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Webster Jr High Sch
Richland Ave Sch
Mar Vista Sch
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Beethoven St Sch
Grand View Blvd Sch
Barry Ross Sch
John Adams Jr High Sch
Will Rogers Sch
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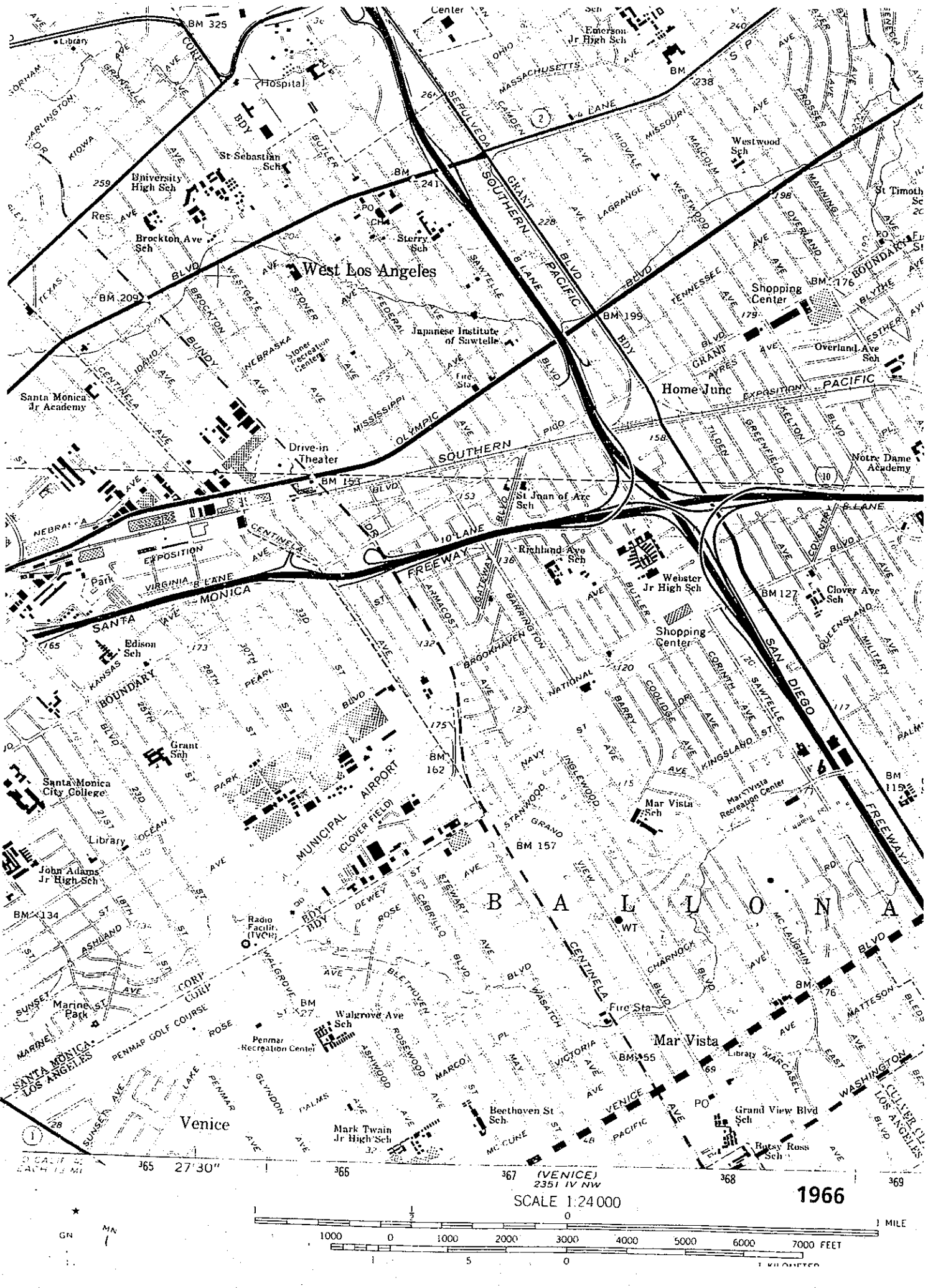
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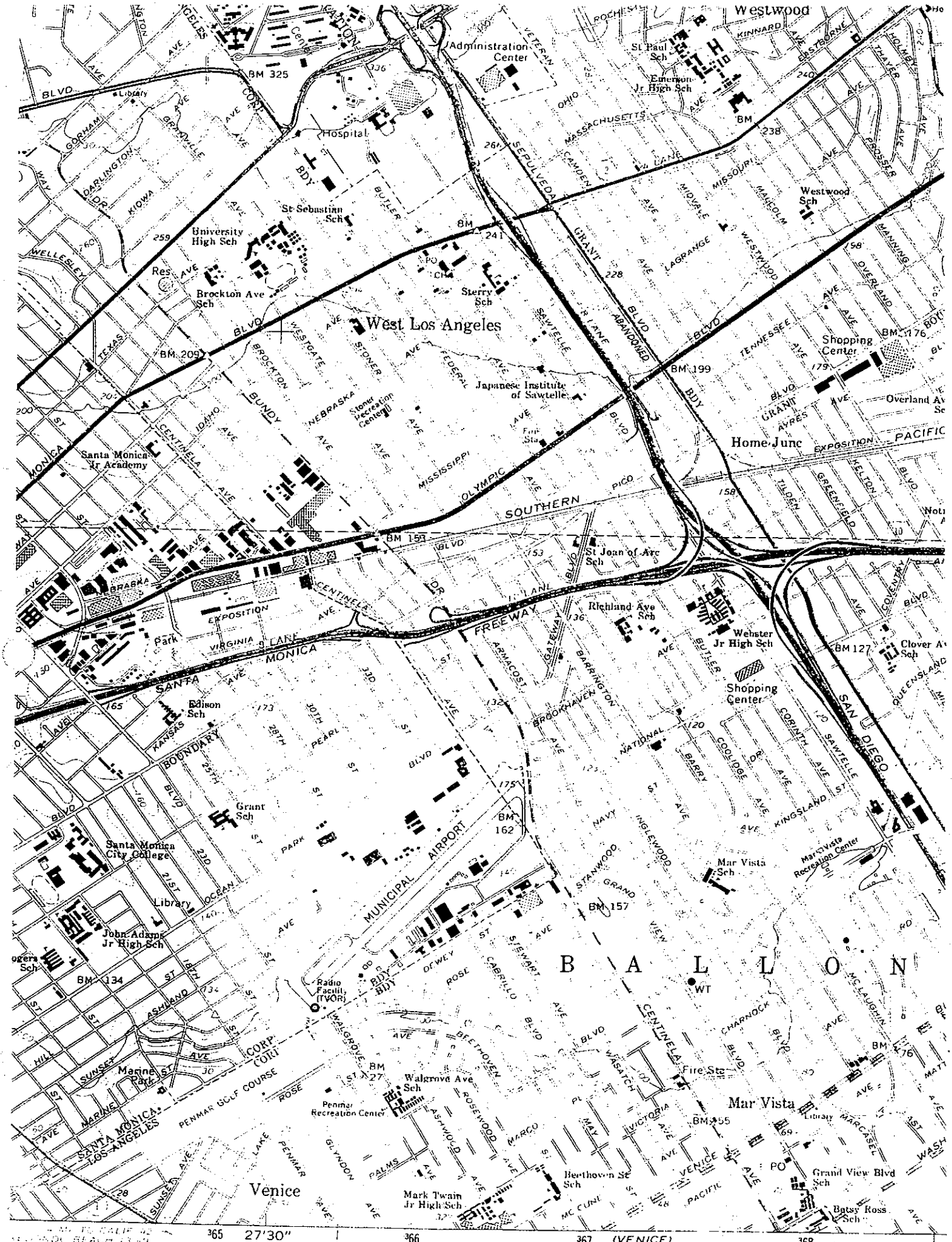
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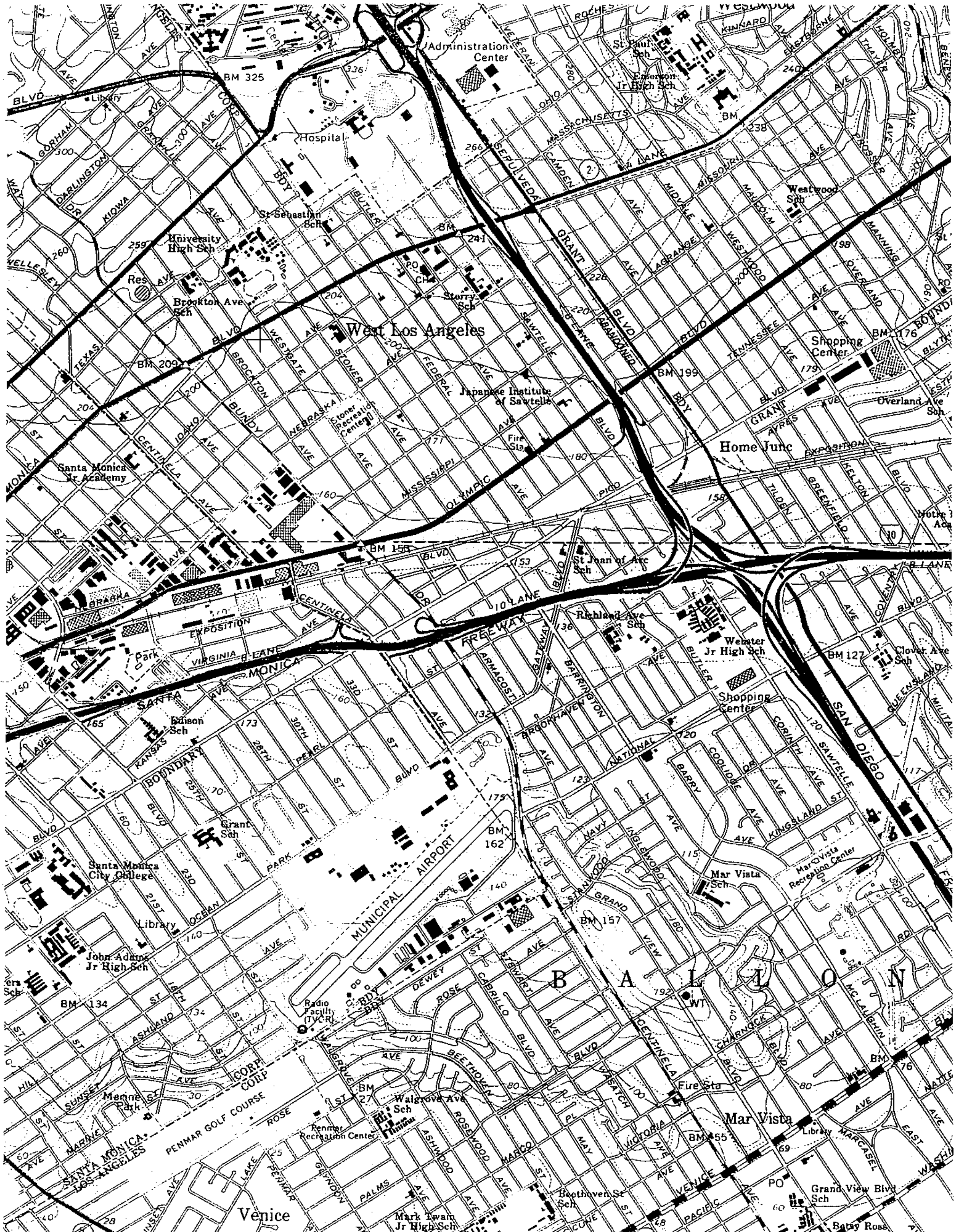
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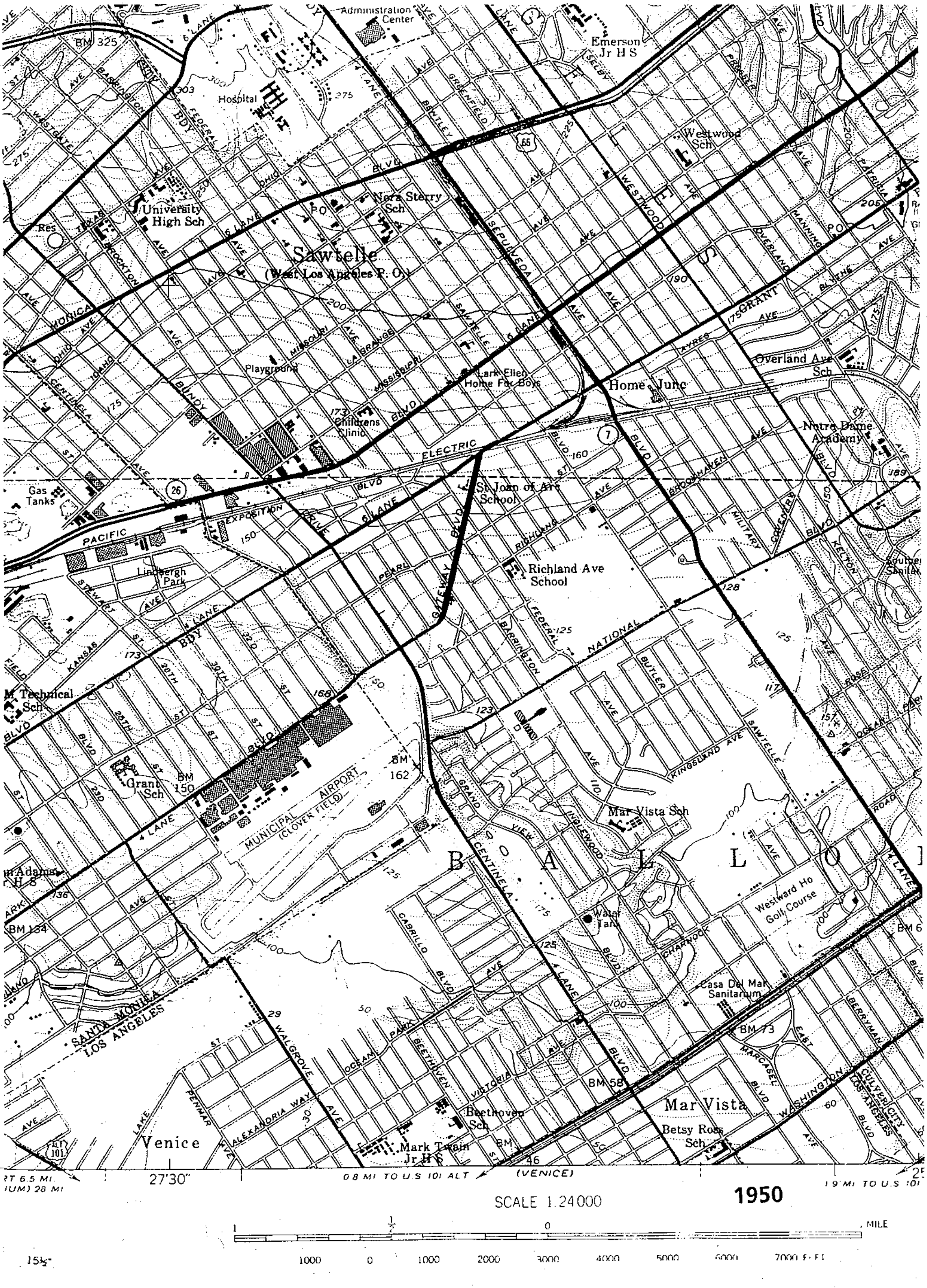
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Appendix D

Environmental Database Search Report

The EDR Radius Map
with GeoCheck®

3171 South Bundy Drive
3171 South Bundy Drive
Los Angeles, CA 90066

Inquiry Number: 1620973.3p

April 18, 2001

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-KEN

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

3171 SOUTH BUNDY DRIVE
LOS ANGELES, CA 90066

COORDINATES

Latitude (North):	34.015600 - 34° 0' 56.2"
Longitude (West):	118.445100 - 118° 26' 42.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	366564.2
UTM Y (Meters):	3764632.8

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2434118-A4 BEVERLY HILLS, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LEAR ASTRONICS CORP. 3171 S. BUNDY DR. LOS ANGELES, CA 90066	FINDS	CAD008285736

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS ..... Corrective Action Report
RCRIS-TSD ..... Resource Conservation and Recovery Information System
RCRIS-LQG ..... Resource Conservation and Recovery Information System
ERNS ..... Emergency Response Notification System

STATE ASTM STANDARD

AWP ..... Annual Workplan Sites

EXECUTIVE SUMMARY

Notify 65..... Proposition 65 Records
Toxic Pits..... Toxic Pits Cleanup Act Sites
SWF/LF..... Solid Waste Information System
WMUDS/SWAT..... Waste Management Unit Database
CA BOND EXP. PLAN..... Bond Expenditure Plan

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
CA WDS..... Waste Discharge System
SWF/LF..... Solid Waste Information System
CA SLIC..... Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
LOS ANGELES CO. HMS..... Street Number List
LA Co. Site Mitigation..... Site Mitigation List
AOCONCERN..... San Gabriel Valley Areas of Concern

EDR PROPRIETARY DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2000 has revealed that there are 2 CERC-NFRAP sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HUGHES AIRCRAFT	3100-3200 AIRPORT AVENU	1/8 - 1/4	WSW	7	14
PAC AERO ENGINEERING	***3021 AIRPORT AVE***	***1/8 - 1/4***	***WSW***	***C11***	***16***

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 4 RCRIS-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
B A E SYSTEMS AIRCRAFT CONTROL	***3400 AIRPORT AVE***	***0 - 1/8***	***N***	***A3***	***7***
SANTA MONICA PROPELLER	***3025 AIRPORT AVE***	***1/8 - 1/4***	***WSW***	***C9***	***15***
L A STORY INC	***3000 ARRPORT AVE BLDG 2***	***1/8 - 1/4***	***WSW***	***C13***	***17***
CREATIVE GRAPHIC SERVICES	***12693 ROSE AVENUE***	***1/8 - 1/4***	***SSW***	***15***	***19***

STATE ASTM STANDARD

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there is 1 Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PAC AERO ENGINEERING	***3021 AIRPORT AVE***	***1/8 - 1/4***	***WSW***	***C11***	***16***

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/1994 has revealed that there are 4 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	EB SANTA MONICA FY X BU	1/2 - 1	NNW	23	28

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	3205 PICO BLVD.	1/2 - 1 NW	24	29
Not reported	E/B I-10 342' E/CENTINE	1/2 - 1 NNW	25	29
Not reported	2627 CLOVERVIEW BLVD.	1/2 - 1 W	26	29

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 6 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AIRPORT RESIDUAL	***3000 AIRPORT AVE***	***1/8 - 1/4 WSW***	***C14***	***18***
TEXACO #0103	3010 S BUNDY DR	1/4 - 1/2 N	D17	21
SANTA MONICA MUNICIPAL AI	***3223 DONALD DOUGLAS LOO***	***1/4 - 1/2 WNW***	***19***	***23***
SHELL OIL CO	***3500 CENTINELA***	***1/4 - 1/2 SE***	***20***	***24***
CALIFORNIA AVIATION	***2501 AIRPORT AVE***	***1/2 - 1 WSW***	***21***	***26***
SANTA MONICA FIRE DEPT.	***2450 ASHLAND AVE***	***1/2 - 1 W***	***22***	***27***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/10/2001 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AIRPORT RESIDUAL	***3000 AIRPORT AVE***	***1/8 - 1/4 WSW***	***C14***	***18***
TEXACO #0103	3010 BUNDY DR S	1/4 - 1/2 N	D16	20
TEXACO SVC STA	***3010 BUNDY***	***1/4 - 1/2 N***	***D18***	***21***
SANTA MONICA MUNICIPAL AI	***3223 DONALD DOUGLAS LOO***	***1/4 - 1/2 WNW***	***19***	***23***
SHELL OIL CO	***3500 CENTINELA***	***1/4 - 1/2 SE***	***20***	***24***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UCO AIR	3232 AIRPORT AVE	0 - 1/8 W	B4	7
SANTA MONICA MUNICIPAL AIRPORT	3200 AIRPORT AVE	0 - 1/8 W	B6	13

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AIR TRAFFIC CONTROL TOWER	3200 AIRPORT AVE	0 - 1/8 W	B5	13

STATE OR LOCAL ASTM SUPPLEMENTAL

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

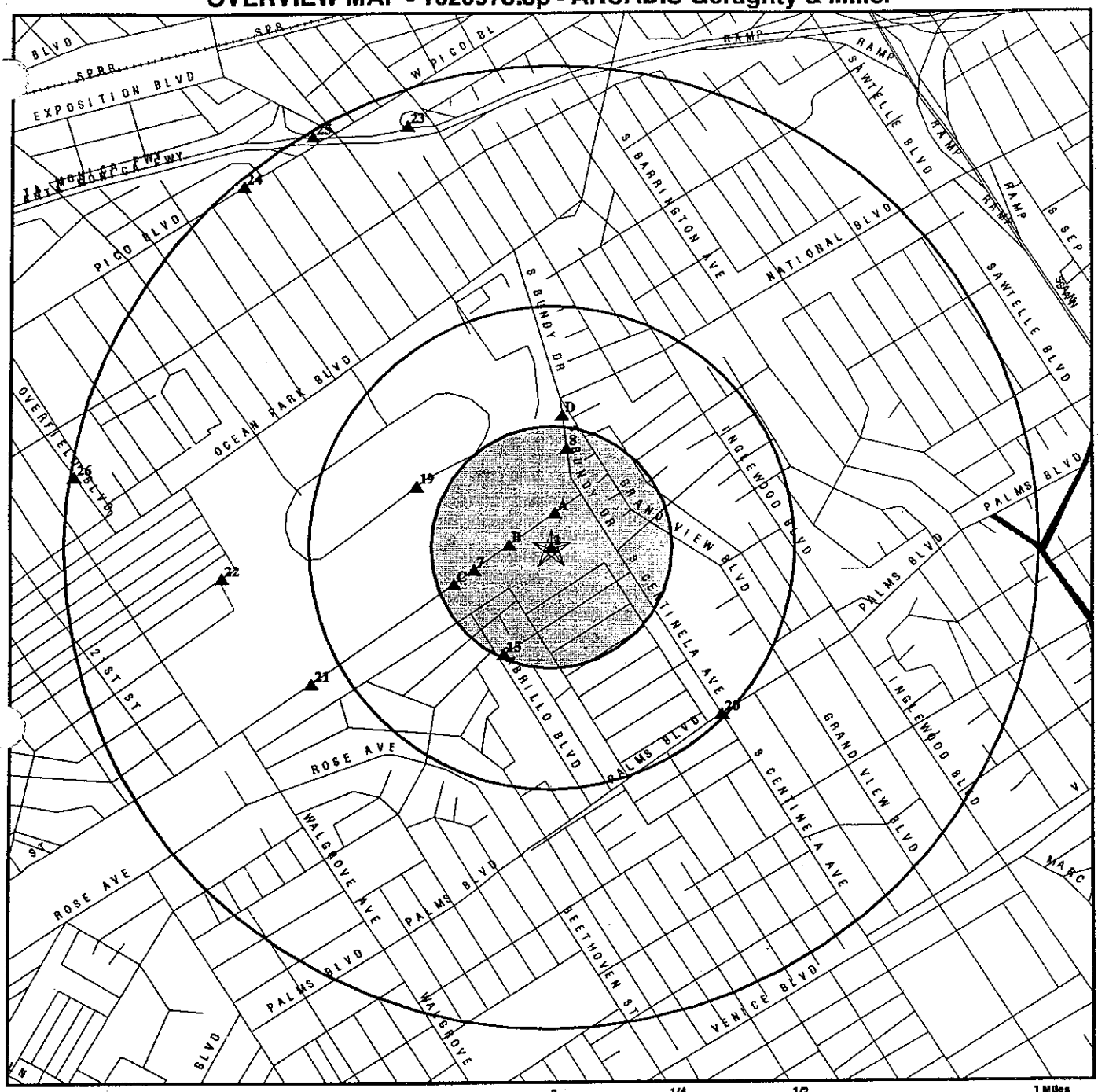
A review of the HAZNET list, as provided by EDR, has revealed that there are 6 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BAE SYSTEMS	3400 AIRPORT AVENUE	0 - 1/8 N	A2	6
KELSEY NATIONAL CORP	3030 S BUNDY DR	1/8 - 1/4 N	8	15
SANTA MONICA PROPELLER	***3025 AIRPORT AVE***	***1/8 - 1/4 WSW***	***C9***	***15***
SANTA MONICA AIR CENTER	3021 AIRPORT AVE	1/8 - 1/4 WSW	C10	16
CITY SANTA MONICA RESOURCE MGT	3013 AIRPORT AVE	1/8 - 1/4 WSW	C12	17
CREATIVE GRAPHIC SERVICES	***12693 ROSE AVENUE***	***1/8 - 1/4 SSW***	***15***	***19***

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
LEMCO, INC	CERCLIS, FINDS
CITY OF LOS ANGELES	HAZNET
AZ PHOTO	HAZNET
UNOCAL SO CAL. DIV. PIPE LINE	HAZNET
MOBIL OIL SERVICE STATION #99 LNG	HAZNET
1X THE PARK AND RIDE LOT	HAZNET
PARROT PAINTING COMPANY	HAZNET
SUSAN CUMMINGS	HAZNET
LOS ANGELES FINE ARTS	HAZNET

OVERVIEW MAP - 1620973.3p - ARCADIS Geraghty & Miller



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

♟ Coal Gasification Sites (if requested)

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

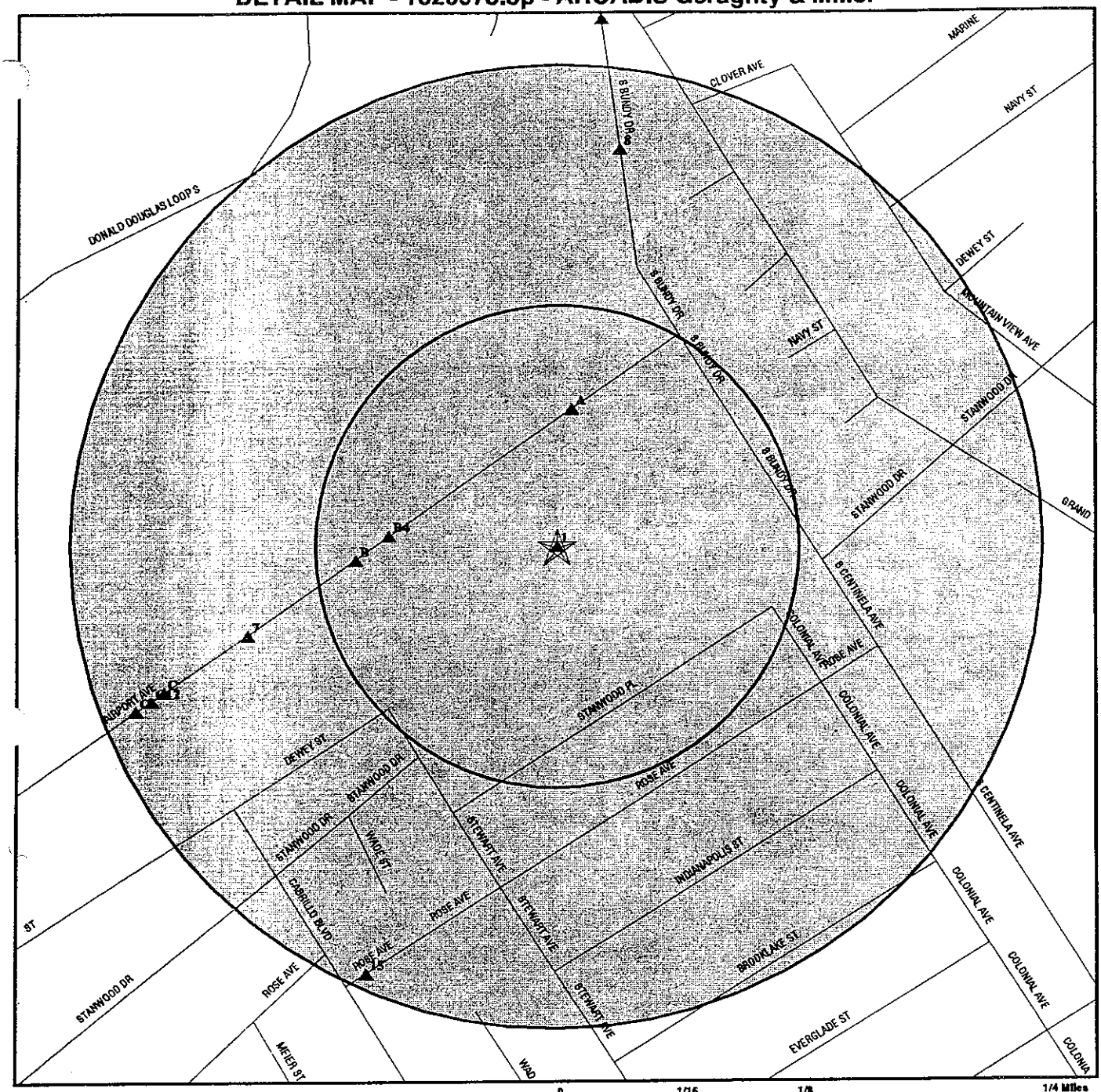
100-year flood zone

500-year flood zone

Areas of Concern

TARGET PROPERTY:	3171 South Bundy Drive	CUSTOMER:	ARCADIS Geraghty & Miller
ADDRESS:	3171 South Bundy Drive	CONTACT:	Reinhard Ruhmke
CITY/STATE/ZIP:	Los Angeles CA 90066	INQUIRY #:	1620973.3p
LAT/LONG:	34.0156 / 118.4451	DATE:	April 18, 2001 9:11 am

DETAIL MAP - 1620973.3p - ARCADIS Geraghty & Miller



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	3171 South Bundy Drive	CUSTOMER:	ARCADIS Geraghty & Miller
ADDRESS:	3171 South Bundy Drive	CONTACT:	Reinhard Ruhmke
CITY/STATE/ZIP:	Los Angeles CA 90066	INQUIRY #:	1620973.3p
LAT/LONG:	34.0156 / 118.4451	DATE:	April 18, 2001 9:11 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	2	NR	NR	NR	2
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	3	NR	NR	NR	4
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	1	0	0	NR	1
CHMIRS		1.000	0	0	0	4	NR	4
Cortese		1.000	0	1	3	2	NR	6
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	4	NR	NR	5
UST		0.250	2	0	NR	NR	NR	2
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
CA FID UST		0.250	1	0	NR	NR	NR	1
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
CA LA LF		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA SLIC		0.500	0	0	0	NR	NR	0
HAZNET		0.250	1	5	NR	NR	NR	6
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
AOCONCERN		1.000	0	0	0	0	NR	0
EDR PROPRIETARY DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1
Target
Property

LEAR ASTRONICS CORP.
3171 S. BUNDY DR.
LOS ANGELES, CA 90066

FINDS **1002850292**
CAD008285736

A2
North
< 1/8
378
Higher

BAE SYSTEMS
3400 AIRPORT AVENUE
SANTA MONICA, CA 90405

HAZNET **S104573807**
N/A

Site 1 of 2 in cluster A

HAZNET:

Gepaid:	CAD008285736	Tepaid:	CAD003963592
Contact:	BAE SYSTEMS	Telephone:	(847) 779-1900
Gen County:	Los Angeles	Tsd County:	Santa Clara
Tons:	0.7		
Category:	Other inorganic solid waste		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 442		
	SANTA MONICA, CA 90406 - 0442		
County	Not reported		

Gepaid:	CAD008285736	Tepaid:	CAD008302903
Contact:	BAE SYSTEMS	Telephone:	(847) 779-1900
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.6479		
Category:	Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 442		
	SANTA MONICA, CA 90406 - 0442		
County	Not reported		

Gepaid:	CAD008285736	Tepaid:	CAD008302903
Contact:	BAE SYSTEMS	Telephone:	(847) 779-1900
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.5228		
Category:	Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 442		
	SANTA MONICA, CA 90406 - 0442		
County	Not reported		

Gepaid:	CAD008285736	Tepaid:	CAD008302903
Contact:	BAE SYSTEMS	Telephone:	(847) 779-1900
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2293		
Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 442		
	SANTA MONICA, CA 90406 - 0442		
County	Not reported		

BAE SYSTEMS (Continued) **S104573807**

Gepaid: CAD008285736
Contact: BAE SYSTEMS
Gen County: Los Angeles
Tons: 0.9174
Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Mailing Address: PO BOX 442
SANTA MONICA, CA 90406 - 0442
County Not reported
Tepaid: CAD008302903
Telephone: (847) 779-1900
Tsd County: Los Angeles

The CA HAZNET database contains 92 additional records for this site.
Please contact your EDR Account Executive for more information.

A3 **B A E SYSTEMS AIRCRAFT CONTROLS** **RCRIS-SQG 1000351815**
North **3400 AIRPORT AVE** **FINDS CAD008285736**
< 1/8 **SANTA MONICA, CA 90405**
378
Higher **Site 2 of 2 in cluster A**

RCRIS:
Owner: B A E SYSTEMS N AMERICA
(301) 838-6000
Contact: Not reported
Record Date: 02/24/2000
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS Facility System (AIRS/AFS)

B4 **UCO AIR** **UST U001568117**
West **3232 AIRPORT AVE** **N/A**
< 1/8 **SANTA MONICA, CA 91402**
462
Higher **Site 1 of 3 in cluster B**

State UST:
Facility ID: 3513
Tank Num: 1
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2
Container Num: 1
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 608-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID: 3513
Tank Num: 2
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2

Container Num: 2
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 698-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

Facility ID: 3513
Tank Num: 3
Tank Capacity: 12000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2

Container Num: 3
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 698-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

Facility ID: 3513
Tank Num: 4
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2

Container Num: 1
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 698-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

Facility ID: 3513
Tank Num: 5
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2

Container Num: 2
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 698-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

Facility ID: 3513
Tank Num: 6
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: Not Reported
Leak Detection: Visual, Stock Inventor, Pressure Test
Contact Name: SANDRA WALKS
Total Tanks: 30
Facility Type: 2

Container Num: 3
Year Installed: Not reported
Tank Constrctn: Not reported
Telephone: (213) 698-8282
Region: STATE
Other Type: AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID:	3513		
Tank Num:	7	Container Num:	4
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	8	Container Num:	5
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	9	Container Num:	6
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	10	Container Num:	7
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	11	Container Num:	8
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID:	3513		
Tank Num:	12	Container Num:	9
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	13	Container Num:	10
Tank Capacity:	4000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	14	Container Num:	11
Tank Capacity:	800	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	15	Container Num:	12
Tank Capacity:	10000	Year Installed:	Not reported
Tank Used for:	WASTE		
Type of Fuel:	WASTE OIL	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	16	Container Num:	13
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	WASTE		
Type of Fuel:	WASTE OIL	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID:	3513		
Tank Num:	17	Container Num:	1
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	18	Container Num:	2
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	19	Container Num:	3
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	20	Container Num:	1
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	21	Container Num:	2
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID:	3513		
Tank Num:	22	Container Num:	1
Tank Capacity:	25000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	23	Container Num:	2
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	24	Container Num:	3
Tank Capacity:	25000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	25	Container Num:	1
Tank Capacity:	20000	Year Installed:	1982
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	26	Container Num:	2
Tank Capacity:	10000	Year Installed:	1982
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

UCO AIR (Continued) **U001568117**

Facility ID:	3513		
Tank Num:	27	Container Num:	3
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	28	Container Num:	4
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	29	Container Num:	5
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

Facility ID:	3513		
Tank Num:	30	Container Num:	6
Tank Capacity:	3000	Year Installed:	Not reported
Tank Used for:	WASTE		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	SANDRA WALKS	Telephone:	(213) 698-8282
Total Tanks:	30	Region:	STATE
Facility Type:	2	Other Type:	AVIATION/TURBINE FUE

B5 **AIR TRAFFIC CONTROL TOWER** **CA FID UST** **S101617754**
West **3200 AIRPORT AVE** **N/A**
< 1/8 **SANTA MONICA, CA 90405**
553
Higher **Site 2 of 3 in cluster B**

B6 **SANTA MONICA MUNICIPAL AIRPORT** **UST** **U001564020**
West **3200 AIRPORT AVE** **N/A**
< 1/8 **SANTA MONICA, CA 90405**
553
Higher **Site 3 of 3 in cluster B**

SANTA MONICA MUNICIPAL AIRPORT (Continued) **U001564020**

State UST:

Facility ID:	65867		
Tank Num:	1	Container Num:	100LL 2
Tank Capacity:	12000	Year Installed:	1980
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Pressure Test		
Contact Name:	AL VELEZ	Telephone:	(213) 390-7606
Total Tanks:	4	Region:	STATE
Facility Type:	2	Other Type:	AIRPORT FUEL STATION

Facility ID:	65867		
Tank Num:	2	Container Num:	80 AG3
Tank Capacity:	12000	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Pressure Test		
Contact Name:	AL VELEZ	Telephone:	(213) 390-7606
Total Tanks:	4	Region:	STATE
Facility Type:	2	Other Type:	AIRPORT FUEL STATION

Facility ID:	65867		
Tank Num:	3	Container Num:	4
Tank Capacity:	550	Year Installed:	Not reported
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	AL VELEZ	Telephone:	(213) 390-7606
Total Tanks:	4	Region:	STATE
Facility Type:	2	Other Type:	AIRPORT FUEL STATION

Facility ID:	65867		
Tank Num:	4	Container Num:	JET A 1
Tank Capacity:	12000	Year Installed:	1980
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrctn:	Not reported
Leak Detection:	Pressure Test		
Contact Name:	AL VELEZ	Telephone:	(213) 390-7606
Total Tanks:	4	Region:	STATE
Facility Type:	2	Other Type:	AIRPORT FUEL STATION

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7 **HUGHES AIRCRAFT** **CERC-NFRAP** **1000893632**
WSW **3100-3200 AIRPORT AVENUE** **CA0000476622**
1/8-1/4 **SANTA MONICA, CA 90404**
881
Higher

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Ownership Status:	Private	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	19940729
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19950921

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
8 North 1/8-1/4 1099 Higher	**KELSEY NATIONAL CORP** **3030 S BUNDY DR** **LOS ANGELES, CA 90066**	**HAZNET**	**S104565680** **N/A**

HAZNET:

Gepaid:	CAC001176560	Tepaid:	CAT080013352
Contact:	KELSEY NATIONAL CORP	Telephone:	(310) 390-1000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.6255		
Category:	Unspecified aqueous solution		
Disposal Method:	Not reported		
Mailing Address:	3030 S BUNDY DR LOS ANGELES, CA 90066		
County	Not reported		

Gepaid:	CAC001176560	Tepaid:	CAT080013352
Contact:	KELSEY NATIONAL CORP	Telephone:	(310) 390-1000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.6255		
Category:	Unspecified aqueous solution		
Disposal Method:	Recycler		
Mailing Address:	3030 S BUNDY DR LOS ANGELES, CA 90066		
County	Not reported		

C9 WSW 1/8-1/4 1143 Higher	**SANTA MONICA PROPELLER** **3025 AIRPORT AVE** **SANTA MONICA, CA 90405**	**RCRIS-SQG** **FINDS** **HAZNET**	**1000395255** **CAD982321044**

Site 1 of 6 in cluster C

RCRIS:

Owner:	SANTA MONICA PROPELLER (415) 555-1212
Contact:	ENVIRONMENTAL MANAGER (213) 390-6233
Record Date:	03/10/1988
Classification:	Small Quantity Generator
Used Oil Recyc:	No
Violation Status:	No violations found

HAZNET:

Gepaid:	CAD982321044	Tepaid:	CAD008252405
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2126		
Category:	Unspecified solvent mixture Waste		
Disposal Method:	Recycler		
Mailing Address:	3135 DONALD DOUGLAS LOOP SOUTH SANTA MONICA, CA 90405		
County	Not reported		

SANTA MONICA PROPELLER (Continued) **1000395255**

Gepaid:	CAD982321044	Tepaid:	CAD008252405
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2918		
Category:	Unspecified solvent mixture Waste		
Disposal Method:	Recycler		
Mailing Address:	3135 DONALD DOUGLAS LOOP SOUTH SANTA MONICA, CA 90405		
County	Not reported		

C10 **SANTA MONICA AIR CENTER** **HAZNET** **S103651061**
WSW **3021 AIRPORT AVE** **N/A**
1/8-1/4 **SANTA MONICA, CA 90405**
1157
Higher **Site 2 of 6 in cluster C**

HAZNET:

Gepaid:	CAC000740688	Tepaid:	CAT080013352
Contact:	SANTA MONICA AIR CENTER	Telephone:	(310) 390-9071
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2919		
Category:	Unspecified aqueous solution		
Disposal Method:	Recycler		
Mailing Address:	3021 AIRPORT AVE SANTA MONICA, CA 90405		
County	Not reported		

C11 **PAC AERO ENGINEERING** **CERC-NFRAP** **1000726140**
WSW **3021 AIRPORT AVE** **Cal-Sites** **CAD980636328**
1/8-1/4 **SANTA MONICA, CA 90405**
1157
Higher **Site 3 of 6 in cluster C**

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Ownership Status:	Unknown	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	19810601
Assessment:	PRELIMINARY ASSESSMENT	Completed:	19840901

CERCLIS-NFRAP Alias Name(s):
SINGLAR LEAR (OPERATOR)
PACIFIC AIRMOTIVE (OPERATOR)
PUREX (OPERATOR)

CAL-SITES:

Facility ID	19760009		
Status:	NFA - NO FURTHER ACTION FOR DTSC		
Status Date:	04/01/1984		
Lead:	Not reported		
Region:	3 - BURBANK		
Branch:	SB - SOUTHERN CA. - B		
File Name:	Not reported		
Status Name:	NO FURTHER ACTION FOR DTSC		
Lead Agency:	N/A		Not reported
NPL:	Not reported		
SIC:	76 MISCELLANEOUS REPAIR SERVICES		
Facility Type:	N/A		
Type Name:	Not reported		

PAC AERO ENGINEERING (Continued) **1000726140**

Staff Member Responsible for Site:	Not reported
Supervisor Responsible for Site:	MMONROY
Region Water Control Board:	LA - LOS ANGELES
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
No. of Contamintion Sources:	0
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

C12 **CITY SANTA MONICA RESOURCE MGT AIRPORT** HAZNET S103650980
WSW **3013 AIRPORT AVE** N/A
1/8-1/4 **SANTA MONICA, CA 90405**
1183
Higher **Site 4 of 6 in cluster C**

HAZNET:

Gepaid:	CAC001234160	Tepaid:	CAD009007626
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	25.284		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	1685 MAIN ST #112 SANTA MONICA, CA 90401		
County	Not reported		

C13 **L A STORY INC** RCRIS-SQG 1000132761
WSW **3000 ARRPORT AVE BLDG 2** FINDS CAD982491862
1/8-1/4 **SANTA MONICA, CA 90405**
1221
Higher **Site 5 of 6 in cluster C**

RCRIS:

Owner:	L A STORY INC (415) 555-1212
Contact:	ENVIRONMENTAL MANAGER (213) 315-4775
Record Date:	06/20/1990
Classification:	Small Quantity Generator

L A STORY INC (Continued) **1000132761**

Used Oil Recyc: No

Violation Status: No violations found

C14 **AIRPORT RESIDUAL** **Cortese** **S100273264**
WSW **3000 AIRPORT AVE** **LUST** **N/A**
1/8-1/4 **SANTA MONICA, CA 90405**
1231
Higher **Site 6 of 6 in cluster C**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0.00000		
Case Number	904050061		
Reg Board:	Los Angeles Region		
Chemical:	Not reported		
Lead Agency:	Regional Board		
Local Agency :	19033		
Case Type:	Other ground water affected		
Status:	Remediation plan developed		
County:	Not reported		
Review Date:	12/06/00	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	11/11/91
Pollution Char:	Not reported	Remed Plan:	02/11/99
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	11/11/91		
Cleanup Fund Id :	Not reported		
Discover Date :	11/01/91		
Enforcement Dt :	/ /		
Enf Type:	Not reported		
Enter Date :	12/19/91		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Subsurface Monitoring		
How Stopped:	Other Means		
Interim :	Not reported		
Lat/Lon :	Not reported		
Leak Cause:	Unknown		
Leak Source:	Unknown		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JH		
MTBE Date :	/ /		
MTBE Tested :	ND		
Max MTBE GW :	0.00000		
GW Qualifies :	Not reported		
Max MTBE Soil :	0.00000		
Soil Qualifies :	Not reported		
Hydr Basin #:	Not reported		
Operator :	MATHIEU, JEFF		
Oversight Prgm :	UST		
Priority :	1B		
Review Date :	12/06/00		
Stop Date :	/ /		
Street Number :	3000		
Work Suspended :	Not reported		
Responsible Party	CITY OF SANTA MONICA		

AIRPORT RESIDUAL (Continued) **S100273264**

Summary: OLD CASE #123091-18, FREE PRODUCT PRESENT; FP IN MW-13. TPH-G, TPH-D, TOTAL LEAD, ACETONE, MEK, BROMO VOE ARE PRESENT IN GW.; 7/14/00 2ND QTR GW MON RPT 2000; 10/13/00 3RD QTR GW MON RPT 2000

LUST Region 4:
Report Date: 11/11/1991
Lead Agency: Regional Board
Local Agency: 19033
Case Number: 904050061
Substance: Hydrocarbons
Case Type: Groundwater
Status: Remediation plan developed
Region: 4
Staff: JH

CORTESE:
Reg By: LTNKA
Reg Id: 904050061
Region: CORTESE

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15 SSW 1/8-1/4 1278 Higher **CREATIVE GRAPHIC SERVICES**
12693 ROSE AVENUE
LOS ANGELES, CA 90066

RCRIS-SQG 1000159501
FINDS CAD982408932
HAZNET

RCRIS:
Owner: RUDI & SANDI OTERO
(415) 555-1212
Contact: ENVIRONMENTAL MANAGER
(213) 397-0104
Record Date: 03/25/1988
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

HAZNET:

Gepaid:	CAD982408932	Tepaid:	CAD108040858
Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.5212		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Not reported		
Mailing Address:	12693 ROSE AVE LOS ANGELES, CA 90066 - 1540		
County	Not reported		

Gepaid:	CAD982408932	Tepaid:	CAD108040858
Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2502		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	12693 ROSE AVE LOS ANGELES, CA 90066 - 1540		
County	Not reported		

CREATIVE GRAPHIC SERVICES (Continued) **1000159501**

Gepaid:	CAD982408932	Tepaid:	CAD108040858
Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.688		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Not reported		
Mailing Address:	12693 ROSE AVE		
	LOS ANGELES, CA 90066 - 1540		
County	Not reported		

Gepaid:	CAD982408932	Tepaid:	CAD108040858
Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.3461		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	12693 ROSE AVE		
	LOS ANGELES, CA 90066 - 1540		
County	Not reported		

Gepaid:	CAD982408932	Tepaid:	CAD108040858
Contact:	RODOLFO OTERO	Telephone:	(310) 397-5334
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.3127		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	12693 ROSE AVE		
	LOS ANGELES, CA 90066 - 1540		
County	Not reported		

D16 **TEXACO #0103** **LUST** **S104793692**
North **3010 BUNDY DR S** **N/A**
1/4-1/2 **MAR VISTA, CA 90066**
1453
Higher **Site 1 of 3 in cluster D**

State LUST:

Cross Street:	NATIONAL		
Qty Leaked:	0.00000		
Case Number	900660107		
Reg Board:	Los Angeles Region		
Chemical:	Not reported		
Lead Agency:	Local Agency		
Local Agency :	19050		
Case Type:	Undefined		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Not reported		
Review Date:	01/23/95	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	01/23/95		
Release Date:	02/09/94		
Cleanup Fund Id :	Not reported		
Discover Date :	02/09/94		
Enforcement Dt :	/ /		
Enf Type:	Not reported		
Enter Date :	03/10/94		
Funding:	Not reported		

TEXACO #0103 (Continued) **S104793692**

Staff Initials: Not reported
How Discovered: Other Means
How Stopped: Not reported
Interim : No
Lat/Lon : Not reported
Leak Cause: Unknown
Leak Source: Unknown
Local Case # : Not reported
Beneficial: Not reported
Staff : Not reported
MTBE Date : / /
MTBE Tested : Not reported
Max MTBE GW : 0.00000
GW Qualifies : Not reported
Max MTBE Soil : 0.00000
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : OLD CASENO WAS 121494-07
Oversight Prgm : LIA
Priority : Not reported
Review Date : 01/23/95
Stop Date : / /
Street Number : 3010
Work Suspended : Not reported
Responsible Party UNKNOWN
Summary: Not reported

D17 **TEXACO #0103** Cortese **S101307359**
North **3010 S BUNDY DR** **N/A**
1/4-1/2 **LOS ANGELES, CA 90066**
1453
Higher **Site 2 of 3 in cluster D**

CORTESE:
Reg By: LTNKA
Reg Id: 121494-07
Region: CORTESE

D18 **TEXACO SVC STA** **RCRIS-SQG** **1000144840**
North **3010 BUNDY** **FINDS** **CAD981435811**
1/4-1/2 **LOS ANGELES, CA 90066** **UST**
1453 **LUST**
Higher **Site 3 of 3 in cluster D**

RCRIS:
Owner: TEXACO REF MKTG INC
(415) 555-1212
Contact: ENVIRONMENTAL MANAGER
(818) 505-2470
Record Date: 09/01/1996
Classification: Small Quantity Generator

TEXACO SVC STA (Continued) **1000144840**

Used Oil Recyc: No

Violation Status: No violations found

LUST Region 4:

Report Date:	02/09/1994
Lead Agency:	Local Agency
Local Agency:	19050
Case Number:	900660107
Substance:	Gasoline
Case Type:	Undefined
Status:	Signed off, remedial action completed or deemed unnecessary
Region:	4
Staff:	Not reported

State UST:

Facility ID:	17381		
Tank Num:	1	Container Num:	1
Tank Capacity:	550	Year Installed:	1971
Tank Used for:	WASTE		
Type of Fuel:	WASTE OIL	Tank Constrctn:	Not reported
Leak Detection:	None		
Contact Name:	GEORGE A. ADAMIAN	Telephone:	(213) 397-5687
Total Tanks:	4	Region:	STATE
Facility Type:	1	Other Type:	Not reported

Facility ID:	17381		
Tank Num:	2	Container Num:	2
Tank Capacity:	10000	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	UNLEADED	Tank Constrctn:	Not reported
Leak Detection:	Stock Inventor		
Contact Name:	GEORGE A. ADAMIAN	Telephone:	(213) 397-5687
Total Tanks:	4	Region:	STATE
Facility Type:	1	Other Type:	Not reported

Facility ID:	17381		
Tank Num:	3	Container Num:	3
Tank Capacity:	10000	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	Not reported
Leak Detection:	Stock Inventor		
Contact Name:	GEORGE A. ADAMIAN	Telephone:	(213) 397-5687
Total Tanks:	4	Region:	STATE
Facility Type:	1	Other Type:	Not reported

Facility ID:	17381		
Tank Num:	4	Container Num:	4
Tank Capacity:	10000	Year Installed:	1971
Tank Used for:	PRODUCT		
Type of Fuel:	PREMIUM	Tank Constrctn:	Not reported
Leak Detection:	Stock Inventor		
Contact Name:	GEORGE A. ADAMIAN	Telephone:	(213) 397-5687
Total Tanks:	4	Region:	STATE
Facility Type:	1	Other Type:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
19 WNW 1/4-1/2 1626 Higher	SANTA MONICA MUNICIPAL AI 3223 DONALD DOUGLAS LOOP S SANTA MONICA, CA 90405	Cortese LUST	S101298058 N/A

State LUST:

Cross Street:	BUNDY		
Qty Leaked:	0.00000		
Case Number	904050025		
Reg Board:	Los Angeles Region		
Chemical:	Not reported		
Lead Agency:	Regional Board		
Local Agency :	19033		
Case Type:	Soil only		
Status:	Post remedial action monitoring in progress		
County:	Not reported		
Review Date:	10/13/00	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	03/18/92	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	05/22/98
Close Date:	Not reported		
Release Date:	01/23/87		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	/ /		
Enf Type:	Not reported		
Enter Date :	08/13/92		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Close Tank		
Interim :	Yes		
Lat/Lon :	Not reported		
Leak Cause:	Overfill		
Leak Source:	Tank		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JH		
MTBE Date :	/ /		
MTBE Tested :	ND		
Max MTBE GW :	0.00000		
GW Qualifies :	Not reported		
Max MTBE Soil :	0.00000		
Soil Qualifies :	Not reported		
Hydr Basin #:	Not reported		
Operator :	DITTMAR, HANK		
Oversight Prgm :	UST		
Priority :	2A		
Review Date :	10/13/00		
Stop Date :	/ /		
Street Number :	3223		
Work Suspended :	Not reported		
Responsible Party:	CITY OF SANTA MONICA		
Summary:	4/24/00 1ST QTR GW MON RPT 2000; 10/13/00 3RD QTR GW MON RPT 2000		

LUST Region 4:

Report Date:	01/23/1987
Lead Agency:	Regional Board
Local Agency:	19033

SANTA MONICA MUNICIPAL AI (Continued) **S101298058**

Case Number: 904050025
Substance: Gasoline
Case Type: Soil
Status: Post remedial action monitoring in progress
Region: 4
Staff: JH

CORTESE:
Reg By: LTNKA
Reg Id: 904050025
Region: CORTESE

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20 SE 1/4-1/2 2591 Higher **SHELL OIL CO** **RCRIS-SQG 1000288466**
3500 CENTINELA **FINDS CAD981406119**
LOS ANGELES, CA 90066 **UST**
Cortese
LUST

RCRIS:
Owner: EQUILON ENTERPRISES L L C
(713) 241-2258
Contact: SONDRA BIENVENU
(713) 241-2258
Record Date: 04/08/1998
Classification: Small Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

State LUST:
Cross Street: PALMS AVE
Qty Leaked: 0.00000
Case Number 900660052
Reg Board: Los Angeles Region
Chemical: Not reported
Lead Agency: Regional Board
Local Agency : 19050
Case Type: Drinking water wells have been affected
Status: No leak action taken by responsible party after initial report of leak
County: Not reported
Review Date: 12/14/00
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Close Date: Not reported
Release Date: 05/15/89
Cleanup Fund Id : Not reported
Discover Date : 05/12/89
Enforcement Dt : / /
Enf Type: Not reported
Enter Date : 05/01/96
Funding: Not reported
Staff Initials: Not reported
How Discovered: Inventory Control
How Stopped: Repair Piping
Interim : Not reported
Lat/Lon : Not reported

Confirm Leak: 01/05/98
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: Not reported

SHELL OIL CO (Continued) **1000288466**

Leak Cause: Structure Failure
Leak Source: Piping
Local Case # : Not reported
Beneficial: Not reported
Staff : JH
MTBE Date : / /
MTBE Tested : YES
Max MTBE GW : 12.00000
GW Qualifies : Not reported
Max MTBE Soil : 1.20000
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : DELL OLIO, JOSEPH/MIKE
Oversight Prgm : UST
Priority : 1A
Review Date : 12/14/00
Stop Date : 05/15/89
Street Number : 3500
Work Suspended : Not reported
Responsible Party SHELL OIL CO
Summary: 2/9/00 TANK REMOVAL & SOIL SAMPLING RPT; 7/14/00 2ND QTR GW MON RPT 2000; 7/17/00 UST REMOVAL AND SOIL SAMPLING RPT; 10/16/00 QTRLY GW MON SEPT. 2000; 10/20/00 TRANSM. OF ASSESSM. WP

LUST Region 4:
Report Date: 05/15/1989
Lead Agency: Regional Board
Local Agency: 19050
Case Number: 900660052
Substance: Gasoline
Case Type: Specific tank leak that has contaminated a specific well used for drinking water
Status: No leak action taken by responsible party after initial report of leak
Region: 4
Staff: JH

CORTESE:
Reg By: LTNKA
Reg Id: 900660052
Region: CORTESE

State UST:
Facility ID: 3065
Tank Num: 1
Tank Capacity: 10000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Leak Detection: Stock Inventor, GW Monitoring Well
Contact Name: Not reported
Total Tanks: 3
Facility Type: 1
Container Num: 1
Year Installed: 1980
Tank Constrctn: 1/4 inches
Telephone: (213) 398-4597
Region: STATE
Other Type: Not reported

SHELL OIL CO (Continued) **1000288466**

Facility ID:	3065		
Tank Num:	2	Container Num:	2
Tank Capacity:	10000	Year Installed:	1980
Tank Used for:	PRODUCT		
Type of Fuel:	REGULAR	Tank Constrctn:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(213) 398-4597
Total Tanks:	3	Region:	STATE
Facility Type:	1	Other Type:	Not reported

Facility ID:	3065		
Tank Num:	3	Container Num:	3
Tank Capacity:	10000	Year Installed:	1983
Tank Used for:	PRODUCT		
Type of Fuel:	PREMIUM	Tank Constrctn:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(213) 398-4597
Total Tanks:	3	Region:	STATE
Facility Type:	1	Other Type:	Not reported

21 **CALIFORNIA AVIATION** **Cortese** **S101298050**
WSW **2501 AIRPORT AVE** **LUST** **N/A**
1/2-1 **SANTA MONICA, CA 90405**
3005
Higher

State LUST:

Cross Street:	23RD ST		
Qty Leaked:	0.00000		
Case Number	904050161		
Reg Board:	Los Angeles Region		
Chemical:	Not reported		
Lead Agency:	Local Agency		
Local Agency :	19033		
Case Type:	Soil only		
Status:	Pollution characterization		
County:	Not reported		
Review Date:	08/24/92	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	06/30/92	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	Not reported		
Release Date:	06/30/92		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	/ /		
Enf Type:	Not reported		
Enter Date :	08/13/92		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Other Means		
How Stopped:	Other Means		
Interim :	Not reported		
Lat/Lon :	Not reported		
Leak Cause:	Unknown		
Leak Source:	Unknown		
Local Case # :	Not reported		
Beneficial:	Not reported		

CALIFORNIA AVIATION (Continued) **S101298050**

Staff : Not reported
MTBE Date : 03/01/98
MTBE Tested : YES
Max MTBE GW : 0.00000
GW Qualifies : Not reported
Max MTBE Soil : 0.01400
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm : LIA
Priority : Not reported
Review Date : 08/24/92
Stop Date : / /
Street Number : 2501
Work Suspended : Not reported
Responsible Party: CALIFORNIA AVIATION
Summary: Not reported

LUST Region 4:
Report Date: 06/30/1992
Lead Agency: Local Agency
Local Agency: 19033
Case Number: 904050161
Substance: Gasoline
Case Type: Soil
Status: Pollution characterization
Region: 4
Staff: Not reported

CORTESE:
Reg By: LTNKA
Reg Id: 082492-04
Region: CORTESE

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22 West 1/2-1 3601 Higher **SANTA MONICA FIRE DEPT.** **Cortese LUST** **S101298051 N/A**
2450 ASHLAND AVE
SANTA MONICA, CA 90405

State LUST:
Cross Street: 24TH ST
Qty Leaked: 0.00000
Case Number 904050152
Reg Board: Los Angeles Region
Chemical: Not reported
Lead Agency: Local Agency
Local Agency : 19033
Case Type: Undefined
Status: Signed off, remedial action completed or deemed unnecessary
County: Not reported
Review Date: 12/20/94
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Close Date: 12/20/94
Release Date: 10/01/91
Cleanup Fund Id : Not reported
Discover Date : 04/30/91
Enforcement Dt : / /
Confirm Leak: Not reported
Prelim Assess: 10/01/91
Remed Plan: Not reported
Monitoring: Not reported

SANTA MONICA FIRE DEPT. (Continued) **S101298051**

Enf Type:	Not reported
Enter Date :	11/04/91
Funding:	Not reported
Staff Initials:	Not reported
How Discovered:	Tank Test
How Stopped:	Remove Contents
Interim :	Not reported
Lat/Lon :	Not reported
Leak Cause:	Unknown
Leak Source:	Unknown
Local Case # :	Not reported
Beneficial:	Not reported
Staff :	Not reported
MTBE Date :	/ /
MTBE Tested :	Not reported
Max MTBE GW :	0.00000
GW Qualifies :	Not reported
Max MTBE Soil :	0.00000
Soil Qualifies :	Not reported
Hydr Basin #:	Not reported
Operator :	Not reported
Oversight Prgm :	LIA
Priority :	Not reported
Review Date :	12/20/94
Stop Date :	/ /
Street Number :	2450
Work Suspended	Not reported
Responsible Party	CITY OF SANTA MONICA
Summary:	BRIAN JOHNSON, ENVIRONMENTAL COORDINATOR

LUST Region 4:

Report Date:	10/01/1991
Lead Agency:	Local Agency
Local Agency:	19033
Case Number:	904050152
Substance:	Gasoline
Case Type:	Undefined
Status:	Signed off, remedial action completed or deemed unnecessary
Region:	4
Staff:	Not reported

CORTESE:

Reg By:	LTNKA
Reg Id:	111891-04
Region:	CORTESE

23
NNW
1/2-1
4893
Higher

EB SANTA MONICA FY X BUNDY
LOS ANGELES, CA

CHMIRS **S100279740**
N/A

(Continued) **S100279740**

CHMIRS:
OES Control Number: 9000763 DOT ID: Not reported
DOT Hazard Class: Not Reported
Chemical Name: POTASSIUM SULFITE
Extent of Release: Not reported
CAS Number: 10117381 Quantity Released: 4
Environmental Contamination: Ground Property Use: Freeway
Incident Date: 19-MAR-90 Date Completed: 19-MAR-90

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24 **CHMIRS** **S100277682**
NW **3205 PICO BLVD.** **N/A**
1/2-1 **SANTA MONICA, CA 90405**
5198
Higher

CHMIRS:
OES Control Number: 9117208 DOT ID: 1263
DOT Hazard Class: Flammable liquid
Chemical Name: PAINT
Extent of Release: Not reported
CAS Number: Not reported Quantity Released: 5
Environmental Contamination: Ground Property Use: Residential
Incident Date: 23-MAY-91 Date Completed: 23-MAY-91

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25 **CHMIRS** **S100279790**
NNW **E/B I-10 342' E/CENTINELA AVE** **N/A**
1/2-1 **LOS ANGELES, CA**
5215
Higher

CHMIRS:
OES Control Number: 9010160 DOT ID: 1493
DOT Hazard Class: Miscellaneous hazardous material
Chemical Name: SILVER NITRATE
Extent of Release: Not reported
CAS Number: Not reported Quantity Released: 10
Environmental Contamination: None Reported Property Use: Freeway
Incident Date: 19-MAR-90 Date Completed: 19-MAR-90

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26 **CHMIRS** **S100277369**
West **2627 CLOVERVIEW BLVD.** **N/A**
1/2-1 **SANTA MONICA, CA 90405**
5233
Higher

CHMIRS:
OES Control Number: 9115932 DOT ID: 1270
DOT Hazard Class: Not Reported
Chemical Name: OIL
Extent of Release: Not reported
CAS Number: Not reported Quantity Released: 1
Environmental Contamination: Water Property Use: County/City Road
Incident Date: 15-MAR-91 Date Completed: 15-MAR-91

Site	Database(s)	EDR ID Number EPA ID Number
MURPHY INDUSTRIAL COATINGS INC **RTE 10 AT 10/60 SEPERATION** **LOS ANGELES, CA**	**HAZNET**	**S103679782** **N/A**

HAZNET:

Gepaid:	CAP601255630	Tepaid:	CAT000646117
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	16	Tsd County:	Kings
Tons:	9		
Category:	Other inorganic solid waste		
Disposal Method:	Treatment, Tank		
Mailing Address:	00000		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number
S/B 101 JUST SOUTH OF ECHO PARK AVE. THOMAS BROS GUIDE PG634 **S/B 101 JUST SOUTH OF ECHO PARK AVE. THOMAS BROS GUIDE PG634** **LOS ANGELES, CA**	**ERNS**	**96497688** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
MURPHY IND COATING LOS ANGELES **RTE 134 / PASS ST OC LA RVR BR** **LOS ANGELES, CA**	**HAZNET**	**S103679783** **N/A**

HAZNET:

Gepaid:	CAP600928558	Tepaid:	CAD000088252
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	19	Tsd County:	Los Angeles
Tons:	0.8428		
Category:	Other inorganic solid waste		
Disposal Method:	Transfer Station		
Mailing Address:	00000		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number
LEMCO, INC **802 E. 61ST STREET** **LOS ANGELES, CA**	**CERCLIS** **FINDS**	**1002826697** **CASFN0905590**

CERCLIS Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Ownership Status:	Not reported	NPL Status:	Not on the NPL

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	20000429
Assessment:	UNILATERAL ADMIN ORDER	Completed:	20000925

CERCLIS Site Status:

Not reported

Site	Database(s)	EDR ID Number EPA ID Number
1508 SOUTH ALAMEDA ST **1508 SOUTH ALAMEDA ST** **LOS ANGELES, CA**	**ERNS**	**8710902** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
450 SOUTH BAUCHET **450 SOUTH BAUCHET** **LOS ANGELES, CA**	**ERNS**	**94463363** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
EAST BOUND SR 118 TO SOUTH BOUND I-5 **EAST BOUND SR 118 TO SOUTH BOUND I-5** **LOS ANGELES, CA**	**ERNS**	**94415726** **N/A**
SOUTH BOUND HARBOR FREEWAY/ TO THE EAST BOUND VINCENT THOMAS **SOUTH BOUND HARBOR FREEWAY/ TO THE EAST BOUND VINCENT THOMAS** **LOS ANGELES, CA**	**ERNS**	**8718035** **N/A**
BUNDY CENTRAL OFFICE @ 1450 S. BUNDY **BUNDY CENTRAL OFFICE @ 1450 S. BUNDY** **LOS ANGELES, CA**	**ERNS**	**8722318** **N/A**
CITY OF LOS ANGELES **CAL STATE LOS ANGELES** **LOS ANGELES, CA**	**HAZNET**	**S100932655** **N/A**

HAZNET:

Gepaid:	CAH777000390	Tepaid:	CAD980737076
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2085		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Transfer Station		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAD980737076
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	6.1299		
Category:	Waste oil and mixed oil		
Disposal Method:	Recycler		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	0		
Category:			
Disposal Method:	Not reported		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	2.8547		
Category:			
Disposal Method:	Transfer Station		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number

CITY OF LOS ANGELES (Continued) S100932655

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	0.0085		
Category:			
Disposal Method:	Treatment, Tank		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

The CA HAZNET database contains 4 additional records for this site.
Please contact your EDR Account Executive for more information.

AZ PHOTO HAZNET S103660721
4583 CENTINELA BLVD. N/A
LOS ANGELES, CA 90066

HAZNET:

Gepaid:	CAL000143141	Tepaid:	CAD108040858
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.025		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	4583 S CENTINELA AVE LOS ANGELES, CA 90066		
County	Not reported		

Gepaid:	CAL000143141	Tepaid:	CAD108040858
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1208		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	4583 S CENTINELA AVE LOS ANGELES, CA 90066		
County	Not reported		

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400 NORTH ENTRATA DRIVE ERNS 87463616
400 NORTH ENTRATA DRIVE N/A
LOS ANGELES, CA

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110 FREEWAY AT ROSECRANS BLVD/SOUTH BOUND ONRAMP ERNS 99636090
110 FREEWAY AT ROSECRANS BLVD/SOUTH BOUND ONRAMP N/A
LOS ANGELES, CA

SB GOLDEN STATE FRWY SOUTH OF TEMPLIN HWY ERNS 92284891
SB GOLDEN STATE FRWY SOUTH OF TEMPLIN HWY N/A
LOS ANGELES, CA

Site	Database(s)	EDR ID Number EPA ID Number
GOLDEN STATE FRWY SOUTH **GOLDEN STATE FRWY SOUTH** **LOS ANGELES, CA**	**ERNS**	**90466124** **N/A**
GOLDEN STATE FRWY SOUTH **GOLDEN STATE FRWY SOUTH** **LOS ANGELES, CA**	**ERNS**	**90188346** **N/A**
PLATING SHOP **5816 HOOPER AVENUE** **LOS ANGELES, CA**	**CERC-NFRAP**	**1001212411** **CA0002059491**

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Ownership Status: Not reported
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY — Completed: 19970925
Assessment: PRELIMINARY ASSESSMENT — Completed: 19980626

CERCLIS-NFRAP Alias Name(s):
TOUCH OF CLASS FURNITURE MFG. CO.

BARNARD TRANSPORTATION — **HAZNET** — **S102804827** / **N/A**
I-5 HWY / HWY 118 AT THE PAX
LOS ANGELES, CA

HAZNET:

Gepaid:	CAC001103160	Tepaid:	CAT000646117
Contact:	WILLIAM W BARNARD	Telephone:	(209) 222-4276
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	4		
Category:	Other inorganic solid waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	3029 W INDIANAPOLIS FRESNO, CA 93722		
County	Not reported		

Gepaid:	CAC001103160	Tepaid:	CAT080013352
Contact:	WILLIAM W BARNARD	Telephone:	(209) 222-4276
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	10.5084		
Category:	Unspecified aqueous solution		
Disposal Method:	Recycler		
Mailing Address:	3029 W INDIANAPOLIS FRESNO, CA 93722		
County	Not reported		

UNOCAL SO CAL. DIV. PIPE LINE — **HAZNET** — **S102801764** / **N/A**
SO. IMPERIAL HWY, E. OF BLOOM-
LOS ANGELES, CA

Site	Database(s)	EDR ID Number EPA ID Number

UNOCAL SO CAL. DIV. PIPE LINE (Continued) S102801764

HAZNET:

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	46.354		
Category:	Other organic solids		
Disposal Method:	Not reported		
Mailing Address:	9653 SANTA FE SPRINGS RD SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	282.338		
Category:	Other organic solids		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	9653 SANTA FE SPRINGS RD SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	160.2571		
Category:	Contaminated soil from site clean-ups		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	9653 SANTA FE SPRINGS RD SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

INTERSECTION OF ORANGE DRIVE AND ADAMS BLVD. ERNS 96497980
INTERSECTION OF ORANGE DRIVE AND ADAMS BLVD. N/A
LOS ANGELES, CA

1201 SOUTH LABREA AVE ERNS 96486024
1201 SOUTH LABREA AVE N/A
LOS ANGELES, CA

MAIN CHANNEL SOUTH WEST MARINE PIER 240 ERNS 91220453
MAIN CHANNEL SOUTH WEST MARINE PIER 240 N/A
LOS ANGELES, CA

NORTHBOUND I 110 SOUTH OF 49TH ST OVERCROSSING ERNS 8863742
NORTHBOUND I 110 SOUTH OF 49TH ST OVERCROSSING N/A
LOS ANGELES, CA

Site	Database(s)	EDR ID Number EPA ID Number
NORTH OF LOMIDA BLVD. SOUTH OF SEPULVEDA **NORTH OF LOMIDA BLVD. SOUTH OF SEPULVEDA** **LOS ANGELES, CA**	**ERNS**	**90465151** **N/A**
ON OGDON ST SOUTH OF PICO ST **ON OGDON ST SOUTH OF PICO ST** **LOS ANGELES, CA**	**ERNS**	**94369353** **N/A**
MOBIL OIL SERVICE STATION #99 LNG **2001 E PACIFIC COAST HIGHWAY** **LOS ANGELES, CA**	**HAZNET**	**S102813346** **N/A**

HAZNET:

Gepaid:	CAL000050415	Tepaid:	CAT080011059
Contact:	MOBIL	Telephone:	(703) 846-5734
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.7105		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 142667 AUSTIN, TX 78714 - 2667		
County	Not reported		

Gepaid:	CAL000050415	Tepaid:	CAT080011059
Contact:	MOBIL	Telephone:	(703) 846-5734
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.7105		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 142667 AUSTIN, TX 78714 - 2667		
County	Not reported		

1X THE PARK AND RIDE LOT **PACIFIC COAST HWY /** **LOS ANGELES, CA**	**HAZNET**	**S100928272** **N/A**

HAZNET:

Gepaid:	CAC000836976	Tepaid:	CAD067786749
Contact:	CAL TRANS	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1653		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	1299 EAST ARTESIA BLVD CARSON, CA 90746		
County	Not reported		

ON RAMP I-10 WEST TO 110 SOUTH **ON RAMP I-10 WEST TO 110 SOUTH** **LOS ANGELES, CA**	**ERNS**	**96472160** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
985 SOUTH SEASIDE PIER 3 TERMINAL ISLAND **985 SOUTH SEASIDE PIER 3 TERMINAL ISLAND** **LOS ANGELES, CA**	**ERNS**	**99648750** **N/A**
SOUTH SIDE BANDINI FIELD, SOUTHERN PACIFIC SITE **SOUTH SIDE BANDINI FIELD, SOUTHERN PACIFIC SITE** **LOS ANGELES, CA**	**ERNS**	**92273665** **N/A**
3 MI SOUTH ANGELS GATE **3 MI SOUTH ANGELS GATE** **LOS ANGELES, CA**	**ERNS**	**93332555** **N/A**
1X MOUNTAINS RECRTN & CONCV AUTHORITY **LA TUNA CANYON ROAD / HWY 210** **LOS ANGELES, CA**	**HAZNET**	**S102798959** **N/A**

HAZNET:

Gepaid:	CAC000941848	Tepaid:	CAD000088252
Contact:	ONIK DAMARYAN/DAVID AZARYAN	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1876		
Category:	Unspecified solvent mixture Waste		
Disposal Method:	Transfer Station		
Mailing Address:	3750 SOLSTICE CANYON ROAD MALIBOU, CA 90265		
County	Not reported		

Gepaid:	CAC000941848	Tepaid:	CAD000088252
Contact:	ONIK DAMARYAN/DAVID AZARYAN	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1		
Category:	Unspecified oil-containing waste		
Disposal Method:	Transfer Station		
Mailing Address:	3750 SOLSTICE CANYON ROAD MALIBOU, CA 90265		
County	Not reported		

UNOCAL SERVICE STATION 4010 791 SOUTH CENTRAL AVE **UNOCAL SERVICE STATION 4010 791 SOUTH CENTRAL AVE** **LOS ANGELES, CA**	**ERNS**	**94463355** **N/A**
UNOCAL 2954 2036 SOUTH ROBERTSON BLVD **UNOCAL 2954 2036 SOUTH ROBERTSON BLVD** **LOS ANGELES, CA**	**ERNS**	**93321667** **N/A**
19200 SOUTH WESTERN **19200 SOUTH WESTERN** **LOS ANGELES, CA**	**ERNS**	**92263022** **N/A**

Site	Database(s)	EDR ID Number EPA ID Number
WHERE RIVERSIDE DRIVE CROSSES THE THOMAS CHANNEL **WHERE RIVERSIDE DRIVE CROSSES THE THOMAS CHANNEL** **LOS ANGELES, CA**	**ERNS**	**90163116** **N/A**

PARROT PAINTING COMPANY
3021 AIRPORT AVE STE 101G
SANTA MONICA, CA 90405

HAZNET **S103981056**
N/A

HAZNET:

Gepaid:	CAL000172087	Tepaid:	CAD000088252
Contact:	DAVID NEWCAMP	Telephone:	(310) 397-7294
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2293		
Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)		
Disposal Method:	Transfer Station		
Mailing Address:	PO BOX 143 TOPANGA, CA 90290		
County	Not reported		

Gepaid:	CAL000172087	Tepaid:	CAD000088252
Contact:	DAVID NEWCAMP	Telephone:	(310) 397-7294
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2293		
Category:	Paint sludge		
Disposal Method:	Transfer Station		
Mailing Address:	PO BOX 143 TOPANGA, CA 90290		
County	Not reported		

SUSAN CUMMINGS
3021 AIRPORT AVE # 102B
SANTA MONICA, CA 90405

HAZNET **S104570980**
N/A

HAZNET:

Gepaid:	CAC002173401	Tepaid:	AZD980695332
Contact:	SUSAN CUMMINGS	Telephone:	(805) 933-9394
Gen County:	Los Angeles	Tsd County:	99
Tons:	0.175		
Category:	Metal dust - machining waste and Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)		
Disposal Method:	Not reported		
Mailing Address:	323 E MATILIJA # 108 OJAI, CA 93023		
County	Not reported		

Gepaid:	CAC002173401	Tepaid:	AZD980695332
Contact:	SUSAN CUMMINGS	Telephone:	(805) 933-9394
Gen County:	Los Angeles	Tsd County:	99
Tons:	0.1167		
Category:	Liquids with cyanides > 1000 mg/l		
Disposal Method:	Recycler		
Mailing Address:	323 E MATILIJA # 108 OJAI, CA 93023		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number
LOS ANGELES FINE ARTS **2290 CENTINELA** **WEST LOS ANGELES, CA 90064**	**HAZNET**	**S103643708** **N/A**

HAZNET:

Gepaid:	CAC001342568	Tepaid:	CAD008252405
Contact:	LOS ANGELES FINE ARTS	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.8131		
Category:	Unspecified organic liquid mixture		
Disposal Method:	Recycler		
Mailing Address:	2290 CENTINELA WEST LOS ANGELES, CA 90064		
County	Not reported		

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
LOS ANGELES	1002826697	LEMCO, INC	802 E. 61ST STREET		CERCLIS, FINDS	
LOS ANGELES	S100932655	CITY OF LOS ANGELES	CAL STATE LOS ANGELES		HAZNET	CAH777000390
LOS ANGELES	S103660721	AZ PHOTO	4583 CENTINELA BLVD.	90066	HAZNET	CAL000143141
LOS ANGELES	S102801764	UNOCAL SO CAL. DIV. PIPE LINE	SO. IMPERIAL HWY, E. OF BLOOM-		HAZNET	CAC001010256
LOS ANGELES	S102813346	MOBIL OIL SERVICE STATION #99 LNG	2001 E PACIFIC COAST HIGHWAY		HAZNET	CAL000050415
LOS ANGELES	S100928272	1X THE PARK AND RIDE LOT	PACIFIC COAST HWY /		HAZNET	CAC000836976
SANTA MONICA	S103981056	PARROT PAINTING COMPANY	3021 AIRPORT AVE STE 101G	90405	HAZNET	CAL000172087
SANTA MONICA	S104570980	SUSAN CUMMINGS	3021 AIRPORT AVE # 102B	90405	HAZNET	CAC002173401
WEST LOS ANGELES	S103643708	LOS ANGELES FINE ARTS	2290 CENTINELA	90064	HAZNET	CAC001342568

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 01/23/01
Date Made Active at EDR: 02/16/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/05/01
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/05/01

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 01/23/01
Date Made Active at EDR: 02/16/01
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/05/01
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/05/01

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/28/00
Date Made Active at EDR: 02/28/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/00
Elapsed ASTM days: 61
Date of Last EDR Contact: 03/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 12/28/00
Date Made Active at EDR: 02/28/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/00
Elapsed ASTM days: 61
Date of Last EDR Contact: 03/26/01

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/20/00
Date Made Active at EDR: 08/01/00
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/12/00
Elapsed ASTM days: 50
Date of Last EDR Contact: 03/14/01

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/30/01

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 02/02/01

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97
Database Release Frequency: Biennially

Date of Last EDR Contact: 03/19/01
Date of Next Scheduled EDR Contact: 06/18/01

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/99
Database Release Frequency: Annually

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/23/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/05/01
Date of Next Scheduled EDR Contact: 05/07/01

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/07/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 05/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 01/23/01
Date of Next Scheduled EDR Contact: 04/23/01

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/30/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/01/98
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/02/01
Date of Next Scheduled EDR Contact: 04/02/01

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/20/01
Date of Next Scheduled EDR Contact: 05/21/01

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/01/00
Database Release Frequency: Annually

Date of Last EDR Contact: 02/12/01
Date of Next Scheduled EDR Contact: 05/14/01

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/97
Database Release Frequency: Annually
Date of Last EDR Contact: 03/26/01
Date of Next Scheduled EDR Contact: 06/25/01

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 03/30/01
Date of Next Scheduled EDR Contact: 06/12/01

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/26/01
Date of Next Scheduled EDR Contact: 06/25/01

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 08/10/00
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/26/01
Date of Next Scheduled EDR Contact: 06/25/01

STATE OF CALIFORNIA ASTM STANDARD RECORDS

CAL-SITES (AWP): Annual Workplan Sites
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 11/08/00
Date Made Active at EDR: 03/02/01
Database Release Frequency: Annually
Date of Data Arrival at EDR: 01/31/01
Elapsed ASTM days: 30
Date of Last EDR Contact: 01/30/01

CAL-SITES (ASPIS): Calsites Database
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 10/01/00
Date Made Active at EDR: 11/22/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/30/00
Elapsed ASTM days: 23
Date of Last EDR Contact: 01/09/01

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-464-3283
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/94
Date Made Active at EDR: 04/24/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 03/13/95
Elapsed ASTM days: 42
Date of Last EDR Contact: 02/26/01

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-327-1848
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/01/98
Date Made Active at EDR: 09/23/98
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/26/98
Elapsed ASTM days: 28
Date of Last EDR Contact: 01/30/01

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-657-0696
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 01/26/01

TOXIC PITS: Toxic Pits Cleanup Act Sites
Source: State Water Resources Control Board
Telephone: 916-227-4364
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 02/06/01

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-341-6320
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/10/01
Date Made Active at EDR: 03/29/01
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/01/01
Elapsed ASTM days: 28
Date of Last EDR Contact: 03/19/01

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/16/01

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-445-6532
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/10/01
Date Made Active at EDR: 02/12/01
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 01/11/01
Elapsed ASTM days: 32
Date of Last EDR Contact: 01/11/01

CA UST:

UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-227-4408
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 01/16/01

CA BOND EXP. PLAN: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

CA FID UST: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-227-4382
Registered Aboveground Storage Tanks.

Date of Government Version: 03/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/05/01
Date of Next Scheduled EDR Contact: 05/07/01

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 02/14/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/26/01
Date of Next Scheduled EDR Contact: 06/25/01

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 02/14/01
Date of Next Scheduled EDR Contact: 05/14/01

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 08/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/30/01
Date of Next Scheduled EDR Contact: 04/30/01

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/30/00
Date of Next Scheduled EDR Contact: 04/30/01

CONTRA COSTA COUNTY:

Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/05/01
Date of Next Scheduled EDR Contact: 06/04/01

FRESNO COUNTY:

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 11/29/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 06/23/00
Database Release Frequency: Annually

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7335
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/18/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/26/01
Date of Next Scheduled EDR Contact: 06/25/01

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/23/01
Date of Next Scheduled EDR Contact: 04/23/01

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 12/05/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/23/01
Date of Next Scheduled EDR Contact: 04/23/01

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8450

Date of Government Version: 02/06/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/06/01
Date of Next Scheduled EDR Contact: 05/07/01

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8450
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/06/01
Date of Next Scheduled EDR Contact: 05/07/01

SAN BERNARDINO COUNTY:

Hazardous Material Permits
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 10/02/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 07/01/98
Database Release Frequency: Annually

Date of Last EDR Contact: 02/27/01
Date of Next Scheduled EDR Contact: 05/28/01

Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 01/07/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/08/01
Date of Next Scheduled EDR Contact: 04/09/01

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 01/02/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 12/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 10/05/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/30/01
Date of Next Scheduled EDR Contact: 04/30/01

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/24/99
Database Release Frequency: Annually

Date of Last EDR Contact: 01/16/01
Date of Next Scheduled EDR Contact: 04/16/01

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-927-0710

Date of Government Version: 12/31/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/29/01
Date of Next Scheduled EDR Contact: 04/02/01

Hazaroud Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 09/28/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

SOLANO COUNTY:

Leaking Undergroung Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 02/06/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/19/01
Date of Next Scheduled EDR Contact: 06/18/01

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 09/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/19/01
Date of Next Scheduled EDR Contact: 06/18/01

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-525-6565

Date of Government Version: 12/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/30/01
Date of Next Scheduled EDR Contact: 04/30/01

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 01/02/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 06/01/99
Database Release Frequency: Annually

Date of Last EDR Contact: 03/01/01
Date of Next Scheduled EDR Contact: 05/28/01

Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/26/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/19/01
Date of Next Scheduled EDR Contact: 06/18/01

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/21/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/16/01
Date of Next Scheduled EDR Contact: 04/16/01

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 11/22/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/19/01
Date of Next Scheduled EDR Contact: 06/18/01

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 07/07/00
Database Release Frequency: Annually

Date of Last EDR Contact: 01/23/01
Date of Next Scheduled EDR Contact: 04/23/01

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/28/01
Date of Next Scheduled EDR Contact: 05/28/01

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 12/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/15/01
Date of Next Scheduled EDR Contact: 04/16/01

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 02/20/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/19/01
Date of Next Scheduled EDR Contact: 05/21/01

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600

Date of Government Version: 11/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/02/01
Date of Next Scheduled EDR Contact: 04/02/01

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 01/02/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424

Date of Government Version: 01/02/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 01/02/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 01/24/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/02/01
Date of Next Scheduled EDR Contact: 04/02/01

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498

Date of Government Version: 11/22/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/15/01
Date of Next Scheduled EDR Contact: 05/14/01

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 619-467-2952

Date of Government Version: 12/05/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/22/01
Date of Next Scheduled EDR Contact: 04/23/01

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 02/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/28/01
Date of Next Scheduled EDR Contact: 05/28/01

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 12/01/00
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/15/01
Date of Next Scheduled EDR Contact: 04/16/01

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 02/20/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/19/01
Date of Next Scheduled EDR Contact: 05/21/01

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 02/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/30/01
Date of Next Scheduled EDR Contact: 04/30/01

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 12/30/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/08/01
Date of Next Scheduled EDR Contact: 04/09/01

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 10/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/09/01
Date of Next Scheduled EDR Contact: 04/09/01

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 06/01/00
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/11/01
Date of Next Scheduled EDR Contact: 04/09/01

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/00
Database Release Frequency: Annually

Date of Last EDR Contact: 03/05/01
Date of Next Scheduled EDR Contact: 06/04/01

EDR PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3171 SOUTH BUNDY DRIVE
3171 SOUTH BUNDY DRIVE
LOS ANGELES, CA 90066

TARGET PROPERTY COORDINATES

Latitude (North):	34.015598 - 34° 0' 56.2"
Longitude (West):	118.445099 - 118° 26' 42.4"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	366564.2
UTM Y (Meters):	3764632.8

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2434118-A4 BEVERLY HILLS, CA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General South

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Q3 Flood Data Electronic Coverage
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0601590000A / CBNP
Additional Panels in search area:	0601370071 / CBPP
	0601370070C / CBPP
	0601370078C / CBPP
	0601370077C / CBPP

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Coverage
BEVERLY HILLS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Location Relative to TP:	1 - 2 Miles NW
Site Name:	Mcdonnell-Douglas Aircraft Facility
Site EPA ID Number:	CA0000485326
Groundwater Flow Direction:	South-Southwest
Inferred Depth to Water:	50 feet.
Hydraulic Connection:	Information is not available regarding the hydraulic connection between aquifers underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
2	1 - 2 Miles SE	Not Reported
3	1 - 2 Miles NW	Not Reported
4	1 - 2 Miles SSW	SW
5	1 - 2 Miles SW	SW
6	1 - 2 Miles WSW	SSW
7	1 - 2 Miles ESE	Not Reported
8	1 - 2 Miles ESE	SSW
9	1 - 2 Miles SSW	S

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

GEOLOGIC AGE IDENTIFICATION

Geologic Code:	Q
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary

ROCK STRATIGRAPHIC UNIT

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information

	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand
coarse sand
sand
gravelly - sand

Surficial Soil Types:
loam
clay
silt loam
clay loam
sandy loam
gravelly - sandy loam
loamy sand
fine sand

	coarse sand sand gravelly - sand
Shallow Soil Types:	fine sandy loam gravelly - loam sand silty clay
Deeper Soil Types:	stratified clay loam silty clay loam gravelly - sandy loam coarse sand sand weathered bedrock very fine sandy loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

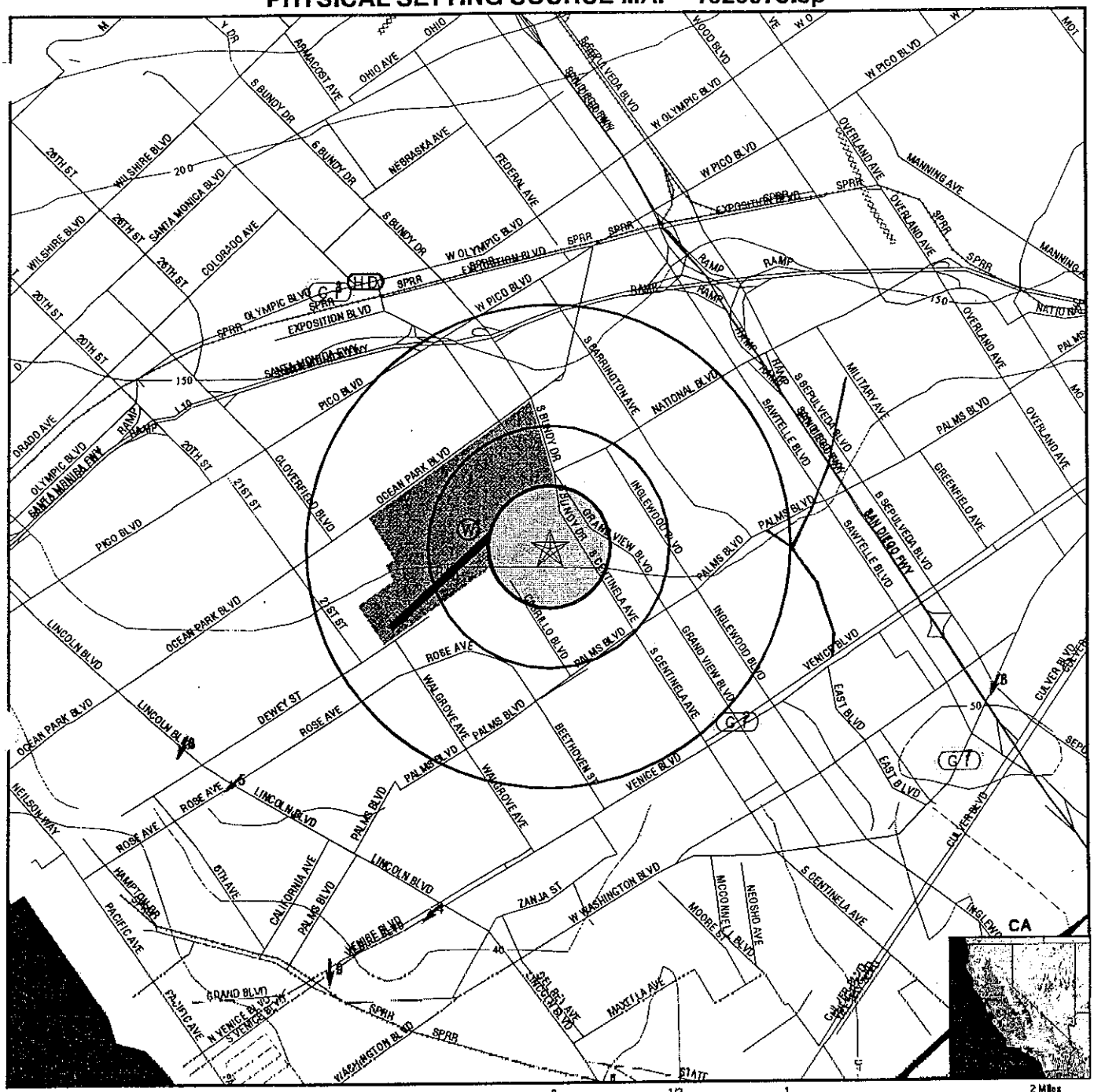
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	2994	1/4 - 1/2 Mile WNW

PHYSICAL SETTING SOURCE MAP - 1620973.3p



- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- (W) Water Wells
- (P) Public Water Supply Wells
- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- (◎) Earthquake epicenter, Richter 5 or greater
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	3171 South Bundy Drive	CUSTOMER:	ARCADIS Geraghty & Miller
ADDRESS:	3171 South Bundy Drive	CONTACT:	Reinhard Ruhmke
CITY/STATE/ZIP:	Los Angeles CA 90066	INQUIRY #:	1620973.3p
LAT/LONG:	34.0156 / 118.4451	DATE:	April 18, 2001 9:11 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **WNW** **1/4 - 1/2 Mile** **Higher**		**CA WELLS**	**2994**

Water System Information:

Prime Station Code:	02S/15W-04E02 S	User ID:	4TH
FRDS Number:	1910146013	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	340100.0 1182700.0	Precision:	Undefined
Source Name:	SANTA MONICA WELL 02 - DESTROYED		
System Number:	1910146		
System Name:	SANTA MONICA-CITY, WATER DIVISION		
Organization That Operates System:	1212 FIFTH ST., 3RD FLOOR SANTA MONICA, CA 90401		
Pop Served:	86905	Connections:	15905
Area Served:	SANTA MONICA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	03/11/1985	Findings:	1.000 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03/11/1985	Findings:	10.000 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/26/1985	Findings:	.550 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	04/26/1985	Findings:	8.700 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/23/1987	Findings:	1.000 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03/23/1987	Findings:	8.800 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/27/1987	Findings:	1.000 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	04/27/1987	Findings:	13.100 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/26/1987	Findings:	7.900 UG/L
Chemical:	TRICHLOROETHYLENE		

2 **SE** **1 - 2 Miles** **Lower**	Site ID:	900570061	**AQUIFLOW**	**55174**
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	8.37		
	Deep Water Depth:	12		
	Average Water Depth:	Not Reported		
	Date:	08/07/1996		

3 **NW** **1 - 2 Miles** **Higher**	Site ID:	900570061	**AQUIFLOW**	**55200**
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	8.37		
	Deep Water Depth:	12		
	Average Water Depth:	Not Reported		
	Date:	08/07/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
4 **SSW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910198 SW 18 22 Not Reported 04/30/1999	**AQUIFLOW**	**70514**
5 **SW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910052 SW Not Reported Not Reported 28 07/18/1991	**AQUIFLOW**	**55279**
6 **WSW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	904050052 SSW Not Reported Not Reported 40 06/22/1993	**AQUIFLOW**	**70477**
7 **ESE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	900570061 Not Reported 8.37 12 Not Reported 08/07/1996	**AQUIFLOW**	**55208**
8 **ESE** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	I-07028 SSW 57.32 58.47 Not Reported 07/30/1998	**AQUIFLOW**	**70463**
9 **SSW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	902910161 S 8.61 10.30 Not Reported 03/31/1999	**AQUIFLOW**	**70404**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
LOS ANGELES	1002826697	LEMCO, INC	802 E. 61ST STREET		CERCLIS, FINDS	
LOS ANGELES	S100932655	CITY OF LOS ANGELES	CAL STATE LOS ANGELES	00000	HAZNET	CAH777000390
LOS ANGELES	S103660721	AZ PHOTO	4583 CENTINELA BLVD.	90066	HAZNET	CAL000143141
LOS ANGELES	S102801764	UNOCAL SO CAL. DIV. PIPE LINE	SO. IMPERIAL HWY, E. OF BLOOM-	00000	HAZNET	CAC001010256
LOS ANGELES	S102813346	MOBIL OIL SERVICE STATION #99 LNG	2001 E PACIFIC COAST HIGHWAY	00000	HAZNET	CAL000050415
LOS ANGELES	S100928272	1X THE PARK AND RIDE LOT	PACIFIC COAST HWY /	00000	HAZNET	CAC000836976
SANTA MONICA	S103981056	PARROT PAINTING COMPANY	3021 AIRPORT AVE STE 101G	90405	HAZNET	CAL000172087
SANTA MONICA	S104570980	SUSAN CUMMINGS	3021 AIRPORT AVE # 102B	90405	HAZNET	CAC002173401
WEST LOS ANGELES	S103643708	LOS ANGELES FINE ARTS	2290 CENTINELA	90064	HAZNET	CAC001342568

Site	Database(s)	EDR ID Number EPA ID Number
LEMCO, INC **802 E. 61ST STREET** **LOS ANGELES, CA**	**CERCLIS** **FINDS**	**1002826697** **CASFN0905590**

CERCLIS Classification Data:
Site Incident Category: Not reported
Ownership Status: Not reported
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

CERCLIS Assessment History:
Assessment: DISCOVERY. Completed: 20000429
Assessment: UNILATERAL ADMIN ORDER Completed: 20000925

CERCLIS Site Status:
Not reported

CITY OF LOS ANGELES
CAL STATE LOS ANGELES
LOS ANGELES, CA 00000

HAZNET **S100932655**
N/A

HAZNET:

Gepaid:	CAH777000390	Tepaid:	CAD980737076
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2085		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Transfer Station		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAD980737076
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	6.1299		
Category:	Waste oil and mixed oil		
Disposal Method:	Recycler		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	0		
Category:			
Disposal Method:	Not reported		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	2.8547		
Category:			
Disposal Method:	Transfer Station		
Mailing Address:	RECYCLING & WASTE REDUCTION LOS ANGELES, CA 90013		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number

CITY OF LOS ANGELES (Continued) S100932655

Gepaid:	CAH777000390	Tepaid:	CAT080010101
Contact:	CITY OF LOS ANGELES	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	San Diego
Tons:	0.0085		
Category:			
Disposal Method:	Treatment, Tank		
Mailing Address:	RECYCLING & WASTE REDUCTION		
	LOS ANGELES, CA 90013		
County	Not reported		

The CA HAZNET database contains 4 additional records for this site.
Please contact your EDR Account Executive for more information.

AZ PHOTO HAZNET S103660721
4583 CENTINELA BLVD. N/A
LOS ANGELES, CA 90066

HAZNET:

Gepaid:	CAL000143141	Tepaid:	CAD108040858
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.025		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	4583 S CENTINELA AVE		
	LOS ANGELES, CA 90066		
County	Not reported		

Gepaid:	CAL000143141	Tepaid:	CAD108040858
Contact:	AZIZ SOROUR	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1208		
Category:	Photochemicals/photoprocessing waste		
Disposal Method:	Recycler		
Mailing Address:	4583 S CENTINELA AVE		
	LOS ANGELES, CA 90066		
County	Not reported		

UNOCAL SO CAL. DIV. PIPE LINE HAZNET S102801764
SO. IMPERIAL HWY, E. OF BLOOM- N/A
LOS ANGELES, CA 00000

HAZNET:

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	46.354		
Category:	Other organic solids		
Disposal Method:	Not reported		
Mailing Address:	9653 SANTA FE SPRINGS RD		
	SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number

UNOCAL SO CAL. DIV. PIPE LINE (Continued) S102801764

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	282.338		
Category:	Other organic solids		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	9653 SANTA FE SPRINGS RD		
	SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

Gepaid:	CAC001010256	Tepaid:	CAT000646117
Contact:	UNOCAL SO CAL DIV. PIPELINE	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Kings
Tons:	160.2571		
Category:	Contaminated soil from site clean-ups		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	9653 SANTA FE SPRINGS RD		
	SANTA FE SPRINGS, CA 90670 - 2917		
County	Not reported		

MOBIL OIL SERVICE STATION #99 LNG HAZNET S102813346
2001 E PACIFIC COAST HIGHWAY N/A
LOS ANGELES, CA 00000

HAZNET:

Gepaid:	CAL000050415	Tepaid:	CAT080011059
Contact:	MOBIL	Telephone:	(703) 846-5734
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.7105		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 142667		
	AUSTIN, TX 78714 - 2667		
County	Not reported		

Gepaid:	CAL000050415	Tepaid:	CAT080011059
Contact:	MOBIL	Telephone:	(703) 846-5734
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	2.7105		
Category:	Aqueous solution with less than 10% total organic residues		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 142667		
	AUSTIN, TX 78714 - 2667		
County	Not reported		

1X THE PARK AND RIDE LOT HAZNET S100928272
PACIFIC COAST HWY / N/A
LOS ANGELES, CA 00000

HAZNET:

Gepaid:	CAC000836976	Tepaid:	CAD067786749
Contact:	CAL TRANS	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.1653		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	1299 EAST ARTESIA BLVD		
	CARSON, CA 90746		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number

PARROT PAINTING COMPANY
3021 AIRPORT AVE STE 101G
SANTA MONICA, CA 90405

HAZNET **S103981056**
N/A

HAZNET:

Gepaid:	CAL000172087	Tepaid:	CAD000088252
Contact:	DAVID NEWCAMP	Telephone:	(310) 397-7294
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2293		
Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)		
Disposal Method:	Transfer Station		
Mailing Address:	PO BOX 143 TOPANGA, CA 90290		
County	Not reported		

Gepaid:	CAL000172087	Tepaid:	CAD000088252
Contact:	DAVID NEWCAMP	Telephone:	(310) 397-7294
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.2293		
Category:	Paint sludge		
Disposal Method:	Transfer Station		
Mailing Address:	PO BOX 143 TOPANGA, CA 90290		
County	Not reported		

SUSAN CUMMINGS
3021 AIRPORT AVE # 102B
SANTA MONICA, CA 90405

HAZNET **S104570980**
N/A

HAZNET:

Gepaid:	CAC002173401	Tepaid:	AZD980695332
Contact:	SUSAN CUMMINGS	Telephone:	(805) 933-9394
Gen County:	Los Angeles	Tsd County:	99
Tons:	0.175		
Category:	Metal dust - machining waste and Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)		
Disposal Method:	Not reported		
Mailing Address:	323 E MATILIJA # 108 OJAI, CA 93023		
County	Not reported		

Gepaid:	CAC002173401	Tepaid:	AZD980695332
Contact:	SUSAN CUMMINGS	Telephone:	(805) 933-9394
Gen County:	Los Angeles	Tsd County:	99
Tons:	0.1167		
Category:	Liquids with cyanides > 1000 mg/l		
Disposal Method:	Recycler		
Mailing Address:	323 E MATILIJA # 108 OJAI, CA 93023		
County	Not reported		

Site	Database(s)	EDR ID Number EPA ID Number
LOS ANGELES FINE ARTS **2290 CENTINELA** **WEST LOS ANGELES, CA 90064**	**HAZNET**	**S103643708** **N/A**

HAZNET:

Gepaid:	CAC001342568	Tepaid:	CAD008252405
Contact:	LOS ANGELES FINE ARTS	Telephone:	(000) 000-0000
Gen County:	Los Angeles	Tsd County:	Los Angeles
Tons:	0.8131		
Category:	Unspecified organic liquid mixture		
Disposal Method:	Recycler		
Mailing Address:	2290 CENTINELA WEST LOS ANGELES, CA 90064		
County	Not reported		

Appendix H

Field Methodologies

Appendix I

FIELD METHODOLOGY

DRILLING AND SAMPLING

Soil Boring: Hollow-Stem Auger Method

Drilling proceeded from ground surface to the designated depth while soil samples were collected at 5-foot intervals using a split-spoon sampler. Prior to drilling, ARCADIS Geraghty & Miller notified Underground Services Alert (USA) and appropriate BAE SYSTEM personnel to confirm the presence or absence of underground utilities near the boring location. In addition, a utility locating company cleared the proposed boring locations.

Drilling was accomplished using 8-inch, outside diameter, hollow-stem augers. A modified California split-spoon sampler was used to collect the soil samples. The sampler was driven into the soil ahead of the augers providing a relatively slough-free 18-inch soil sample contained in three 6-inch brass tubes. One of the brass sleeves were sealed with Teflon sheets and plastic end caps, labeled and placed on ice for transport to the laboratory for chemical analysis or storage. The boring log form was used to document drilling activities and observations. The Unified Soils Classification System (USCS) was used to log lithologies.

All soil sampling equipment was thoroughly cleaned prior to and following use at each sampling location. The cleaning procedures consisted of triple-rinse cleaning methods. The triple-rinse cleaning method employed consisted of washing the equipment in potable water with a cleansing solution, rinsing in potable water, then rinsing with distilled water. All decontamination water was placed in drums, pending final disposition.

An experienced field geologist working under the supervision of a California Registered Geologist maintained the detailed log of activities and collect field data. The on-site geologist produced a detailed geologic log of the boring, conducted field analyses of soil samples, and properly packaged and labeled samples for possible laboratory analysis.

The boring was backfilled to the surface with a cement/bentonite grout mixture upon reaching total boring depth. All drill cuttings were placed in 55-gallon drums, labeled and left on-site pending final disposition.

Soil Boring: Direct-push Method

Prior to drilling, ARCADIS Geraghty & Miller notified Underground Services Alert (USA) and appropriate BAE SYSTEM personnel to confirm the presence or absence of underground utilities near the boring locations. In addition, a utility locating company cleared the proposed boring locations. Drilling proceeded

from ground surface to the designated depths using direct-push drilling methodology. Continuous cores utilizing clear, acetate liners were collected during the investigation to assist in determining the presence of petroleum hydrocarbons. Soil samples were collected in brass tubes at the appropriate sample intervals using a modified split-spoon sampler. For samples proposed for VOC analysis, three subsamples were collected using an En Core™ sampler following procedures outlined in ASTM 6418-99. Soil sampling and equipment decontamination procedures were similar to the procedures outlined previously.

Each boring was backfilled with a cement/bentonite grout mixture upon reaching total boring depth.

Soil-Gas Sampling

Field methodology for the initial soil-gas sampling performed by EST is provided in the EST report located in Appendix J. Soil-gas probes were installed using direct-push methodology. Once the soil-gas sampling depth was reached, new polyethylene tubing was installed. Soil gas sampling generally followed Los Angeles Regional Water Quality Control Board WIP protocols. Each boring was backfilled and resurfaced.

PERMITTING

No permits were required from the Los Angeles County Department of Health Services (DHS).

LABORATORY ANALYSIS

All soil samples were transported in a cooler containing ice, under proper ARCADIS G & M chain-of-custody protocol to Calscience Environmental Laboratories, Inc. located in Garden Grove, California, a State of California-certified laboratory (Certification No. 1230).

Selected soil samples were analyzed for the following constituents:

- Volatile organic compounds (VOCs) in soil using Environmental Protection Agency (EPA) Method 8260B and extraction method 5035;
- Title 22 metals using EPA methods 6010B and 7471A; and
- Hexavalent Chromium using EPA Method 7199.

Soil-gas samples were analyzed for the following constituents:

- Volatile organic compounds (VOCs) using a mobile lab.

Appendix I

EST Soil Gas Report

May 29, 2001

EST1928

Mr. Reinhard Ruhmke
ARCADIS Geraghty and Miller, Inc.
1400 N. Harbor Boulevard, Suite 700
Fullerton, California 92835-4127

Subject: Soil Gas Survey Report
BAE Systems Facility
3171 South Bundy Drive
Santa Monica, California

Dear Mr. Ruhmke

Environmental Support Technologies, Inc. (EST) is pleased to submit the results of the soil gas survey conducted at the BAE Systems facility located at 3171 South Bundy Drive in Santa Monica, California. On May 11 and 14, 2001, EST installed and sampled twenty six (26) 5-foot soil gas sampling probes. The soil gas samples were subsequently analyzed on-site for volatile organic compounds (VOCs) including halogenated and aromatic hydrocarbons. The soil gas survey was conducted in general accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

A summary of field analytical results for soil gas samples is provided in Table 1. Factors that may affect the distribution of VOCs in the subsurface are presented in Appendix A. Field analytical reports, quality assurance/quality control data, and reportable limits of quantitation for halogenated and aromatic hydrocarbons are provided in Appendix B. EST's standard methods and procedures for soil gas surveys are provided in Appendix C.

EST appreciates the opportunity to assist ARCADIS Geraghty and Miller, Inc. on this project. Should you have any questions or require additional information, please contact me at (949) 457-9664.

Sincerely,

Environmental Support Technologies, Inc.

Kevin B. Aardahl

Kevin B. Aardahl
Project Manager

23276 Del Lago Drive • Laguna Hills, California 92653 • 949/457-9664 • Fax 949/457-0664

LIMITATIONS AND WARRANTIES

This letter report titled " Soil Gas Survey Report – BAE Systems Facility, 3171 South Bundy Drive, Santa Monica, California," has been prepared for the exclusive use of ARCADIS Geraghty and Miller, Inc. and assigned interested parties. The report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made. The information provided in this report is based on measurements performed in specific areas during a specific limited period of time.

Soil gas sample analysis is conducted using laboratory-grade gas chromatography equipment. Chemical compound identification is performed using quantitative methods. Chemical compound identities should be verified using gas chromatography/mass spectrometric analyses methods. Soil gas survey data should be used in conjunction with other site specific data.

Kevin B. Aardahl
Project Manager

Kirk A. Thomson, RG, CHG, REA II
Laboratory Director/Principal Hydrogeologist

May 29, 2001

TABLES

TABLE 1

SUMMARY OF FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES

BAE SYSTEMS FACILITY
3171 SOUTH BUNDY DRIVE
SANTA MONICA, CALIFORNIA

5/16/01 File: 1928 T1

PROBE NUMBER	DATE OF SAMPLING	PROBE DEPTH (ft)	SAMPLING EVENTS	F-113 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	TOL (µg/L)	PCE (µg/L)	EBENZ (µg/L)	m+p-XYL (µg/L)	o-XYL (µg/L)
SG1-5	5/11/01	5	3	1.4	8.2	ND<1	1.3	ND<1	1.4	ND<1	ND<1	ND<1	ND<1
SG2-5	5/11/01	5	1	1.3	8.8	ND<1	1.6	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG3-5	5/11/01	5	1	2.3	12	ND<1	1.8	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG4-5	5/11/01	5	1	5.3	24	ND<1	3.5	1.3	ND<1	ND<1	ND<1	ND<1	ND<1
SG5-5	5/11/01	5	1	6.7	28	ND<1	4.4	1.3	69	ND<1	15	52	15
SG6-5	5/11/01	5	2	9.2	43	ND<1	6.1	2.9	674	1.1	30	92	16
SG7-5	5/11/01	5	1	ND<5	5.1	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
SG8-5	5/11/01	5	2	1.3	19	ND<1	7.2	2.6	263	1	12	38	7.7
SG9-5	5/11/01	5	1	2.3	12	ND<1	ND<1	ND<1	22	ND<1	1.1	3.7	ND<1
SG10-5	5/11/01	5	1	10	51	ND<1	1.7	3.3	66	ND<1	5.3	19	4
SG11-5	5/11/01	5	1	5.4	32	ND<1	ND<1	3.9	49	ND<1	2.6	9.2	1.7
SG12-5	5/11/01	5	1	16	92	ND<1	1.6	14	3.4	1.3	ND<1	ND<1	ND<1
SG13-5	5/11/01	5	1	ND<2	11	ND<2	5.1	ND<2	30	ND<2	ND<2	10	ND<2
SG14-5	5/11/01	5	1	1.4	21	ND<1	ND<1	2.2	93	ND<1	4.3	16	3
SG15-5	5/11/01	5	1	3.1	19	2.1	1.3	9.4	ND<1	ND<1	ND<1	1.1	ND<1
SG16-5	5/14/01	5	1	ND<1	1.3	ND<1	ND<1	1.3	ND<1	ND<1	ND<1	ND<1	ND<1
SG17-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG18-5	5/14/01	5	1	1.1	8.3	ND<1	1.3	3	1.2	ND<1	ND<1	3.5	2
SG19-5	5/14/01	5	1	ND<1	1.5	ND<1	ND<1	ND<1	ND<1	ND<1	1.2	5.5	1.4
SG20-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.5	ND<1
SG21-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG22-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG23-5	5/14/01	5	1	ND<1	1.5	ND<1	ND<1	ND<1	ND<1	ND<1	1.6	6.6	2.3
SG24-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG25-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG26-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1

ft = feet below grade
F-113 = 1,1,2-Trichloro-trifluoroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
1,1,1-TCA = 1,1,1-Trichlorethane
TCE = Trichloroethene
µg/L = micrograms per liter
TOL = Tolulene
PCE = Tetrachloroethene
EBENZ = Ethylbenzene
m+p-XYL = meta and para-Xylene
o-XYL = ortho-Xylene
ND = Not detected; Sample is below the reported limit of quantitation.

Note: Values shown are the highest detected at each location within quantitation range.

APPENDICES

Appendix A

FACTORS AFFECTING THE GAS-PHASE DISTRIBUTION OF VOCs IN THE SUBSURFACE

Soil and groundwater contamination by volatile organic compounds (VOCs) can often be detected by analyzing trace gases in soil just below ground surface. This technique is possible because many VOCs will volatilize and move by molecular diffusion away from source areas toward regions of lower concentrations. A gas phase concentration gradient from the source to adjacent areas is established.

The following factors affect the transport and gas phase distribution of VOCs in the subsurface.

1. The liquid-gas partitioning coefficient of the compounds of interest (the "volatility" of the compound).

2. The vapor diffusivity, which is a measure of how quickly an individual compound "spreads out" within a volume of gas.

3. Retardation of the individual compounds as they migrate in the soil gas. Retardation may be due to degradation, adsorption on the soil matrix, tortuosity of the soil profile, or entrapment in unconnected pores.

4. The presence of impeding layers, wetting fronts of freshwater, or perched water tables, between the regional water table and ground surface.

5. The presence of soil moisture around man-made structures such as clarifiers and sumps may suppress volatilization and diffusion of VOCs resulting in false negative or low soil gas concentrations.

6. The presence of contaminants from localized spills or in the ambient air.

7. Movement of soil gas in response to barometric pressure changes.

8. The preferential migration of gas through zones of greater permeability (e.g. natural lithologic variation or back-fill of underground utilities).

9. Soil temperature.

At most sites, many of these factors are unknown or poorly understood. Because of this uncertainty, soil gas sampling should be used in conjunction with other site-specific data.

Appendix B

FIELD ANALYTICAL RESULTS FOR HALOGENATED AND AROMATIC HYDROCARBONS

(INCLUDING CALIBRATION REPORTS, QUALITY CONTROL REPORTS, AND EXPLANATION OF REPORTABLE LIMTS OF QUANTITATION)

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG1-5'	SG1-5'	SG1-5'	SG2-5'	SG3-5'	SG4-5'	SG5-5'	SG6-5'
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			8:45	9:05	9:30	9:51	10:15	10:35	10:54	11:14
INJECTION VOLUME (µl)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			100	200	400	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1	1	1	1	1	1	1	1
REPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	1	1
COMMENTS	RT	ARF	Purge volume test							
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	1.24E+01 1.4	1.25E+01 1.4	1.11E+01 1.3	2.01E+01 2.3	4.69E+01 5.3	5.91E+01 6.7	8.10E+01 9.2
1,1-Dichloroethene	5.68	2.43E+04	1.56E+01 1.3	9.46E+01 7.8	9.93E+01 8.2	1.07E+02 8.8	1.42E+02 12	2.93E+02 24	3.39E+02 28	5.19E+02 43
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	0.00E+00 ND<1	1.85E+01 1.3	1.53E+01 1.1	2.18E+01 1.6	2.57E+01 1.8	4.89E+01 3.5	6.15E+01 4.4	8.57E+01 6.1
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.41E+02 115%	1.10E+02 89%	1.14E+02 93%	1.27E+02 103%	1.26E+02 102%	1.21E+02 98%	1.19E+02 97%	1.18E+02 96%
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	7.32E+00 ND<1	0.00E+00 ND<1	2.17E+01 1.3	2.15E+01 1.3	4.94E+01 2.9
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	8.59E+01 102%	7.56E+01 90%	8.83E+01 105%	7.84E+01 93%	8.15E+01 97%	8.04E+01 96%	7.84E+01 93%	7.95E+01 95%
Toluene	11.60	3.56E+04	1.36E+01 ND<1	2.55E+01 1.4	1.96E+01 1.1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.23E+03 69	7.33E+03 412
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	6.41E+00 ND<1	0.00E+00 ND<1	5.70E+00 ND<1	5.02E+00 ND<1	1.58E+01 1.1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	2.20E+02 15	4.44E+02 30
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	1.11E+01 ND<1	6.98E+00 ND<1	1.41E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	9.60E+02 52	1.69E+03 92
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	2.24E+02 15	2.23E+02 15
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG6-5'	SG7-5'	SG8-5'	SG8-5'	SG13-5'	SG14-5'	SG9-5'	SG10-5'
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			11:33	11:53	12:13	12:31	12:52	13:12	13:35	13:55
INJECTION VOLUME (µl)			100	100	500	200	250	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			5	5	1	2.5	2	1	1	1
REPORTABLE LIMIT (µg/L)			5	5	1	2.5	2	1	1	1
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	8.48E+00 ND<5	0.00E+00 ND<5	1.19E+01 1.3	6.64E+00 ND<2.5	6.54E+00 ND<2	1.27E+01 1.4	2.05E+01 2.3	8.45E+01 10
1,1-Dichloroethene	5.68	2.43E+04	7.17E+01 30	1.24E+01 5.1	2.18E+02 18	9.18E+01 19	6.42E+01 11	2.53E+02 21	1.46E+02 12	6.24E+02 51
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND<5	0.00E+00 ND	8.36E+00 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	6.01E+00 ND<1
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<5	0.00E+00 ND<5	0.00E+00 ND<1	0.00E+00 ND<2.5	0.00E+00 ND<2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	1.27E+01 ND<5	0.00E+00 ND<5	1.01E+02 7.2	3.93E+01 7.0	3.55E+01 5.1	9.46E+00 ND<1	1.14E+01 ND<1	2.41E+01 1.7
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.28E+02 104%	1.14E+02 93%	1.29E+02 105%	1.25E+02 102%	1.19E+02 97%	1.16E+02 94%	1.18E+02 96%	1.21E+02 98%
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<5	0.00E+00 ND<5	4.47E+01 2.6	1.22E+01 ND<2.5	5.04E+00 ND<2	3.79E+01 2.2	8.27E+00 ND<1	5.59E+01 3.3
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	8.37E+01 100%	8.49E+01 101%	8.55E+01 102%	8.08E+01 96%	8.29E+01 99%	8.16E+01 97%	8.63E+01 103%	8.17E+01 97%
Toluene	11.60	3.56E+04	2.40E+03 674	0.00E+00 ND<5	4.25E+03 239 *	1.87E+03 263	2.65E+02 30	1.65E+03 93	3.97E+02 22	1.17E+03 66
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<5	0.00E+00 ND<5	1.57E+01 1	5.80E+00 ND<2.5	6.46E+00 ND<2	1.26E+01 ND<1	0.00E+00 ND<1	1.30E+01 ND<1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	8.62E+01 29	0.00E+00 ND<5	1.75E+02 12	7.44E+01 12	1.34E+01 ND<2	6.38E+01 4.3	1.61E+01 1.1	7.93E+01 5.3
meta- and para-Xylene	14.10	3.69E+04	3.29E+02 89	0.00E+00 ND<5	6.42E+02 35	2.82E+02 38	9.01E+01 10	2.93E+02 16	6.90E+01 3.7	3.49E+02 19
ortho-Xylene	14.90	3.02E+04	4.86E+01 16	0.00E+00 ND<5	9.49E+01 6.3	4.64E+01 7.7	0.00E+00 ND<2	4.52E+01 3	9.38E+00 ND<1	6.00E+01 4
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG11-5'	SG12-5'	SG15-5'	NA	NA	NA	NA	NA
DATE			5/11/01	5/11/01	5/11/01	NA	NA	NA	NA	NA
TIME			14:14	14:35	14:55	NA	NA	NA	NA	NA
INJECTION VOLUME (µl)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	ND	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	4.81E+01 5.4	1.43E+02 16	2.73E+01 3.1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	5.68	2.43E+04	3.84E+02 32	1.12E+03 92	2.36E+02 19	NA NA	NA NA	NA NA	NA NA	NA NA
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	1.26E+01 ND<1	1.01E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	2.36E+01 2.1	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1-Trichloroethane	8.40	2.81E+04	5.65E+00 ND<1	2.21E+01 1.6	1.81E+01 1.3	NA NA	NA NA	NA NA	NA NA	NA NA
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.17E+02 95%	1.08E+02 88%	1.13E+02 92%	NA NA	NA NA	NA NA	NA NA	NA NA
Trichloroethene	9.73	3.39E+04	6.69E+01 3.9	2.35E+02 14	1.60E+02 9.4	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.78E+01 93%	7.48E+01 89%	7.71E+01 92%	NA NA	NA NA	NA NA	NA NA	NA NA
Toluene	11.60	3.56E+04	8.81E+02 49	6.08E+01 3.4	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	2.02E+01 1.3	1.10E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Ethylbenzene	14.00	3.00E+04	3.93E+01 2.6	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
meta- and para-Xylene	14.10	3.69E+04	1.69E+02 9.2	1.50E+01 ND<1	2.11E+01 1.1	NA NA	NA NA	NA NA	NA NA	NA NA
ortho-Xylene	14.90	3.02E+04	2.53E+01 1.7	0.00E+00 ND<1	1.31E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-2

QUALITY ASSURANCE/QUALITY CONTROL REPORT
SUBJECT SITE, CALIFORNIA

1928-4-051101

PID/ELCD #4

TARGET COMPOUNDS		January 8, 2001										May 11, 2001				
		INITIAL CALIBRATION							LCS			MID-POINT			LAST RUN	
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (µL)		0.50	1.00	2.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17.4	31.5	65.7	147	372			33.4							
CF		6.96E+03	6.30E+03	6.57E+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31.1	60.3	136	260	568			61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1.14E+04	1.25E+04	7	1.22E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Chloroethane	4.65	26.8	62.7		299	567			63							
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
Trichlorofluoromethane	4.98	54.0	109	212	456	1011			111							
CF		2.16E+04	2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	4	2.22E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,2-Trichloro-trifluoroethane	5.43	43.9	87.0	169	373	893			92			87				
CF		1.76E+04	1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.84E+04	4	ND	1.74E+04	-2	ND	0.00E+00	NA
1,1-Dichloroethene	5.68	64.7	124	241	485	1132			124			121				
CF		2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	2	ND	2.42E+04	0	ND	0.00E+00	NA
Methylene chloride	6.18	71.3	146	269	556	1264			141							
CF		2.85E+04	2.92E+04	2.69E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			125				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.50E+04	0	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	76.6	138	259	511	1138			123			137				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.74E+04	3	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			112				
CF		2.26E+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.24E+04	-3	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF		3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302			141			142				
CF		2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.84E+04	1	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1268			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			188			192				
CF		4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	ND	3.84E+04	2	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	114	184	353	685	1383			179			199				
CF		4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.98E+04	11	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					136		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA	111	0.00E+00	NA
Trichloroethene	9.73	101.0	173	333	637	1469			162			163				
CF		4.04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.24E+04	-4	ND	3.26E+04	-4	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)		42.2	86	164					0					78		
CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0.00E+00	ND	93	0.00E+00	NA
Toluene (PID)	11.6	95.9	188	332	689	1711			175			162				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.56E+04	6	3.50E+04	-2	ND	3.24E+04	-9	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66.1	128	260	546	1278			137			129				
CF		2.64E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.61E+04	3	2.74E+04	5	ND	2.58E+04	-1	ND	0.00E+00	NA
Tetrachloroethene	12.7	82.3	141	303	624	1380			153			155				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	3.10E+04	3	ND	0.00E+00	NA
1,1,1,2-Tetrachloroethane	14.0	77.3	144	306	627	1389			160							
CF		3.09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535			148			154				
CF		3.11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	3.08E+04	3	ND	0.00E+00	NA
meta-and para-Xylene (PID)	14.1	187	375	711	1510	3634			372			367				
CF		3.74E+04	3.75E+04	3.56E+04	3.78E+04	3.63E+04	3.69E+04	3	3.72E+04	1	ND	3.67E+04	-1	ND	0.00E+00	NA
ortho-Xylene (PID)	14.9	76.2	153	289	611	1515			147			136				
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	ND	2.72E+04	-10	ND	0.00E+00	NA
1,1,2,2-Tetrachloroethane	15.8	68.8	143	276	590	1393			149							
CF		2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	3	2.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA

LCS = Laboratory Control Sample
ug/L = Micrograms per Liter
uL = Microliters
ug = Microgram
RT = Retention Time

ARF = Average Response Factor
%RSD = Percent Relative Standard Deviation
RPD = Relative Percent Difference
%REC = Percent Recovery
5000 mg/L 25 VOC STD :Lot #B0060319
5000 mg/L 25 VOC LCS :Lot #B0060322

CF = Calibration Factor
ND = Not Detected
NA = Not Applicable
PID = Photo-Ionization Detector
40000 mg/L 25 VOC STD :Lot # B0060319

ANALYST: Darren McNamee

REVIEWED BY: Duy Ma

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051401

SAMPLE ID			SG16-5'	SG17-5'	SG18-5'	SG19-5'	SG20-5'	SG21-5'	SG22-5'	SG23-5'
DATE			5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01
TIME			7:12	7:33	7:53	8:16	8:35	8:55	9:14	9:33
INJECTION VOLUME (µl)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	4	ND	ND
DILUTION FACTOR			1	1	1	1	1	1	1	1
REPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	1	1
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	0.00E+00 ND<1	9.53E+00 1.1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1-Dichloroethene	5.68	2.43E+04	1.56E+01 1.3	0.00E+00 ND<1	1.01E+02 8.3	1.82E+01 1.5	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.79E+01 1.5
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	5.10E+00 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	1.11E+01 ND<1	1.01E+01 ND<1	1.89E+01 1.3	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	9.75E+01 79%	1.09E+02 89%	1.14E+02 93%	1.14E+02 93%	1.13E+02 92%	1.18E+02 96%	1.17E+02 95%	1.19E+02 97%
Trichloroethene	9.73	3.39E+04	2.12E+01 1.3	0.00E+00 ND<1	5.11E+01 3	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.83E+01 93%	7.59E+01 90%	7.73E+01 92%	7.34E+01 87%	7.27E+01 87%	7.50E+01 89%	7.43E+01 88%	8.25E+01 98%
Toluene	11.60	3.56E+04	0.00E+00 ND<1	0.00E+00 ND<1	2.20E+01 1.2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	1.10E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.67E+01 1.2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	0.00E+00 ND<1	6.54E+01 3.5	1.01E+02 5.5	2.69E+01 1.5	1.06E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	0.00E+00 ND<1	3.08E+01 2	2.16E+01 1.4	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051401

SAMPLE ID			SG24-5'	SG25-5'	SG26-5'	NA	NA	NA	NA	NA
DATE			5/14/01	5/14/01	5/14/01	NA	NA	NA	NA	NA
TIME			9:53	10:12	10:31	NA	NA	NA	NA	NA
INJECTION VOLUME (µl)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	ND	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	5.68	2.43E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1-Trichloroethane	8.40	2.81E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.19E+02 97%	1.25E+02 102%	1.17E+02 95%	NA NA	NA NA	NA NA	NA NA	NA NA
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.61E+01 91%	7.93E+01 94%	7.46E+01 89%	NA NA	NA NA	NA NA	NA NA	NA NA
Toluene	11.60	3.56E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	2.41E+01 1.6	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	1.22E+02 6.6	8.69E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	3.54E+01 2.3	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Ma

TABLE B-2

QUALITY ASSURANCE/QUALITY CONTROL REPORT
SUBJECT SITE, CALIFORNIA

PID/ELCD #4 — 1928-4-051401

TARGET COMPOUNDS		January 8, 2001										May 14, 2001				
		INITIAL CALIBRATION							LCS			MID-POINT			LAST RUN	
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (µL)		0.50	1.00	2.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17.4	31.5	65.7	147	372			33.4							
CF		6.96E+03	6.30E+03	6.57E+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31.1	60.3	136	260	568			61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1.14E+04	1.25E+04	7	1.22E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Chloroethane	4.65	26.8	62.7		299	567			63							
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
Trichlorofluoromethane	4.98	54.0	109	212	456	1011			111							
CF		2.16E+04	2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	4	2.22E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,2-Trichloro-trifluoroethane	5.43	43.9	87.0	169	373	893			92			83				
CF		1.76E+04	1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.84E+04	4	ND	1.66E+04	-6	ND	0.00E+00	NA
1,1-Dichloroethene	5.68	64.7	124	241	485	1132			124			110				
CF		2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	2	ND	2.20E+04	-9	ND	0.00E+00	NA
Methylene chloride	6.18	71.3	146	269	556	1264			141							
CF		2.85E+04	2.92E+04	2.69E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			118				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.38E+04	-3	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	76.6	138	259	511	1138			123			130				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.60E+04	-2	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			105				
CF		2.26E+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.10E+04	-9	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF		3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302			141			131				
CF		2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.62E+04	-7	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1288			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			188			172				
CF		4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	ND	3.44E+04	-9	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	114	184	353	685	1383			179			170				
CF		4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.40E+04	-5	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					115		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA	93%	0.00E+00	NA
Trichloroethene	9.73	101.0	173	333	637	1469			162			168				
CF		4.04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.24E+04	-4	ND	3.36E+04	-1	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)		42.2	86	164					0					75		
CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0.00E+00	NA	89%	0.00E+00	NA
Toluene (PID)	11.6	95.9	188	332	689	1711			175			165				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.56E+04	6	3.50E+04	-2	ND	3.30E+04	-7	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66.1	126	260	546	1276			137			113				
CF		2.64E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.61E+04	3	2.74E+04	5	ND	2.26E+04	-13	ND	0.00E+00	NA
Tetrachloroethene	12.7	82.3	141	303	624	1380			153			133				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	2.66E+04	-11	ND	0.00E+00	NA
1,1,1,2-Tetrachloroethane	14.0	77.3	144	306	627	1389			160							
CF		3.09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535			148			143				
CF		3.11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	2.86E+04	-5	ND	0.00E+00	NA
meta-and para-Xylene (PID)	14.1	187	375	711	1510	3834			372			349				
CF		3.74E+04	3.75E+04	3.56E+04	3.78E+04	3.83E+04	3.69E+04	3	3.72E+04	1	ND	3.49E+04	-5	ND	0.00E+00	NA
ortho-Xylene (PID)	14.9	76.2	153	289	611	1515			147			149				
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	ND	2.98E+04	-1	ND	0.00E+00	NA
1,1,2,2-Tetrachloroethane	15.8	68.8	143	276	590	1393			149							
CF		2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	3	2.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA

LCS = Laboratory Control Sample
ug/L = Micrograms per Liter
uL = Microliters
ug = Microgram
RT = Retention Time

ARF = Average Response Factor
%RSD = Percent Relative Standard Deviation
RPD = Relative Percent Difference
%REC = Percent Recovery
5000 mg/L 25 VOC STD :Lot #B0060319
5000 mg/L 25 VOC LCS :Lot #B0060322

CF = Calibration Factor
ND = Not Detected
NA = Not Applicable
PID = Photo-ionization Detector
40000 mg/L 25 VOC STD :Lot # B0060319

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-3

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
SOIL GAS SURVEYS

REPORTABLE LIMITS OF QUANTITATION FOR HALOGENATED AND AROMATIC HYDROCARBONS

The Reportable Limit of Quantitation for Halogenated and Aromatic Hydrocarbons is 1 µg/L when the injection volume is 500 µL. Reportable limits for lesser injection volumes are listed below.

Injection Volume (µL)	Reportable Limit (µg/L)
500	1.0
250	2.0
200	2.5
100	5.0
80	6.3
60	8.3
50	10.0
40	12.5
20	25.0
10	50.0
5	100.0
1	500.0

Appendix C

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

SOIL GAS SURVEYING

STANDARD METHODS AND PROCEDURES FOR INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
23276 Del Lago Drive
Laguna Hills, California 92653
(949) 457-9664
Fax (949) 457-0664

2001

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

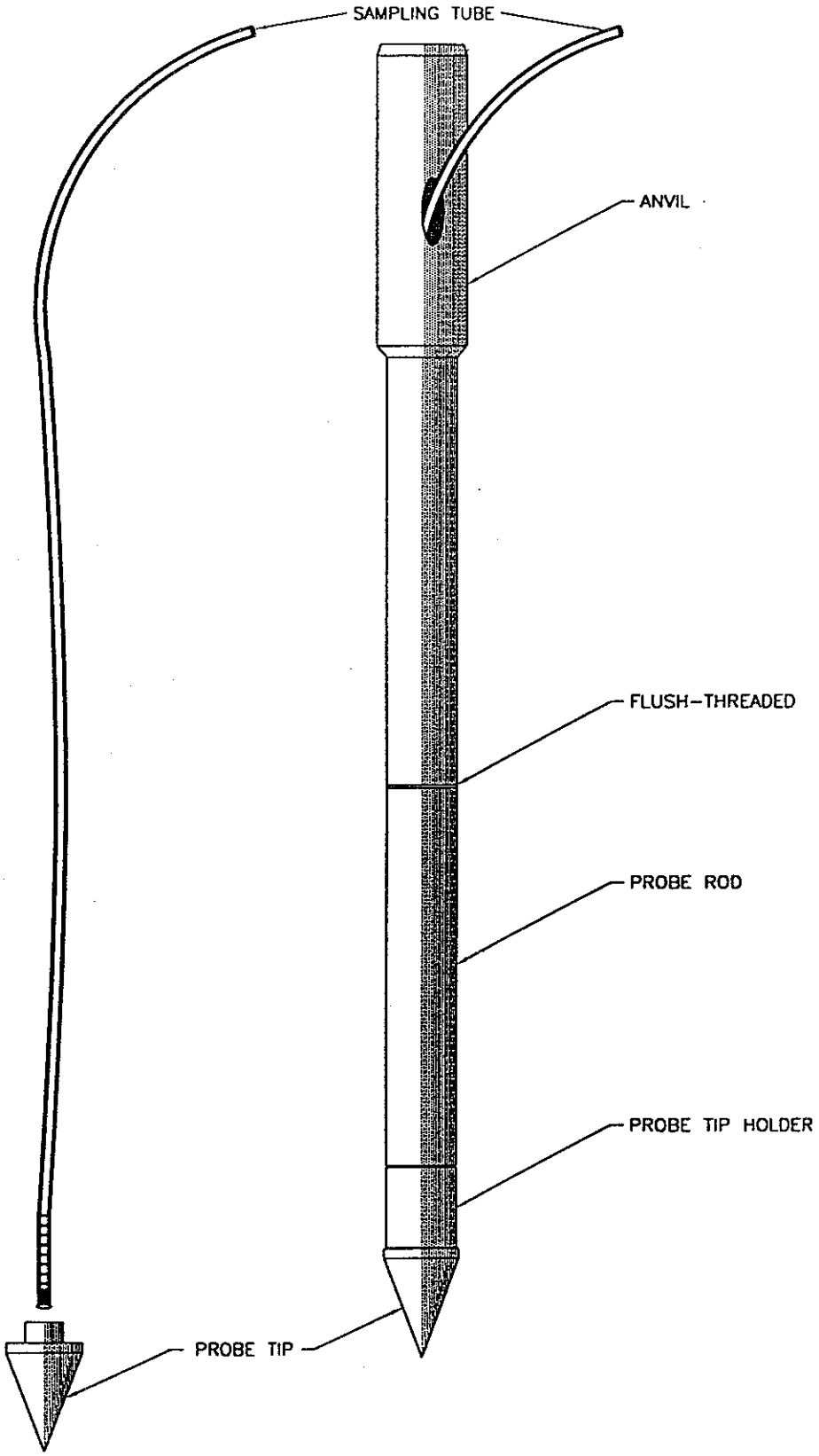
This section describes EST's standard methods and procedures for conducting soil gas surveys. Procedures may be modified based on evaluation of specific project needs. EST will perform soil gas surveys in general accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

Soil gas sampling probes will be installed using either a percussion hammer or hydraulic ram. Once a probe is installed to the desired depth, the 1.25-inch diameter hollow probe drive-rods are withdrawn, leaving a steel probe point and Nylaflow™ sampling tube in the subsurface. Clean, graded (No. 3), kiln dried, Lonestar Monterey sand will be poured around the perforated section of Nylaflow™ sample tubing to allow for diffusion of soil vapors. Approximately 6-inches of granular bentonite will be added above the sand pack and hydrated. The remaining annulus will be filled with cement mortar/bentonite grout to slightly below grade. Construction details of a typical soil gas sampling probe are shown in Figure 1.

Soil gas samples will be collected from the driven probes using the soil gas sampling system as shown in Figure 2. The soil gas sampling system is constructed of stainless steel, glass, Nylaflow™, and Teflon™ components. Instrumentation associated with the sampling system includes a calibrated flow meter and vacuum gauge. Vacuum integrity of the sampling system will be tested prior to, and after the soil gas survey using leak-down testing methods. Site-specific probe purging and sample volume calibrations will be initially performed to evaluate the appropriate volume of gas to be purged from each probe prior to sample collection. This will be done by performing time-series sampling of at least one probe to evaluate trends in soil gas concentrations as a function of purge volume. After probe purging, soil gas samples will be withdrawn from the moving sample stream using a glass syringe fitted with a disposable needle and Mininert™ gas-tight valve. Soil gas samples will be analyzed, immediately following collection, by direct gas injection into a laboratory-grade, field-operable gas chromatograph (GC).

When soil gas sampling is completed, the Nylaflow™ tubing can either be removed or can remain in-place for subsequent sampling. If the abandonment method requires tube removal, the sample tubing will be removed and the remaining void will be filled with a fluid bentonite slurry until slightly below grade. The remaining depression will be filled with concrete patch material and finished flush with grade. If it is desired to leave the tubing in-place, the Nylaflow™ sample tubing will be plugged with a sheet metal screw, folded over, and pushed down-hole until slightly below grade. The remaining depression will be filled with concrete mortar and finished flush with grade. The probe point and sample tubing will remain as a long-term soil gas monitoring point, unless otherwise specified by the client prior to entering the field.



DEDICATED PORTION OF PROBE

NOTE: NOT TO SCALE

FIGURE 1

SOIL GAS SAMPLING PROBE

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
LAGUNA HILLS, CALIFORNIA

DRAWN BY: JST SCALE: NOT TO SCALE DATE: 1-3-00

MKTG-01.DWG

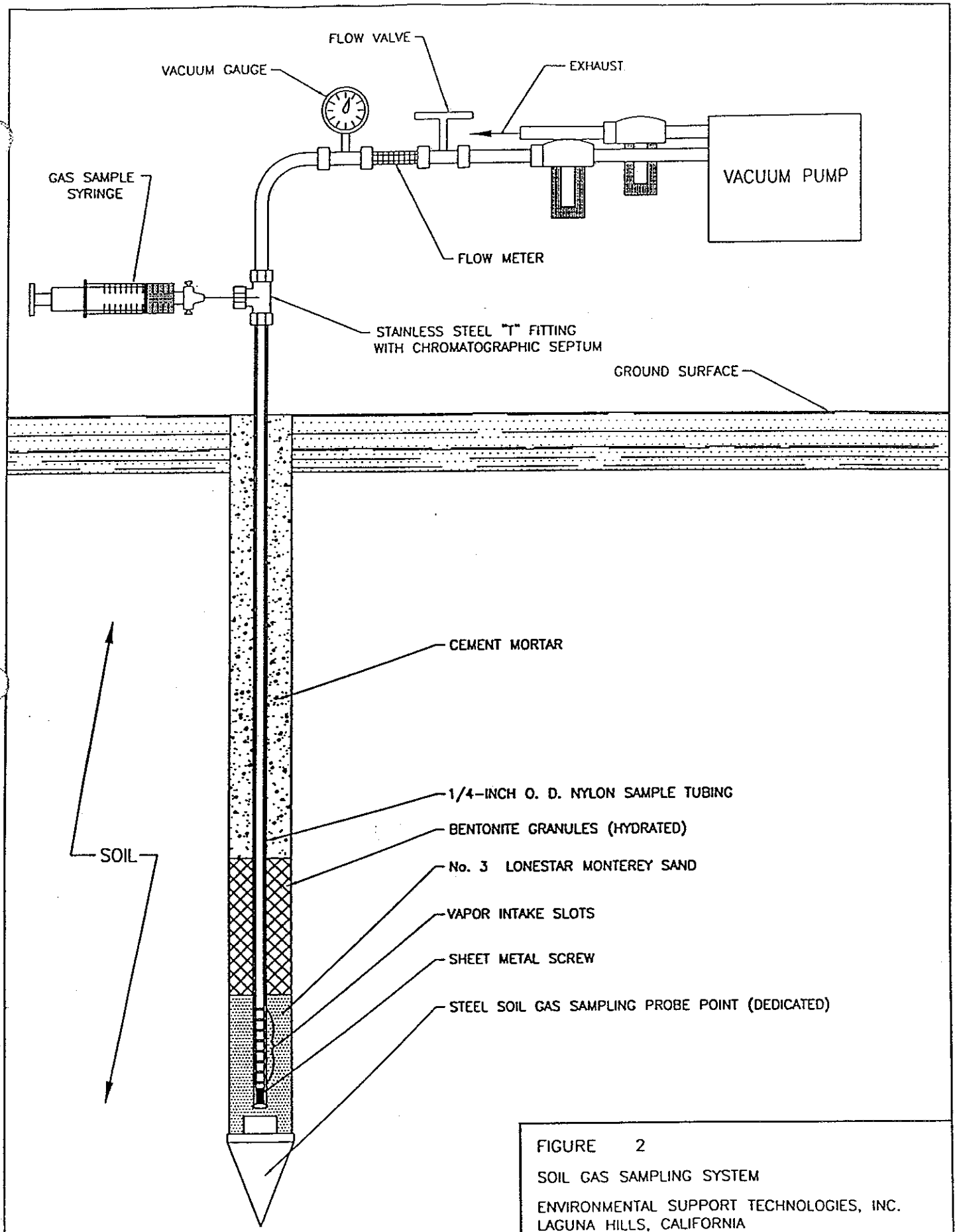


FIGURE 2

SOIL GAS SAMPLING SYSTEM

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
LAGUNA HILLS, CALIFORNIA

DRAWN BY: JST SCALE: NOT TO SCALE DATE: 3-29-99

MKTG-02.DWG

SAMPLE ANALYSIS OF HALOGENATED AND AROMATIC HYDROCARBONS

Soil gas samples will be analyzed in the field using a field-operable GC equipped with a photoionization detector (PID) and an electrolytic conductivity detector (ELCD). The PID and ELCD will be configured in-series to analyze for twenty-five (25) target compounds (halogenated and aromatic hydrocarbons) as specified in the LARWQCB requirements (February 25, 1997).

Detection limits for the LARWQCB target compounds will be no more than one microgram per liter (µg/L) of gas except when compound concentrations exceed the initial calibration range. When this occurs, the sample must be diluted (smaller sample injection volume), which results in raised detection limits for the analysis.

Soil gas samples may be analyzed for other constituents on a site-specific basis. A series of quality assurance/quality control (QA/QC) analyses will be performed prior to, during, and following the analysis of soil gas samples. A summary of these QA/QC analyses is shown in Table 1 and each are described below.

SURROGATE COMPOUNDS

Two (2) surrogate compounds will be added to all analyzed samples. Surrogate compound concentrations will be within the calibration range. The percent recovery of the surrogate compounds will be calculated and reported with soil gas sample results. The acceptance goal for surrogate recovery is ±25 percent difference from the true concentration of the surrogate compounds. Surrogate compounds added to each sample analysis run will include Fluorobenzene (PID) and cis-1, 3-Dichloropropene (PID and ELCD), each at a true concentration of 5,000 µg/L.

INITIAL MULTI-POINT EQUIPMENT CALIBRATION

The GC used for soil gas analysis will be calibrated using high-purity solvent-based standards obtained from certified vendors. Standards are typically prepared in high-purity methanol or dodecane solvent. Calibration using solvent-based standards will typically be performed using varying injection volumes of the stock solvent-based standard without dilution. If necessary, stock solvent-based standards will be diluted to an appropriate concentration. Diluted standards will be prepared by introducing a known volume of stock solvent-based standard into a known volume of high-purity solvent.

Initial GC calibration will be performed for EPA Method 8021 compounds. The GC will be calibrated using varying standard injections to establish a multi-point calibration curve. The lowest standard will not be higher than five times the method detection limit (5 µg/L). The percent relative standard deviation (%RSD) of the response factor (RF) for each target compound will not exceed 20 percent except for Trichlorofluoromethane (Freon™-11), Dichlorodifluoromethane (Freon™-12), Trichlorotrifluoroethane (Freon™ -113), Chloroethane (CE), and Vinyl Chloride (VC) which will not exceed 30% RSD. Identification and quantitation of compounds in the field will be based on calibration under the same analytical conditions as for multi-point calibration.

TABLE 1

SUMMARY OF
QUALITY ASSURANCE/QUALITY CONTROL ANALYSES
FOR SOIL GAS SURVEYS

File: SGSQAQCt1

CALIBRATION AND LABORATORY CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL
INITIAL MULTI-POINT CALIBRATION (25 Target Compounds)	At the beginning of the soil gas survey, unless the RPDs of the initial laboratory check sample or daily mid-point calibration check samples exceed their goals.	20, 30 %RSD (1)
INITIAL LABORATORY CONTROL SAMPLE (LCS) (25 Target Compounds)	At the beginning of the survey, following the initial multi-point calibration.	±15, ±25 RPD (2)
DAILY MID-POINT CALIBRATION CHECK (12 Target Compounds)	At the beginning of each day (unless an initial multi-point calibration was performed).	±15, ±25 RPD (3)
LAST GC TEST RUN	At the end of the day if all samples from that day of analysis show non-detect (ND) results.	At least 50 % recovery (4)
FIELD CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL
BACKGROUND SAMPLE (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery of surrogate compounds
SYRINGE BLANK (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery of surrogate compounds

%RSD = Percent Relative Standard Deviation calculated based on the initial multi-point calibration.

RPD = Relative Percent Difference between the response factor obtained from the LCS, the daily mid-point calibration, and the average response factor initially calculated based on the multi-point calibration.

µg/L = Micrograms per liter

(1) The %RSD goal for the initial multi-point calibration will be 20 percent for all compounds except for Dichlorodifluoromethane (Freon™-11), Vinyl Chloride (VC), Chloroethane (CE), Trichlorofluoromethane (Freon™-12), and 1,1,2-Trichloro-Trifluoroethane (Freon™-113) for which the %RSD goal is 30 percent.

(2) The RPD goal for the initial laboratory control standard will be ±15 percent for all compounds except for Freon™-11, Vinyl Chloride, Chloroethane, Freon™-12, Freon™-113 for which the RPD goal is ±25 percent.

(3) The RPD goal for the daily mid-point calibration check will be ±15 percent for all compounds except for Freon™-11, Vinyl Chloride, Chloroethane, Freon™-12, Freon™-113 for which the RPD goal is ±25 percent.

(4) A LCS at the detection limit concentration is analyzed. The recovery for each compound must be at least 50 percent.

(5) A syringe/background sample will be analyzed using ambient air. If volatile organic compounds (VOCs) are not detected, the ambient air sample will represent the background sample and syringe blank. If VOCs are detected in the ambient air sample, a syringe blank will be analyzed using ultra-high-purity helium or nitrogen gas.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) from a source other than the initial calibration standard will be used to verify the true concentration of the initial calibration standard. The LCS will include the LARWQCB target compounds and the RF for each compound will be within ±15 percent difference from the initial calibration.

DAILY MID-POINT CALIBRATION CHECK

Daily field calibration of the GC will consist of a mid-point calibration analysis using the same standard as used for the initial multi-point calibration. The daily mid-point calibration check will include the 12 target compounds as specified in the previously referenced LARWQCB requirements. The RF of each compound (except for Freon™-11, -12, and -113, CE, and VC) will be within 15 percent difference of the average RF from the initial calibration. The RF for Freon™-11, -12, and -113, CE, and VC will be within 25 percent difference of the initial calibration. If these criteria are not met, the GC will be re-calibrated.

Daily calibration will be performed prior to the first sample analysis of the day. One-point calibration will be performed for all compounds detected at a particular site to ensure accurate quantitation. Subsequent calibration episodes, if deemed necessary, will consist of at least one injection of the standard exhibiting a similar detector response as that of samples encountered in the field.

END OF DAY GC TEST RUN

A LCS will be analyzed at the end of the day should soil gas samples not contain detectable concentrations of halogenated or aromatic hydrocarbons. The LCS will contain the same compounds as the daily mid-point calibration standard (minimum 12 compounds). The LCS will be from a second source independent from the initial multi-point calibration standard. The RF for each compound will be within 20 percent difference of the average RF for the initial calibration. If these criteria are not met, an additional LCS will be analyzed to satisfy these criteria.

BLANK INJECTIONS

The syringes used for soil gas sample collection will be filled with ambient air or high-purity carrier-grade gas from a compressed gas cylinder. The ambient air or high-purity gas will be injected directly into the GC. The blank injection will serve to detect contamination of the syringe to be used for sampling and verify the effectiveness of equipment decontamination procedures.

DECONTAMINATION PROCEDURES

Probes and equipment in contact with the soil gas sample stream will be decontaminated prior to initiation of sampling. Decontamination of soil gas sampling equipment will be conducted by repeated washing and/or by baking in the gas chromatograph oven. Washing will include the use of a phosphate-free detergent wash, tap water rinse, and organic-free water rinse. The equipment will be allowed to air-dry following final rinsing.

SHORTENING THE GC RUN TIME

Shortening the GC run time is acceptable only if the chemist feels that doing so will not sacrifice the quality of data obtained. If this is recommended by the chemist, appropriate client and agency approval will be obtained prior to initiating such change.

REPORTING OF SAMPLE RESULTS AND QA/QC INFORMATION

Reporting of sample results and QA/QC information will be performed in accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

SOIL GAS SURVEY REPORTS

Following completion of a soil gas survey, Environmental Support Technologies, Inc. will prepare a Soil Gas Survey Report. Typically, this report will include:

- Soil gas concentrations in tabular form;
- Laboratory analytical data and Quality Assurance/Quality Control data.
- A description of EST's standard sampling and analysis methods used for soil gas surveying.

Appendix J

Laboratory Reports

Calscience Environmental Laboratories, Inc.

RECEIVED
JUN 05 2001
ARCADIS Geraghty & Miller

May 30, 2001

Reinhard Ruhmke
ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Subject: **Calscience Work Order No.:** **01-05-1251**
Client Reference: **BAE Systems**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/25/01 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Marycarol Valenzuela
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-4-5	01-05-1251-1	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 4:51:25 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	0.756	0.750	1		mg/kg	Molybdenum	0.629	0.250	1		mg/kg
Barium	77.5	0.5	1		mg/kg	Nickel	11.6	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	7.29	0.25	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	5.10	0.25	1		mg/kg	Vanadium	20.6	0.2	1		mg/kg
Copper	14.2	0.5	1		mg/kg	Zinc	25.5	1.0	1		mg/kg
Lead	2.52	0.50	1		mg/kg						

SB-5A-1	01-05-1251-10	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 4:42:20 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	0.976	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	80.2	0.5	1		mg/kg	Nickel	8.44	0.25	1		mg/kg
Beryllium	0.264	0.250	1		mg/kg	Selenium	1.08	0.75	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	14.7	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.29	0.25	1		mg/kg	Vanadium	27.0	0.2	1		mg/kg
Copper	9.62	0.50	1		mg/kg	Zinc	24.8	1.0	1		mg/kg
Lead	2.12	0.50	1		mg/kg						

SB-5-5	01-05-1251-11	05/25/01	Solid	05/29/01	05/30/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 4:54:27 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	71.2	0.5	1		mg/kg	Nickel	8.98	0.25	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	14.3	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.84	0.25	1		mg/kg	Vanadium	28.5	0.2	1		mg/kg
Copper	6.80	0.50	1		mg/kg	Zinc	23.7	1.0	1		mg/kg
Lead	3.03	0.50	1		mg/kg						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-6-1	01-05-1251-15	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 4:57:30 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	2.17	0.75	1		mg/kg	Molybdenum	0.267	0.250	1		mg/kg
Barium	79.3	0.5	1		mg/kg	Nickel	12.0	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	13.2	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	5.27	0.25	1		mg/kg	Vanadium	28.4	0.2	1		mg/kg
Copper	8.48	0.50	1		mg/kg	Zinc	37.5	1.0	1		mg/kg
Lead	15.1	0.5	1		mg/kg						

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-6-5	01-05-1251-16	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 5:00:33 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.34	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	68.9	0.5	1		mg/kg	Nickel	7.74	0.25	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	13.0	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.03	0.25	1		mg/kg	Vanadium	26.7	0.2	1		mg/kg
Copper	6.23	0.50	1		mg/kg	Zinc	22.8	1.0	1		mg/kg
Lead	2.26	0.50	1		mg/kg						

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-7-1	01-05-1251-20	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 5:03:36 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	4.51	0.75	1		mg/kg	Molybdenum	0.425	0.250	1		mg/kg
Barium	85.2	0.5	1		mg/kg	Nickel	15.5	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	1.44	0.75	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	12.4	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.38	0.25	1		mg/kg	Vanadium	32.8	0.2	1		mg/kg
Copper	7.65	0.50	1		mg/kg	Zinc	42.4	1.0	1		mg/kg
Lead	63.7	0.5	1		mg/kg						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-7-5	01-05-1251-21	05/25/01	Solid	05/29/01	05/29/01	010529lcs3

Comment(s): Mercury was analyzed on 5/29/01 5:42:24 PM with batch 010529lcs1

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.10	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	72.2	0.5	1		mg/kg	Nickel	7.26	0.25	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	12.0	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.23	0.25	1		mg/kg	Vanadium	24.1	0.2	1		mg/kg
Copper	6.58	0.50	1		mg/kg	Zinc	23.2	1.0	1		mg/kg
Lead	2.41	0.50	1		mg/kg						

Method Blank	099-04-007-978	N/A	Solid	05/29/01	05/29/01	010529lcs1

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.0835	1		mg/kg

Method Blank	097-01-002-2,449	N/A	Solid	05/29/01	05/29/01	010529lcs3

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel	ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver	ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium	ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc	ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller	Date Sampled:	05/25/01
1400 North Harbor Blvd., Suite 700	Date Received:	05/25/01
Fullerton, CA 92835-4127	Date Analyzed:	05/29/01
	Work Order No.:	01-05-1251
Attn: Reinhard Ruhmke	Method:	EPA 7199/3060A
RE: BAE Systems	Page 1 of 1	

All concentrations are reported in ug/kg (ppb).

Sample Number	Hexavalent Chromium Concentration	Reporting Limit
SB-3-10	95	40
SB-3A-13	150	40
Method Blank	ND	40

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-4-5	01-05-1251-1	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	18	0.92		ug/kg	1,3-Dichloropropane	ND	0.92	0.92		ug/kg
Benzene	ND	0.92	0.92		ug/kg	2,2-Dichloropropane	ND	4.6	0.92		ug/kg
Bromobenzene	ND	0.92	0.92		ug/kg	1,1-Dichloropropene	ND	1.8	0.92		ug/kg
Bromochloromethane	ND	1.8	0.92		ug/kg	c-1,3-Dichloropropene	ND	0.92	0.92		ug/kg
Bromodichloromethane	ND	0.92	0.92		ug/kg	t-1,3-Dichloropropene	ND	1.8	0.92		ug/kg
Bromoform	ND	4.6	0.92		ug/kg	Ethylbenzene	ND	0.92	0.92		ug/kg
Bromomethane	ND	4.6	0.92		ug/kg	2-Hexanone	ND	18	0.92		ug/kg
2-Butanone	ND	18	0.92		ug/kg	Isopropylbenzene	ND	0.92	0.92		ug/kg
n-Butylbenzene	ND	0.92	0.92		ug/kg	p-Isopropyltoluene	ND	0.92	0.92		ug/kg
sec-Butylbenzene	ND	0.92	0.92		ug/kg	Methylene Chloride	ND	9.2	0.92		ug/kg
tert-Butylbenzene	ND	0.92	0.92		ug/kg	4-Methyl-2-Pentanone	ND	18	0.92		ug/kg
Carbon Disulfide	ND	9.2	0.92		ug/kg	Naphthalene	ND	9.2	0.92		ug/kg
Carbon Tetrachloride	ND	0.92	0.92		ug/kg	n-Propylbenzene	ND	0.92	0.92		ug/kg
Chlorobenzene	ND	0.92	0.92		ug/kg	Styrene	ND	0.92	0.92		ug/kg
Chloroethane	ND	1.8	0.92		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.92	0.92		ug/kg
Chloroform	ND	0.92	0.92		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.8	0.92		ug/kg
Chloromethane	ND	0.92	0.92		ug/kg	Tetrachloroethene	ND	0.92	0.92		ug/kg
2-Chlorotoluene	ND	0.92	0.92		ug/kg	Toluene	ND	0.92	0.92		ug/kg
4-Chlorotoluene	ND	0.92	0.92		ug/kg	1,2,3-Trichlorobenzene	ND	1.8	0.92		ug/kg
Dibromochloromethane	ND	1.8	0.92		ug/kg	1,2,4-Trichlorobenzene	ND	1.8	0.92		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.6	0.92		ug/kg	1,1,1-Trichloroethane	ND	0.92	0.92		ug/kg
1,2-Dibromoethane	ND	0.92	0.92		ug/kg	1,1,2-Trichloroethane	ND	0.92	0.92		ug/kg
Dibromomethane	ND	0.92	0.92		ug/kg	Trichloroethene	ND	1.8	0.92		ug/kg
1,2-Dichlorobenzene	ND	0.92	0.92		ug/kg	Trichlorofluoromethane	ND	9.2	0.92		ug/kg
1,3-Dichlorobenzene	ND	0.92	0.92		ug/kg	1,2,3-Trichloropropane	ND	1.8	0.92		ug/kg
1,4-Dichlorobenzene	ND	0.92	0.92		ug/kg	1,2,4-Trimethylbenzene	ND	1.8	0.92		ug/kg
Dichlorodifluoromethane	ND	1.8	0.92		ug/kg	1,3,5-Trimethylbenzene	ND	1.8	0.92		ug/kg
1,1-Dichloroethane	ND	0.92	0.92		ug/kg	Vinyl Acetate	ND	9.2	0.92		ug/kg
1,2-Dichloroethane	ND	0.92	0.92		ug/kg	Vinyl Chloride	ND	0.92	0.92		ug/kg
1,1-Dichloroethene	ND	0.92	0.92		ug/kg	p/m-Xylene	ND	1.8	0.92		ug/kg
c-1,2-Dichloroethene	ND	0.92	0.92		ug/kg	o-Xylene	ND	0.92	0.92		ug/kg
t-1,2-Dichloroethene	ND	0.92	0.92		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.92		ug/kg
1,2-Dichloropropane	ND	0.92	0.92		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	93	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-4-10	01-05-1251-2	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	19	0.93		ug/kg	1,3-Dichloropropane	ND	0.93	0.93		ug/kg
Benzene	ND	0.93	0.93		ug/kg	2,2-Dichloropropane	ND	4.6	0.93		ug/kg
Bromobenzene	ND	0.93	0.93		ug/kg	1,1-Dichloropropene	ND	1.9	0.93		ug/kg
Bromochloromethane	ND	1.9	0.93		ug/kg	c-1,3-Dichloropropene	ND	0.93	0.93		ug/kg
Bromodichloromethane	ND	0.93	0.93		ug/kg	t-1,3-Dichloropropene	ND	1.9	0.93		ug/kg
Bromoform	ND	4.6	0.93		ug/kg	Ethylbenzene	ND	0.93	0.93		ug/kg
Bromomethane	ND	4.6	0.93		ug/kg	2-Hexanone	ND	19	0.93		ug/kg
2-Butanone	ND	19	0.93		ug/kg	Isopropylbenzene	ND	0.93	0.93		ug/kg
n-Butylbenzene	ND	0.93	0.93		ug/kg	p-Isopropyltoluene	ND	0.93	0.93		ug/kg
sec-Butylbenzene	ND	0.93	0.93		ug/kg	Methylene Chloride	ND	9.3	0.93		ug/kg
tert-Butylbenzene	ND	0.93	0.93		ug/kg	4-Methyl-2-Pentanone	ND	19	0.93		ug/kg
Carbon Disulfide	ND	9.3	0.93		ug/kg	Naphthalene	ND	9.3	0.93		ug/kg
Carbon Tetrachloride	ND	0.93	0.93		ug/kg	n-Propylbenzene	ND	0.93	0.93		ug/kg
Chlorobenzene	ND	0.93	0.93		ug/kg	Styrene	ND	0.93	0.93		ug/kg
Chloroethane	ND	1.9	0.93		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.93	0.93		ug/kg
Chloroform	ND	0.93	0.93		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.9	0.93		ug/kg
Chloromethane	ND	0.93	0.93		ug/kg	Tetrachloroethene	ND	0.93	0.93		ug/kg
2-Chlorotoluene	ND	0.93	0.93		ug/kg	Toluene	ND	0.93	0.93		ug/kg
4-Chlorotoluene	ND	0.93	0.93		ug/kg	1,2,3-Trichlorobenzene	ND	1.9	0.93		ug/kg
Dibromochloromethane	ND	1.9	0.93		ug/kg	1,2,4-Trichlorobenzene	ND	1.9	0.93		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.6	0.93		ug/kg	1,1,1-Trichloroethane	ND	0.93	0.93		ug/kg
1,2-Dibromoethane	ND	0.93	0.93		ug/kg	1,1,2-Trichloroethane	ND	0.93	0.93		ug/kg
Dibromomethane	ND	0.93	0.93		ug/kg	Trichloroethene	ND	1.9	0.93		ug/kg
1,2-Dichlorobenzene	ND	0.93	0.93		ug/kg	Trichlorofluoromethane	ND	9.3	0.93		ug/kg
1,3-Dichlorobenzene	ND	0.93	0.93		ug/kg	1,2,3-Trichloropropane	ND	1.9	0.93		ug/kg
1,4-Dichlorobenzene	ND	0.93	0.93		ug/kg	1,2,4-Trimethylbenzene	ND	1.9	0.93		ug/kg
Dichlorodifluoromethane	ND	1.9	0.93		ug/kg	1,3,5-Trimethylbenzene	ND	1.9	0.93		ug/kg
1,1-Dichloroethane	ND	0.93	0.93		ug/kg	Vinyl Acetate	ND	9.3	0.93		ug/kg
1,2-Dichloroethane	ND	0.93	0.93		ug/kg	Vinyl Chloride	ND	0.93	0.93		ug/kg
1,1-Dichloroethene	ND	0.93	0.93		ug/kg	p/m-Xylene	ND	1.9	0.93		ug/kg
c-1,2-Dichloroethene	ND	0.93	0.93		ug/kg	o-Xylene	ND	0.93	0.93		ug/kg
t-1,2-Dichloroethene	ND	0.93	0.93		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.93		ug/kg
1,2-Dichloropropane	ND	0.93	0.93		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-4-15	01-05-1251-3	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	21	1.05		ug/kg	1,3-Dichloropropane	ND	1.1	1.05		ug/kg
Benzene	ND	1.1	1.05		ug/kg	2,2-Dichloropropane	ND	5.3	1.05		ug/kg
Bromobenzene	ND	1.1	1.05		ug/kg	1,1-Dichloropropene	ND	2.1	1.05		ug/kg
Bromochloromethane	ND	2.1	1.05		ug/kg	c-1,3-Dichloropropene	ND	1.1	1.05		ug/kg
Bromodichloromethane	ND	1.1	1.05		ug/kg	t-1,3-Dichloropropene	ND	2.1	1.05		ug/kg
Bromoform	ND	5.3	1.05		ug/kg	Ethylbenzene	ND	1.1	1.05		ug/kg
Bromomethane	ND	5.3	1.05		ug/kg	2-Hexanone	ND	21	1.05		ug/kg
2-Butanone	ND	21	1.05		ug/kg	Isopropylbenzene	ND	1.1	1.05		ug/kg
n-Butylbenzene	ND	1.1	1.05		ug/kg	p-Isopropyltoluene	ND	1.1	1.05		ug/kg
sec-Butylbenzene	ND	1.1	1.05		ug/kg	Methylene Chloride	ND	11	1.05		ug/kg
tert-Butylbenzene	ND	1.1	1.05		ug/kg	4-Methyl-2-Pentanone	ND	21	1.05		ug/kg
Carbon Disulfide	ND	11	1.05		ug/kg	Naphthalene	ND	11	1.05		ug/kg
Carbon Tetrachloride	ND	1.1	1.05		ug/kg	n-Propylbenzene	ND	1.1	1.05		ug/kg
Chlorobenzene	ND	1.1	1.05		ug/kg	Styrene	ND	1.1	1.05		ug/kg
Chloroethane	ND	2.1	1.05		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.1	1.05		ug/kg
Chloroform	ND	1.1	1.05		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.1	1.05		ug/kg
Chloromethane	ND	1.1	1.05		ug/kg	Tetrachloroethene	ND	1.1	1.05		ug/kg
2-Chlorotoluene	ND	1.1	1.05		ug/kg	Toluene	ND	1.1	1.05		ug/kg
4-Chlorotoluene	ND	1.1	1.05		ug/kg	1,2,3-Trichlorobenzene	ND	2.1	1.05		ug/kg
Dibromochloromethane	ND	2.1	1.05		ug/kg	1,2,4-Trichlorobenzene	ND	2.1	1.05		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.3	1.05		ug/kg	1,1,1-Trichloroethane	ND	1.1	1.05		ug/kg
1,2-Dibromoethane	ND	1.1	1.05		ug/kg	1,1,2-Trichloroethane	ND	1.1	1.05		ug/kg
Dibromomethane	ND	1.1	1.05		ug/kg	Trichloroethene	ND	2.1	1.05		ug/kg
1,2-Dichlorobenzene	ND	1.1	1.05		ug/kg	Trichlorofluoromethane	ND	11	1.05		ug/kg
1,3-Dichlorobenzene	ND	1.1	1.05		ug/kg	1,2,3-Trichloropropane	ND	2.1	1.05		ug/kg
1,4-Dichlorobenzene	ND	1.1	1.05		ug/kg	1,2,4-Trimethylbenzene	ND	2.1	1.05		ug/kg
Dichlorodifluoromethane	ND	2.1	1.05		ug/kg	1,3,5-Trimethylbenzene	ND	2.1	1.05		ug/kg
1,1-Dichloroethane	ND	1.1	1.05		ug/kg	Vinyl Acetate	ND	11	1.05		ug/kg
1,2-Dichloroethane	ND	1.1	1.05		ug/kg	Vinyl Chloride	ND	1.1	1.05		ug/kg
1,1-Dichloroethene	ND	1.1	1.05		ug/kg	p/m-Xylene	ND	2.1	1.05		ug/kg
c-1,2-Dichloroethene	ND	1.1	1.05		ug/kg	o-Xylene	ND	1.1	1.05		ug/kg
t-1,2-Dichloroethene	ND	1.1	1.05		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05		ug/kg
1,2-Dichloropropane	ND	1.1	1.05		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-2-10	01-05-1251-6	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	21	1.07		ug/kg	1,3-Dichloropropane	ND	1.1	1.07		ug/kg
Benzene	ND	1.1	1.07		ug/kg	2,2-Dichloropropane	ND	5.4	1.07		ug/kg
Bromobenzene	ND	1.1	1.07		ug/kg	1,1-Dichloropropene	ND	2.1	1.07		ug/kg
Bromochloromethane	ND	2.1	1.07		ug/kg	c-1,3-Dichloropropene	ND	1.1	1.07		ug/kg
Bromodichloromethane	ND	1.1	1.07		ug/kg	t-1,3-Dichloropropene	ND	2.1	1.07		ug/kg
Bromoform	ND	5.4	1.07		ug/kg	Ethylbenzene	ND	1.1	1.07		ug/kg
Bromomethane	ND	5.4	1.07		ug/kg	2-Hexanone	ND	21	1.07		ug/kg
2-Butanone	ND	21	1.07		ug/kg	Isopropylbenzene	ND	1.1	1.07		ug/kg
n-Butylbenzene	ND	1.1	1.07		ug/kg	p-Isopropyltoluene	ND	1.1	1.07		ug/kg
sec-Butylbenzene	ND	1.1	1.07		ug/kg	Methylene Chloride	ND	11	1.07		ug/kg
tert-Butylbenzene	ND	1.1	1.07		ug/kg	4-Methyl-2-Pentanone	ND	21	1.07		ug/kg
Carbon Disulfide	ND	11	1.07		ug/kg	Naphthalene	ND	11	1.07		ug/kg
Carbon Tetrachloride	ND	1.1	1.07		ug/kg	n-Propylbenzene	ND	1.1	1.07		ug/kg
Chlorobenzene	ND	1.1	1.07		ug/kg	Styrene	ND	1.1	1.07		ug/kg
Chloroethane	ND	2.1	1.07		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.1	1.07		ug/kg
Chloroform	ND	1.1	1.07		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.1	1.07		ug/kg
Chloromethane	ND	1.1	1.07		ug/kg	Tetrachloroethene	ND	1.1	1.07		ug/kg
2-Chlorotoluene	ND	1.1	1.07		ug/kg	Toluene	ND	1.1	1.07		ug/kg
4-Chlorotoluene	ND	1.1	1.07		ug/kg	1,2,3-Trichlorobenzene	ND	2.1	1.07		ug/kg
Dibromochloromethane	ND	2.1	1.07		ug/kg	1,2,4-Trichlorobenzene	ND	2.1	1.07		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		ug/kg	1,1,1-Trichloroethane	ND	1.1	1.07		ug/kg
1,2-Dibromoethane	ND	1.1	1.07		ug/kg	1,1,2-Trichloroethane	ND	1.1	1.07		ug/kg
Dibromomethane	ND	1.1	1.07		ug/kg	Trichloroethene	ND	2.1	1.07		ug/kg
1,2-Dichlorobenzene	ND	1.1	1.07		ug/kg	Trichlorofluoromethane	ND	11	1.07		ug/kg
1,3-Dichlorobenzene	ND	1.1	1.07		ug/kg	1,2,3-Trichloropropane	ND	2.1	1.07		ug/kg
1,4-Dichlorobenzene	ND	1.1	1.07		ug/kg	1,2,4-Trimethylbenzene	ND	2.1	1.07		ug/kg
Dichlorodifluoromethane	ND	2.1	1.07		ug/kg	1,3,5-Trimethylbenzene	ND	2.1	1.07		ug/kg
1,1-Dichloroethane	ND	1.1	1.07		ug/kg	Vinyl Acetate	ND	11	1.07		ug/kg
1,2-Dichloroethane	ND	1.1	1.07		ug/kg	Vinyl Chloride	ND	1.1	1.07		ug/kg
1,1-Dichloroethene	ND	1.1	1.07		ug/kg	p/m-Xylene	ND	2.1	1.07		ug/kg
c-1,2-Dichloroethene	ND	1.1	1.07		ug/kg	o-Xylene	ND	1.1	1.07		ug/kg
t-1,2-Dichloroethene	ND	1.1	1.07		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07		ug/kg
1,2-Dichloropropane	ND	1.1	1.07		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	65-157		Toluene-d8	102	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-2-14	01-05-1251-7	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	17	0.87		ug/kg	1,3-Dichloropropane	ND	0.87	0.87		ug/kg
Benzene	ND	0.87	0.87		ug/kg	2,2-Dichloropropane	ND	4.4	0.87		ug/kg
Bromobenzene	ND	0.87	0.87		ug/kg	1,1-Dichloropropene	ND	1.7	0.87		ug/kg
Bromochloromethane	ND	1.7	0.87		ug/kg	c-1,3-Dichloropropene	ND	0.87	0.87		ug/kg
Bromodichloromethane	ND	0.87	0.87		ug/kg	t-1,3-Dichloropropene	ND	1.7	0.87		ug/kg
Bromoform	ND	4.4	0.87		ug/kg	Ethylbenzene	ND	0.87	0.87		ug/kg
Bromomethane	ND	4.4	0.87		ug/kg	2-Hexanone	ND	17	0.87		ug/kg
2-Butanone	ND	17	0.87		ug/kg	Isopropylbenzene	ND	0.87	0.87		ug/kg
n-Butylbenzene	ND	0.87	0.87		ug/kg	p-Isopropyltoluene	ND	0.87	0.87		ug/kg
sec-Butylbenzene	ND	0.87	0.87		ug/kg	Methylene Chloride	ND	8.7	0.87		ug/kg
tert-Butylbenzene	ND	0.87	0.87		ug/kg	4-Methyl-2-Pentanone	ND	17	0.87		ug/kg
Carbon Disulfide	ND	8.7	0.87		ug/kg	Naphthalene	ND	8.7	0.87		ug/kg
Carbon Tetrachloride	ND	0.87	0.87		ug/kg	n-Propylbenzene	ND	0.87	0.87		ug/kg
Chlorobenzene	ND	0.87	0.87		ug/kg	Styrene	ND	0.87	0.87		ug/kg
Chloroethane	ND	1.7	0.87		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.87	0.87		ug/kg
Chloroform	ND	0.87	0.87		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.7	0.87		ug/kg
Chloromethane	ND	0.87	0.87		ug/kg	Tetrachloroethene	ND	0.87	0.87		ug/kg
2-Chlorotoluene	ND	0.87	0.87		ug/kg	Toluene	ND	0.87	0.87		ug/kg
4-Chlorotoluene	ND	0.87	0.87		ug/kg	1,2,3-Trichlorobenzene	ND	1.7	0.87		ug/kg
Dibromochloromethane	ND	1.7	0.87		ug/kg	1,2,4-Trichlorobenzene	ND	1.7	0.87		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.4	0.87		ug/kg	1,1,1-Trichloroethane	ND	0.87	0.87		ug/kg
1,2-Dibromoethane	ND	0.87	0.87		ug/kg	1,1,2-Trichloroethane	ND	0.87	0.87		ug/kg
Dibromomethane	ND	0.87	0.87		ug/kg	Trichloroethene	ND	1.7	0.87		ug/kg
1,2-Dichlorobenzene	ND	0.87	0.87		ug/kg	Trichlorofluoromethane	ND	8.7	0.87		ug/kg
1,3-Dichlorobenzene	ND	0.87	0.87		ug/kg	1,2,3-Trichloropropane	ND	1.7	0.87		ug/kg
1,4-Dichlorobenzene	ND	0.87	0.87		ug/kg	1,2,4-Trimethylbenzene	ND	1.7	0.87		ug/kg
Dichlorodifluoromethane	ND	1.7	0.87		ug/kg	1,3,5-Trimethylbenzene	ND	1.7	0.87		ug/kg
1,1-Dichloroethane	ND	0.87	0.87		ug/kg	Vinyl Acetate	ND	8.7	0.87		ug/kg
1,2-Dichloroethane	ND	0.87	0.87		ug/kg	Vinyl Chloride	ND	0.87	0.87		ug/kg
1,1-Dichloroethene	ND	0.87	0.87		ug/kg	p/m-Xylene	ND	1.7	0.87		ug/kg
c-1,2-Dichloroethene	ND	0.87	0.87		ug/kg	o-Xylene	ND	0.87	0.87		ug/kg
t-1,2-Dichloroethene	ND	0.87	0.87		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.87		ug/kg
1,2-Dichloropropane	ND	0.87	0.87		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	95	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-5A-1	01-05-1251-10	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	16	0.80		ug/kg	1,3-Dichloropropane	ND	0.80	0.80		ug/kg
Benzene	ND	0.80	0.80		ug/kg	2,2-Dichloropropane	ND	4.0	0.80		ug/kg
Bromobenzene	ND	0.80	0.80		ug/kg	1,1-Dichloropropene	ND	1.6	0.80		ug/kg
Bromochloromethane	ND	1.6	0.80		ug/kg	c-1,3-Dichloropropene	ND	0.80	0.80		ug/kg
Bromodichloromethane	ND	0.80	0.80		ug/kg	t-1,3-Dichloropropene	ND	1.6	0.80		ug/kg
Bromoform	ND	4.0	0.80		ug/kg	Ethylbenzene	ND	0.80	0.80		ug/kg
Bromomethane	ND	4.0	0.80		ug/kg	2-Hexanone	ND	16	0.80		ug/kg
2-Butanone	ND	16	0.80		ug/kg	Isopropylbenzene	ND	0.80	0.80		ug/kg
n-Butylbenzene	ND	0.80	0.80		ug/kg	p-Isopropyltoluene	ND	0.80	0.80		ug/kg
sec-Butylbenzene	ND	0.80	0.80		ug/kg	Methylene Chloride	ND	8.0	0.80		ug/kg
tert-Butylbenzene	ND	0.80	0.80		ug/kg	4-Methyl-2-Pentanone	ND	16	0.80		ug/kg
Carbon Disulfide	ND	8.0	0.80		ug/kg	Naphthalene	ND	8.0	0.80		ug/kg
Carbon Tetrachloride	ND	0.80	0.80		ug/kg	n-Propylbenzene	ND	0.80	0.80		ug/kg
Chlorobenzene	ND	0.80	0.80		ug/kg	Styrene	ND	0.80	0.80		ug/kg
Chloroethane	ND	1.6	0.80		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.80	0.80		ug/kg
Chloroform	ND	0.80	0.80		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.6	0.80		ug/kg
Chloromethane	ND	0.80	0.80		ug/kg	Tetrachloroethene	ND	0.80	0.80		ug/kg
2-Chlorotoluene	ND	0.80	0.80		ug/kg	Toluene	ND	0.80	0.80		ug/kg
4-Chlorotoluene	ND	0.80	0.80		ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.80		ug/kg
Dibromochloromethane	ND	1.6	0.80		ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.80		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.0	0.80		ug/kg	1,1,1-Trichloroethane	ND	0.80	0.80		ug/kg
1,2-Dibromoethane	ND	0.80	0.80		ug/kg	1,1,2-Trichloroethane	ND	0.80	0.80		ug/kg
Dibromomethane	ND	0.80	0.80		ug/kg	Trichloroethene	3.5	1.6	0.80		ug/kg
1,2-Dichlorobenzene	ND	0.80	0.80		ug/kg	Trichlorofluoromethane	ND	8.0	0.80		ug/kg
1,3-Dichlorobenzene	ND	0.80	0.80		ug/kg	1,2,3-Trichloropropane	ND	1.6	0.80		ug/kg
1,4-Dichlorobenzene	ND	0.80	0.80		ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.80		ug/kg
Dichlorodifluoromethane	ND	1.6	0.80		ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.80		ug/kg
1,1-Dichloroethane	ND	0.80	0.80		ug/kg	Vinyl Acetate	ND	8.0	0.80		ug/kg
1,2-Dichloroethane	ND	0.80	0.80		ug/kg	Vinyl Chloride	ND	0.80	0.80		ug/kg
1,1-Dichloroethene	3.7	0.8	0.80		ug/kg	p/m-Xylene	ND	1.6	0.80		ug/kg
c-1,2-Dichloroethene	ND	0.80	0.80		ug/kg	o-Xylene	ND	0.80	0.80		ug/kg
t-1,2-Dichloroethene	ND	0.80	0.80		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.80		ug/kg
1,2-Dichloropropane	ND	0.80	0.80		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	93	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-5-5	01-05-1251-11	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	17	0.84		ug/kg	1,3-Dichloropropane	ND	0.84	0.84		ug/kg
Benzene	ND	0.84	0.84		ug/kg	2,2-Dichloropropane	ND	4.2	0.84		ug/kg
Bromobenzene	ND	0.84	0.84		ug/kg	1,1-Dichloropropene	ND	1.7	0.84		ug/kg
Bromochloromethane	ND	1.7	0.84		ug/kg	c-1,3-Dichloropropene	ND	0.84	0.84		ug/kg
Bromodichloromethane	ND	0.84	0.84		ug/kg	t-1,3-Dichloropropene	ND	1.7	0.84		ug/kg
Bromoform	ND	4.2	0.84		ug/kg	Ethylbenzene	ND	0.84	0.84		ug/kg
Bromomethane	ND	4.2	0.84		ug/kg	2-Hexanone	ND	17	0.84		ug/kg
2-Butanone	ND	17	0.84		ug/kg	Isopropylbenzene	ND	0.84	0.84		ug/kg
n-Butylbenzene	ND	0.84	0.84		ug/kg	p-Isopropyltoluene	ND	0.84	0.84		ug/kg
sec-Butylbenzene	ND	0.84	0.84		ug/kg	Methylene Chloride	ND	8.4	0.84		ug/kg
tert-Butylbenzene	ND	0.84	0.84		ug/kg	4-Methyl-2-Pentanone	ND	17	0.84		ug/kg
Carbon Disulfide	ND	8.4	0.84		ug/kg	Naphthalene	ND	8.4	0.84		ug/kg
Carbon Tetrachloride	ND	0.84	0.84		ug/kg	n-Propylbenzene	ND	0.84	0.84		ug/kg
Chlorobenzene	ND	0.84	0.84		ug/kg	Styrene	ND	0.84	0.84		ug/kg
Chloroethane	ND	1.7	0.84		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.84	0.84		ug/kg
Chloroform	ND	0.84	0.84		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.7	0.84		ug/kg
Chloromethane	ND	0.84	0.84		ug/kg	Tetrachloroethene	ND	0.84	0.84		ug/kg
2-Chlorotoluene	ND	0.84	0.84		ug/kg	Toluene	ND	0.84	0.84		ug/kg
4-Chlorotoluene	ND	0.84	0.84		ug/kg	1,2,3-Trichlorobenzene	ND	1.7	0.84		ug/kg
Dibromochloromethane	ND	1.7	0.84		ug/kg	1,2,4-Trichlorobenzene	ND	1.7	0.84		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.2	0.84		ug/kg	1,1,1-Trichloroethane	ND	0.84	0.84		ug/kg
1,2-Dibromoethane	ND	0.84	0.84		ug/kg	1,1,2-Trichloroethane	ND	0.84	0.84		ug/kg
Dibromomethane	ND	0.84	0.84		ug/kg	Trichloroethene	6.5	1.7	0.84		ug/kg
1,2-Dichlorobenzene	ND	0.84	0.84		ug/kg	Trichlorofluoromethane	ND	8.4	0.84		ug/kg
1,3-Dichlorobenzene	ND	0.84	0.84		ug/kg	1,2,3-Trichloropropane	ND	1.7	0.84		ug/kg
1,4-Dichlorobenzene	ND	0.84	0.84		ug/kg	1,2,4-Trimethylbenzene	ND	1.7	0.84		ug/kg
Dichlorodifluoromethane	ND	1.7	0.84		ug/kg	1,3,5-Trimethylbenzene	ND	1.7	0.84		ug/kg
1,1-Dichloroethane	ND	0.84	0.84		ug/kg	Vinyl Acetate	ND	8.4	0.84		ug/kg
1,2-Dichloroethane	ND	0.84	0.84		ug/kg	Vinyl Chloride	ND	0.84	0.84		ug/kg
1,1-Dichloroethene	5.5	0.8	0.84		ug/kg	p/m-Xylene	ND	1.7	0.84		ug/kg
c-1,2-Dichloroethene	ND	0.84	0.84		ug/kg	o-Xylene	ND	0.84	0.84		ug/kg
t-1,2-Dichloroethene	ND	0.84	0.84		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.84		ug/kg
1,2-Dichloropropane	ND	0.84	0.84		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	94	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-5-10	01-05-1251-12	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	17	0.85		ug/kg	1,3-Dichloropropane	ND	0.85	0.85		ug/kg
Benzene	ND	0.85	0.85		ug/kg	2,2-Dichloropropane	ND	4.3	0.85		ug/kg
Bromobenzene	ND	0.85	0.85		ug/kg	1,1-Dichloropropene	ND	1.7	0.85		ug/kg
Bromochloromethane	ND	1.7	0.85		ug/kg	c-1,3-Dichloropropene	ND	0.85	0.85		ug/kg
Bromodichloromethane	ND	0.85	0.85		ug/kg	t-1,3-Dichloropropene	ND	1.7	0.85		ug/kg
Bromoform	ND	4.3	0.85		ug/kg	Ethylbenzene	ND	0.85	0.85		ug/kg
Bromomethane	ND	4.3	0.85		ug/kg	2-Hexanone	ND	17	0.85		ug/kg
2-Butanone	ND	17	0.85		ug/kg	Isopropylbenzene	ND	0.85	0.85		ug/kg
n-Butylbenzene	ND	0.85	0.85		ug/kg	p-Isopropyltoluene	ND	0.85	0.85		ug/kg
sec-Butylbenzene	ND	0.85	0.85		ug/kg	Methylene Chloride	ND	8.5	0.85		ug/kg
tert-Butylbenzene	ND	0.85	0.85		ug/kg	4-Methyl-2-Pentanone	ND	17	0.85		ug/kg
Carbon Disulfide	ND	8.5	0.85		ug/kg	Naphthalene	ND	8.5	0.85		ug/kg
Carbon Tetrachloride	ND	0.85	0.85		ug/kg	n-Propylbenzene	ND	0.85	0.85		ug/kg
Chlorobenzene	ND	0.85	0.85		ug/kg	Styrene	ND	0.85	0.85		ug/kg
Chloroethane	ND	1.7	0.85		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.85	0.85		ug/kg
Chloroform	ND	0.85	0.85		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.7	0.85		ug/kg
Chloromethane	ND	0.85	0.85		ug/kg	Tetrachloroethene	ND	0.85	0.85		ug/kg
2-Chlorotoluene	ND	0.85	0.85		ug/kg	Toluene	ND	0.85	0.85		ug/kg
4-Chlorotoluene	ND	0.85	0.85		ug/kg	1,2,3-Trichlorobenzene	ND	1.7	0.85		ug/kg
Dibromochloromethane	ND	1.7	0.85		ug/kg	1,2,4-Trichlorobenzene	ND	1.7	0.85		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.3	0.85		ug/kg	1,1,1-Trichloroethane	ND	0.85	0.85		ug/kg
1,2-Dibromoethane	ND	0.85	0.85		ug/kg	1,1,2-Trichloroethane	ND	0.85	0.85		ug/kg
Dibromomethane	ND	0.85	0.85		ug/kg	Trichloroethene	2.8	1.7	0.85		ug/kg
1,2-Dichlorobenzene	ND	0.85	0.85		ug/kg	Trichlorofluoromethane	ND	8.5	0.85		ug/kg
1,3-Dichlorobenzene	ND	0.85	0.85		ug/kg	1,2,3-Trichloropropane	ND	1.7	0.85		ug/kg
1,4-Dichlorobenzene	ND	0.85	0.85		ug/kg	1,2,4-Trimethylbenzene	ND	1.7	0.85		ug/kg
Dichlorodifluoromethane	ND	1.7	0.85		ug/kg	1,3,5-Trimethylbenzene	ND	1.7	0.85		ug/kg
1,1-Dichloroethane	ND	0.85	0.85		ug/kg	Vinyl Acetate	ND	8.5	0.85		ug/kg
1,2-Dichloroethane	ND	0.85	0.85		ug/kg	Vinyl Chloride	ND	0.85	0.85		ug/kg
1,1-Dichloroethene	3.8	0.8	0.85		ug/kg	p/m-Xylene	ND	1.7	0.85		ug/kg
c-1,2-Dichloroethene	ND	0.85	0.85		ug/kg	o-Xylene	ND	0.85	0.85		ug/kg
t-1,2-Dichloroethene	ND	0.85	0.85		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.85		ug/kg
1,2-Dichloropropane	ND	0.85	0.85		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	94	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-6-1	01-05-1251-15	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	26	16	0.82		ug/kg	1,3-Dichloropropane	ND	0.82	0.82		ug/kg
Benzene	ND	0.82	0.82		ug/kg	2,2-Dichloropropane	ND	4.1	0.82		ug/kg
Bromobenzene	ND	0.82	0.82		ug/kg	1,1-Dichloropropene	ND	1.6	0.82		ug/kg
Bromochloromethane	ND	1.6	0.82		ug/kg	c-1,3-Dichloropropene	ND	0.82	0.82		ug/kg
Bromodichloromethane	ND	0.82	0.82		ug/kg	t-1,3-Dichloropropene	ND	1.6	0.82		ug/kg
Bromoform	ND	4.1	0.82		ug/kg	Ethylbenzene	ND	0.82	0.82		ug/kg
Bromomethane	ND	4.1	0.82		ug/kg	2-Hexanone	ND	16	0.82		ug/kg
2-Butanone	ND	16	0.82		ug/kg	Isopropylbenzene	ND	0.82	0.82		ug/kg
n-Butylbenzene	ND	0.82	0.82		ug/kg	p-Isopropyltoluene	ND	0.82	0.82		ug/kg
sec-Butylbenzene	ND	0.82	0.82		ug/kg	Methylene Chloride	ND	8.2	0.82		ug/kg
tert-Butylbenzene	ND	0.82	0.82		ug/kg	4-Methyl-2-Pentanone	ND	16	0.82		ug/kg
Carbon Disulfide	ND	8.2	0.82		ug/kg	Naphthalene	ND	8.2	0.82		ug/kg
Carbon Tetrachloride	ND	0.82	0.82		ug/kg	n-Propylbenzene	ND	0.82	0.82		ug/kg
Chlorobenzene	ND	0.82	0.82		ug/kg	Styrene	ND	0.82	0.82		ug/kg
Chloroethane	ND	1.6	0.82		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.82	0.82		ug/kg
Chloroform	ND	0.82	0.82		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.6	0.82		ug/kg
Chloromethane	ND	0.82	0.82		ug/kg	Tetrachloroethene	3.8	0.8	0.82		ug/kg
2-Chlorotoluene	ND	0.82	0.82		ug/kg	Toluene	ND	0.82	0.82		ug/kg
4-Chlorotoluene	ND	0.82	0.82		ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.82		ug/kg
Dibromochloromethane	ND	1.6	0.82		ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.82		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.1	0.82		ug/kg	1,1,1-Trichloroethane	5.5	0.8	0.82		ug/kg
1,2-Dibromoethane	ND	0.82	0.82		ug/kg	1,1,2-Trichloroethane	ND	0.82	0.82		ug/kg
Dibromomethane	ND	0.82	0.82		ug/kg	Trichloroethene	7.2	1.6	0.82		ug/kg
1,2-Dichlorobenzene	ND	0.82	0.82		ug/kg	Trichlorofluoromethane	ND	8.2	0.82		ug/kg
1,3-Dichlorobenzene	ND	0.82	0.82		ug/kg	1,2,3-Trichloropropane	ND	1.6	0.82		ug/kg
1,4-Dichlorobenzene	ND	0.82	0.82		ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.82		ug/kg
Dichlorodifluoromethane	ND	1.6	0.82		ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.82		ug/kg
1,1-Dichloroethane	ND	0.82	0.82		ug/kg	Vinyl Acetate	ND	8.2	0.82		ug/kg
1,2-Dichloroethane	ND	0.82	0.82		ug/kg	Vinyl Chloride	ND	0.82	0.82		ug/kg
1,1-Dichloroethene	1.1	0.8	0.82		ug/kg	p/m-Xylene	ND	1.6	0.82		ug/kg
c-1,2-Dichloroethene	ND	0.82	0.82		ug/kg	o-Xylene	ND	0.82	0.82		ug/kg
t-1,2-Dichloroethene	ND	0.82	0.82		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.82		ug/kg
1,2-Dichloropropane	ND	0.82	0.82		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	65-157		Toluene-d8	99	51-144	
1,4-Bromofluorobenzene	87	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-6-5	01-05-1251-16	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	20	16	0.82		ug/kg	1,3-Dichloropropane	ND	0.82	0.82		ug/kg
Benzene	ND	0.82	0.82		ug/kg	2,2-Dichloropropane	ND	4.1	0.82		ug/kg
Bromobenzene	ND	0.82	0.82		ug/kg	1,1-Dichloropropene	ND	1.6	0.82		ug/kg
Bromochloromethane	ND	1.6	0.82		ug/kg	c-1,3-Dichloropropene	ND	0.82	0.82		ug/kg
Bromodichloromethane	ND	0.82	0.82		ug/kg	t-1,3-Dichloropropene	ND	1.6	0.82		ug/kg
Bromoform	ND	4.1	0.82		ug/kg	Ethylbenzene	ND	0.82	0.82		ug/kg
Bromomethane	ND	4.1	0.82		ug/kg	2-Hexanone	ND	16	0.82		ug/kg
2-Butanone	ND	16	0.82		ug/kg	Isopropylbenzene	ND	0.82	0.82		ug/kg
n-Butylbenzene	ND	0.82	0.82		ug/kg	p-Isopropyltoluene	ND	0.82	0.82		ug/kg
sec-Butylbenzene	ND	0.82	0.82		ug/kg	Methylene Chloride	ND	8.2	0.82		ug/kg
tert-Butylbenzene	ND	0.82	0.82		ug/kg	4-Methyl-2-Pentanone	ND	16	0.82		ug/kg
Carbon Disulfide	ND	8.2	0.82		ug/kg	Naphthalene	ND	8.2	0.82		ug/kg
Carbon Tetrachloride	ND	0.82	0.82		ug/kg	n-Propylbenzene	ND	0.82	0.82		ug/kg
Chlorobenzene	ND	0.82	0.82		ug/kg	Styrene	ND	0.82	0.82		ug/kg
Chloroethane	ND	1.6	0.82		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.82	0.82		ug/kg
Chloroform	ND	0.82	0.82		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.6	0.82		ug/kg
Chloromethane	ND	0.82	0.82		ug/kg	Tetrachloroethene	1.6	0.8	0.82		ug/kg
2-Chlorotoluene	ND	0.82	0.82		ug/kg	Toluene	ND	0.82	0.82		ug/kg
4-Chlorotoluene	ND	0.82	0.82		ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.82		ug/kg
Dibromochloromethane	ND	1.6	0.82		ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.82		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.1	0.82		ug/kg	1,1,1-Trichloroethane	2.1	0.8	0.82		ug/kg
1,2-Dibromoethane	ND	0.82	0.82		ug/kg	1,1,2-Trichloroethane	ND	0.82	0.82		ug/kg
Dibromomethane	ND	0.82	0.82		ug/kg	Trichloroethene	2.9	1.6	0.82		ug/kg
1,2-Dichlorobenzene	ND	0.82	0.82		ug/kg	Trichlorofluoromethane	ND	8.2	0.82		ug/kg
1,3-Dichlorobenzene	ND	0.82	0.82		ug/kg	1,2,3-Trichloropropane	ND	1.6	0.82		ug/kg
1,4-Dichlorobenzene	ND	0.82	0.82		ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.82		ug/kg
Dichlorodifluoromethane	ND	1.6	0.82		ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.82		ug/kg
1,1-Dichloroethane	ND	0.82	0.82		ug/kg	Vinyl Acetate	ND	8.2	0.82		ug/kg
1,2-Dichloroethane	ND	0.82	0.82		ug/kg	Vinyl Chloride	ND	0.82	0.82		ug/kg
1,1-Dichloroethene	2.3	0.8	0.82		ug/kg	p/m-Xylene	ND	1.6	0.82		ug/kg
c-1,2-Dichloroethene	ND	0.82	0.82		ug/kg	o-Xylene	ND	0.82	0.82		ug/kg
t-1,2-Dichloroethene	ND	0.82	0.82		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.82		ug/kg
1,2-Dichloropropane	ND	0.82	0.82		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	90	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-6-10	01-05-1251-17	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	19	0.97		ug/kg	1,3-Dichloropropane	ND	0.97	0.97		ug/kg
Benzene	ND	0.97	0.97		ug/kg	2,2-Dichloropropane	ND	4.9	0.97		ug/kg
Bromobenzene	ND	0.97	0.97		ug/kg	1,1-Dichloropropene	ND	1.9	0.97		ug/kg
Bromochloromethane	ND	1.9	0.97		ug/kg	c-1,3-Dichloropropene	ND	0.97	0.97		ug/kg
Bromodichloromethane	ND	0.97	0.97		ug/kg	t-1,3-Dichloropropene	ND	1.9	0.97		ug/kg
Bromoform	ND	4.9	0.97		ug/kg	Ethylbenzene	ND	0.97	0.97		ug/kg
Bromomethane	ND	4.9	0.97		ug/kg	2-Hexanone	ND	19	0.97		ug/kg
2-Butanone	ND	19	0.97		ug/kg	Isopropylbenzene	ND	0.97	0.97		ug/kg
n-Butylbenzene	ND	0.97	0.97		ug/kg	p-Isopropyltoluene	ND	0.97	0.97		ug/kg
sec-Butylbenzene	ND	0.97	0.97		ug/kg	Methylene Chloride	ND	9.7	0.97		ug/kg
tert-Butylbenzene	ND	0.97	0.97		ug/kg	4-Methyl-2-Pentanone	ND	19	0.97		ug/kg
Carbon Disulfide	ND	9.7	0.97		ug/kg	Naphthalene	ND	9.7	0.97		ug/kg
...bon Tetrachloride	ND	0.97	0.97		ug/kg	n-Propylbenzene	ND	0.97	0.97		ug/kg
...orobenzene	ND	0.97	0.97		ug/kg	Styrene	ND	0.97	0.97		ug/kg
Chloroethane	ND	1.9	0.97		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.97	0.97		ug/kg
Chloroform	ND	0.97	0.97		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.9	0.97		ug/kg
Chloromethane	ND	0.97	0.97		ug/kg	Tetrachloroethene	ND	0.97	0.97		ug/kg
2-Chlorotoluene	ND	0.97	0.97		ug/kg	Toluene	ND	0.97	0.97		ug/kg
4-Chlorotoluene	ND	0.97	0.97		ug/kg	1,2,3-Trichlorobenzene	ND	1.9	0.97		ug/kg
Dibromochloromethane	ND	1.9	0.97		ug/kg	1,2,4-Trichlorobenzene	ND	1.9	0.97		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.9	0.97		ug/kg	1,1,1-Trichloroethane	ND	0.97	0.97		ug/kg
1,2-Dibromoethane	ND	0.97	0.97		ug/kg	1,1,2-Trichloroethane	ND	0.97	0.97		ug/kg
Dibromomethane	ND	0.97	0.97		ug/kg	Trichloroethene	ND	1.9	0.97		ug/kg
1,2-Dichlorobenzene	ND	0.97	0.97		ug/kg	Trichlorofluoromethane	ND	9.7	0.97		ug/kg
1,3-Dichlorobenzene	ND	0.97	0.97		ug/kg	1,2,3-Trichloropropane	ND	1.9	0.97		ug/kg
1,4-Dichlorobenzene	ND	0.97	0.97		ug/kg	1,2,4-Trimethylbenzene	ND	1.9	0.97		ug/kg
Dichlorodifluoromethane	ND	1.9	0.97		ug/kg	1,3,5-Trimethylbenzene	ND	1.9	0.97		ug/kg
1,1-Dichloroethane	ND	0.97	0.97		ug/kg	Vinyl Acetate	ND	9.7	0.97		ug/kg
1,2-Dichloroethane	ND	0.97	0.97		ug/kg	Vinyl Chloride	ND	0.97	0.97		ug/kg
1,1-Dichloroethene	ND	0.97	0.97		ug/kg	p/m-Xylene	ND	1.9	0.97		ug/kg
c-1,2-Dichloroethene	ND	0.97	0.97		ug/kg	o-Xylene	ND	0.97	0.97		ug/kg
t-1,2-Dichloroethene	ND	0.97	0.97		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.97		ug/kg
1,2-Dichloropropane	ND	0.97	0.97		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-7-1	01-05-1251-20	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	45	18	0.92		ug/kg	1,3-Dichloropropane	ND	0.92	0.92		ug/kg
Benzene	ND	0.92	0.92		ug/kg	2,2-Dichloropropane	ND	4.6	0.92		ug/kg
Bromobenzene	ND	0.92	0.92		ug/kg	1,1-Dichloropropene	ND	1.8	0.92		ug/kg
Bromochloromethane	ND	1.8	0.92		ug/kg	c-1,3-Dichloropropene	ND	0.92	0.92		ug/kg
Bromodichloromethane	ND	0.92	0.92		ug/kg	t-1,3-Dichloropropene	ND	1.8	0.92		ug/kg
Bromoform	ND	4.6	0.92		ug/kg	Ethylbenzene	ND	0.92	0.92		ug/kg
Bromomethane	ND	4.6	0.92		ug/kg	2-Hexanone	ND	18	0.92		ug/kg
2-Butanone	ND	18	0.92		ug/kg	Isopropylbenzene	ND	0.92	0.92		ug/kg
n-Butylbenzene	ND	0.92	0.92		ug/kg	p-Isopropyltoluene	ND	0.92	0.92		ug/kg
sec-Butylbenzene	ND	0.92	0.92		ug/kg	Methylene Chloride	ND	9.2	0.92		ug/kg
tert-Butylbenzene	ND	0.92	0.92		ug/kg	4-Methyl-2-Pentanone	ND	18	0.92		ug/kg
Carbon Disulfide	ND	9.2	0.92		ug/kg	Naphthalene	ND	9.2	0.92		ug/kg
Carbon Tetrachloride	ND	0.92	0.92		ug/kg	n-Propylbenzene	ND	0.92	0.92		ug/kg
Chlorobenzene	ND	0.92	0.92		ug/kg	Styrene	ND	0.92	0.92		ug/kg
Chloroethane	ND	1.8	0.92		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.92	0.92		ug/kg
Chloroform	ND	0.92	0.92		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.8	0.92		ug/kg
Chloromethane	ND	0.92	0.92		ug/kg	Tetrachloroethene	2.3	0.9	0.92		ug/kg
2-Chlorotoluene	ND	0.92	0.92		ug/kg	Toluene	ND	0.92	0.92		ug/kg
4-Chlorotoluene	ND	0.92	0.92		ug/kg	1,2,3-Trichlorobenzene	ND	1.8	0.92		ug/kg
Dibromochloromethane	ND	1.8	0.92		ug/kg	1,2,4-Trichlorobenzene	ND	1.8	0.92		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.6	0.92		ug/kg	1,1,1-Trichloroethane	3.6	0.9	0.92		ug/kg
1,2-Dibromoethane	ND	0.92	0.92		ug/kg	1,1,2-Trichloroethane	ND	0.92	0.92		ug/kg
Dibromomethane	ND	0.92	0.92		ug/kg	Trichloroethene	4.1	1.8	0.92		ug/kg
1,2-Dichlorobenzene	ND	0.92	0.92		ug/kg	Trichlorofluoromethane	ND	9.2	0.92		ug/kg
1,3-Dichlorobenzene	ND	0.92	0.92		ug/kg	1,2,3-Trichloropropane	ND	1.8	0.92		ug/kg
1,4-Dichlorobenzene	ND	0.92	0.92		ug/kg	1,2,4-Trimethylbenzene	ND	1.8	0.92		ug/kg
Dichlorodifluoromethane	ND	1.8	0.92		ug/kg	1,3,5-Trimethylbenzene	ND	1.8	0.92		ug/kg
1,1-Dichloroethane	ND	0.92	0.92		ug/kg	Vinyl Acetate	ND	9.2	0.92		ug/kg
1,2-Dichloroethane	ND	0.92	0.92		ug/kg	Vinyl Chloride	ND	0.92	0.92		ug/kg
1,1-Dichloroethene	1.7	0.9	0.92		ug/kg	p/m-Xylene	ND	1.8	0.92		ug/kg
c-1,2-Dichloroethene	ND	0.92	0.92		ug/kg	o-Xylene	ND	0.92	0.92		ug/kg
t-1,2-Dichloroethene	ND	0.92	0.92		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.92		ug/kg
1,2-Dichloropropane	ND	0.92	0.92		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	87	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-7-5	01-05-1251-21	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	16	0.81		ug/kg	1,3-Dichloropropane	ND	0.81	0.81		ug/kg
Benzene	ND	0.81	0.81		ug/kg	2,2-Dichloropropane	ND	4.1	0.81		ug/kg
Bromobenzene	ND	0.81	0.81		ug/kg	1,1-Dichloropropene	ND	1.6	0.81		ug/kg
Bromochloromethane	ND	1.6	0.81		ug/kg	c-1,3-Dichloropropene	ND	0.81	0.81		ug/kg
Bromodichloromethane	ND	0.81	0.81		ug/kg	t-1,3-Dichloropropene	ND	1.6	0.81		ug/kg
Bromoform	ND	4.1	0.81		ug/kg	Ethylbenzene	ND	0.81	0.81		ug/kg
Bromomethane	ND	4.1	0.81		ug/kg	2-Hexanone	ND	16	0.81		ug/kg
2-Butanone	ND	16	0.81		ug/kg	Isopropylbenzene	ND	0.81	0.81		ug/kg
n-Butylbenzene	ND	0.81	0.81		ug/kg	p-Isopropyltoluene	ND	0.81	0.81		ug/kg
sec-Butylbenzene	ND	0.81	0.81		ug/kg	Methylene Chloride	ND	8.1	0.81		ug/kg
tert-Butylbenzene	ND	0.81	0.81		ug/kg	4-Methyl-2-Pentanone	ND	16	0.81		ug/kg
Carbon Disulfide	ND	8.1	0.81		ug/kg	Naphthalene	ND	8.1	0.81		ug/kg
Carbon Tetrachloride	ND	0.81	0.81		ug/kg	n-Propylbenzene	ND	0.81	0.81		ug/kg
Chlorobenzene	ND	0.81	0.81		ug/kg	Styrene	ND	0.81	0.81		ug/kg
Chloroethane	ND	1.6	0.81		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.81	0.81		ug/kg
Chloroform	ND	0.81	0.81		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.6	0.81		ug/kg
Chloromethane	ND	0.81	0.81		ug/kg	Tetrachloroethene	ND	0.81	0.81		ug/kg
2-Chlorotoluene	ND	0.81	0.81		ug/kg	Toluene	ND	0.81	0.81		ug/kg
4-Chlorotoluene	ND	0.81	0.81		ug/kg	1,2,3-Trichlorobenzene	ND	1.6	0.81		ug/kg
Dibromochloromethane	ND	1.6	0.81		ug/kg	1,2,4-Trichlorobenzene	ND	1.6	0.81		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.1	0.81		ug/kg	1,1,1-Trichloroethane	ND	0.81	0.81		ug/kg
1,2-Dibromoethane	ND	0.81	0.81		ug/kg	1,1,2-Trichloroethane	ND	0.81	0.81		ug/kg
Dibromomethane	ND	0.81	0.81		ug/kg	Trichloroethene	ND	1.6	0.81		ug/kg
1,2-Dichlorobenzene	ND	0.81	0.81		ug/kg	Trichlorofluoromethane	ND	8.1	0.81		ug/kg
1,3-Dichlorobenzene	ND	0.81	0.81		ug/kg	1,2,3-Trichloropropane	ND	1.6	0.81		ug/kg
1,4-Dichlorobenzene	ND	0.81	0.81		ug/kg	1,2,4-Trimethylbenzene	ND	1.6	0.81		ug/kg
Dichlorodifluoromethane	ND	1.6	0.81		ug/kg	1,3,5-Trimethylbenzene	ND	1.6	0.81		ug/kg
1,1-Dichloroethane	ND	0.81	0.81		ug/kg	Vinyl Acetate	ND	8.1	0.81		ug/kg
1,2-Dichloroethane	ND	0.81	0.81		ug/kg	Vinyl Chloride	ND	0.81	0.81		ug/kg
1,1-Dichloroethene	ND	0.81	0.81		ug/kg	p/m-Xylene	ND	1.6	0.81		ug/kg
c-1,2-Dichloroethene	ND	0.81	0.81		ug/kg	o-Xylene	ND	0.81	0.81		ug/kg
t-1,2-Dichloroethene	ND	0.81	0.81		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.81		ug/kg
1,2-Dichloropropane	ND	0.81	0.81		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	65-157		Toluene-d8	102	51-144	
1,4-Bromofluorobenzene	95	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
SB-7-10	01-05-1251-22	05/25/01	Solid	05/26/01	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	0.98		ug/kg	1,3-Dichloropropane	ND	0.98	0.98		ug/kg
Benzene	ND	0.98	0.98		ug/kg	2,2-Dichloropropane	ND	4.9	0.98		ug/kg
Bromobenzene	ND	0.98	0.98		ug/kg	1,1-Dichloropropene	ND	2.0	0.98		ug/kg
Bromochloromethane	ND	2.0	0.98		ug/kg	c-1,3-Dichloropropene	ND	0.98	0.98		ug/kg
Bromodichloromethane	ND	0.98	0.98		ug/kg	t-1,3-Dichloropropene	ND	2.0	0.98		ug/kg
Bromoform	ND	4.9	0.98		ug/kg	Ethylbenzene	ND	0.98	0.98		ug/kg
Bromomethane	ND	4.9	0.98		ug/kg	2-Hexanone	ND	20	0.98		ug/kg
2-Butanone	ND	20	0.98		ug/kg	Isopropylbenzene	ND	0.98	0.98		ug/kg
n-Butylbenzene	ND	0.98	0.98		ug/kg	p-Isopropyltoluene	ND	0.98	0.98		ug/kg
sec-Butylbenzene	ND	0.98	0.98		ug/kg	Methylene Chloride	ND	9.8	0.98		ug/kg
tert-Butylbenzene	ND	0.98	0.98		ug/kg	4-Methyl-2-Pentanone	ND	20	0.98		ug/kg
Carbon Disulfide	ND	9.8	0.98		ug/kg	Naphthalene	ND	9.8	0.98		ug/kg
...bon Tetrachloride	ND	0.98	0.98		ug/kg	n-Propylbenzene	ND	0.98	0.98		ug/kg
...orobenzene	ND	0.98	0.98		ug/kg	Styrene	ND	0.98	0.98		ug/kg
Chloroethane	ND	2.0	0.98		ug/kg	1,1,1,2-Tetrachloroethane	ND	0.98	0.98		ug/kg
Chloroform	ND	0.98	0.98		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	0.98		ug/kg
Chloromethane	ND	0.98	0.98		ug/kg	Tetrachloroethene	ND	0.98	0.98		ug/kg
2-Chlorotoluene	ND	0.98	0.98		ug/kg	Toluene	ND	0.98	0.98		ug/kg
4-Chlorotoluene	ND	0.98	0.98		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	0.98		ug/kg
Dibromochloromethane	ND	2.0	0.98		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	0.98		ug/kg
1,2-Dibromo-3-Chloropropane	ND	4.9	0.98		ug/kg	1,1,1-Trichloroethane	ND	0.98	0.98		ug/kg
1,2-Dibromoethane	ND	0.98	0.98		ug/kg	1,1,2-Trichloroethane	ND	0.98	0.98		ug/kg
Dibromomethane	ND	0.98	0.98		ug/kg	Trichloroethene	ND	2.0	0.98		ug/kg
1,2-Dichlorobenzene	ND	0.98	0.98		ug/kg	Trichlorofluoromethane	ND	9.8	0.98		ug/kg
1,3-Dichlorobenzene	ND	0.98	0.98		ug/kg	1,2,3-Trichloropropane	ND	2.0	0.98		ug/kg
1,4-Dichlorobenzene	ND	0.98	0.98		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	0.98		ug/kg
Dichlorodifluoromethane	ND	2.0	0.98		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	0.98		ug/kg
1,1-Dichloroethane	ND	0.98	0.98		ug/kg	Vinyl Acetate	ND	9.8	0.98		ug/kg
1,2-Dichloroethane	ND	0.98	0.98		ug/kg	Vinyl Chloride	ND	0.98	0.98		ug/kg
1,1-Dichloroethene	ND	0.98	0.98		ug/kg	p/m-Xylene	ND	2.0	0.98		ug/kg
c-1,2-Dichloroethene	ND	0.98	0.98		ug/kg	o-Xylene	ND	0.98	0.98		ug/kg
t-1,2-Dichloroethene	ND	0.98	0.98		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.98		ug/kg
1,2-Dichloropropane	ND	0.98	0.98		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	97	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

Project: BAE Systems

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,737	N/A	Solid	N/A	05/27/01	052601CS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	2.0	1		ug/kg
Bromochloromethane	ND	2.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	2.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	2.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	2.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	2.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	2.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	2.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	2.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	93	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 6010B

Project: BAE Systems

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-5-5	Solid	ICP 3300	05/29/01	05/30/01	052901ms3

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	42	40	50-115	6	0-20	3
Arsenic	97	98	75-125	1	0-20	
Barium	98	97	75-125	0	0-20	
Beryllium	98	98	75-125	0	0-20	
Cadmium	96	96	75-125	1	0-20	
Chromium (Total)	101	100	75-125	1	0-20	
Cobalt	98	98	75-125	0	0-20	
Copper	97	97	75-125	0	0-20	
Lead	91	92	75-125	2	0-20	
Molybdenum	91	92	75-125	1	0-20	
Nickel	103	100	75-125	3	0-20	
Selenium	91	92	75-125	2	0-20	
Silver	97	97	75-125	0	0-20	
Thallium	86	87	75-125	1	0-20	
Vanadium	94	93	75-125	1	0-20	
Zinc	95	97	75-125	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Project: BAE Systems

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-2,449	Solid	ICP 3300	05/29/01	010529-I	010529lcs3

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony	50	46.8	94	80-120	
Arsenic	50	45.2	90	80-120	
Barium	50	48.7	97	80-120	
Beryllium	50	48.9	98	80-120	
Cadmium	50	51.3	103	80-120	
Chromium (Total)	50	49.6	99	80-120	
Cobalt	50	52.0	104	80-120	
Copper	50	50.4	101	80-120	
Lead	50	48.8	98	80-120	
Molybdenum	50	50.3	100	80-120	
Nickel	50	50.7	101	80-120	
Selenium	50	48.5	97	80-120	
Silver	25	24.3	97	80-120	
Thallium	50	49.6	99	80-120	
Vanadium	50	49.9	100	80-120	
Zinc	50	51.5	103	80-120	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 7471A

Project: BAE Systems

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-5A-1	Solid	Mercury	05/29/01	05/29/01	052901ms1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	133	116	76-136	14	0-16	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Project: BAE Systems

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: Total Digestion
Method: EPA 7471A

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-978	Solid	Mercury	05/29/01	010529 I	010529lcs1

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.835	0.917	110	82-124	

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 7199/3060A

ARCADIS Geraghty & Miller — Work Order No.: 01-05-1251
Page 1 of 1 — Date Analyzed: 05/29/01

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: SB-3-10

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Hexavalent Chromium	101	101	70 - 130	0	0 - 25

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Hexavalent Chromium	50.0	50.5	101	80 - 120

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS Geraghty & Miller
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Project: BAE Systems

Date Received: 05/25/01
Work Order No: 01-05-1251
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,737	Solid	GC/MS S	N/A	05/28/01	052601CS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	105	76-124	7	0-15	
Carbon Tetrachloride	78	80	66-137	2	0-16	
Chlorobenzene	98	105	72-129	7	0-21	
1,2-Dichlorobenzene	97	103	79-121	7	0-20	
1,1-Dichloroethene	100	109	59-131	8	0-14	
Toluene	97	102	72-130	6	0-16	
Trichloroethene	96	108	69-130	12	0-18	
Vinyl Chloride	98	105	51-136	6	0-21	
Methyl-t-Butyl Ether (MTBE)	92	90	69-149	2	0-17	
Tert-Butyl Alcohol (TBA)	77	62	49-145	22	0-25	
Diisopropyl Ether (DIPE)	97	96	73-133	1	0-25	
Ethyl-t-Butyl Ether (ETBE)	93	92	73-132	1	0-25	
Tert-Amyl-Methyl Ether (TAME)	92	92	82-120	0	0-25	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 01-05-1251

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
ND	Not detected at indicated reporting limit.

ARCADIS GERAGHTY & MILLER

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project Number/Name _____

Project Location BAE SYSTEMS

Laboratory CALSCIENCE

Project Manager RUHMKE / AGM

Sampler(s)/Affiliation GUYON / AGM

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Title 22 Metals	Hex Chrome 7199	VOC's 8260/5035				Remarks	Total
SB-4-5	S	5/25/01 0730		✓		✓					4
2 SB-4-10	S	0735		✓		✓				Hold Metals	4
3 SB-4-15	S	0755		✓		✓				Hold Metals	4
4 SB-4-20	S	0810		✓		✓				Hold	4
5 SB-4-25	S	0835		✓		✓				Hold	4
6 SB-2-10	S	0910				✓					3
7 SB-2-14	S	0930				✓					3
8 SB-3-10		1005			✓						1
9 SB-3A-13		1045			✓						1
10 SB-5A-1		1210		✓		✓					4
11 SB-5-5		1135		✓		✓					4
12 SB-5-10		1145		✓		✓				Hold Metals	4
13 SB-5-15		1150		✓		✓				Hold	4
14 SB-5-18		1205		✓		✓				Hold	4

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 48

					Seal Intact?
Relinquished by: [signature]	Organization: AGM	Date 5/25/01	Time 1628		
Received by: [signature]	Organization: CEL	Date 5/25/01	Time 1628		Yes No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____		Seal Intact?
Received by: _____	Organization: _____	Date / /	Time _____		Yes No N/A

Special Instructions/Remarks: please return results in 48hrs (TAT)

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-0597

ARCADIS GERAGHTY & MILLER

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project Number/Name _____

Project Location BAB SYSTEMS

Laboratory CALSCIENCE

Project Manager RUHMKE

Sampler(s)/Affiliation GUYON / AGM

Sample ID/Location		Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Title 22 Metals	VOCs 8260 / 5035					Remarks	Total
SB-6-1	15	S	5/25/01 1235		✓	✓						4
SB-6-5	16	S	1240		✓	✓						4
SB-6-10	17	S	1245		✓	✓					Hold Metals	4
SB-6-15	18	S	1250		✓	✓					Hold	4
SB-6-18	19	S	1255		✓	✓					Hold	4
SB-7-1	20	S	1310		✓	✓						4
SB-7-5	21	S	1315		✓	✓						4
SB-7-10	22	S	1325		✓	✓					Hold Metals	4
SB-7-15	23	S	1335		✓	✓					Hold	4
SB-7-19	24	S	1355		✓	✓					Hold	4

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 40

Relinquished by:	Organization: AGM	Date 5/25/01	Time 1628	Seal Intact?	
Received by:	Organization: CEL	Date 5/25/01	Time 1628	Yes	No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization:	Date / /	Time	Yes	No N/A

Special Instructions/Remarks: 48 hr TAT

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-0597

Appendix E

City Directory Search

The EDR-City Directory
Abstract

3171 South Bundy Drive
3171 South Bundy Drive
Los Angeles, CA 90066

April 24, 2001

Inquiry Number: 620973-8

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1528-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

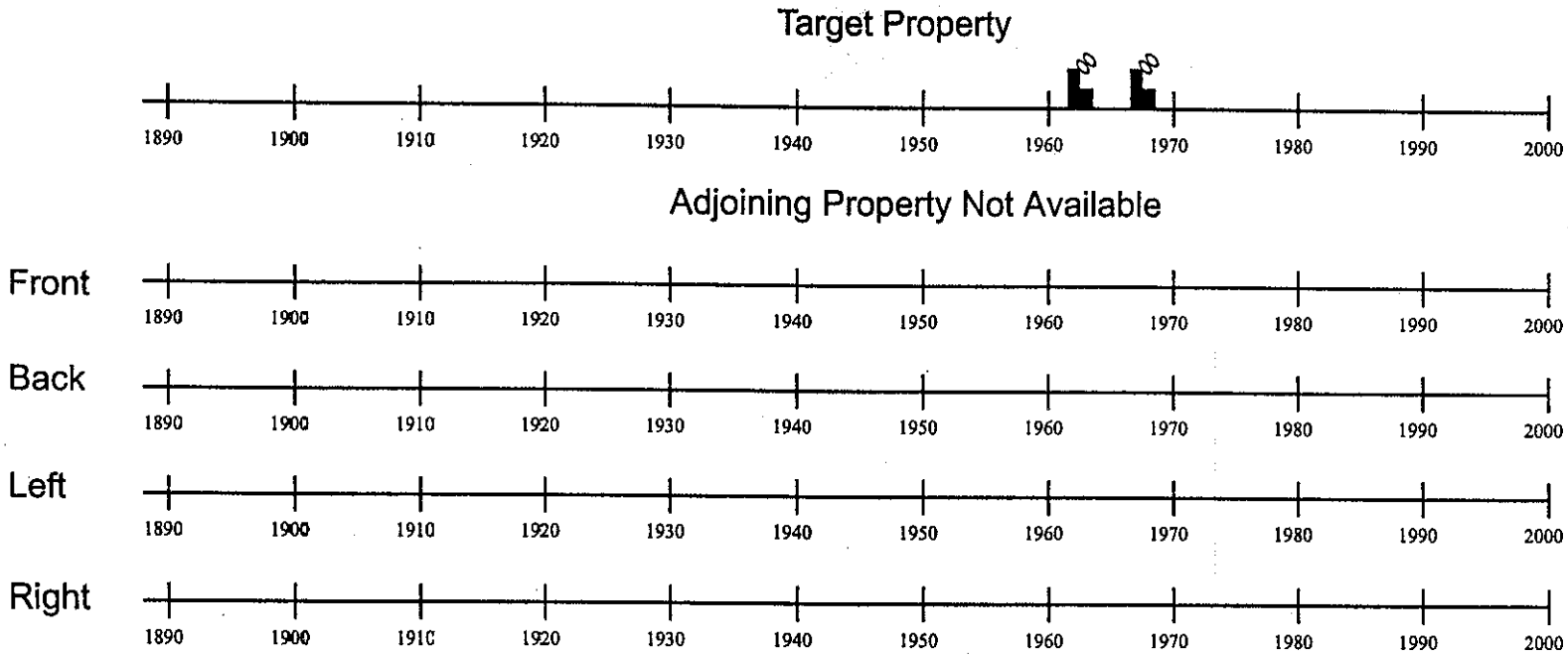
To meet the prior use requirements of ASTM E 1528-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1528-00 requires *All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.* (ASTM E 1528-00, Section 7.3.4, page 12. EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories
City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1528-00 specifies that a *review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice. (ASTM E 1528-00, Section 7.3.4, page 12.)*

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)
with questions or comments about your report.
Thank you for your business!

Environmental Data Resources, Inc.

Prior Use Report® Timeline



Legend:

= Historical Topographic Map (HT)

= National Wetland Inventory Map (WT) *

= Flood Prone/FEMA Maps (FP/FR) *

= Aerial Photos Included (P) *

= Aerial Photos Available *

= Residential (R)

= Commercial or Industrial (C)

Superscript number corresponds to graph ID in text

**Displayed on timeline when aerial photos, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.*

Target Property:	3171 South Bundy Drive	**Customer:**	ARCADIS Geraghty and Miller
Address:	3171 South Bundy Drive	**Contact:**	Reinhard Ruhmke
City/State/Zip:	Los Angeles, CA 90066	**Inquiry #:**	620973-8
		Date:	04/24/2001

4. SUMMARY

- *City Directories:*

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1963 through 1998. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
City Directories Apr 24, 2001

Target Property:
3171 South Bundy Drive
Los Angeles, CA 90066

PUR ID Year	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
-- 1963	Lear Siegler Inc		General Tel Co City Directory
-- 1968	Lear Siegler Inc		General Tel Co City Directory
-- 1973	Address not Listed in Research Source		General Tel Co City Directory
-- 1978	Address not Listed in Research Source		Haines City Directory
-- 1983	No Return		Haines City Directory
-- 1988	Address not Listed in Research Source		Haines City Directory
-- 1993	Address not Listed in Research Source		Haines City Directory
-- 1998	Address not Listed in Research Source		Haines City Directory

Adjoining Properties

SURROUNDING
S Bundy Dr
Los Angeles, CA 90066

PUR ID Year	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
1963	*** S BUNDY DR ***		General Tel Co City Directory
	Address Not Listed In Research Source (2876)		
	Severns Texaco Service Station (3010)		
	Address Not Listed In Research Source (3030)		
	No Addresses Listed Beyond Target Property		
1968	*** S BUNDY DR ***		General Tel Co City Directory
	Harry's Union Service (2876)		
	Severns Texaco Service Station (3010)		
	Address Not Listed In Research Source (3030)		
	No Addresses Listed Beyond Target Property		
1973	*** S BUNDY DR ***		General Tel Co City Directory
	Bill's Union (2876)		
	Severns Texaco Service Station (3010)		
	Berkshire/Berkus B A Assocs/Enviro Sys Intl (3030)		
	No Addresses Listed Beyond 3030		

PUR ID Year	Uses	Portion-Findings (FIM Information Only)	Source
1978	*** S BUNDY DR ***		Haines City Directory
	Avis Union Service (2876)		
	Servns Texaco Service Station (3010)		
	Bundy Escrow/Burnham Bldg Co/H S I Reservation (3030)		
	- Hotel Systems Intl/Urban West/Holders Capital Corp (3030)		
	No Addresses Listed Beyond 3030		
1983	*** S BUNDY DR ***		Haines City Directory
	Dave's Union 76 (2876)		
	George's Texaco (3010)		
	Bundy Escrow/Burnham Bldg Co/H S I Reservation (3030)		
	- Hotel Systems Intl/Urban West Community (3030)		
	No Addresses Listed Beyond 3030		
1988	*** S BUNDY DR ***		Haines City Directory
	Dave's Union 76 (2876)		
	George's Texaco (3010)		
	Chamberlain Ins Asc/Kelsey Natl Corp (3030)		
	Conroy's Florists (Unnumbered)		
	No Addresses Listed Beyond Unnumbered		
1993	*** S BUNDY DR ***		Haines City Directory
	Dave's Union 76 (2876)		
	VS Service Center (3010)		
	Kelsey Natl Corp (3030)		
	No Addresses Listed Beyond 3030		
1998	*** S BUNDY DR ***		Haines City Directory
	Dave's Unocal 76 (2876)		
	VS Texaco (3010)		
	Kelsey Design/Kelsey Natl Corp (3030)		
	No Addresses Listed Beyond 3030		

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address Change

Indicates that a change of address has occurred; indicates new address. A change of address may occur when a city, street, or the address ranges of a street are restructured.

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

Adjoining Back

Property directly to the rear of the target property.

Adjoining Front

Property directly in front of the target property.

Adjoining Left

Property directly to the left of the target property.

Adjoining Right

Property directly to the right of the target property.

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

Commercial

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial

Property that has either a commercial *or* an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.

Aerial photograph flyer: Department of National Resources (state).

D.O.T.

Aerial photograph flyer: Department of Transportation (state).

Fairchild

Aerial photograph flyer: Fairchild (private).

FIM

Fire Insurance Map

Flood Insurance Rate Maps

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.

Aerial photograph flyer: Forest Service (Federal).

Geonex

Aerial photograph flyer: Geonex (private).

M.C.

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Map Required Not Available in Local Collection

Property is located on a fire insurance map sheet not available in local and/or microfilm collection.

Mark Hurd

Aerial photograph flyer: Mark Hurd (private)

Multiple Locations

Indicates that there are two or more sites adjoining the target property's border.

N.A.P.P.

Aerial photograph flyer: National Aerial Photography Program (Federal).

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. *Applies only to city directories.*

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different that EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright, Frontleft, Backright,* and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors.

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.
Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.
Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.
Aerial photograph flyer: United States Geological Survey (Federal).

Vacant
May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

W.P.A.
Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE
Aerial photograph flyer: Wallace (private).

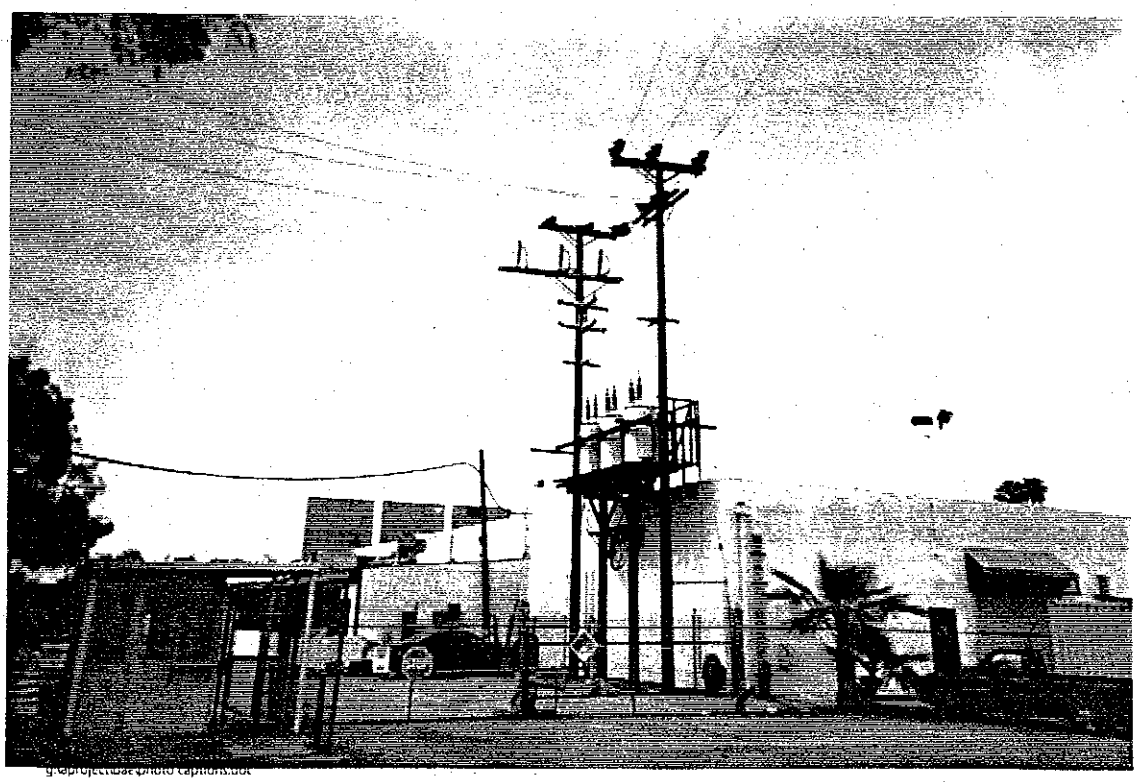
Appendix F

Annotated Photographs

Phase I/II Environmental Site Assessment

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 1.
Eastside of Building 1 and east parking Lot

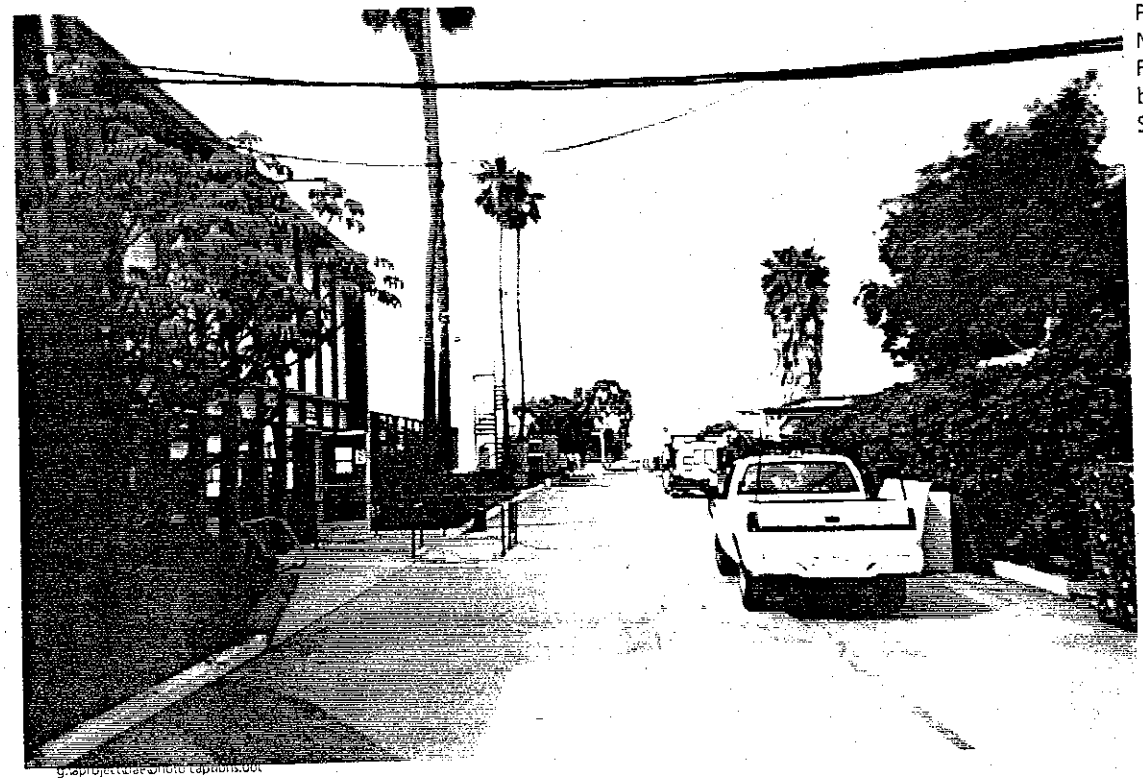


Photograph 2.
Electric transformers and location of former clarifier (by car)

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 3.
Former clarifier

Photograph 4.
Southside of facility

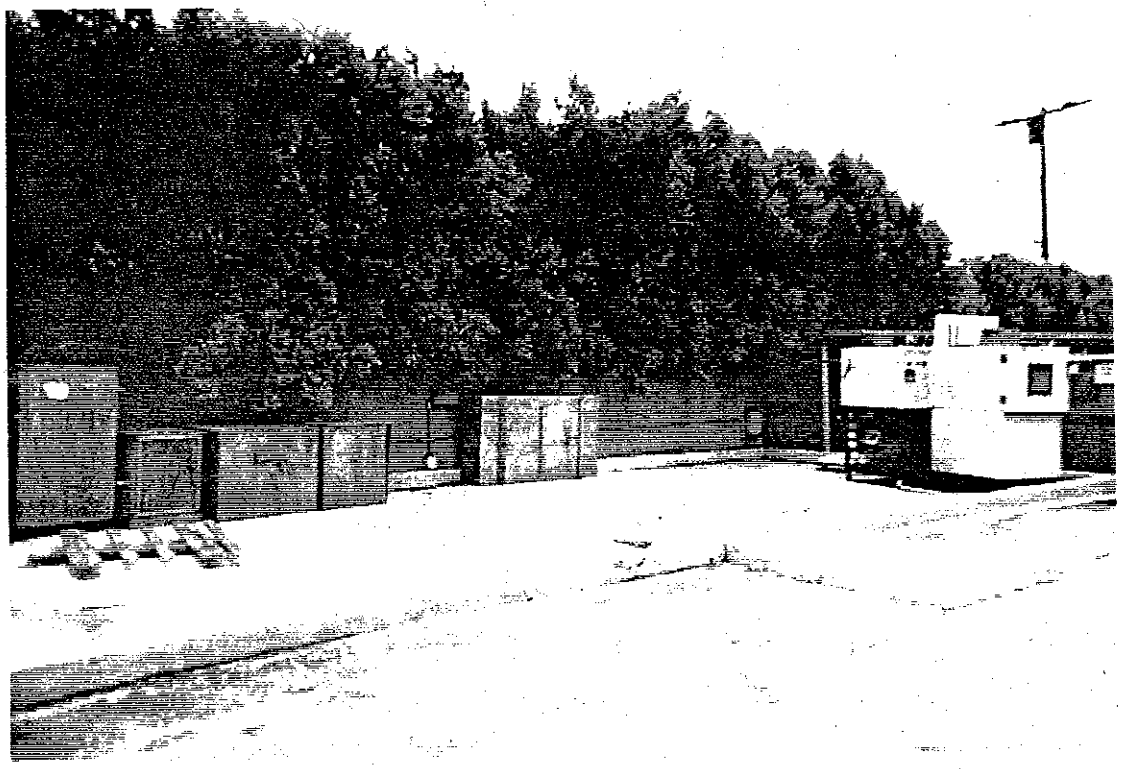


Photograph 5.
North side of facility.
Fence is boundary
between Los Angeles and
Santa Monica properties

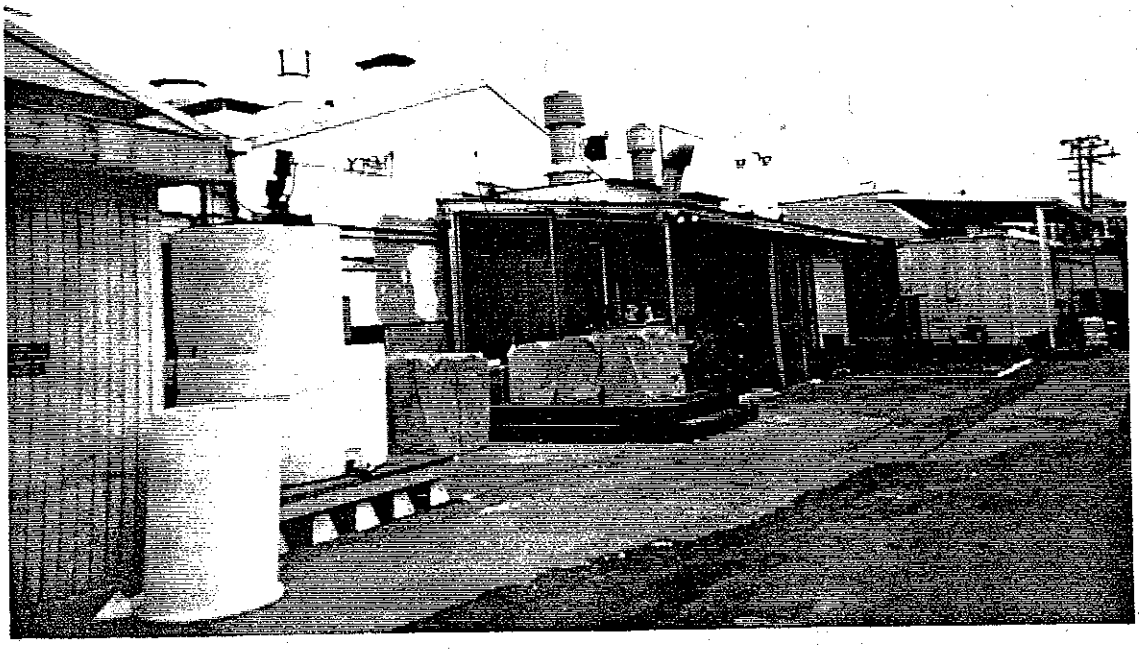
BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 6.
Westside of Building 5
(Bundy building)

Photograph 7.
West parking lot



Photograph 8.
Former hazardous waste storage yard



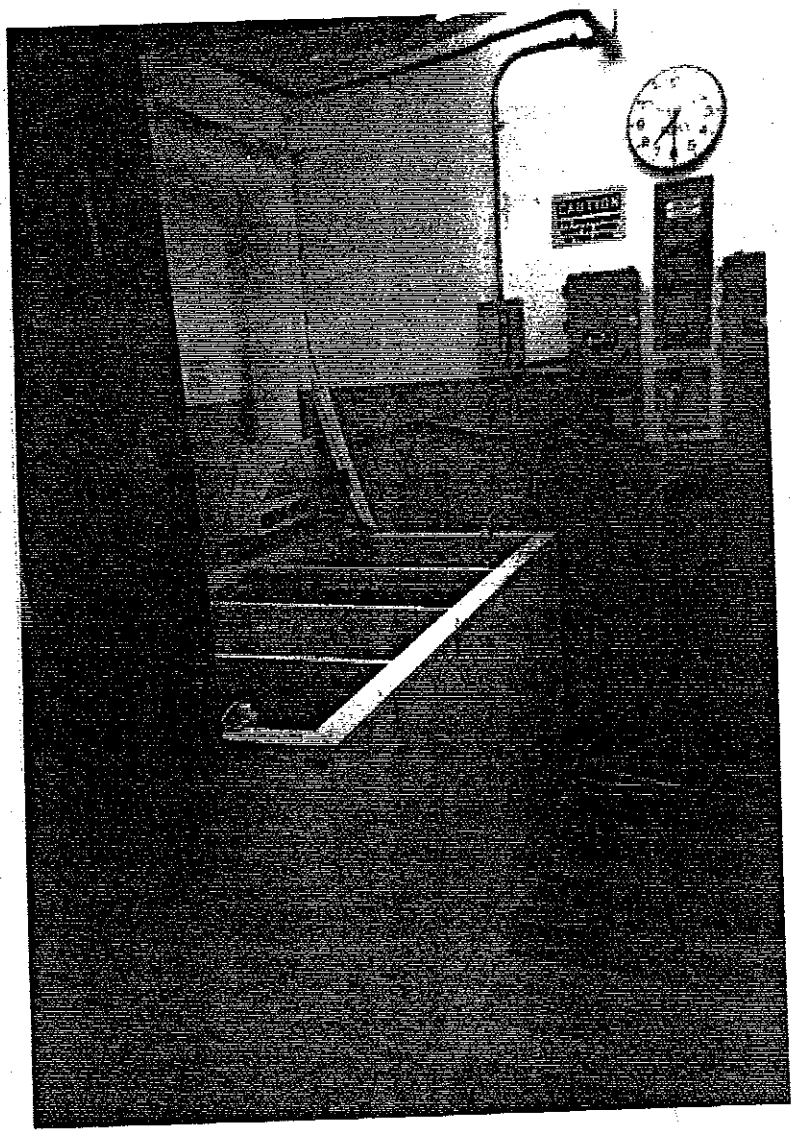
Photograph 9.
Satellite waste storage area and wastewater treatment plant

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 10.
Active clarifier
In wastewater treatment
plant.

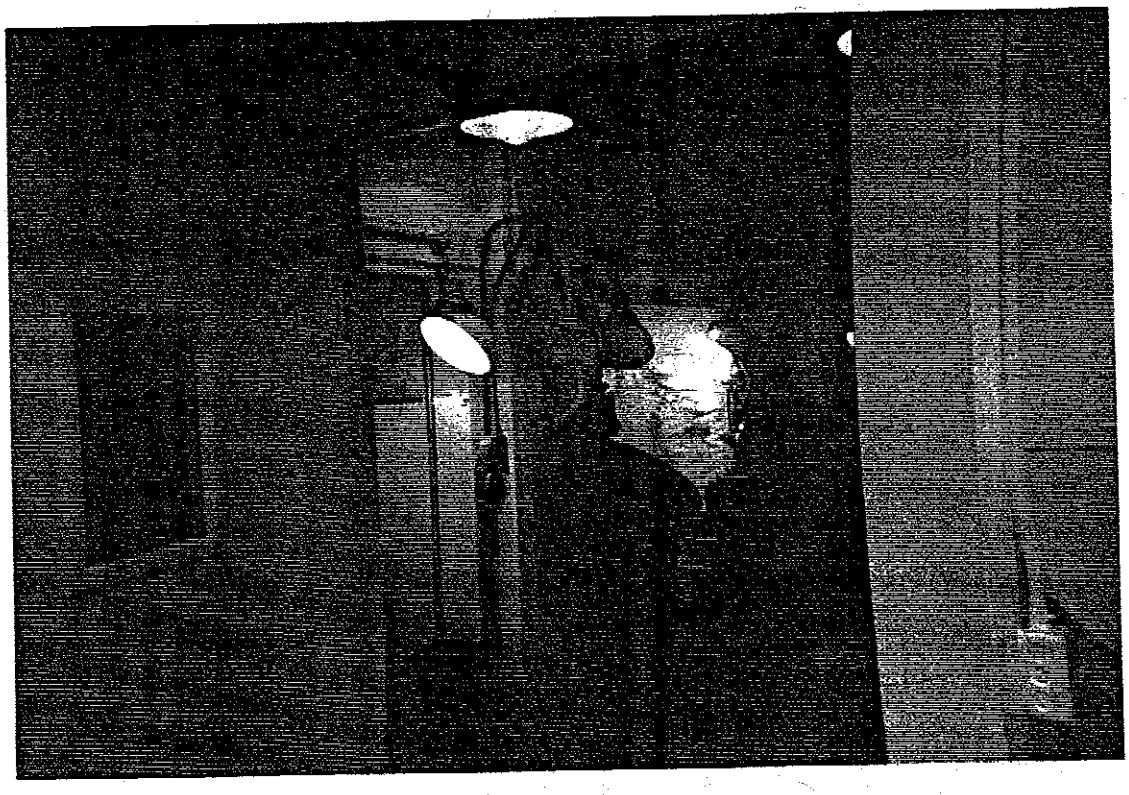
BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 11.
Plating room



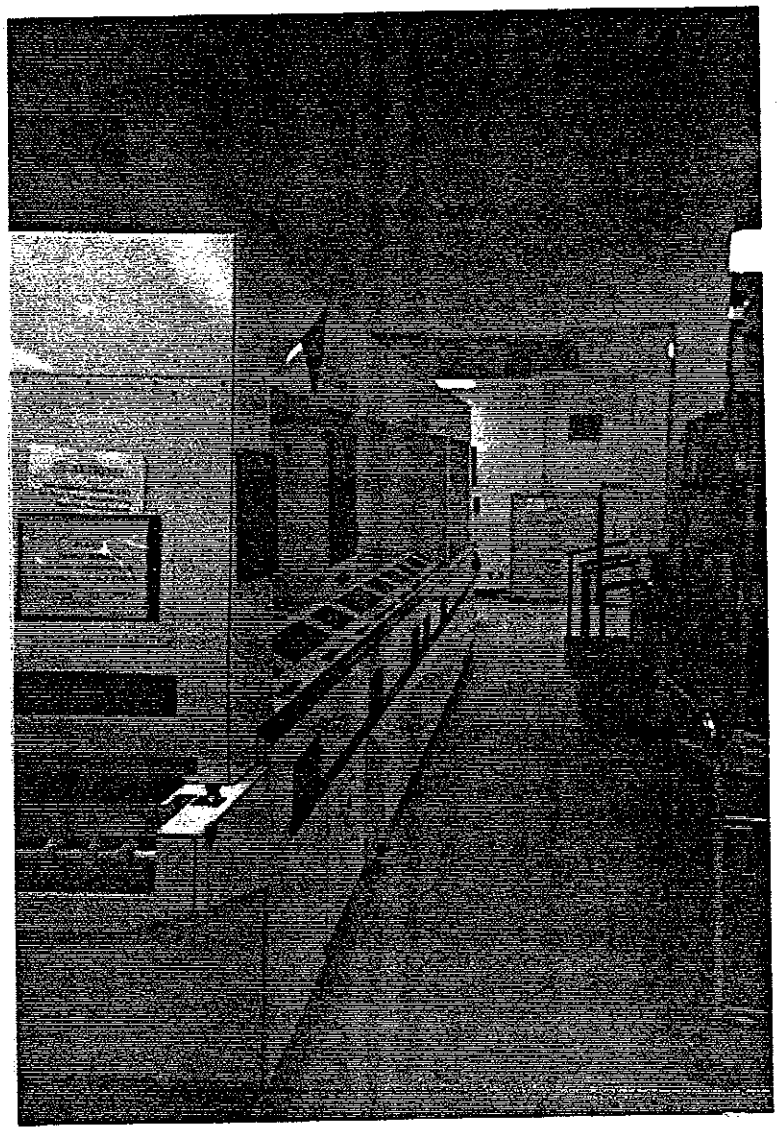
Phase I/II Environmental Site Assessment

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA



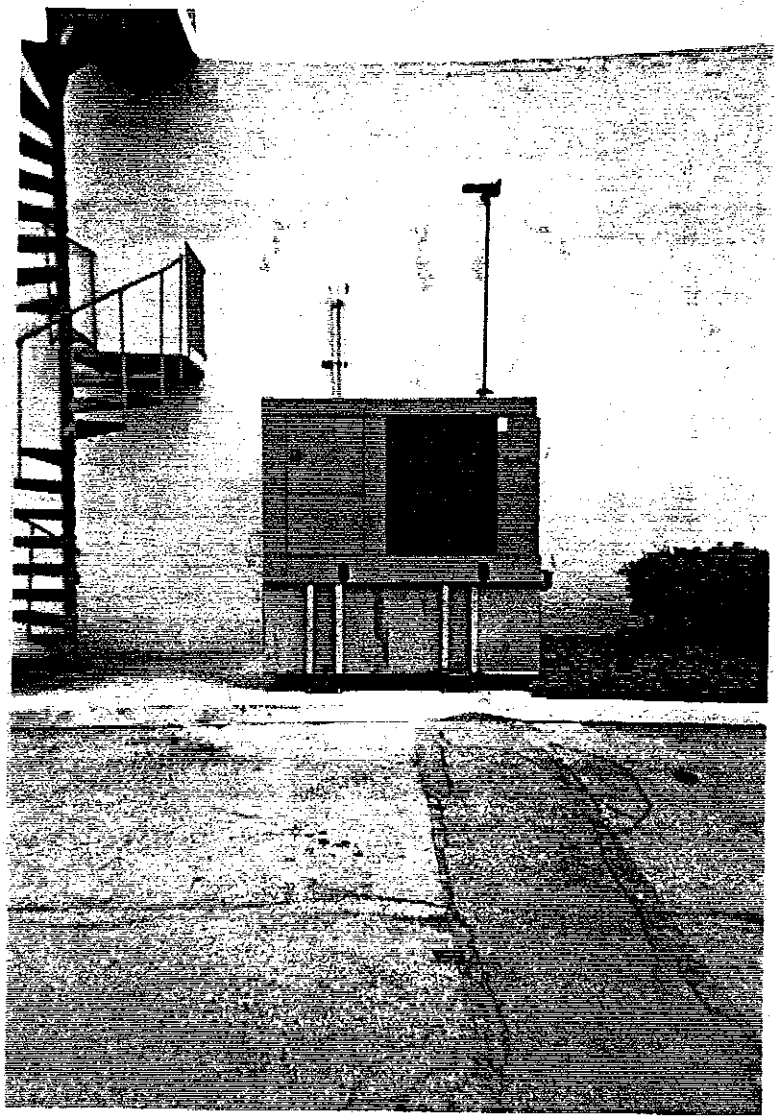
Photograph 12.
Paint booths

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA



Photograph 13.
Printed circuit board
cleaning machine

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

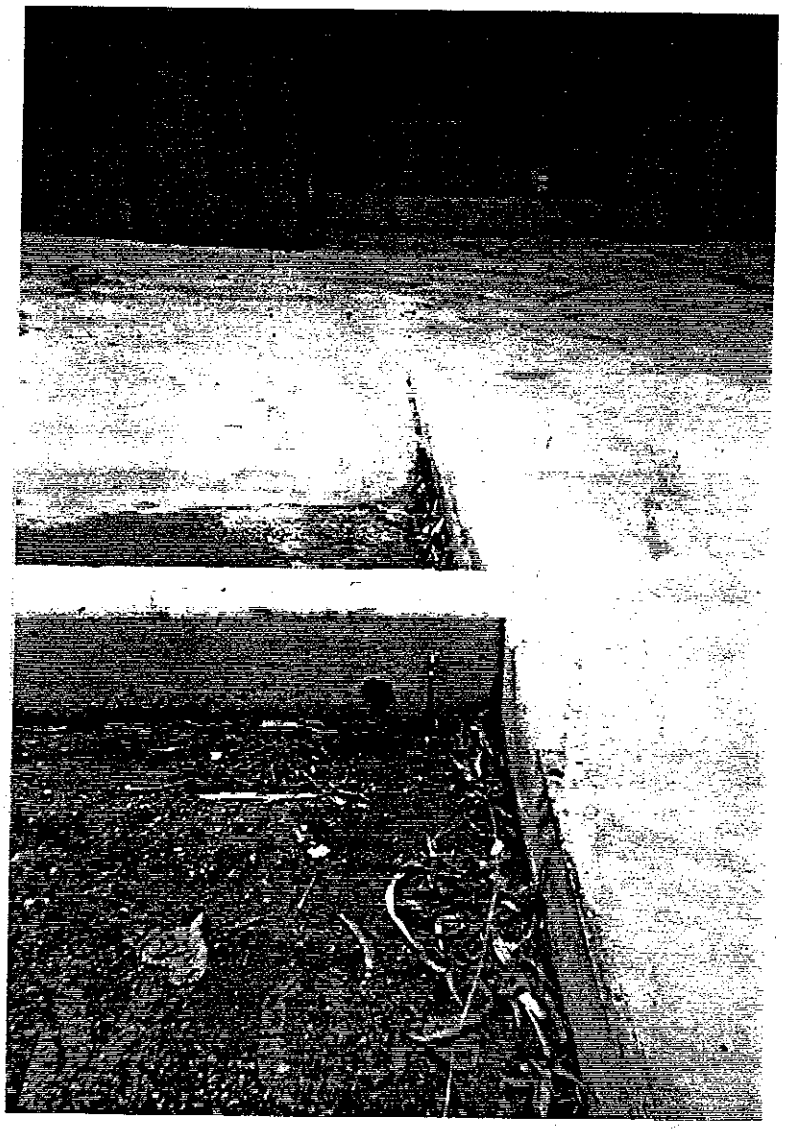


Photograph 14.
Emergency generator with diesel fuel tank on bottom

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 15.
Oil staining on roof of Building 1

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA



Photograph 16.
Drain from former hazardous waste storage yard

Phase I/II Environmental Site Assessment

BAE SYSTEMS
3171 South Bundy Dr.
Los Angeles, CA

Photograph 17.
Former paint storage area

Appendix G

Asbestos Report

Hygienetics Environmental

Hygienetics Environmental Services, Inc.

Suite A
1920 East Warner Avenue
Santa Ana, CA 92705

Phone: (949) 955-0201
Fax: (949) 955-0965

May 1, 2001

Mr. Steve Figgins
Arcadis Geraghty & Miller
1400 N. Harbor Blvd., Suite 700
Fullerton, California 92825

Re: Asbestos Inspection Report, 3173 S. Bundy, Los Angeles, California
Hygienetics Project Number 4313.015

Dear Mr. Figgins:

Hygienetics Environmental Services, Inc. (Hygienetics Environmental) was retained by Environmental Partners to perform an asbestos investigative survey at the above referenced property. The purpose of the investigation was to identify, locate and quantify accessible asbestos-containing materials (ACM) within the building. The inspection was limited to friable and damaged non-friable materials. The on-site asbestos sampling was performed by Norm Kramer a California Accredited Asbestos Consultant.

Asbestos-Containing Materials

The on-site inspection consisted of identifying, quantifying and bulk sample collection of suspect ACM. Samples were collected using wet methods to minimize fiber release. The suspect materials were sampled using a knife or coring device to cut through the material's entire thickness, to ensure that a cross-section of the material had been obtained. The material was then placed in a labeled container, which was sealed and submitted to the laboratory for analysis.

All samples collected during this survey were submitted to Hygienetics Laboratory Services, Inc. (HLS) for analysis. HLS is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST); formerly the National Bureau of Standards, and a participant in the California Environmental Protection Agency (Cal/EPA) Environmental Laboratory Accreditation Program for asbestos analysis. All samples were analyzed by polarized light microscopy with dispersion staining (PLM/DS) in accordance with the United States Environmental Protection Agency (USEPA) Interim Method for bulk asbestos identification.

Hygienetics Environmental collected and analyzed a total of 48 bulk samples of materials suspected of containing asbestos (see Appendix A for analytical results). Based on analytical results, it was determined that the acoustic ceiling materials, all floor tile mastic and most floor tiles samples collected contained asbestos fibers. The enclosed table lists by the sample numbers, sample location, suspect materials and analytical results.

Bulk Sample Analysis Results
3171 Bundy Drive
Los Angeles, California

Sample ID #	Location	Material	Asbestos %	Area
B1-1	**Throughout Hallways**	**12" Brown Floor Tile***	**2%**	**6000 S.F.**
B1-2	**Throughout Hallways**	**12" Brown Floor Tile***	**2%**	**6000 S.F.**
B1-3	**Throughout Hallways**	**12" Brown Floor Tile***	**2%**	**6000 S.F.**
B1-4	**Under Tiles**	**Floor Tile Mastic**	**10%**	**6000 S.F.**
B1-5	**Under Tiles**	**Floor Tile Mastic**	**10%**	**6000 S.F.**
B1-6	Labs	Blue Floor Tile	N.D.	**6000 S.F.**
B1-7	**Under Tiles**	**Floor Tile Mastic**	N.D.	**6000 S.F.**
B1-8	Labs	Blue Floor Tile	N.D.	**6000 S.F.**
B1-9	**Under Tiles**	**Floor Tile Mastic**	N.D.	**6000 S.F.**
B1-10	Labs	Blue Floor Tile	N.D.	**6000 S.F.**
B1-11	**Under Tiles**	**Floor Tile Mastic**	N.D.	**6000 S.F.**
B1-12	Environmental Testing	Blue sheet vinyl	N.D.	
B1-13	Environmental Testing	Blue sheet vinyl	N.D.	
B1-14	Environmental Testing	Blue sheet vinyl	N.D.	
B1-15	Restrooms	Brown Sheet Vinyl	N.D.	
B1-16	Restrooms	Brown Sheet Vinyl	N.D.	
B1-17	Restrooms	Brown Sheet Vinyl	N.D.	
B1-18	Main Hallway	Drywall Mud	N.D.	
B4-1	Restrooms	Brown Sheet Vinyl	N.D.	
B4-2	Restrooms	Brown Sheet Vinyl	N.D.	
B4-3	Restrooms	Brown Sheet Vinyl	N.D.	
B4-4	**Stairwells**	**12" Brown Floor Tile**	**2%**	**800 S.F.**
B4-5	**Stairwells**	**12" Brown Floor Tile**	**2%**	**800 S.F.**
B4-6	**Stairwells**	**12" Brown Floor Tile**	**2%**	**800 S.F.**
B4-7	**Under Tiles**	**Floor Tile Mastic**	**20%**	**800 S.F.**
B4-8	**Under Tiles**	**Floor Tile Mastic**	**20%.**	**800 S.F.**

Bulk Sample Analysis Results 3171 Bundy Drive Los Angeles, California				
Sample ID #	**Location**	**Material**	**Asbestos %**	**Area**
B4-9	**Under Tiles**	**Floor Tile Mastic**	**20%**	**800 S.F.**
B4-10	Steel Beams	Fireproofing	N.D.	
B4-11	Steel Beams	Fireproofing	N.D.	
B4-12	Steel Beams	Fireproofing	N.D.	
BB-1	Restrooms	Brown Sheet Vinyl	N.D.	
BB-2	Restrooms	Brown Sheet Vinyl	N.D.	
BB-3	Restrooms	Brown Sheet Vinyl	N.D.	
BB-4	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-5	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-6	Throughout Hallways	12" Brown Floor Tile	N.D.	
BB-7	**Under Tiles**	**Floor Tile Mastic**	**5%**	**4000 S.F.**
BB-8	**Under Tiles**	**Floor Tile Mastic**	**5%.**	**4000 S.F.**
BB-9	**Under Tiles**	**Floor Tile Mastic**	**5%**	**4000 S.F.**
BB-10	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-11	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-12	Above Suspended Ceiling	1' Ceiling Tiles	N.D.	
BB-13	**Throughout First Floor**	**Acoustic Ceiling**	**20%**	**7000 S.F.**
BB-14	**Throughout First Floor**	**Acoustic Ceiling**	**20%**	**7000 S.F.**
BB-15	**Throughout First Floor**	**Acoustic Ceiling**	**20%**	**7000 S.F.**
BB-16	**Penthouse**	**Pipe Elbows**	**10%**	**4 Ea.**
BB-17	**Penthouse**	**Pipe Elbows**	**10%**	**4 Ea.**
BB-18	**Penthouse**	**Pipe Elbows**	**10%**	**4 Ea.**

N.D. – None Detected * Also found in Building #3

B1 – Building #1, B4 – Building #4, BB – Bundy Building

Bold type indicates samples that contain asbestos

The Federal Occupational Safety and Health Administration regulation (29 CFR 1910.1001) and California Occupational Safety and Health Administration regulation (CCR Title 8, Section 1529) define asbestos-containing material (ACM) as those materials having an asbestos content of greater than one percent. Additionally, California Occupational Safety and Health Administration regulation (CCR Title 8, Section 1529) defines asbestos-containing construction material as those materials having an asbestos content of greater than one tenth of one percent (>0.1%) by weight.

Conclusions

Prior to impact by renovation or demolition activities, asbestos-containing materials must be removed and disposed of in accordance with all applicable regulations by a licensed and registered asbestos abatement contractor utilizing engineering controls, trained personnel, and work methods that minimize potential fiber release. Hygienetics recommends that these activities are designed and monitored by a state certified asbestos consultant. Current estimated abatement cost for the removal of acoustic ceiling material is $5.00/square feet (sf) and floor tile is $2.00/sf. These cost do not include mobilization fees and consultant costs.

The roofing materials were not part of this inspection. Therefore, it must be presumed that the roofing felts and roof penetration mastic contain asbestos.

The friable acoustic ceiling material was in fair to good condition. However, during the inspection construction workers were knocking holes in the acoustic ceiling in the Bundy Building, to install a suspended ceiling. Acoustic ceiling debris was observed scattered throughout several areas on the first floor of the building. The floor tiles/mastic were generally in good condition. These materials can be effectively managed through an operations and maintenance (O&M) program.

Since the survey was not destructive in nature, Hygienetics recommends that additional destructive sampling (i.e. dismantling wall systems) be performed prior to demolition or extensive renovations that may impact materials not accessible during the survey.

Should building materials not sampled as part of this survey is encountered during demolition at this facility; we recommended that you contact Hygienetics Environmental at that time for consultation with regard to further testing, analysis and abatement recommendations.

Should you have any questions, or require additional information please do not hesitate to contact me.

Sincerely,
Hygienetics Environmental Services, Inc.

Norbert E. Kramer
Project Manager
California Certified Asbestos Consultant - 92-0582

Enclosure
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APPENDIX A

ASBESTOS ANALYTICAL RESULTS

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD | PAGE 1 OF 4

PROJECT: 3171 Bondy

REQUESTED COMPLETION DATE: 4/24/01

JOB NO.: 4313.015 BATCH: -7558

CLIENT NAME: Groom

SAMPLER'S NAME: D. Kwan

SIGNATURE:

DATE: TIME:

METHOD OF SHIPMENT:

LAB NAME: HAS

ADDRESS: 9[illegible]

RECEIVED BY: [illegible]

DATE: 4/20/01 TIME: 1150 SIGNATURE:

ANALYST: [illegible] DATE: 4-24-01

LAB QC APPROVAL:

☐ ANALYZE TO FIRST POSITIVE BY GROUP ☐ FAX REPORT

☐ PRINTED REPORT REQUIRED ☐ E-MAIL REPORT

	SAMPLE ID NO.	TYPE*	FLOOR #	DESCRIPTION OF SAMPLING LOCATION & COMMENTS	GROUP
1	B4-7			Mastic under tile	
2	B4-8			"	
3	B4-9			"	
4	B4-10			Five positive Beams only	
5	B4-11			" " "	
6	B4-12			" " "	
7	BB-1			Brown sheet vinyl W.W.	5/10
8	BB-2			" " "	
9	BB-3			" " "	
10	BB-4			12" Brown FT - Hallways + Rooms	20/C
11	BB-5			"	
12	BB-6			"	

PLM ANALYTICAL LABORATORY RESULTS

	LAB ID NO.	ASBESTOS CONCENTRATIONS**						CONCENTRATIONS OF OTHER COMPONENTS							SAMPLE COLOR	PC CONC	NY-PC CONC	CA-PC CONC	ANALYSIS COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT					
1	0407358-001	20											80		Black				
2	002	20											80		Black				
3	003	20											80		Black				
4	004								70				30		Gray				
5	005								70				30		Gray				
6	006								70				30		Gray				
7	007									20	20		60		Gray				
8	008									20	20		60		Gray				
9	009									20	20		60		Gray				
10	010												100		Brown				Recommend TEM
11	011												100		Brown				
12	012												100		Brown				

ADDITIONAL COMMENTS:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	NO. OF SAMPLES SUBMITTED	RATE
B = BULK MATERIAL D = DEBRIS SAMPLE SDT = SURFACE DUST—TAPE SAMPLE SDV = SURFACE DUST—VACUUM SAMPLE SDG = SURFACE DUST—GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE **CONCENTRATIONS DETERMINED BY CALIBRATED VISUAL ESTIMATION TECHNIQUE UNLESS OTHERWISE NOTED	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBROUS MATERIAL OT = OTHER PC = POINT COUNTING NY-PC = NEW YORK STATE POINT COUNTING CA-PC = CALIFORNIA STATE POINT COUNTING		CONFIRMATION NO.:

WHITE (ORIGINAL) SHEET — LABORATORY YELLOW SHEET — FIELD OFFICE REV. 07/2000

ASBESTOS BULK SAMPLE DATA FORM

PROJECT: 3171 Bundy

	SAMPLE ID NO.	TYPE*	FLOOR #	DESCRIPTION OF SAMPLING LOCATION & COMMENTS	GROUP
1	B1-13			Blue sheet vinyl/ ~~EB~~ Env. Test Lab	
2	B1-14			"	
3	B1-15			Brown sheet vinyl/ Restroom	
4	B1-16			"	
5	B1-17			"	
6	B1-18			Drywall mud	
7	B4-1			Sheet vinyl/ Kit. -4th fl	5W
8	B4-2			"	/
9	B4-3			"	/
10	B4-4			Brown 12" Tile Stairwells	6W
11	B4-5			"	
12	B4-6			"	

ACCOUNTABILITY RECORD PAGE 2 OF 4

REQUESTED COMPLETION DATE: 4/24/01

JOB NO.: 4313.015 BATCH: LA-7358

CLIENT NAME: C+M

SAMPLER'S NAME: N. Kuramer

SIGNATURE: [signature]

DATE: 4/19/01 TIME:

METHOD OF SHIPMENT:

LAB NAME: HLS

ADDRESS: 98 N Washington St, Bo...

RECEIVED BY: [signature]

DATE: 4/20/01 TIME: 1130 SIGNATURE: [signature]

ANALYST: Kevin [signature] DATE: 4-24-01

LAB QC APPROVAL:

☐ ANALYZE TO FIRST POSITIVE BY GROUP ☐ FAX REPORT

☒ PRINTED REPORT REQUIRED ☐ E-MAIL REPORT

PLM ANALYTICAL LABORATORY RESULTS

	LAB ID NO.	ASBESTOS CONCENTRATIONS**						CONCENTRATIONS OF OTHER COMPONENTS							SAMPLE COLOR	PC CONC	NY-PC CONC	CA-PC CONC	ANALYSIS COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT					
1	0807358-013									10			90		Blue				
2	014									10			90		Blue				
3	015									30	10		60		Gray				
4	016									30	10		60		Gray				
5	017									30	10		60		Gray				
6	018												100		White				
7	019									30	10		60		Gray				
8	020									30	10		60		Gray				
9	021									30	10		60		Gray				
10	022	2											98		Brown				
11	023	2											98		Brown				
12	024	2											98		Brown				

ADDITIONAL COMMENTS:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	NO. OF SAMPLES SUBMITTED	RATE
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST—TAPE SAMPLE SD/V = SURFACE DUST—VACUUM SAMPLE SD/G = SURFACE DUST—GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE **CONCENTRATIONS DETERMINED BY CALIBRATED VISUAL ESTIMATION TECHNIQUE UNLESS OTHERWISE NOTED	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBROUS MATERIAL OT = OTHER PC = POINT COUNTING NY-PC = NEW YORK STATE POINT COUNTING CA-PC = CALIFORNIA STATE POINT COUNTING	CONFIRMATION NO.:	

WHITE (ORIGINAL) SHEET — LABORATORY YELLOW SHEET — FIELD OFFICE REV. 07/2000

ASBESTOS BULK SAMPLE DATA FORM

ACCOUNTABILITY RECORD PAGE 3 OF 4

PROJECT: 3171 S. Bundy

	SAMPLE ID NO.	TYPE*	FLOOR #	DESCRIPTION OF SAMPLING LOCATION & COMMENTS	GROUP
1	B1-1			12" Brown FT - Hallways	
2	B1-2			"	
3	B1-3			"	
4	B1-4			mastic undertile	
5	B1-5			"	
6	B1-6			Blue 9x9 LABS	
7	B1-7			mastic	
8	B1-8			Blue 9x9	
9	B1-9			mastic	
10	B1-10			Blue 9x9	
11	B1-11			Mastic	
12	B1-12			Blue sheeting / EDS Control Room	4C

REQUESTED COMPLETION DATE: 4/24/01
JOB NO.: 4313.015 BATCH: LA-7358
CLIENT NAME: G+M
SAMPLER'S NAME: N. Kuaner
SIGNATURE: [signature]
DATE: 4/19/01 TIME:
METHOD OF SHIPMENT: FedX
LAB NAME: HLS
ADDRESS: 98 N Washington St, Bst
RECEIVED BY: [signature]
DATE: 4/20/01 TIME: 1150 SIGNATURE: [signature]
ANALYST: [signature] DATE: 4-24-01
LAB QC APPROVAL:

☐ ANALYZE TO FIRST POSITIVE BY GROUP ☐ FAX REPORT
☑ PRINTED REPORT REQUIRED ☐ E-MAIL REPORT

PLM ANALYTICAL LABORATORY RESULTS

	LAB ID NO.	ASBESTOS CONCENTRATIONS**						CONCENTRATIONS OF OTHER COMPONENTS							SAMPLE COLOR	PC CONC	NY-PC CONC	CA-PC CONC	ANALYSIS COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT					
1	067358-025	2											98		Brown				
2	026	2											98		Brown				
3	027	2											98		Brown				
4	028	10											90		Black				
5	029	10											90		Black				
6	030												100		Blue				Recommend TEM
7	031	5											95		Black				
8	032												100		Blue				Recommend TEM
9	033	5											95		Black				
10	034												100		Blue				Recommend TEM
11	035	5											95		Black				
12	036									5	5		90		Blue				

ADDITIONAL COMMENTS:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	NO. OF SAMPLES SUBMITTED	RATE
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST—TAPE SAMPLE SD/V = SURFACE DUST—VACUUM SAMPLE SD/G = SURFACE DUST—GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE **CONCENTRATIONS DETERMINED BY CALIBRATED VISUAL ESTIMATION TECHNIQUE UNLESS OTHERWISE NOTED	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBROUS MATERIAL OT = OTHER PC = POINT COUNTING NY-PC = NEW YORK STATE POINT COUNTING CA-PC = CALIFORNIA STATE POINT COUNTING	CONFIRMATION NO.:	

WHITE (ORIGINAL) SHEET — LABORATORY YELLOW SHEET — FIELD OFFICE REV. 07/2000

ASBESTOS BULK SAMPLE DATA FORM

PROJECT: 3171 Bundy

ACCOUNTABILITY RECORD | PAGE 4 OF 4

REQUESTED COMPLETION DATE: 4/24/01

JOB NO.: 4313.015 BATCH: - 735Y

CLIENT NAME: [redacted] R+A

SAMPLER'S NAME: D. Knutson

SIGNATURE:

DATE: 4/6/01 TIME:

METHOD OF SHIPMENT: Fed-Ex

LAB NAME: EMSL Analytical, Inc. Hygienetics

ADDRESS: Boston

RECEIVED BY: Karen Gulsen DATE: 4/10/01 TIME: 1150 SIGNATURE:

ANALYST: Kevin Ge DATE: 4-24-01

LAB QC APPROVAL:

☐ ANALYZE TO FIRST POSITIVE BY GROUP ☐ FAX REPORT

☑ PRINTED REPORT REQUIRED ☐ E-MAIL REPORT

	SAMPLE ID NO.	TYPE*	FLOOR #	DESCRIPTION OF SAMPLING LOCATION & COMMENTS	GROUP
1	BB-7			Mastic under Tile Throughout	
2	BB-8			"	
3	BB-9			"	
4	BB-10			1x1 Fissure CT Above 2x2 (Wall)	
5	BB-11			"	
6	BB-12			"	
7	BB-13			Acoustic ceiling 1st Floor scattered	5K
8	BB-14			" "	
9	BB-15			" "	
10	BB-16			Pipe elbow, Penthouse	2
11	BB-17			" "	
12	BB-18			" "	

PLM ANALYTICAL LABORATORY RESULTS

	LAB ID NO.	ASBESTOS CONCENTRATIONS**						CONCENTRATIONS OF OTHER COMPONENTS							SAMPLE COLOR	PC CONC	NY-PC CONC	CA-PC CONC	ANALYSIS COMMENTS
		CH	AM	CR	AC	AN	TR	FG	MW	CL	SY	HA	NF	OT					
1	261358-037	5											95		Black				
2	038	5											95		Black				
3	039	5											95		Black				
4	040								80	<1			20		Gray				
5	041								80	<1			20		Gray				
6	042								80	<1			20		Gray				
7	043	20											80		tan				
8	044	20											80		tan				
9	045	20											80		tan				
10	046	10							70				20		Gray				
11	047	10							70				20		Gray				
12	048	10							70				20		Gray				

ADDITIONAL COMMENTS:

*SAMPLE TYPE CODES	ASBESTOS TYPE CODES	ABBREVIATIONS FOR OTHER COMPONENTS	NO. OF SAMPLES SUBMITTED	RATE
B = BULK MATERIAL D = DEBRIS SAMPLE SD/T = SURFACE DUST—TAPE SAMPLE SD/V = SURFACE DUST—VACUUM SAMPLE SD/G = SURFACE DUST—GRAB SAMPLE	CH = CHRYSOTILE AM = AMOSITE CR = CROCIDOLITE AC = ACTINOLITE AN = ANTHOPHYLLITE TR = TREMOLITE **CONCENTRATIONS DETERMINED BY CALIBRATED VISUAL ESTIMATION TECHNIQUE UNLESS OTHERWISE NOTED	FG = FIBERGLASS MW = MINERAL WOOL CL = CELLULOSE SY = SYNTHETIC FIBER HA = HAIR NF = NON-FIBROUS MATERIAL OT = OTHER PC = POINT COUNTING NY-PC = NEW YORK STATE POINT COUNTING CA-PC = CALIFORNIA STATE POINT COUNTING		
			CONFIRMATION NO.:	

WHITE (ORIGINAL) SHEET — LABORATORY YELLOW SHEET — FIELD OFFICE

REV. 07/2000

Appendix I

EST Soil Gas Report

May 29, 2001

EST1928

Mr. Reinhard Ruhmke
ARCADIS Geraghty and Miller, Inc.
1400 N. Harbor Boulevard, Suite 700
Fullerton, California 92835-4127

Subject: Soil Gas Survey Report
BAE Systems Facility
3171 South Bundy Drive
Santa Monica, California

Dear Mr. Ruhmke

Environmental Support Technologies, Inc. (EST) is pleased to submit the results of the soil gas survey conducted at the BAE Systems facility located at 3171 South Bundy Drive in Santa Monica, California. On May 11 and 14, 2001, EST installed and sampled twenty six (26) 5-foot soil gas sampling probes. The soil gas samples were subsequently analyzed on-site for volatile organic compounds (VOCs) including halogenated and aromatic hydrocarbons. The soil gas survey was conducted in general accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

A summary of field analytical results for soil gas samples is provided in Table 1. Factors that may affect the distribution of VOCs in the subsurface are presented in Appendix A. Field analytical reports, quality assurance/quality control data, and reportable limits of quantitation for halogenated and aromatic hydrocarbons are provided in Appendix B. EST's standard methods and procedures for soil gas surveys are provided in Appendix C.

EST appreciates the opportunity to assist ARCADIS Geraghty and Miller, Inc. on this project. Should you have any questions or require additional information, please contact me at (949) 457-9664.

Sincerely,

Environmental Support Technologies, Inc.

Kevin B. Aardahl

Kevin B. Aardahl
Project Manager

23276 Del Lago Drive • Laguna Hills, California 92653 • 949/457-9664 • Fax 949/457-0664

LIMITATIONS AND WARRANTIES

This letter report titled " Soil Gas Survey Report – BAE Systems Facility, 3171 South Bundy Drive, Santa Monica, California," has been prepared for the exclusive use of ARCADIS Geraghty and Miller, Inc. and assigned interested parties. The report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made. The information provided in this report is based on measurements performed in specific areas during a specific limited period of time.

Soil gas sample analysis is conducted using laboratory-grade gas chromatography equipment. Chemical compound identification is performed using quantitative methods. Chemical compound identities should be verified using gas chromatography/mass spectrometric analyses methods. Soil gas survey data should be used in conjunction with other site specific data.

Kevin B. Aardahl
Project Manager

Kirk A. Thomson, RG, CHG, REA II
Laboratory Director/Principal Hydrogeologist

May 29, 2001

TABLES

TABLE 1

SUMMARY OF FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES

BAE SYSTEMS FACILITY
3171 SOUTH BUNDY DRIVE
SANTA MONICA, CALIFORNIA

5/16/01 File: 1928 T1

PROBE NUMBER	DATE OF SAMPLING	PROBE DEPTH (ft)	SAMPLING EVENTS	F-113 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	TOL (µg/L)	PCE (µg/L)	EBENZ (µg/L)	m+p-XYL (µg/L)	o-XYL (µg/L)
SG1-5	5/11/01	5	3	1.4	8.2	ND<1	1.3	ND<1	1.4	ND<1	ND<1	ND<1	ND<1
SG2-5	5/11/01	5	1	1.3	8.8	ND<1	1.6	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG3-5	5/11/01	5	1	2.3	12	ND<1	1.8	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG4-5	5/11/01	5	1	5.3	24	ND<1	3.5	1.3	ND<1	ND<1	ND<1	ND<1	ND<1
SG5-5	5/11/01	5	1	6.7	28	ND<1	4.4	1.3	69	ND<1	15	52	15
SG6-5	5/11/01	5	2	9.2	43	ND<1	6.1	2.9	674	1.1	30	92	16
SG7-5	5/11/01	5	1	ND<5	5.1	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
SG8-5	5/11/01	5	2	1.3	19	ND<1	7.2	2.6	263	1	12	38	7.7
SG9-5	5/11/01	5	1	2.3	12	ND<1	ND<1	ND<1	22	ND<1	1.1	3.7	ND<1
SG10-5	5/11/01	5	1	10	51	ND<1	1.7	3.3	66	ND<1	5.3	19	4
SG11-5	5/11/01	5	1	5.4	32	ND<1	ND<1	3.9	49	ND<1	2.6	9.2	1.7
SG12-5	5/11/01	5	1	16	92	ND<1	1.6	14	3.4	1.3	ND<1	ND<1	ND<1
SG13-5	5/11/01	5	1	ND<2	11	ND<2	5.1	ND<2	30	ND<2	ND<2	10	ND<2
SG14-5	5/11/01	5	1	1.4	21	ND<1	ND<1	2.2	93	ND<1	4.3	16	3
SG15-5	5/11/01	5	1	3.1	19	2.1	1.3	9.4	ND<1	ND<1	ND<1	1.1	ND<1
SG16-5	5/14/01	5	1	ND<1	1.3	ND<1	ND<1	1.3	ND<1	ND<1	ND<1	ND<1	ND<1
SG17-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG18-5	5/14/01	5	1	1.1	8.3	ND<1	1.3	3	1.2	ND<1	ND<1	3.5	2
SG19-5	5/14/01	5	1	ND<1	1.5	ND<1	ND<1	ND<1	ND<1	ND<1	1.2	5.5	1.4
SG20-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.5	ND<1
SG21-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG22-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG23-5	5/14/01	5	1	ND<1	1.5	ND<1	ND<1	ND<1	ND<1	ND<1	1.6	6.6	2.3
SG24-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG25-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
SG26-5	5/14/01	5	1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1

ft = feet below grade
F-113 = 1,1,2-Trichloro-trifluoroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
1,1,1-TCA = 1,1,1-Trichlorethane
TCE = Trichloroethene
TOL = Tolulene
PCE = Tetrachloroethene
EBENZ = Ethylbenzene
m+p-XYL = meta and para-Xylene
o-XYL = ortho-Xylene
µg/L = micrograms per liter
ND = Not detected; Sample is below the reported limit of quantitation.

Note: Values shown are the highest detected at each location within quantitation range.

APPENDICES

Appendix A

FACTORS AFFECTING THE GAS-PHASE DISTRIBUTION OF VOCs IN THE SUBSURFACE

Soil and groundwater contamination by volatile organic compounds (VOCs) can often be detected by analyzing trace gases in soil just below ground surface. This technique is possible because many VOCs will volatilize and move by molecular diffusion away from source areas toward regions of lower concentrations. A gas phase concentration gradient from the source to adjacent areas is established.

The following factors affect the transport and gas phase distribution of VOCs in the subsurface.

1. The liquid-gas partitioning coefficient of the compounds of interest (the "volatility" of the compound).

2. The vapor diffusivity, which is a measure of how quickly an individual compound "spreads out" within a volume of gas.

3. Retardation of the individual compounds as they migrate in the soil gas. Retardation may be due to degradation, adsorption on the soil matrix, tortuosity of the soil profile, or entrapment in unconnected pores.

4. The presence of impeding layers, wetting fronts of freshwater, or perched water tables, between the regional water table and ground surface.

5. The presence of soil moisture around man-made structures such as clarifiers and sumps may suppress volatilization and diffusion of VOCs resulting in false negative or low soil gas concentrations.

6. The presence of contaminants from localized spills or in the ambient air.

7. Movement of soil gas in response to barometric pressure changes.

8. The preferential migration of gas through zones of greater permeability (e.g. natural lithologic variation or back-fill of underground utilities).

9. Soil temperature.

At most sites, many of these factors are unknown or poorly understood. Because of this uncertainty, soil gas sampling should be used in conjunction with other site-specific data.

Appendix B

FIELD ANALYTICAL RESULTS FOR HALOGENATED AND AROMATIC HYDROCARBONS

(INCLUDING CALIBRATION REPORTS, QUALITY CONTROL REPORTS, AND EXPLANATION OF REPORTABLE LIMTS OF QUANTITATION)

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG1-5'	SG1-5'	SG1-5'	SG2-5'	SG3-5'	SG4-5'	SG5-5'	SG6-5'
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			8:45	9:05	9:30	9:51	10:15	10:35	10:54	11:14
INJECTION VOLUME (µl)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			100	200	400	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1	1	1	1	1	1	1	1
REPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	1	1
COMMENTS	RT	ARF	Purge volume test							
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	1.24E+01 1.4	1.25E+01 1.4	1.11E+01 1.3	2.01E+01 2.3	4.69E+01 5.3	5.91E+01 6.7	8.10E+01 9.2
1,1-Dichloroethene	5.68	2.43E+04	1.56E+01 1.3	9.46E+01 7.8	9.93E+01 8.2	1.07E+02 8.8	1.42E+02 12	2.93E+02 24	3.39E+02 28	5.19E+02 43
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	0.00E+00 ND<1	1.85E+01 1.3	1.53E+01 1.1	2.18E+01 1.6	2.57E+01 1.8	4.89E+01 3.5	6.15E+01 4.4	8.57E+01 6.1
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.41E+02 115%	1.10E+02 89%	1.14E+02 93%	1.27E+02 103%	1.26E+02 102%	1.21E+02 98%	1.19E+02 97%	1.18E+02 96%
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	7.32E+00 ND<1	0.00E+00 ND<1	2.17E+01 1.3	2.15E+01 1.3	4.94E+01 2.9
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	8.59E+01 102%	7.56E+01 90%	8.83E+01 105%	7.84E+01 93%	8.15E+01 97%	8.04E+01 96%	7.84E+01 93%	7.95E+01 95%
Toluene	11.60	3.56E+04	1.36E+01 ND<1	2.55E+01 1.4	1.96E+01 1.1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.23E+03 69	7.33E+03 412
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	6.41E+00 ND<1	0.00E+00 ND<1	5.70E+00 ND<1	5.02E+00 ND<1	1.58E+01 1.1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	2.20E+02 15	4.44E+02 30
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	1.11E+01 ND<1	6.98E+00 ND<1	1.41E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	9.60E+02 52	1.69E+03 92
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	2.24E+02 15	2.23E+02 15
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_0 = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG6-5'	SG7-5'	SG8-5'	SG8-5'	SG13-5'	SG14-5'	SG9-5'	SG10-5'
DATE			5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01	5/11/01
TIME			11:33	11:53	12:13	12:31	12:52	13:12	13:35	13:55
INJECTION VOLUME (µl)			100	100	500	200	250	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			5	5	1	2.5	2	1	1	1
REPORTABLE LIMIT (µg/L)			5	5	1	2.5	2	1	1	1
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	8.48E+00 ND<5	0.00E+00 ND<5	1.19E+01 1.3	6.64E+00 ND<2.5	6.54E+00 ND<2	1.27E+01 1.4	2.05E+01 2.3	8.45E+01 10
1,1-Dichloroethene	5.68	2.43E+04	7.17E+01 30	1.24E+01 5.1	2.18E+02 18	9.18E+01 19	6.42E+01 11	2.53E+02 21	1.46E+02 12	6.24E+02 51
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND<5	0.00E+00 ND	8.36E+00 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	6.01E+00 ND<1
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<5	0.00E+00 ND<5	0.00E+00 ND<1	0.00E+00 ND<2.5	0.00E+00 ND<2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	1.27E+01 ND<5	0.00E+00 ND<5	1.01E+02 7.2	3.93E+01 7.0	3.55E+01 5.1	9.46E+00 ND<1	1.14E+01 ND<1	2.41E+01 1.7
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.28E+02 104%	1.14E+02 93%	1.29E+02 105%	1.25E+02 102%	1.19E+02 97%	1.16E+02 94%	1.18E+02 96%	1.21E+02 98%
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<5	0.00E+00 ND<5	4.47E+01 2.6	1.22E+01 ND<2.5	5.04E+00 ND<2	3.79E+01 2.2	8.27E+00 ND<1	5.59E+01 3.3
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	8.37E+01 100%	8.49E+01 101%	8.55E+01 102%	8.08E+01 96%	8.29E+01 99%	8.16E+01 97%	8.63E+01 103%	8.17E+01 97%
Toluene	11.60	3.56E+04	2.40E+03 674	0.00E+00 ND<5	4.25E+03 239 *	1.67E+03 263	2.65E+02 30	1.65E+03 93	3.97E+02 22	1.17E+03 66
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<5	0.00E+00 ND<5	1.57E+01 1	5.80E+00 ND<2.5	6.46E+00 ND<2	1.26E+01 ND<1	0.00E+00 ND<1	1.30E+01 ND<1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	8.62E+01 29	0.00E+00 ND<5	1.75E+02 12	7.44E+01 12	1.34E+01 ND<2	6.38E+01 4.3	1.61E+01 1.1	7.93E+01 5.3
meta- and para-Xylene	14.10	3.69E+04	3.29E+02 89	0.00E+00 ND<5	6.42E+02 35	2.82E+02 38	9.01E+01 10	2.93E+02 16	6.90E+01 3.7	3.49E+02 19
ortho-Xylene	14.90	3.02E+04	4.86E+01 16	0.00E+00 ND<5	9.49E+01 6.3	4.64E+01 7.7	0.00E+00 ND<2	4.52E+01 3	9.38E+00 ND<1	6.00E+01 4
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Ma

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051101

SAMPLE ID			SG11-5'	SG12-5'	SG15-5'	NA	NA	NA	NA	NA
DATE			5/11/01	5/11/01	5/11/01	NA	NA	NA	NA	NA
TIME			14:14	14:35	14:55	NA	NA	NA	NA	NA
INJECTION VOLUME (µl)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	ND	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	4.81E+01 5.4	1.43E+02 16	2.73E+01 3.1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	5.68	2.43E+04	3.84E+02 32	1.12E+03 92	2.36E+02 19	NA NA	NA NA	NA NA	NA NA	NA NA
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	1.26E+01 ND<1	1.01E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND<1	0.00E+00 ND<1	2.38E+01 2.1	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1-Trichloroethane	8.40	2.81E+04	5.65E+00 ND<1	2.21E+01 1.6	1.81E+01 1.3	NA NA	NA NA	NA NA	NA NA	NA NA
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.17E+02 95%	1.08E+02 88%	1.13E+02 92%	NA NA	NA NA	NA NA	NA NA	NA NA
Trichloroethene	9.73	3.39E+04	6.69E+01 3.9	2.35E+02 14	1.60E+02 9.4	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.78E+01 93%	7.48E+01 89%	7.71E+01 92%	NA NA	NA NA	NA NA	NA NA	NA NA
Toluene	11.60	3.56E+04	8.81E+02 49	6.08E+01 3.4	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	2.02E+01 1.3	1.10E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Ethylbenzene	14.00	3.00E+04	3.93E+01 2.6	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
meta- and para-Xylene	14.10	3.69E+04	1.69E+02 9.2	1.50E+01 ND<1	2.11E+01 1.1	NA NA	NA NA	NA NA	NA NA	NA NA
ortho-Xylene	14.90	3.02E+04	2.53E+01 1.7	0.00E+00 ND<1	1.31E+01 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-2

QUALITY ASSURANCE/QUALITY CONTROL REPORT
SUBJECT SITE, CALIFORNIA

1928-4-051101

PID/ELCD #4

TARGET COMPOUNDS		January 8, 2001										May 11, 2001				
		INITIAL CALIBRATION							LCS			MID-POINT			LAST RUN	
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (µL)		0.50	1.00	2.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17.4	31.5	65.7	147	372			33.4							
CF		6.96E+03	6.30E+03	6.57E+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31.1	60.3	136	260	568			61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1.14E+04	1.25E+04	7	1.22E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Chloroethane	4.65	26.8	62.7		299	567			63							
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
Trichlorofluoromethane	4.98	54.0	109	212	456	1011			111							
CF		2.16E+04	2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	4	2.22E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,2-Trichloro-trifluoroethane	5.43	43.9	87.0	169	373	893			92			87				
CF		1.76E+04	1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.84E+04	4	ND	1.74E+04	-2	ND	0.00E+00	NA
1,1-Dichloroethene	5.66	64.7	124	241	485	1132			124			121				
CF		2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	2	ND	2.42E+04	0	ND	0.00E+00	NA
Methylene chloride	6.18	71.3	146	269	556	1264			141							
CF		2.85E+04	2.92E+04	2.69E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			125				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.50E+04	0	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	76.6	138	259	511	1138			123			137				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.74E+04	3	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			112				
CF		2.26E+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.24E+04	-3	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF		3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302			141			142				
CF		2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.84E+04	1	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1288			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			188			192				
CF		4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	ND	3.84E+04	2	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	114	184	353	685	1383			179			199				
CF		4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.98E+04	11	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					136		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA	111	0.00E+00	NA
Trichloroethene	9.73	101.0	173	333	637	1469			162			163				
CF		4.04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.24E+04	-4	ND	3.26E+04	-4	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)		42.2	86	164					0					78		
CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0.00E+00	ND	93	0.00E+00	NA
Toluene (PID)	11.6	95.9	188	332	689	1711			175			162				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.56E+04	6	3.50E+04	-2	ND	3.24E+04	-9	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66.1	126	260	548	1276			137			129				
CF		2.64E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.61E+04	3	2.74E+04	5	ND	2.58E+04	-1	ND	0.00E+00	NA
Tetrachloroethene	12.7	82.3	141	303	624	1380			153			155				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	3.10E+04	3	ND	0.00E+00	NA
1,1,1,2-Tetrachloroethane	14.0	77.3	144	306	627	1389			160							
CF		3.09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535			148			154				
CF		3.11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	3.08E+04	3	ND	0.00E+00	NA
meta-and para-Xylene (PID)	14.1	187	375	711	1510	3634			372			367				
CF		3.74E+04	3.75E+04	3.56E+04	3.78E+04	3.63E+04	3.69E+04	3	3.72E+04	1	ND	3.67E+04	-1	ND	0.00E+00	NA
ortho-Xylene (PID)	14.9	76.2	153	289	611	1515			147			136				
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	ND	2.72E+04	-10	ND	0.00E+00	NA
1,1,2,2-Tetrachloroethane	15.8	68.8	143	276	590	1393			149							
CF		2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	3	2.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA

LCS = Laboratory Control Sample
ug/L = Micrograms per Liter
uL = Microliters
ug = Microgram
RT = Retention Time

ARF = Average Response Factor
%RSD = Percent Relative Standard Deviation
RPD = Relative Percent Difference
%REC = Percent Recovery
5000 mg/L 25 VOC STD :Lot #B0060319
5000 mg/L 25 VOC LCS :Lot #B0060322

CF = Calibration Factor
ND = Not Detected
NA = Not Applicable
PID = Photo-ionization Detector
40000 mg/L 25 VOC STD :Lot # B0060319

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051401

SAMPLE ID			SG16-5'	SG17-5'	SG18-5'	SG19-5'	SG20-5'	SG21-5'	SG22-5'	SG23-5'
DATE			5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01
TIME			7:12	7:33	7:53	8:16	8:35	8:55	9:14	9:33
INJECTION VOLUME (µl)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			200	200	200	200	200	200	200	200
VACUUM (in. Hg)			ND	ND	ND	ND	ND	4	ND	ND
DILUTION FACTOR			1	1	1	1	1	1	1	1
REPORTABLE LIMIT (µg/L)			1	1	1	1	1	1	1	1
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	0.00E+00 ND<1	9.53E+00 1.1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1-Dichloroethene	5.68	2.43E+04	1.56E+01 1.3	0.00E+00 ND<1	1.01E+02 8.3	1.82E+01 1.5	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.79E+01 1.5
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	5.10E+00 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1-Trichloroethane	8.40	2.81E+04	1.11E+01 ND<1	1.01E+01 ND<1	1.69E+01 1.3	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Fluorobenzene (Surrogate) (PID)		2.46E+04	9.75E+01 79%	1.09E+02 88%	1.14E+02 93%	1.14E+02 93%	1.13E+02 92%	1.18E+02 96%	1.17E+02 95%	1.19E+02 97%
Trichloroethene	9.73	3.39E+04	2.12E+01 1.3	0.00E+00 ND<1	5.11E+01 3	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.83E+01 93%	7.59E+01 90%	7.73E+01 92%	7.34E+01 87%	7.27E+01 87%	7.50E+01 89%	7.43E+01 88%	8.25E+01 98%
Toluene	11.60	3.56E+04	0.00E+00 ND<1	0.00E+00 ND<1	2.20E+01 1.2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	1.10E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.87E+01 1.2	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	0.00E+00 ND<1	6.54E+01 3.5	1.01E+02 5.5	2.69E+01 1.5	1.06E+01 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	0.00E+00 ND<1	3.08E+01 2	2.16E+01 1.4	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-1

HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYTICAL RESULTS FOR SOIL GAS SAMPLES
SITE LOCATED AT 3171 SOUTH BUNDY DRIVE, SANTA MONICA, CALIFORNIA
25-TARGET COMPOUND LIST

PID/ELCD #4 — 1928-4-051401

SAMPLE ID			SG24-5'	SG25-5'	SG26-5'	NA	NA	NA	NA	NA
DATE			5/14/01	5/14/01	5/14/01	NA	NA	NA	NA	NA
TIME			9:53	10:12	10:31	NA	NA	NA	NA	NA
INJECTION VOLUME (µl)			500	500	500	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			200	200	200	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	ND	ND	NA	NA	NA	NA	NA
DILUTION FACTOR			1	1	1	NA	NA	NA	NA	NA
REPORTABLE LIMIT (µg/L)			1	1	1	NA	NA	NA	NA	NA
COMMENTS	RT	ARF								
Dichlorodifluoromethane	3.78	6.92E+03	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Vinyl chloride	4.13	1.25E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroethane	4.65	1.24E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Trichlorofluoromethane	4.98	2.15E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloro-trifluoroethane	5.43	1.77E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	5.68	2.43E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
Methylene chloride	6.18	2.75E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
trans-1,2-Dichloroethene	6.53	2.49E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethane	6.98	2.65E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,2-Dichloroethene	7.68	2.32E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroform	7.88	3.45E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1-Trichloroethane	8.40	2.81E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
Carbon tetrachloride	8.77	2.54E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Benzene	8.93	3.76E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichloroethane	8.85	3.59E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorobenzene (Surrogate) (PID)		2.46E+04	1.19E+02 97%	1.25E+02 102%	1.17E+02 95%	NA NA	NA NA	NA NA	NA NA	NA NA
Trichloroethene	9.73	3.39E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
cis-1,3-Dichloropropene (Surrogate)		1.68E+04	7.61E+01 91%	7.93E+01 94%	7.46E+01 89%	NA NA	NA NA	NA NA	NA NA	NA NA
Toluene	11.60	3.56E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2-Trichloroethane	12.00	2.61E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Tetrachloroethene	12.70	3.00E+04	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,1,2-Tetrachloroethane	14.00	2.99E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA
Ethylbenzene	14.00	3.00E+04	0.00E+00 ND<1	2.41E+01 1.6	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
meta- and para-Xylene	14.10	3.69E+04	0.00E+00 ND<1	1.22E+02 6.6	8.69E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
ortho-Xylene	14.90	3.02E+04	0.00E+00 ND<1	3.54E+01 2.3	0.00E+00 ND<1	NA NA	NA NA	NA NA	NA NA	NA NA
1,1,2,2-Tetrachloroethane	15.80	2.82E+04	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	NA NA	NA NA	NA NA	NA NA	NA NA

Concentrations reported in micrograms per liter (µg/L)
ND = Not detected
ND< = Not detected above the reported limit of quantitation
RT = Retention time

µl = Microliter
ml = Milliliter
in. H_g = Inches of Mercury

ARF = Average response factor
* = Exceeds quantitation range
NA = Not Analyzed

ANALYST: Darren McNamee

REVIEWED BY: Duy Ma

TABLE B-2

QUALITY ASSURANCE/QUALITY CONTROL REPORT
SUBJECT SITE, CALIFORNIA

PID/ELCD #4

1928-4-051401

TARGET COMPOUNDS		January 8, 2001										May 14, 2001				
		INITIAL CALIBRATION							LCS			MID-POINT			LAST RUN	
STANDARD CONC. (µg/L)		5000	5000	5000	40000	40000			5000		BLANK	5000		BLANK	5000	
INJECTION VOLUME (µL)		0.50	1.00	2.00	0.50	1.25			1.00		500	1.00		500	0.20	
COMPOUND/WEIGHT (µg)	RT	0.0025	0.0050	0.0100	0.0200	0.0500	ARF	%RSD	0.0050	RPD		0.0050	RPD		0.0010	%REC
Dichlorodifluoromethane	3.78	17.4	31.5	65.7	147	372			33.4							
CF		6.96E+03	6.30E+03	6.57E+03	7.35E+03	7.44E+03	6.92E+03	7	6.68E+03	-3	ND	0.00E+00	NA	ND	0.00E+00	NA
Vinyl chloride	4.13	31.1	60.3	136	260	568			61							
CF		1.24E+04	1.21E+04	1.36E+04	1.30E+04	1.14E+04	1.25E+04	7	1.22E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Chloroethane	4.65	26.8	62.7		299	567			63							
CF		1.07E+04	1.25E+04		1.50E+04	1.13E+04	1.24E+04	15	1.26E+04	2	ND	0.00E+00	NA	ND	0.00E+00	NA
Trichlorofluoromethane	4.98	54.0	109	212	456	1011			111							
CF		2.16E+04	2.18E+04	2.12E+04	2.28E+04	2.02E+04	2.15E+04	4	2.22E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,2-Trichloro-trifluoroethane	5.43	43.9	87.0	169	373	893			92			83				
CF		1.76E+04	1.74E+04	1.69E+04	1.87E+04	1.79E+04	1.77E+04	4	1.84E+04	4	ND	1.66E+04	-6	ND	0.00E+00	NA
1,1-Dichloroethene	5.68	64.7	124	241	485	1132			124			110				
CF		2.59E+04	2.48E+04	2.41E+04	2.43E+04	2.26E+04	2.43E+04	5	2.48E+04	2	ND	2.20E+04	-9	ND	0.00E+00	NA
Methylene chloride	6.18	71.3	146	289	556	1264			141							
CF		2.85E+04	2.92E+04	2.89E+04	2.78E+04	2.53E+04	2.75E+04	5	2.82E+04	3	ND	0.00E+00	NA	ND	0.00E+00	NA
trans-1,2-Dichloroethene	6.53	67.5	132	244	493	1106			126			118				
CF		2.70E+04	2.64E+04	2.44E+04	2.47E+04	2.21E+04	2.49E+04	8	2.52E+04	1	ND	2.36E+04	-3	ND	0.00E+00	NA
1,1-Dichloroethane	6.98	78.6	138	259	511	1138			123			130				
CF		3.06E+04	2.76E+04	2.59E+04	2.56E+04	2.28E+04	2.65E+04	11	2.46E+04	-7	ND	2.60E+04	-2	ND	0.00E+00	NA
cis-1,2-Dichloroethene	7.68	56.4	117	233	480	1135			114			105				
CF		2.26E+04	2.34E+04	2.33E+04	2.40E+04	2.27E+04	2.32E+04	2	2.28E+04	-2	ND	2.10E+04	-9	ND	0.00E+00	NA
Chloroform	7.88	94.8	181	341	673	1523			174							
CF		3.79E+04	3.62E+04	3.41E+04	3.37E+04	3.05E+04	3.45E+04	8	3.48E+04	1	ND	0.00E+00	NA	ND	0.00E+00	NA
1,1,1-Trichloroethane	8.40	74.7	144	277	563	1302			141			131				
CF		2.99E+04	2.88E+04	2.77E+04	2.82E+04	2.60E+04	2.81E+04	5	2.82E+04	0	ND	2.62E+04	-7	ND	0.00E+00	NA
Carbon tetrachloride	8.77	59.4	137	248	504	1288			124							
CF		2.38E+04	2.74E+04	2.48E+04	2.52E+04	2.58E+04	2.54E+04	5	2.48E+04	-2	ND	0.00E+00	NA	ND	0.00E+00	NA
Benzene (PID)	8.93	100	191	356	745	1841			188			172				
CF		4.00E+04	3.82E+04	3.56E+04	3.73E+04	3.68E+04	3.76E+04	4	3.76E+04	0	ND	3.44E+04	-9	ND	0.00E+00	NA
1,2-Dichloroethane	8.85	114	184	353	685	1383			179			170				
CF		4.56E+04	3.68E+04	3.53E+04	3.43E+04	2.77E+04	3.59E+04	18	3.58E+04	0	ND	3.40E+04	-5	ND	0.00E+00	NA
Fluorobenzene (Surrogate)		58.2	131	243					0					115		
CF		2.33E+04	2.62E+04	2.43E+04			2.46E+04	6	0.00E+00	NA	ND	0.00E+00	NA	93%	0.00E+00	NA
Trichloroethene	9.73	101.0	173	333	637	1469			162			168				
CF		4.04E+04	3.46E+04	3.33E+04	3.19E+04	2.94E+04	3.39E+04	12	3.24E+04	-4	ND	3.36E+04	-1	ND	0.00E+00	NA
cis-1,3-Dichloropropene (Surrogate)		42.2	86	164					0					75		
CF		1.69E+04	1.72E+04	1.64E+04			1.68E+04	2	0.00E+00	NA	ND	0.00E+00	NA	89%	0.00E+00	NA
Toluene (PID)	11.6	95.9	188	332	689	1711			175			165				
CF		3.84E+04	3.76E+04	3.32E+04	3.45E+04	3.42E+04	3.58E+04	6	3.50E+04	-2	ND	3.30E+04	-7	ND	0.00E+00	NA
1,1,2-Trichloroethane	12.0	66.1	128	260	546	1276			137			113				
CF		2.64E+04	2.52E+04	2.60E+04	2.73E+04	2.55E+04	2.61E+04	3	2.74E+04	5	ND	2.26E+04	-13	ND	0.00E+00	NA
Tetrachloroethene	12.7	82.3	141	303	624	1380			153			133				
CF		3.29E+04	2.82E+04	3.03E+04	3.12E+04	2.76E+04	3.00E+04	7	3.06E+04	2	ND	2.66E+04	-11	ND	0.00E+00	NA
1,1,1,2-Tetrachloroethane	14.0	77.3	144	306	627	1389			160							
CF		3.09E+04	2.88E+04	3.06E+04	3.14E+04	2.78E+04	2.99E+04	5	3.20E+04	7	ND	0.00E+00	NA	ND	0.00E+00	NA
Ethylbenzene (PID)	14.0	77.8	155	276	590	1535			148			143				
CF		3.11E+04	3.10E+04	2.76E+04	2.95E+04	3.07E+04	3.00E+04	5	2.96E+04	-1	ND	2.86E+04	-5	ND	0.00E+00	NA
meta-and para-Xylene (PID)	14.1	187	375	711	1510	3634			372			349				
CF		3.74E+04	3.75E+04	3.56E+04	3.78E+04	3.63E+04	3.69E+04	3	3.72E+04	1	ND	3.49E+04	-5	ND	0.00E+00	NA
ortho-Xylene (PID)	14.9	76.2	153	289	611	1515			147			149				
CF		3.05E+04	3.06E+04	2.89E+04	3.06E+04	3.03E+04	3.02E+04	2	2.94E+04	-3	ND	2.98E+04	-1	ND	0.00E+00	NA
1,1,2,2-Tetrachloroethane	15.8	68.8	143	276	590	1393			149							
CF		2.75E+04	2.86E+04	2.76E+04	2.95E+04	2.79E+04	2.82E+04	3	2.98E+04	6	ND	0.00E+00	NA	ND	0.00E+00	NA

LCS = Laboratory Control Sample
ug/L = Micrograms per Liter
uL = Microliters
ug = Microgram
RT = Retention Time

ARF = Average Response Factor
%RSD = Percent Relative Standard Deviation
RPD = Relative Percent Difference
%REC = Percent Recovery
5000 mg/L 25 VOC STD :Lot #B0060319
5000 mg/L 25 VOC LCS :Lot #B0060322

CF = Calibration Factor
ND = Not Detected
NA = Not Applicable
PID = Photo-ionization Detector
40000 mg/L 25 VOC STD :Lot # B0060319

ANALYST: Darren McNamee

REVIEWED BY: Duy Mai

TABLE B-3

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
SOIL GAS SURVEYS

REPORTABLE LIMITS OF QUANTITATION FOR HALOGENATED AND AROMATIC HYDROCARBONS

The Reportable Limit of Quantitation for Halogenated and Aromatic Hydrocarbons is 1 µg/L when the injection volume is 500 µL. Reportable limits for lesser injection volumes are listed below.

Injection Volume (µL)	Reportable Limit (µg/L)
500	1.0
250	2.0
200	2.5
100	5.0
80	6.3
60	8.3
50	10.0
40	12.5
20	25.0
10	50.0
5	100.0
1	500.0

Appendix C

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

SOIL GAS SURVEYING

STANDARD METHODS AND PROCEDURES FOR INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
23276 Del Lago Drive
Laguna Hills, California 92653
(949) 457-9664
Fax (949) 457-0664

2001

STANDARD METHODS AND PROCEDURES FOR SOIL GAS SURVEYS

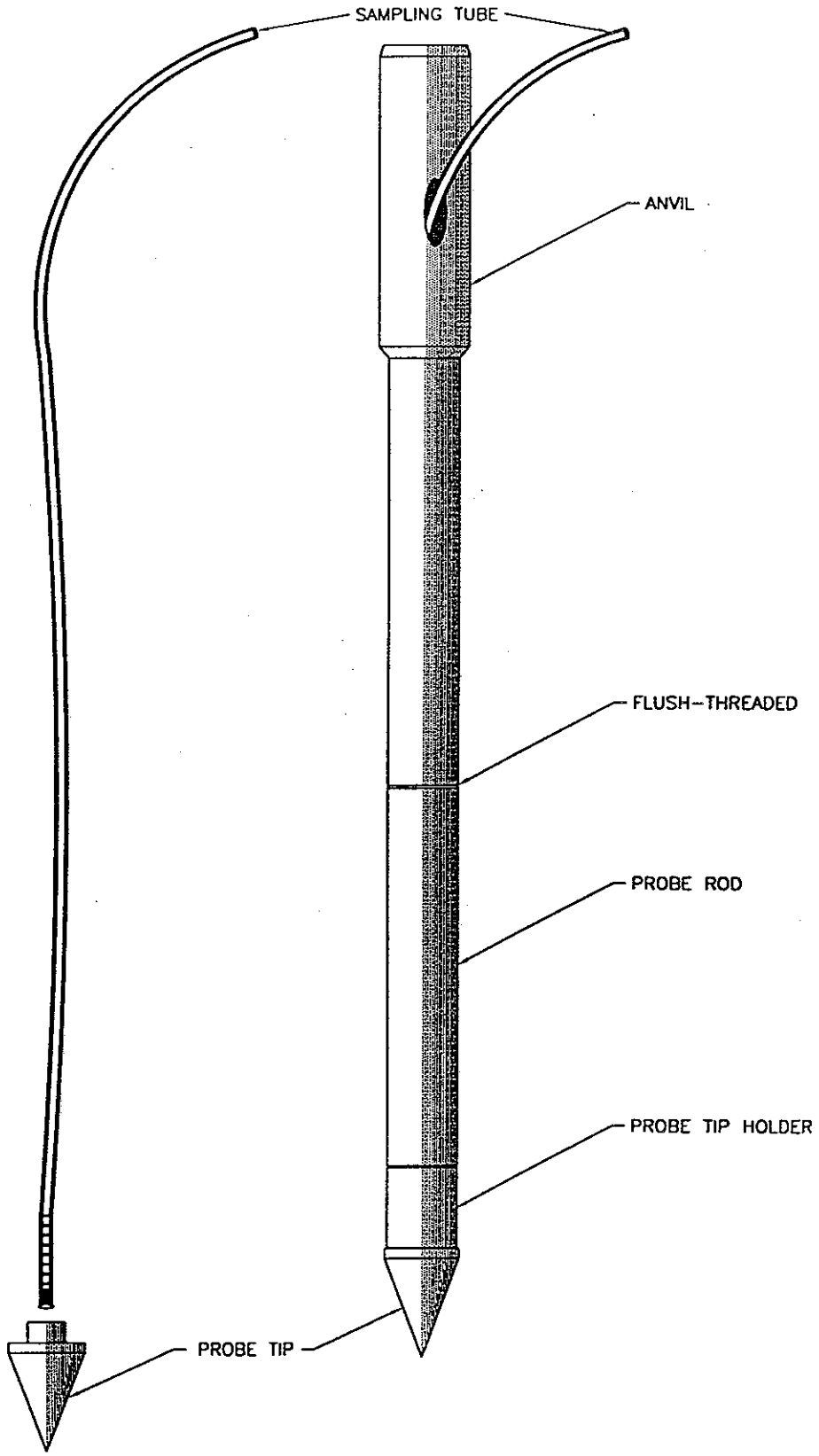
This section describes EST's standard methods and procedures for conducting soil gas surveys. Procedures may be modified based on evaluation of specific project needs. EST will perform soil gas surveys in general accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

INSTALLATION AND SAMPLING OF SOIL GAS SAMPLING PROBES

Soil gas sampling probes will be installed using either a percussion hammer or hydraulic ram. Once a probe is installed to the desired depth, the 1.25-inch diameter hollow probe drive-rods are withdrawn, leaving a steel probe point and Nylaflow™ sampling tube in the subsurface. Clean, graded (No. 3), kiln dried, Lonestar Monterey sand will be poured around the perforated section of Nylaflow™ sample tubing to allow for diffusion of soil vapors. Approximately 6-inches of granular bentonite will be added above the sand pack and hydrated. The remaining annulus will be filled with cement mortar/bentonite grout to slightly below grade. Construction details of a typical soil gas sampling probe are shown in Figure 1.

Soil gas samples will be collected from the driven probes using the soil gas sampling system as shown in Figure 2. The soil gas sampling system is constructed of stainless steel, glass, Nylaflow™, and Teflon™ components. Instrumentation associated with the sampling system includes a calibrated flow meter and vacuum gauge. Vacuum integrity of the sampling system will be tested prior to, and after the soil gas survey using leak-down testing methods. Site-specific probe purging and sample volume calibrations will be initially performed to evaluate the appropriate volume of gas to be purged from each probe prior to sample collection. This will be done by performing time-series sampling of at least one probe to evaluate trends in soil gas concentrations as a function of purge volume. After probe purging, soil gas samples will be withdrawn from the moving sample stream using a glass syringe fitted with a disposable needle and Mininert™ gas-tight valve. Soil gas samples will be analyzed, immediately following collection, by direct gas injection into a laboratory-grade, field-operable gas chromatograph (GC).

When soil gas sampling is completed, the Nylaflow™ tubing can either be removed or can remain in-place for subsequent sampling. If the abandonment method requires tube removal, the sample tubing will be removed and the remaining void will be filled with a fluid bentonite slurry until slightly below grade. The remaining depression will be filled with concrete patch material and finished flush with grade. If it is desired to leave the tubing in-place, the Nylaflow™ sample tubing will be plugged with a sheet metal screw, folded over, and pushed down-hole until slightly below grade. The remaining depression will be filled with concrete mortar and finished flush with grade. The probe point and sample tubing will remain as a long-term soil gas monitoring point, unless otherwise specified by the client prior to entering the field.



DEDICATED PORTION OF PROBE

NOTE: NOT TO SCALE

FIGURE 1

SOIL GAS SAMPLING PROBE

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
LAGUNA HILLS, CALIFORNIA

DRAWN BY: JST SCALE: NOT TO SCALE DATE: 1-3-00

MKTG-01.DWG

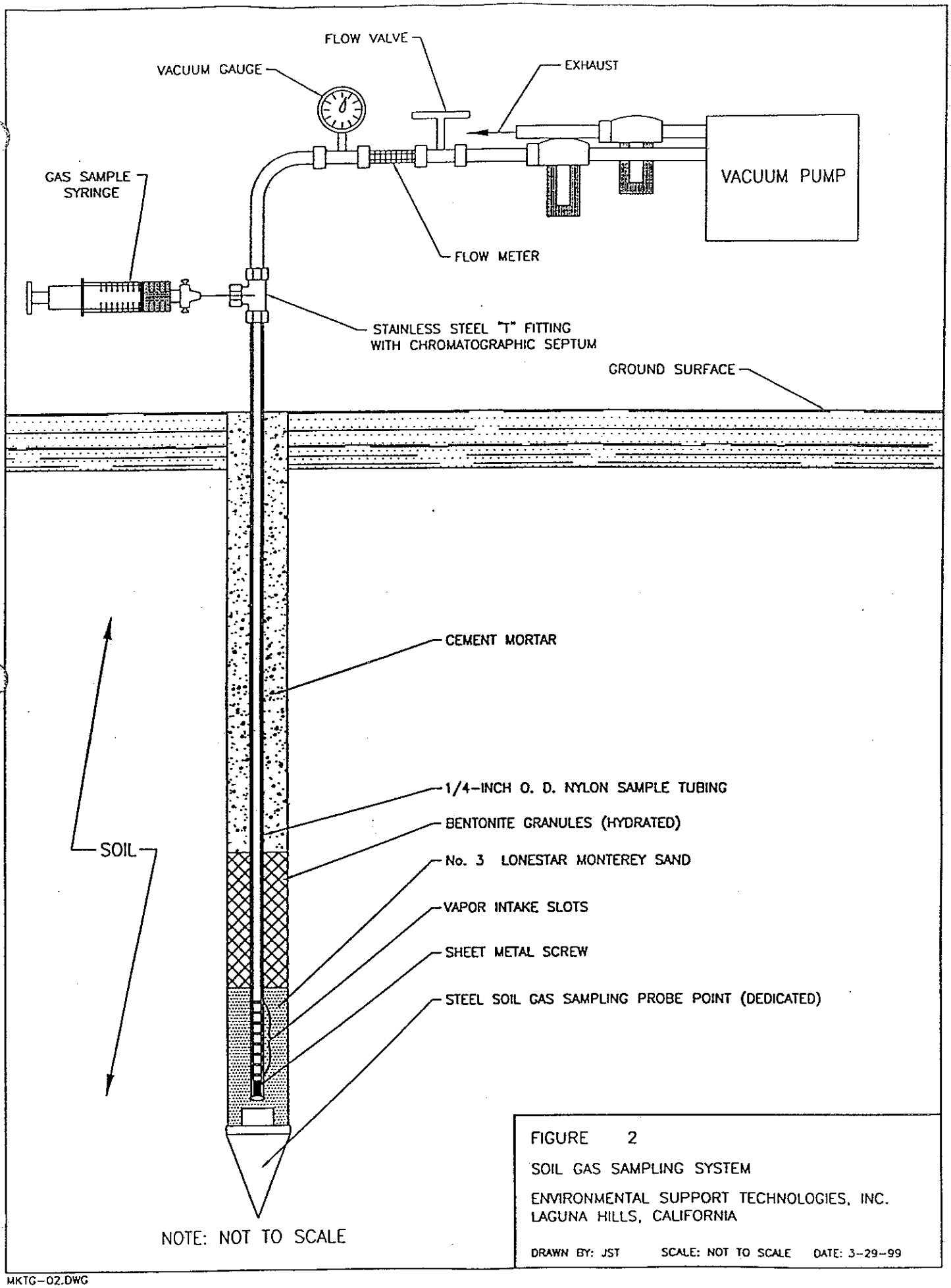


FIGURE 2

SOIL GAS SAMPLING SYSTEM

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
LAGUNA HILLS, CALIFORNIA

DRAWN BY: JST SCALE: NOT TO SCALE DATE: 3-29-99

MKTG-02.DWG

SAMPLE ANALYSIS OF HALOGENATED AND AROMATIC HYDROCARBONS

Soil gas samples will be analyzed in the field using a field-operable GC equipped with a photoionization detector (PID) and an electrolytic conductivity detector (ELCD). The PID and ELCD will be configured in-series to analyze for twenty-five (25) target compounds (halogenated and aromatic hydrocarbons) as specified in the LARWQCB requirements (February 25, 1997).

Detection limits for the LARWQCB target compounds will be no more than one microgram per liter (µg/L) of gas except when compound concentrations exceed the initial calibration range. When this occurs, the sample must be diluted (smaller sample injection volume), which results in raised detection limits for the analysis.

Soil gas samples may be analyzed for other constituents on a site-specific basis. A series of quality assurance/quality control (QA/QC) analyses will be performed prior to, during, and following the analysis of soil gas samples. A summary of these QA/QC analyses is shown in Table 1 and each are described below.

SURROGATE COMPOUNDS

Two (2) surrogate compounds will be added to all analyzed samples. Surrogate compound concentrations will be within the calibration range. The percent recovery of the surrogate compounds will be calculated and reported with soil gas sample results. The acceptance goal for surrogate recovery is ±25 percent difference from the true concentration of the surrogate compounds. Surrogate compounds added to each sample analysis run will include Fluorobenzene (PID) and cis-1, 3-Dichloropropene (PID and ELCD), each at a true concentration of 5,000 µg/L.

INITIAL MULTI-POINT EQUIPMENT CALIBRATION

The GC used for soil gas analysis will be calibrated using high-purity solvent-based standards obtained from certified vendors. Standards are typically prepared in high-purity methanol or dodecane solvent. Calibration using solvent-based standards will typically be performed using varying injection volumes of the stock solvent-based standard without dilution. If necessary, stock solvent-based standards will be diluted to an appropriate concentration. Diluted standards will be prepared by introducing a known volume of stock solvent-based standard into a known volume of high-purity solvent.

Initial GC calibration will be performed for EPA Method 8021 compounds. The GC will be calibrated using varying standard injections to establish a multi-point calibration curve. The lowest standard will not be higher than five times the method detection limit (5 µg/L). The percent relative standard deviation (%RSD) of the response factor (RF) for each target compound will not exceed 20 percent except for Trichlorofluoromethane (Freon™-11), Dichlorodifluoromethane (Freon™-12), Trichlorotrifluoroethane (Freon™ -113), Chloroethane (CE), and Vinyl Chloride (VC) which will not exceed 30% RSD. Identification and quantitation of compounds in the field will be based on calibration under the same analytical conditions as for multi-point calibration.

TABLE 1

SUMMARY OF
QUALITY ASSURANCE/QUALITY CONTROL ANALYSES
FOR SOIL GAS SURVEYS

File: SGSQAQC11

CALIBRATION AND LABORATORY CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL
INITIAL MULTI-POINT CALIBRATION (25 Target Compounds)	At the beginning of the soil gas survey, unless the RPDs of the initial laboratory check sample or daily mid-point calibration check samples exceed their goals.	20, 30 %RSD (1)
INITIAL LABORATORY CONTROL SAMPLE (LCS) (25 Target Compounds)	At the beginning of the survey, following the initial multi-point calibration.	±15, ±25 RPD (2)
DAILY MID-POINT CALIBRATION CHECK (12 Target Compounds)	At the beginning of each day (unless an initial multi-point calibration was performed).	±15, ±25 RPD (3)
LAST GC TEST RUN	At the end of the day if all samples from that day of analysis show non-detect (ND) results.	At least 50 % recovery (4)
FIELD CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL
BACKGROUND SAMPLE (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery of surrogate compounds
SYRINGE BLANK (5)	Minimum one per day.	<1 µg/L of target compounds and 75 to 100 percent recovery of surrogate compounds

%RSD = Percent Relative Standard Deviation calculated based on the initial multi-point calibration.

RPD = Relative Percent Difference between the response factor obtained from the LCS, the daily mid-point calibration, and the average response factor initially calculated based on the multi-point calibration.

µg/L = Micrograms per liter

(1) The %RSD goal for the initial multi-point calibration will be 20 percent for all compounds except for Dichlorodifluoromethane (Freon™-11), Vinyl Chloride (VC), Chloroethane (CE), Trichlorofluoromethane (Freon™-12), and 1,1,2-Trichloro-Trifluoroethane (Freon™-113) for which the %RSD goal is 30 percent.

(2) The RPD goal for the initial laboratory control standard will be ±15 percent for all compounds except for Freon™-11, Vinyl Chloride, Chloroethane, Freon™-12, Freon™-113 for which the RPD goal is ±25 percent.

(3) The RPD goal for the daily mid-point calibration check will be ±15 percent for all compounds except for Freon™-11, Vinyl Chloride, Chloroethane, Freon™-12, Freon™-113 for which the RPD goal is ±25 percent.

(4) A LCS at the detection limit concentration is analyzed. The recovery for each compound must be at least 50 percent.

(5) A syringe/background sample will be analyzed using ambient air. If volatile organic compounds (VOCs) are not detected, the ambient air sample will represent the background sample and syringe blank. If VOCs are detected in the ambient air sample, a syringe blank will be analyzed using ultra-high-purity helium or nitrogen gas.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) from a source other than the initial calibration standard will be used to verify the true concentration of the initial calibration standard. The LCS will include the LARWQCB target compounds and the RF for each compound will be within ±15 percent difference from the initial calibration.

DAILY MID-POINT CALIBRATION CHECK

Daily field calibration of the GC will consist of a mid-point calibration analysis using the same standard as used for the initial multi-point calibration. The daily mid-point calibration check will include the 12 target compounds as specified in the previously referenced LARWQCB requirements. The RF of each compound (except for Freon™-11, -12, and -113, CE, and VC) will be within 15 percent difference of the average RF from the initial calibration. The RF for Freon™-11, -12, and -113, CE, and VC will be within 25 percent difference of the initial calibration. If these criteria are not met, the GC will be re-calibrated.

Daily calibration will be performed prior to the first sample analysis of the day. One-point calibration will be performed for all compounds detected at a particular site to ensure accurate quantitation. Subsequent calibration episodes, if deemed necessary, will consist of at least one injection of the standard exhibiting a similar detector response as that of samples encountered in the field.

END OF DAY GC TEST RUN

A LCS will be analyzed at the end of the day should soil gas samples not contain detectable concentrations of halogenated or aromatic hydrocarbons. The LCS will contain the same compounds as the daily mid-point calibration standard (minimum 12 compounds). The LCS will be from a second source independent from the initial multi-point calibration standard. The RF for each compound will be within 20 percent difference of the average RF for the initial calibration. If these criteria are not met, an additional LCS will be analyzed to satisfy these criteria.

BLANK INJECTIONS

The syringes used for soil gas sample collection will be filled with ambient air or high-purity carrier-grade gas from a compressed gas cylinder. The ambient air or high-purity gas will be injected directly into the GC. The blank injection will serve to detect contamination of the syringe to be used for sampling and verify the effectiveness of equipment decontamination procedures.

DECONTAMINATION PROCEDURES

Probes and equipment in contact with the soil gas sample stream will be decontaminated prior to initiation of sampling. Decontamination of soil gas sampling equipment will be conducted by repeated washing and/or by baking in the gas chromatograph oven. Washing will include the use of a phosphate-free detergent wash, tap water rinse, and organic-free water rinse. The equipment will be allowed to air-dry following final rinsing.

SHORTENING THE GC RUN TIME

Shortening the GC run time is acceptable only if the chemist feels that doing so will not sacrifice the quality of data obtained. If this is recommended by the chemist, appropriate client and agency approval will be obtained prior to initiating such change.

REPORTING OF SAMPLE RESULTS AND QA/QC INFORMATION

Reporting of sample results and QA/QC information will be performed in accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated February 25, 1997.

SOIL GAS SURVEY REPORTS

Following completion of a soil gas survey, Environmental Support Technologies, Inc. will prepare a Soil Gas Survey Report. Typically, this report will include:

- Soil gas concentrations in tabular form;
- Laboratory analytical data and Quality Assurance/Quality Control data.
- A description of EST's standard sampling and analysis methods used for soil gas surveying.

November 21, 2001

Santa Monica College
1900 Pico Boulevard
Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: Review of Environmental Documentation
BAE Systems – 3171 South Bundy Drive
Los Angeles, California

SA210-001

Dear Dr. Donner:

As you requested, West Coast Environmental and Engineering (WCE) is providing this letter report to detail our findings and opinions from the review of available documentation regarding environmental conditions at the BAE Systems facility in Los Angeles, California. The BAE Systems facility sits astride the boundary between the City of Los Angeles and the City of Santa Monica. WCE understands from conversations with BAE Systems personnel that only the portion of the facility situated wholly within the City of Los Angeles is part of the potential real estate transaction with Santa Monica College. Therefore, facility operations located on the City of Santa Monica portion of the facility were reviewed only with regard to potential impacts to the property subject to the real estate transaction with Santa Monica College.

The purpose of our review was to provide an independent evaluation of environmental conditions that may exist at the facility in consideration of potential impacts on Santa Monica College's proposed redevelopment of the site, and potential long-term liability from previous site usage. File materials made available during a site visit on November 19, 2001 were reviewed, which included the following documents:

- Arcadis Geraghty and Miller, June 2001; Phase I/Phase II Environmental Site Assessment, BAE Systems, 3171 South Bundy Drive, City of Los Angeles, California (AGM-June 2001).

- Leroy Crandall and Associates, February 27, 1980; Report of Foundation Investigation, Proposed Headquarters Building and Warehouse Addition, Bundy Drive South of Airport Avenue, Los Angeles, California for Lear Siegler, Inc (Leroy Crandall –February, 1980).

- Miscellaneous permits for wastewater discharge, environmental compliance documents including SB-14 reports (hazardous waste reduction) for the years 1991 and 1994, and facility layout plans. These materials were available in seven file cabinets in a room provided for the purpose of due diligence review.

During the site visit on November 19, 2001, facility operations were observed on a tour guided

by Mr. Jim Bright of BAE Systems and both Mr. Bright and Mr. Richard Spalding were available to answers questions regarding the facility and its operations. Mr. Bright and Mr. Spalding are long-term employees of the facility, who are knowledgeable of facility operations and environmental compliance issues. Our review was performed on a rush basis to accommodate project scheduling and copies of pertinent documentation requested from BAE Systems are as yet unavailable for extended and detailed review. The requested documents are expected to be available by November 26, 2001.

WCE has the following preliminary comments based on the observations of our site tour, conversations with Mr. Bright and Mr. Spalding, limited review of documents provided during our site visit , and our knowledge of regional environmental conditions and regulations:

1. The BAE Systems facility overlies the Santa Monica Groundwater Basin (SMGB), which along with the Charnock Sub-Basin provides up to 40% of the municipal water supply for the City of Santa Monica. Although AGM-June 2001 report that no public supply wells are located within a mile of the facility, the SMGB contains significant groundwater resources that must be protected from contamination. The assessment reported in AGM-June 2001 did not sample groundwater.

2. The facility has a long-term history (since approximately 1956) of contact wastewater discharge to the City of Los Angeles sewer system through two multi-staged clarifiers (only one is currently active), that at various times has likely been exposed to volatile organic compounds (VOCs) and heavy metals including lead and hexavalent chromium from processes within the facility. The wastewater from the facility is typically acidic and a post-treatment discharge limit for pH of 4.5 is imposed on discharge to the city sewer. The clarifier is constructed of concrete and the drain lines feeding the clarifiers, which underlie the interior slab of the facility, are assumed to be cast iron. Each of these materials would be expected to corrode under long-term contact with acidic wastewater.

3. The results of soil and soil gas sampling reported in AGM-June 2001indicate that a release of process wastewater has occurred in the vicinity of the active clarifier at the rear of Building I. Although the concentrations of VOCs and heavy metals, including hexavalent chromium, reported are low and generally below regulatory guidance levels, observations of the sampling locations during the site tour noted that the sampling locations were offset from the clarifier, and not sufficiently close to the clarifier to be certain that the results are representative of underlying conditions. Efforts to drill near the clarifier from the building interior were reportedly refused due to the resistance of the interior slab.

Based on the limited review performed and the observations detailed above, WCE recommends additional evaluation of groundwater conditions underlying the facility, including groundwater sampling. The facility has a long-term history of process discharge that is similar in nature to processes believed responsible in part (leaking clarifiers) for contamination of the San Fernando and San Gabriel Groundwater Basins, which are currently undergoing Superfund cleanup for VOCs. The SMGB is a significant groundwater resource and discovery of VOCs or heavy metals in groundwater in the vicinity of the facility could result in a search for potentially responsible parties that could ultimately result in liability to the property owner. Furthermore, it should be anticipated that low pH soils impacted by heavy metals and VOCs may be

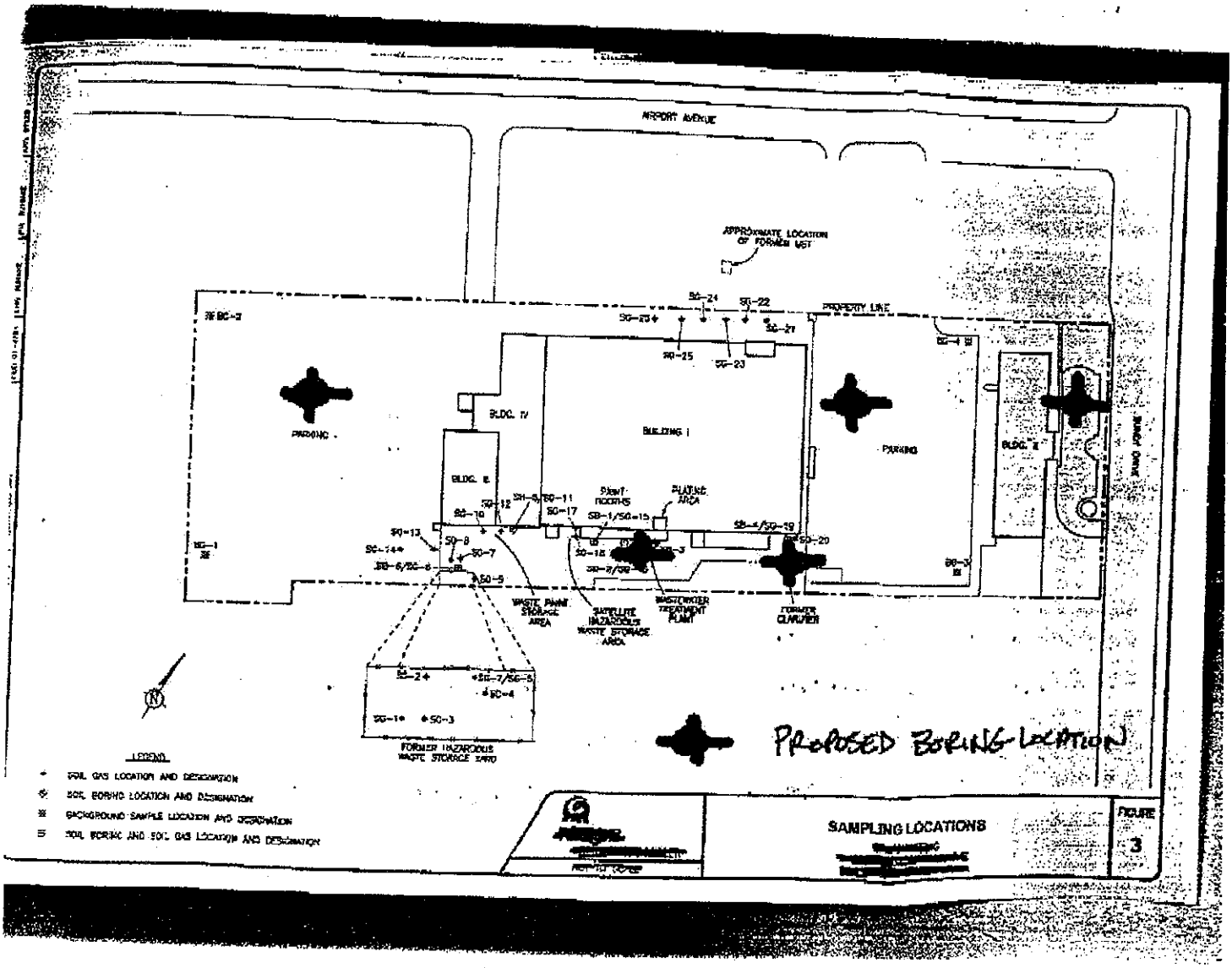
encountered during site demolition and grading that may require special handling. If such soils are encountered, special handling requirements could have significant impacts on project budgets.

Thank you for this opportunity to be of service. Please do not hesitate to contact me at (805) 644-7976 if you have any questions or need more information regarding this report.

Respectfully Submitted,
West Coast Environmental and Engineering

Peter L. Thams, C.E.G., R.E.A,
Senior Geologist/Group Manager

Cc: Lee Paul, LPI
Dave Sarkisian, Geolabs-Westlake Village



GEOLABS-WESTLAKE VILLAGE
Foundation and Soils Engineering, Geology
31119 Via Colinas, Suite 502 • Westlake Village, CA 91362
Voice: (818) 889-2562 (805) 495-2197
Fax: (818) 889-2995 (805) 379-2603
a dba of
R & R Services
Corporation

8266 - Bundy

TELECOPY TRANSMITTAL LETTER

Date: 11/19/01

Telecopier Number: (805) 379-2603

Office Number: (805) 495-2197
(818) 889-2562

Please deliver the following material as soon as possible:

To: Lee Paul

From: Dave Sarkisian

Total Number of Pages (including this page): 2

Additional Information: Proposed Boring Locations for Bundy Drive Property. I will try and coordinate through Dave Miller ASAP to perform this work. I will also be forwarding an addendum proposal for 5 rather than 3 borings...

Please notify us immediately if not received properly.

Thank you.

GEOLABS-WESTLAKE VILLAGE

DONNER_THOMAS

From: PAUL_LEE
Sent: Friday, November 30, 2001 8:59 AM
To: DONNER_THOMAS
Subject: FW: BAE Systems

-----Original Message-----
From: Peter Thams [mailto:pthams@wcenviro.com]
Sent: Friday, November 30, 2001 8:47 AM
To: 'lee@lpior.com'
Subject: BAE Systems

Lee

We received the results of laboratory analysis for volatile organic compounds (VOCs) from the perched groundwater zone at the BAE Systems facility. VOCs, including TCE, PCE and their breakdown byproducts, were detected in the groundwater sample at levels exceeding maximum contaminant levels (MCLs) for some compounds. The VOCs detected are consistent with compounds historically used at the facility, which indicates facility operations may have impacted groundwater at the site.

We should have all the laboratory reports by the end of the day today and are working on the report. We send you a draft as soon as we can.

Regards,

Peter Thams, C.E.G., R.E.A.
Group Manager
West Coast Environmental and Engineering

11/30/01

Mtg @ BAR w/ Consultants for ENV.

Low Ph soil / Heavy metal

ground water basin

3 drilling Locations

Power

perched water on clay layer @ 70ft

no metals

VOC's were present

Previous Testing Low levels of VOC's

No VOC discharge into sewer lines in Last 10 years

VOC from HAZARDOUS WASTE AREA seems likely

AQUA Fin

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	2.8	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	1.5	1	1.0
1,1,2-Trichloroethane	13	1	1.0
Trichloroethene	160	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	89	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	**4.0**	1	**1.0**
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	**8.0**	1	0.5
1,2-Dichloroethane	**6.2**	1	**1.0**
1,1-Dichloroethene	**260**	1	**0.5**
cis-1,2-Dichloroethene	**0.69**	1	0.5
trans-1,2-Dichloroethene	**0.59**	1	0.5
1,2-Dichloropropane	**24**	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

BAE SYSTEMS PROPERTY
3171 SOUTH BUNDY DRIVE
LOS ANGELES, CALIFORNIA

BUSS-SHELGER ASSOCIATES
Real Estate Consultants

Kurt S. Shelger, MAI, CRE
Ronald L. Buss, MAI, CRE
Russell W. Reynolds, MAI
Thomas W. Baaden, MAI
Robert D. Draves, MAI
Anthony M. Marin, MAI

865 S. Figueroa Street
Suite 3300
Los Angeles, California 90017
Telephone: (213) 388-7272
Fax: (213) 388-5276
E-Mail: bussshelger@pacbell.net

November 30, 2001

Santa Monica Community
College District
1900 Pico Boulevard
Santa Monica, California 90405-1628

Attention: Mr. Thomas J. Donner
Executive Vice President,
Business & Administration

Fulbright & Jaworski, LLP
865 South Figueroa Street, 29th Floor
Los Angeles, California 90017-2576

Attention: Mr. Michael G. Smooke
Attorney at Law

Reference: BAE SYSTEMS Property
3171 South Bundy Drive
Los Angeles, California

Our File No. 3276-01

Gentlemen:

In response to your request, we have personally inspected and appraised the above referenced property for the purpose of providing you with our opinion of "as is" market value. As a result of the field investigation, study and analysis, the following opinion of fee simple value has been formed as of November 15, 2001:

THIRTY TWO MILLION FOUR HUNDRED THOUSAND DOLLARS

($32,400,000)

A narrative appraisal report follows which presents descriptive information, factual data and analyses which form the basis for the opinion expressed.

Respectfully submitted,

BUSS-SHELGER ASSOCIATES

Ronald L. Buss, MAI, CRE

TABLE OF CONTENTS

SUBJECT
N

INTRODUCTION

Buss-Shelger Associates has been requested to value a large, both industrially and commercially zoned holding located technically in the city of Los Angeles, but from a practical standpoint is integrated into the Santa Monica Airport as shown on the facing aerial photograph. Since the property inherits the features of both communities, background comments on both West Los Angeles and the city of Santa Monica will be included in this narrative report.

The property under appraisement is presently owner-occupied by BAE SYSTEMS, the plant provides research, development and production of flight controls, avionics space and aircraft engine controls. Although not fully utilized at this time, the four buildings on the campus encompass a 10.398-acre parcel. A table is provided below to assist in understanding the composition of improved properties, the numbering system is internal to the ownership.

No.	Year Built	No. Floors	Square Feet	Current Use
1	1954/60s	1	90,966	Research/Production
3	Early 1960s	1	10,226	Support Offices
4	1981	4	65,260	Support Offices
5	1961	2	33,055	Corporate Offices
TOTAL AREA			199,507	

The current building to land ratio (FAR) is 0.44 to 1, well below the allowable density of 1.5 to 1; on-site parking exists for 654 spaces. Recognizing the lower density and age of the improvements, the 10± acres (in part or total) is well situated on the west side for redevelopment with up to 500,000 square feet of office space as allowed by zoning. In this connection, several assumptions have been made which become a component of the valuation analysis.

- A peak-hour traffic control device will be installed at Bundy Drive to be time integrated with the signalization at Bundy Drive and Airport Avenue.
- The current Stewart Street access to the lower parking lot will likewise be time regulated to mitigate homeowners' concerns about a potentially large-scale project.

- The current second access point off Airport Drive to the lower parking will be relocated further to become an extension of Donald Douglas Loop South.

The latter item has the concurrence of the city of Santa Monica and becomes a necessary ingredient to the city approval of the recycling efforts if implemented.

PURPOSE OF APPRAISAL

The purpose of this appraisal is to report our opinion of the market value of the simple interest in the subject holding in an "as is" condition.

SCOPE OF APPRAISAL

To analyze the subject per the optimum development scheme outlined herein, the appraiser has conducted a field inspection of the property and surrounding district; in addition, he has collected, confirmed and analyzed pertinent market data necessary for a value conclusion. The Sales Comparison Approach is utilized in analyzing the subject land portion since it is the recognized methodology when valuing vacant land, particularly so when considering the specific use and intention for the site. Similarly, the corporate offices of "Bundy Building" has a value in excess of the underlying land, this type of owner-occupied facility was likewise valued by the Sales Comparison Approach utilizing transfers of similar buildings.

USE OF APPRAISAL

The appraisal has been requested by Mr. Michael Smooke as legal counsel to the Santa Monica Community College District; the study is to be used in connection with the potential purchase of the property.

DATE OF VALUE

The matters and opinions expressed herein are stated as of November 15, 2001, the site was inspected several times in the past month.

PROPERTY RIGHTS APPRAISED

The interest in the subject property being appraised is that of the fee simple estate which is ownership unencumbered by any other interest or estate, subject only to the limitations of eminent domain, escheat, police power and taxation.

DEFINITIONS

Market Value

> "The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently, knowledgeably and assuming that the price is not affected by undue stimulus." Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby:
>
> (a) buyer and seller are typically motivated;
>
> (b) both parties are well informed or well advised, and acting in what they consider their own best interest;
>
> (c) a reasonable time is allowed for exposure in the open market;
>
> (d) payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and
>
> (e) the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale.

As-Is Market Value

> "An estimate of the market value of a property in the condition observed upon inspection and as it physically and legally exists without hypothetical conditions, assumptions, or qualifications as of the date the appraisal is prepared."

Fee Simple Estate

"Absolute ownership unencumbered by any other interest or estate; subject only to the limitations imposed by the government powers of taxation, eminent domain, police power and escheat."

PROPERTY IDENTIFICATION

The property in question is identified by the following Los Angeles County Assessor's reference as:

Book 4247, Page 001, Parcel 030

OWNERSHIP HISTORY

The subject property was vested in the ownership name of Lear Siegler Astronics Corporation through its initial development. The firm was acquired in the early 1980s, the successor entity changing hands several times since, and last purchased by BAE SYSTEMS in 1998. The subject real estate was always part of the corporate entity transfer.

The decision was made earlier this year to sell the subject property, hopefully before year end, book the proceeds and relocated the company over the ensuing 15 to 18 months. This obviously involves an interim leaseback of the premises allowing alternative site selection and relocation to occur. CRESA Partners has been marketing the property, the following all-cash offers have been received; they are listed by descending price order.

Prospective Buyer	Offering Price	Due Diligence/ Escrow Close	Closing Contingencies
Archstone Communities Trust	$36,000,000	16 Months	Rezoned – 100,000 sq.ft. office, 454 apartments
Lincoln Property Company Southwest	$35,000,000	19 Months	Rezoned – 625 multi-family units

Location Map

Prospective Buyer	Offering Price	Due Diligence/ Escrow Close	Closing Contingencies
Scobar (Shafer/Beitler)	$34,250,000	3 Months	None – As Is Purchase
Related Communities Chicago Group	$30,000,000	3 Months	None – As Is Purchase
Santa Monica Community School District	$30,000,000	3 Months	None – As Is Purchase

MARKETING / EXPOSURE TIME

Exposure time is presumed to occur prior to the effective date of the appraisal. Review of the sales data and analysis of prevailing market conditions leads to the opinion that a time frame of six to nine months is considered to be a reasonable estimate to achieve a price consistent with the appraised value concluded herein.

LOCATION

The subject property is situated on the westerly side of Bundy Drive (Centinela Avenue southerly), 200 feet southerly of Airport Avenue, Santa Monica Airport. As shown on the facing Location Map, the northerly property line is also the boundary line separating the cities of Santa Monica and Los Angeles; the subject falls within the latter. As previously indicated, background information and a brief discussion will be provided on each community.

METROPOLITAN LOS ANGELES

Background

The Los Angeles Metropolitan Area is the second largest urban area in the United States behind New York and its environs. Long recognized as the West Coast's most important trade and cultural center, the Greater Los Angeles area has historically enjoyed a strong and diverse economic base, largely due to factors such as location, extensive freeway system, diversified employment base, scenic environment and a temperate climate. Additionally, trade has been strong with Pacific Rim countries such as Japan, China, Korea and Taiwan. The scope and significance of the Los Angeles-Long Beach metropolitan area is demonstrated by the following statistical data contained in the "2001 Survey of Buying Power" published by Sales and Marketing Management.

		Rank
Population:		
Los Angeles-Long Beach	9,568,600	1
New York	9,371,700	2
Chicago	8,337,300	3
Total Effective Buying Income ($000):		
New York	$195,293,762	1
Chicago	$184,731,599	2
Los Angeles	$169,417,226	3
Total Retail Sales ($000):		
Los Angeles-Long Beach	$111,276,587	1
Chicago	$107,339,981	2
New York	$ 87,695,524	3

The Los Angeles-Long Beach statistical area ranks first in population and is demonstrating considerable strength in the effective buying income and retail sales sectors. Of equal significance, Greater Los Angeles is ranking first nationally in total business employment. A large concentration of skilled technicians, engineers and scientists in varied industries such as manufacturing (including aerospace), business and professional management services, health

services, motion picture/TV production, transportation/communication, etc. are vital to the economy of the area.

Over the years Los Angeles County has experienced rapid and sustained population growth. During the 20th century, the number of residents grew from 170,000 in 1900 to a 2000 level of 9,519,000. Historically, people were attracted to Southern California by the favorable climate, diversified job opportunities and a life-style emphasizing home ownership and a wide range of leisure activities. However, the large concentration of people has brought with it the drawbacks typically associated with major metropolitan areas, including traffic congestion, social problems and a shortage of affordable housing. Efforts are being made to alleviate these conditions and the future economic outlook is quite favorable.

Population

The table below summarizes population growth trends for Los Angeles County. The statistical information was compiled by the U.S. Census Bureau.

Los Angeles County Population Trends

Year	Population	Average Annual Growth Rate
1960	6,042,700	---
1970	7,032,075	1.5%
1980	7,477,503	0.6%
1990	8,863,164	1.7%
2000	9,519,338	1.1%

Rapid population growth was experienced during the 1960s when many of the communities within the county were in their initial growth stages. Population growth slowed during the 1970s but picked up substantially during the 1980s largely due to the strong economy that was heavily based on defense contracts of Southern California's aerospace industry. The end of the Cold War caused a severe attrition in defense and aerospace industry related jobs. Together with

economic setbacks and mounting unemployment there had been a reversal in the net immigration pattern in that the number of people leaving Southern California exceeded the inflow of residents from other states. However, recent statistics show that more people are moving to California from other states than the number of Californians moving out.

The pickup in the Los Angeles County's population growth is worth noting. Per California Department of Finance, Demographic Research Unit, an increase of 159,000 persons was recorded in 2000 and a further increase of 150,000 is projected for 2001. Los Angeles County's population is estimated to reach 10,025,000 by the year 2002.

Employment and Economic Trends

The following observations and projections have been set forth by the Los Angeles County Economic Development Corporation in its "*2001-2002 Economic Forecast & Industry Outlook.*"

- Following a strong growth pattern, the U.S. economy is decelerating, a condition felt throughout the nation and beyond. U.S. growth will drop to 1.8% in 2001 from 5% in 2000 before recovering to 2.6% in 2002.

- Inflation this year will be 3.4%, the same as 2000. Inflationary pressure will abate in 2002 as labor costs and energy prices decline.

- The Federal Reserve is likely to reduce the key Federal Funds Rate by another 50 to 75 basis points in the second half of 2001.

- Economic prospects are heavily influenced by the attitudes of U.S. consumers who are expected to sustain a strong level of spending until business investment begins to recover.

- California's economy will narrowly avert a recession in 2001, with nonfarm employment growing by 2.2% or 318,000 jobs. Job growth in Los Angeles County is projected at only 1.4% in 2001, increasing to 1.8% in 2002.

- The impact of tax refunds and lower income tax rates on consumer spending will be felt in the fourth quarter of 2001 and early in 2002, giving a modest boost to the nation's economic growth.

Outlook for Los Angeles County

Favorable factors providing Los Angeles County with a buffer from severe economic fluctuations include the diversity of the County's economy and the large number of major construction projects underway. In addition, despite uncertainties generated by the energy crisis and a slowing economy, major business expansions are still taking place.

On the negative side, sources of concern are the energy situation, the weakness experienced by several major industries and the leveling off of international trade. In addition, the office and retail markets are considered to be problem areas on a macro-basis.

Total nonfarm employment is Los Angeles County reached 4,084,500 in the year 2000, an increase of 81,600 or 2.0 percent over the previous year. An increase of 1.4 percent is projected for 2001. In 1994, during the depth of the 1990s recession, the number of employed in Los Angeles County was 3,701,900 or 9.4 percent below the year 2000 figure. Along with the increase in employment there has been a sharp decline in the unemployment rate since 1993, a pattern that should be reversed when 2001 figures are available.

Percent Unemployed

Year	Los Angeles County	State of California
1993	9.8%	9.4%
1995	7.9%	7.8%
1997	6.8%	6.3%
1999	5.9%	5.2%
2000	5.4%	4.9%
2001	5.6%*	5.0%*
2002	5.7%**	4.9%**

*Estimate
**Forecast

Outlook for Major Industries

The following information summarizes the trend of major industries in the Los Angeles five-county area (Los Angeles, Orange, San Bernardino, Riverside and Ventura counties).

Aerospace

This sector includes production of aircraft and parts, missiles and space equipment, and search and navigation equipment, which can be used in defense, space, and commercial applications. These activities generate high wage, high-multiplier jobs. The commercial aircraft industry suffers from the severe slowdown in the orders for mainline jets and the competition between Airbus and Boeing.

Higher budgets by the Department of Defense (DOD) will result in a pick up of business by local defense contractors.

DOD Budget ($billion)

	FY98	FY99	FY00	FY01	FY02
Procurement	44.8	48.9	55.4	62.4	62.6
R, D, T & E	37.1	36.6	38.8	41.0	47.4

Source: US Department of Defense

Employment in the aerospace industry in Los Angeles County has been declining but is expected to gradually improve during the next few years.

Aerospace Employment

	1997	1998	1999	2000	2001e	2002f
Aircraft & Parts	62,800	64,900	58,300	51,600	46,200	45,200
Missiles & spacecraft	4,100	2,800	1,900	1,800	1,700	1,900
Search & Navigation Equipment	36,100	35,800	33,100	30,500	30,900	31,200
TOTALS	103,000	103,500	83,300	83,900	78,800	78,300

Apparel

Los Angeles County has a very well developed apparel/textiles hub. There is renewed interest in Los Angeles "fashion," attracting people from various parts of the country. Nevertheless, the industry is under severe pressure caused by rising natural gas costs, the push for lower prices by retailers and the stringent regulatory environment in the State. These problems have been driving apparel makers to low cost locations in Mexico, which is reflected in the following employment figures.

Apparel & Textiles Employment

	1997	1998	1999	2000	2001e	2002f
Apparel	111,900	106,300	101,300	100,700	98,400	96,000
Textiles	15,300	15,700	16,600	16,600	16,000	15,700
TOTALS	127,200	122,000	117,900	117,300	114,400	111,700

Business and Professional Management Services

This sector includes engineering and architecture, accounting, advertising, law, management consulting and computer-related activities. Weakness in the economy are boosting the demand for services by accountants, law firms and management consultants as firms are restructuring and streamlining their operations. Engineering firms are busy with power plants, highway and rail transit projects. The advertising sector is impacted by the huge cut back in advertising budgets.

Business and Professional Management Services Employment

	1997	1998	1999	2000	2001e	2002f
Business services	304,300	321,300	328,200	350,000	363,000	378,000
Engineering & Mgmt.	116,400	118,100	115,300	117,700	119,300	122,200
TOTALS	420,700	439,400	443,500	467,700	482,300	500,200

Financial Services

The financial services industry in Southern California continues to see lots of change. Comerica has completed its acquisition of Imperial Bank, while Sanwa Bank has just merged with Tokai Bank to form "United California Bank," a name once used by a prominent local bank that eventually became part of Wells Fargo. Despite job losses caused by mergers a slight increase in overall employment is projected.

Financial Services Employment

1997	1998	1999	2000	2001e	2002f
109,200	111,600	111,900	111,300	113,600	116,000

Health Services

Employment in this category has been increasing at a moderate pace. The industry is beset by numerous problems including disputes between hospitals and HMOs; a shortage of qualified nurses; concerns over quality and cost of health care with several hospitals struggling financially.

Health Services Employment

1997	1998	1999	2000	2001e	2002f
264,400	264,200	267,200	270,700	273,300	276,300

International Trade

Following a stellar performance in 2000, this sector has weakened considerably. Export activity is hampered by weak Asian economies and the strength of the U.S. dollar. Import activity is constrained by the inventory build-up in the U.S. and the weak retail sales trend.

In 2001, the value of exports out of Los Angeles Customs District should move up by 1.5% to $78.8 billion, quite a contrast to the 2000s 16.5% gain. Import values in 2001 should increase by 1.9% to $155.3 billion, compared with 2000s 16.8% increase.

Expansions are underway at both the Los Angeles and Long Beach ports, and the Alameda Corridor transportation project is approaching completion. There are concerns about the July 2002 expiration of the ILWU contract, covering the entire Pacific Coast, as a strike would be quite devastating to the local economy.

Motion Picture/TV Production

The year 2000 will be remembered by the bankruptcies of several theater chains, a strike against commercial producers, and disappointing box office results. Contract negotiations between the studios and the Writers and Screen Actors guilds and AFTRA (American Federation of Television and Radio Artists) took place in 2001. To protect themselves in case of a strike, the studio accelerated production at the start of the year, causing a sharp decline during the second half.

Entertainment industry employment in Los Angeles County in 2001 should average 135,500, essentially unchanged from the previous year's level. The 2001 box office results are anticipated at $8.31 billion, an 8.5% increase over the previous year.

Tourism

Adverse conditions affecting the tourist business include the energy crisis and the fears associated with it by out-of-state visitors being caught in a blackout. Also, the strong U.S. dollar deters international visitors. Difficult economic times in the San Francisco Bay area, a significant source of tourist business, have an adverse impact, as has the September 11th terrorist attacks.

Overall, the number of overnight visitors to Los Angeles County in 2001 should move up 0.4%. Hotel occupancy rate in Los Angeles County for 2001 should average 73%.

In November 2001 the Hollywood & Highland project will be completed which will be a big boost for the community of Hollywood, but to really stay competitive with Anaheim and San Diego with its expanded convention facilities, Los Angeles needs the retail/entertainment center and the major hotel planned adjacent to the Staples Center and the downtown convention center.

Outlook for the Construction and Retail Industries

The volume of residential construction has been steadily increasing since 1996 as shown below.

Los Angeles County Residential Permits (Number of Units)

Year	Single-Family	Multi-Family	Total
1996	5,370	3,237	8,607
1997	6,788	3,638	10,424
1998	6,887	4,805	11,692
1999	7,858	6,525	14,383
2000	8,392	8,542	16,934

Population growth, attractive mortgage rates and low unemployment contributed to the demand for housing. New construction is lagging the demand for living accommodations, resulting in a shortage of housing, especially of affordable housing. Construction of affordable housing is constrained by the scarcity and high prices of developable land, opposition by property owners to higher density housing, plus a lengthy and expensive entitlement process.

Home prices and apartment rents have been rising and this trend is expected to continue. Average home prices in Los Angeles County have shown a pronounced increase since 1997 as illustrated by the table on the next page.

Average Home Prices per Los Angeles County

Year (April)	Average Home Price	Change
1997	$211,787	---
1998	$226,235	6.8%
1999	$252,672	11.7%
2000	$278,468	10.2%
2001	$309,498	11.1%

Source: Real Estate Research of Southern California

With high demand for housing, apartment vacancies in Los Angeles County declined from 3.4% to 3.1% during the last year. During the same period average monthly rents went up 11.0% from $1,068 to $1,186.

Southern California's residential real estate activity will most likely remain strong through the rest of 2001, but the gradual slowdown which has been observed during the first half of the year will continue expressed in a slow down of building activity and a decrease in home sales. Nevertheless, home prices and residential rents will continue their upward trend.

Office Development

Following the large oversupply of office space resulting from the 1980-1990 building boom, new office building construction has been restrained during the economic expansion starting in 1995 but has gained in momentum during the past five years as illustrated below.

Los Angeles County Office Building Permits

Year	($000)	Change
1995	$ 88,000	---
1996	$133,000	+51.1%
1997	$161,000	+21.0%
1998	$284,000	+76.4%
1999	$393,000	+38.4%
2000	$268,000	-32.0%

Office vacancy rates in Los Angeles County declined from 18.4% in 1996 to 12.9% in 2001. A persistently high vacancy factor of 20.3% plagues Central Los Angeles whereas the West Los Angeles area reports a vacancy of 11.2%; this is nearly double the 5.5% vacancy of one year ago. This increase is due mainly to the dot-com crash of

2000, making available about 700,000 square feet, much of it "creative" office space which is not in demand by conventional business firms.

Cutbacks by corporate tenants combined with the shrinking space demand on the part of the telecom sector are creating a renter's market, characterized by an uptrend in vacancies and a softening of rents.

Industrial

Demand for industrial space has remained strong even as the manufacturing sector has decreased in importance. Most of the demand originates from the distribution/warehousing sector whose growth will be further stimulated by the completion of the Alameda Corridor and the expansion of the twin ports.

The overall vacancy for industrial space in Los Angeles County declined to 3.9% in the second quarter 2001 from 4.2% in the first quarter, although there is a large quantity of sublease space being brought to the market. It stood at 5.25% in 1999 and 4.75% in 2000.

To meet the demand large increments of space have been added to the inventory. This is clearly shown in the statistical data below.

Los Angeles County Industrial Building Permits

Year	($000)	Change
1995	$294,000	---
1996	$516,000	+75.5%
1997	$763,000	+47.9%
1998	$1,237,000	+62.1%
1999	$1,198,000	-3.2%
2000	$1,173,000	-2.1%

Los Angeles County continues to have the lowest industrial vacancy rates in the Southern California region. The industrial space is basically fully occupied as most of the available facilities are not in keeping with today's requirements.

Retail

Retail sales have experienced robust growth since the depth of California's recession in 1993. Taxable retail sales in Southern California rose by 11.0% in both 1999 and 2000. The slowdown in the economy is reflected in the forecast for 2001 and 2002 of 2.2% and 2.8%, respectively.

Retail construction activity has been accelerating at a fast pace as shown in the following table below despite the slowdown projection in the above figures for 2001 and 2002.

Los Angeles County Retail Construction Permits

Year	($000)	Change
1995	$757,000	---
1996	$818,000	8.1%
1997	$945,000	15.5%
1998	$1,053,000	11.4%
1999	$1,246,000	18.3%
2000	$1,330,000	6.7%

Various trends and shifts are emerging in the retail sector. For instance, Wal-Mart is broadening its scope of products and services, putting pressure on stores such as JC Penney and Sears. It forced the Montgomery Ward to close its 250-store nationwide chain. Moreover, warehouse-type operations such as Costco are expanding, putting out of business many smaller operations. Moreover, many retail companies over-expanded and are overloaded with debt during a declining economy. In addition retailers have set up Internet operations, cutting into conventional shopping trips.

Particularly hard hit by these trends are some of the conventional regional malls. Several have been partially razed to be converted into open malls or mixed-use developments, i.e., Long Beach Plaza, Plaza Pasadena and Sherman Oaks Galleria.

Summary and Outlook

The year 2000 was a good year for the Los Angeles County economy. The diversity of the County's economic base has been a major factor in its recent healthy performance. A number of major multi-year private and public projects are under construction. Upon completion, they will contribute to the vitality of the area. These include: the Alameda Corridor; expansion of both the ports of Long Beach and Los Angeles; the Hollywood and Highland project; the downtown Disney Concert Hall and the Cathedral of Our Lady of Los Angeles; the light rail line from downtown Los Angeles to Pasadena; and the "Grove" shopping center at the Farmer's Market.

Slowing in the national economy is expected to result in slower job growth, less robust consumer spending and a cooling in international trade in the Los Angeles region during 2001. Anticipated declines almost uniformly represent changes in how fast economic indicators are growing rather than reversals into negative territory. The energy crisis has had a variety of impacts, both economic and financial, most typically move-outs from the State. The full impact of the September 11th terrorist attacks is not possible to gauge at present.

WEST LOS ANGELES

Location

The property in question is located within the West Los Angeles area of the city of Los Angeles. Extending roughly between Santa Monica Boulevard and Pico Boulevard, westerly of Century City to the Santa Monica city limits, West Los Angeles is a densely populated sector of the Los Angeles Metropolitan area with a heavy emphasis on multifamily and office development.

Development Patterns

During the last 15 years the character of West Los Angeles has undergone a significant change. The area has become home to major law firms, financial institutions and corporate headquarters; most have relocated away from the crowds, traffic and congestion of Beverly Hills, Century City and downtown Los Angeles. More recently, media and Internet companies have developed a strong presence is West Los Angeles. Many executives who live in the suburbs of Brentwood, Bel Air, Westwood, Pacific Palisades and Malibu enjoy the better commute that a West Los Angeles location offers.

Originally the bulk of office construction was along Olympic Boulevard, starting at Sepulveda Boulevard and extending west one mile to Bundy Drive. Other westside areas where major development occurred are the Wilshire-Brentwood, Sepulveda and Santa Monica Boulevard corridors. Recycling of land formerly improved with older apartment buildings into high-end condominiums was prevalent until the area reached an overbuilt condition in 1989-1991.

The aforementioned construction activity in West Los Angeles generated an increasing market for service-commercial establishments. A proliferation of strip shopping center development paralleling the building boom occurred along the major thoroughfares in the area.

Employment of area residents is diversified among various fields with a high representation of professional, technical and managerial jobs.

Accessibility

Wilshire, Santa Monica, Olympic and Pico boulevards are major east-west thoroughfares carrying a heavy volume of traffic, particularly west of the San Diego Freeway. Major north-south thoroughfares in the area include Bundy Drive, Barrington Avenue, Sawtelle Avenue and Sepulveda Boulevard. The Santa Monica (I-10) and the San Diego (I-405) freeways are vital transportation corridors.

Trend

West Los Angeles is a stable, highly desirable area and is expected to continue to enjoy a favorable reputation. In recent years the trend in the area has been toward redevelopment of under-improved parcels with more intensely developed projects. The area benefits from its pleasant environment due to its proximity to the Pacific Ocean, resulting in lower summer temperatures. Furthermore, it enjoys a high social and economic status which is clearly reflected in the quality of the housing inventory and the thriving commercial districts. Considering past and present trends, it can be anticipated that the favorable factors influencing this large area will continue to make West Los Angeles a desirable place to live and conduct business.

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DATA ON SANTA MONICA

Location/Access

Santa Monica is located at the Pacific Ocean shoreline in the southwesterly portion of Los Angeles County, approximately 15 miles west of the Los Angeles Civic Center. Santa Monica was incorporated in 1876 and contains an aggregate area of 8.3 square miles. City boundaries are as follows:

San Vicente Boulevard and Montana Avenue	On the south
Centinela Avenue	On the east
Pacific Ocean	On the west
Dewey Street and Airport Avenue	On the south

The city of Santa Monica is located in the western portion of the Los Angeles metropolitan area. Santa Monica is easily reachable by air, boat or land transportation. It is closer to Los Angeles International Airport than downtown, and in addition, has its own airport for private planes or short-haul connections. With no fewer than six major east-west and north-south highways and freeways, Santa Monica offers excellent access to the entire Los Angeles vicinity with Santa Monica Municipal and Los Angeles Municipal Bus lines servicing Santa Monica.

Population

Population growth in Santa Monica since 1940 is illustrated in the summary located on the following table; the statistics provided were obtained from the U.S. Census, and the State of California Department of Finance.

Year	Population	Percent Change
1940	53,500	---
1950	71,595	3.4%
1960	83,249	1.6%
1970	88,289	0.6%
1980	88,314	---
1990	86,905	(0.2%)
2000	84,084	(0.3%)

The largest gains occurred between 1940 and 1950 when the population increased by about 34% or about 18,000 residents. From 1950 to 1970 the city continued to grow, but at a much slower pace of only 1.2% per year. There has been a slight, but continual decline in the city's population since 1980. The population base is largely composed of skilled workers, professional people, and executives. There is also a high percentage of retired people who have settled in the city because of the moderate climate and other amenities which the area offers.

Employment

The largest employment sector in the city is services, followed by retail trade and manufacturing. Analysis of the data indicate that the majority of Santa Monica's work force is employed in white collar professions. There are over 10 manufacturing plants with 100 or more employees in the community with leading product groups including electronics, aerospace and computers. The largest manufacturing firms in the community are listed below.

Name of Company	Employment	Product
Lear Siegler Astronics Corp.	900	Astronics
Candle Corporation	800	Computer Software
L.A. Gear	750	Athletic Apparel/Shoes
Louverdrape, Inc.	740	Vertical Blinds
The Gillette Company	700	Pens
Pioneer Magnetics	560	Power Supplies

There are also numerous non-manufacturing employers in the community area, the largest of which are shown on the table on the following page; the statistics were provided by the Santa Monica Chamber of Commerce.

Name of Company	Employment	Product
City of Santa Monica	2,207	Government
Santa Monica/Malibu Unified School District	1,607	Public School District
Santa Monica College	1,274	Community College
St. John's Hospital & Health Center	1,000	Hospital
Rand Corporation	958	Research & Development
U.C.L.A. Santa Monica Hospital Medical Center	800	Hospital
National Medical Enterprises	595	Hospital Management
Morley Group, Inc.	500	Construction
Metro Goldwyn Meyer, Inc.	500	Entertainment

Character of Development

The city of Santa Monica is approximately 8.3 square miles (5,363 acres). Located along the Pacific Ocean, Santa Monica maintains over three miles of beaches, first class hotels, restaurants and entertainment opportunities. Additionally, Marina Del Rey, less than ten minutes away, has one of the largest and most luxurious private boat harbors in the United States. Santa Monica has among the most prestigious residential neighborhoods in Los Angeles, and therefore, is a natural home for corporate executives. Other exclusive neighborhoods, within proximity, include Brentwood, Bel Air, Westwood and West Los Angeles.

Recognizing that Santa Monica is a predominately residential community, there are however major commercial districts and a significant industrial area within the city limits. The most important commercial development is Santa Monica Place, an enclosed regional mall with two-department stores containing a gross leasable area of 565,000 square feet. The center is located between Second and Fourth Streets at Colorado Avenue. Of additional significance to the city is Santa Monica Mall (Third Street Promenade), extending along Third Street between Wilshire Boulevard and Broadway, an open air commercial district. Substantial funds has been expended on public related facilities, i.e. landscaping, lighting and thematic improvements, alley upgrading, and increased parking. The decline of Santa Monica Mall over the years precipitated this revitalization

effort. The Third Street Promenade has been highly successful, attracting numerous high-end restaurants, national retail chains (Barnes & Noble Bookstore, Rizzoli Books, Disney Store, Pottery Barn, Jay Crew, The Gap, Banana Republic, Tower Records, etc.), cinemas (AMC Theatres, Mann Theatres and Cineplex Odeon) and clubs which have created a regional entertainment destination. The city of Santa Monica has also experienced growth as a dining/entertainment center serving the surrounding Westside Los Angeles and greater Los Angeles areas. Especially significant has been the redevelopment of the Old Main Street District and the above mentioned Third Street Promenade.

Several first-rate hotels exist within the city limits of Santa Monica. These hotels include the 196-room Shutters on The Beach Hotel at the corner of Ocean Avenue and Pico Boulevard; Loews Santa Monica Beach Hotel, which has 200 rooms and is located on Ocean Avenue near Pico Boulevard; the Sheraton with 253 suites located at Fourth Street and Olympic Boulevard; The Bay View Holiday Inn, which has 350 rooms and is located at the corner of Ocean and Colorado avenues; and the Miramar Sheraton, which has 308 rooms and is located on Wilshire Boulevard between First and Second Streets. Recently constructed along Ocean Avenue is the 175-room Le Merigot hotel as well as the 129-room Casa Del Mar. Both the latter facilities have programmed room rates at $300 per night plus.

Wilshire Boulevard is the principal commercial thoroughfare in the city of Santa Monica. Development ranges from retail strip stores to modern high-rise office buildings. An intensification of land use had been experienced over an extended period of time, but severe constraints have subsequently been imposed concerning development density and height limitation. The Santa Monica industrial district extends along the former Pacific Electric Railway right-of-way. This industrial corridor follows Olympic Boulevard from Centinela Avenue for a distance of two miles in a southwesterly direction to Sixth Street.

Office Market

Santa Monica has traditionally been a landlord's office market due to the very tight growth restrictions enacted by its city council and voters. Proposition U in West Los Angeles created pressure on Santa Monica as the next area for increased construction.

The Santa Monica market is divided into four separate areas: The Santa Monica Airport located along Ocean Park Boulevard near the airport: the Special Office District bounded by 20th Street on the west, 26th Street on the east, Broadway on the north, and Olympic Boulevard on the south; downtown Santa Monica East running along Wilshire and Santa Monica boulevards, east of Sixth Street to Centinela Avenue; and the Central Downtown District bounded by Ocean Avenue on the west, Wilshire Boulevard on the north, Pico Boulevard on the south and Sixth Street on the east.

The non-CBD areas include large projects such as the Water Garden project, adjoining MGM Plaza (formerly Colorado Place) and the Arboretum. These large projects in the non-CBD compete for larger tenants such as law firms, entertainment companies, technology and computer businesses, as well as smaller tenants. As recently as the end of last year rents had escalated to $4.00 per square foot (monthly) as a result of a 3.5% vacancy rate, however the recent failure and contraction of numerous dot-com, high-tech and info firms, has led to a vacancy rate escalating rapidly to 16.3%.

Retail Trade

Santa Monica is a relatively affluent area overall, although there are significant variations in buying power amongst the numerous neighborhoods in the city. The table on the next page highlights retail data for the city as compared to the larger surrounding area. Figures are from "Survey of Buying Power," *Sales & Marketing Management 2001*.

Category	Santa Monica	Los Angeles Long Beach Area	State of California
Retail Sales Per Capita	$31,818	$11,629	$14,711
Median Household E.B.I.	$42,301	$41,627	$39,741

The data show median household effective buying income is consistent with the larger areas, however the retail sales per capita clearly reveal the city is a magnet for shoppers and tourists from outside the immediate area. This is greatly due to the increased retail sales volumes brought about by the success of the Third Street Promenade.

Civic Center Specific Plan

By special municipal election on June 7, 1994, residents of the city of Santa Monica approved passage of the Civic Center Specific Plan. Covering the area bounded by Ocean Avenue, Pico Boulevard, Fourth Street and Colorado Boulevard, voters approved a land use plan which calls for the redevelopment and expansion of the existing Civic Center, County Courts, Santa Monica Civic Auditorium, Santa Monica Police Station, the Rand Corporation facility and Pacific Shores Hotel. The conceptual plan allows for additional development including 250,000 square feet of speculative office space, 350 residential units, 20,000 square feet of retail space, 200,000 square feet of institutional space for the Rand Corporation, a 55,000 cultural/community center, 260,000 square feet of additional court and civic facilities, and multi-level parking garages. Development of the project will occur in phases most likely over a 15 to 20-year period according to city officials. Funding for the initial phase of the project (new police station) is pending and is the main obstacle to the rate at which the project is developed.

Summary

Santa Monica, over the last 10 years, has undergone a remarkable and rapid resurgence and can be accurately described as one of the most active markets on the Westside. This growth is largely due to the attractive environment and the proximity to some of Los Angeles' most affluent communities.

The stringent rent control of multifamily project development policies within the city have brought much controversy to the city of Santa Monica. Because of the below market rental rates, vacancies in apartment units are minimal, but at the expense of property owners whose growth in real estate values are inhibited by the below market rental rates initiated by the voters of the city. As a result, there has been little new construction activity in the multi-family sector and existing product condition has deteriorated given reduced incentive for strong maintenance programs. This has recently changed with the January 1996 action taking by the State Legislature which by January 1999 allowed rental rates on vacation, abandonment or eviction to go to market levels. Future increases in rent, however will be dictated by the Santa Monica Rent Control Board. Future prospects for Santa Monica are very good as the city continues to be an attractive tourist and regional entertainment destination, plus home to an increasing number of entertainment related firms who are attracted to the area due to its proximity to nearby affluent residential communities, the Pacific Ocean and predominately low-rise surroundings.

OFFICE MARKET OVERVIEW

Introduction

The subject parcel is currently zoned to allow for approximately one-half million square feet of office space. In order to gain insight into the demand for added space, we are including information on the current status of the West Los Angeles office market. This is essentially based on statistical data published by Grubb & Ellis Research Service Group, Third Quarter 2001, along with data compiled by other brokerage firms, as well as the *Los Angeles Business Journal*. Grubb & Ellis's survey includes buildings constructed or renovated since 1965, containing at least 20,000 square feet of rentable office space. Excluded are medical, governmental, owner-occupied (75% or more) and significantly deteriorated buildings.

Development Trend

The Los Angeles metropolitan area experienced unprecedented office building construction beginning in the early 1980s. Accelerated construction activity during the 1980s reflected the cyclical nature of office development. West Los Angeles has been one of the strongest markets with low vacancy rates and high net absorption levels through the late 1980s. But in 1990, when net absorption of office space in most markets began to decrease, and up until year-end 1993, the vacancy rate consistently hovered around 20%. Most West Los Angeles submarkets began to show some improvement beginning in early 1994. Speculative construction in West Los Angeles began to increase in the late 1990s with several projects now under way.

Inventory and Vacancy Data

The chart on the following page contains detailed information on the status of the office market of the entire West Los Angeles area as well as of the individual submarkets as of the Third Quarter of 2001. The subject property is located in the West Los Angeles submarket.

COMPETITIVE OFFICE MARKET
2001 THIRD QUARTER

Submarket	Square Feet Total	Square Feet Vacant	3rd Qtr '00	3rd Qtr '01	Sq.Ft. U/C[1]	Asking Rent[2] Class A	Asking Rent[2] Class B
Beverly Hills	5,309,236	569,295	9.5%	10.6%	45,592	$2.75	$2.90
Brentwood	3,366,878	307,154	4.8%	9.1%	0	2.85	2.04
Century City	9,000,887	508,450	3.4%	5.6%	0	2.95	3.27
Hollywood/W. Hwd.	2,742,917	451,924	11.7%	16.5%	80,000	2.31	2.35
Marina/Culver City	4,769,687	503,124	4.7%	9.9%	485,299	2.17	2.58
Miracle/Park Mile	5,445,167	743,918	9.7%	13.7%	0	2.19	2.29
Santa Monica	7,497,592	1,219,032	3.5%	16.3%	175,774	2.99	3.46
West Los Angeles	5,345,770	760,234	6.9%	14.0%	156,950	2.42	2.57
Westwood	2,867,710	367,140	8.9%	12.8%	0	3.32	3.55
TOTALS	46,365,844	5,430,271	6.4%	11.6%	943,615	$2.68	$2.95

Footnotes:

[1]Space under construction includes speculative and build-to-suit for lease projects.

[2]Asking rates are per square foot per month full service; rates for each building are weighted by the size of the building.

Office vacancy rate figures for the entire marketplaceighlighted below.

Area	1995	1996	1997	1998	1999	2000
Entire Competitive Market	15.2%	14.2%	12.6%	11.8%	7.2%	8.0%

The overall vacancy rate in the broader west Los Angeles market area was 6.4% a year ago, with the subject West Los Angeles submarket consistent at 6.9%. As of the Third Quarter 2001, the West Los Angeles market area and Santa Monica submarket vacancy rates increased sharply to 14.0% and 16.3%, respectively. The heavy inventory of new space in 2000 increased the areawide vacancy to 8.0% as of year end.

Demand and Absorption

Shown in the table on the following page is net rentable footage absorbed within the entire competitive marketplace between year-end 1988 and 2000, plus year-to-date September 30, 2001.

Year	Square Feet Absorbed
1988	1,524,000
1989	1,728,000
1990	750,000
1991	181,000
1992	1,152,000
1993	165,000
1994	735,000
1995	404,616
1996	726,945
1997	942,181
1998	1,327,165
1999	2,173,785
2000	946,326
YTD 9/30/01	<1,318,565>

Excluding 1992, annual absorption ranged from 181,000 to 726,945 square feet between 1990 and 1996, or an average of 442,512 square feet. Annual absorption for the entire West Los Angeles market in 1992 reportedly totaled 1,152,000 square feet, an inordinately high figure contrasted with other figures posted during the early to mid 1990s. Annual absorption in 1997 and 1998 increased to 942,181 and 1,327,165 square feet respectively, as the positive effects of a significantly improving economy began to emerge. Space absorption during 1999 for the total market area was reported at a record high level of 2,173,785 square feet. The first six months of 2000 had shown continued strong growth in net absorption with 979,943 square feet in the aggregate, however this declined to 946,326 square feet by year end. The negative absorption of about 1.3 million square feet for the first nine months of this year is reflective of the near term contraction that has occurred.

Entertainment Related Industries

Over the past few years numerous entertainment related firms (media, entertainment and technology operations) have relocated to West Los Angeles. The explosive growth of the entertainment industry, access to a highly-skilled labor force and proximity to high-end residential neighborhoods make West Los Angeles attractive to these firms. Due to the limited amount of

vacant traditional Class A and B office space, entertainment related firms have begun to lease space in older industrial facilities which have been converted to "creative" space. DreamWorks' 1999 decision not to proceed with its planned studio in Playa Vista was a setback to immediate growth prospects, but demand from other segments of the entertainment industry and other employment sectors remains quite strong until the fourth quarter of 2000 at which time the many dot.com related firms withdrew from the market.

New Construction and Future Development

New speculative office construction commenced in early 1998 within the Arboretum project located in Santa Monica. Called Arboretum Courtyard, the two-building, four-story development totals 133,000 square feet. The Arboretum Gateway, a 192,000-square foot office building has been leased by Universal Music Group. Both Arboretum projects have been completed and are nearly 100% leased. Phase II of the Water Garden (615,286 square feet) was completed in September 2000. Additional office development scheduled for completion this year include: the previously mentioned Kilroy Realty's Westside Media Center (384,700 sq.ft.); La Cienega Center in Beverly Hills along La Cienega Boulevard (84,000 sq. ft.); Lantana West in Santa Monica along Olympic Boulevard (61,000 sq. ft.); Santa Monica Gateway at Santa Monica Boulevard in West Los Angeles (78,000 sq. ft.); and the Howard Hughes Center, a 250,000-sq.ft. office building by Arden Realty plus EOP/Macguire's Water's Edge project (426,000 square feet) in Playa Vista. Nearly 5.5 million square feet of office space is approved for development in the Marina/Culver City submarket; most of this additional new space is planned for the Playa Vista project in Playa Del Rey. JMB Realty Corporation has announced plans to construct a 38-story, 791,000-square foot office tower in Century City.

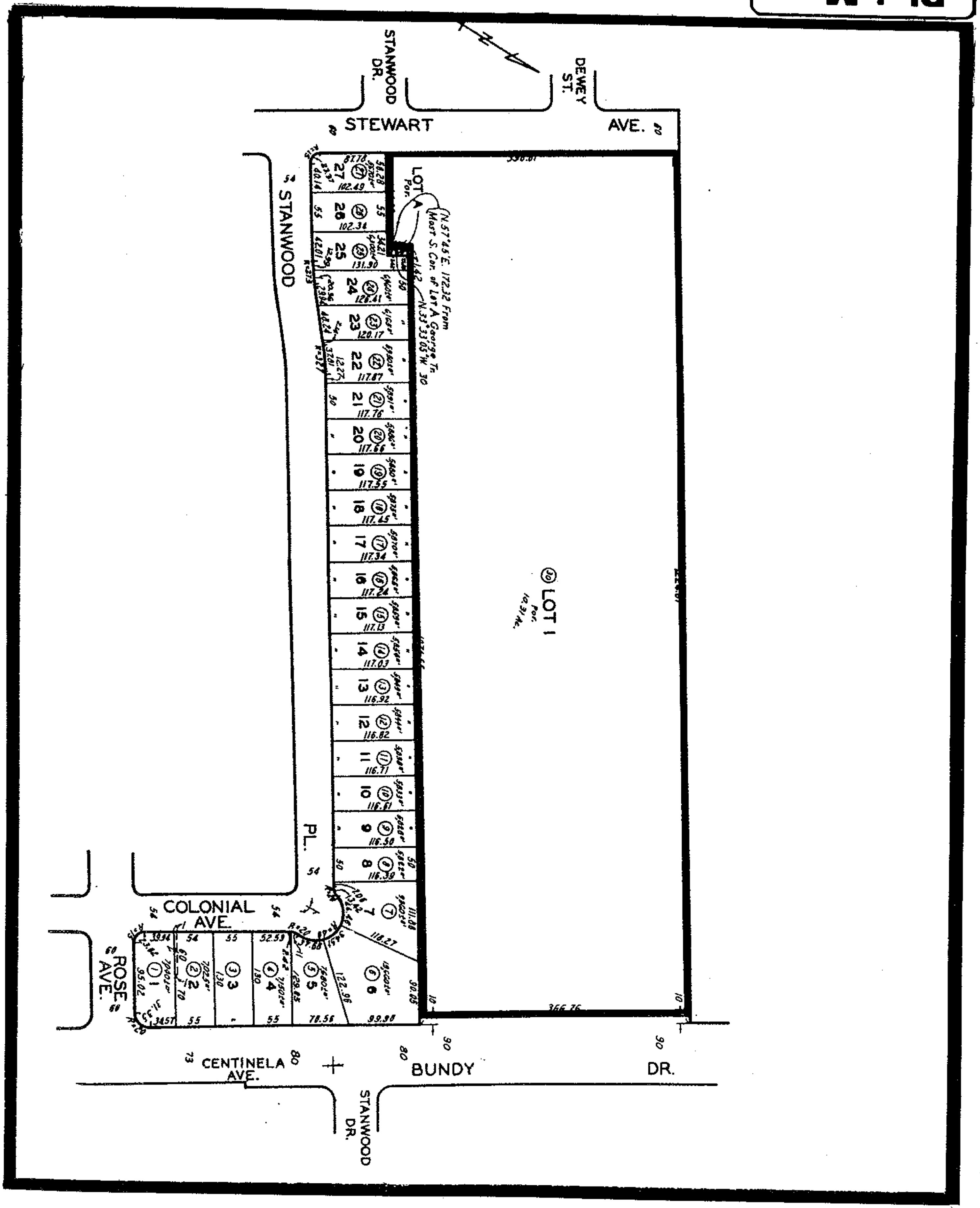
Conclusion

At the present time market conditions are still favorable for property owners with vacancy now slightly over 11% and rents near the $3.00 per square foot market. Following a period of depressed rents and high vacancies, the office market did recover as evidenced by a recent strong occupancy level and escalating rents, although in a current downturn.

Despite recent construction activity, some of the area's major developers remain cautious as large increments of new product are coming on the market and as planned. Of particular concern is the marketplace's perceived instability of the dot.com companies and the effect on the long term office market as a result of the shakeout in the industry. Moreover, lenders are growing increasingly cautious with the downturn underway; as a conservative posture they typically no longer consider vacancy rates alone when assessing development plans. Experience has shown that in every past cycle, when vacancies got below a certain level, that was the stimulus to do more development, leading to highly competitive conditions and frequently to a retreat in the market. Particularly where large speculative developments are concerned, it takes several years before an office building hits the market, and conditions may be quite different by that time.

Nevertheless, a major factor bears on the long term outlook. There is a definite shortage of sites available for new construction, particularly larger parcels that will accommodate a masterplaned project. Howard Hughes Center has one smaller site left, Playa Vista has the only large reservoir, but in an unproven market. Clearly West Los Angeles is lacking future sites excluding the Rand Corporation holding.

Plat Map



STEWART AVE.
STANWOOD DR.
DEWEY ST.
STANWOOD PL.
LOT A
LOT 1
COLONIAL AVE.
ROSE AVE.
CENTINELA AVE.
BUNDY DR.
STANWOOD DR.

SUBJECT PROPERTY DESCRIPTION

THE LAND

Location

Parcel in question is situated on the west side of Bundy Drive (Centinela Avenue), extending further west to Stewart Avenue, approximately 200 feet south of Airport Drive. While identified with the Santa Monica Airport, the property is technically within the city of Los Angeles.

Shape

Subject is rectangular-shaped being roughly 370 feet by 1,225 feet, plus a 30 foot by 144 foot extension at the southwesterly corner. Dimensions of the site are shown below.

Bundy Drive Frontage	366.76 Feet
Stewart Avenue Frontage	396.81 Feet
Northerly Property Line	1,224.87 Feet
Southerly Property Line	1,220.06 Feet

Area

Per the architect's findings, the land contains 452,925 square feet or 10.398 acres.

Topography

Site slopes downward from Bundy Drive to Stewart Street with adequate slope that provides positive drainage away from the buildings. Drainage is primarily accomplished by sheet flow across the asphalt surfaces to swales and into the storm drain system located along Stewart Street.

Utilities

All the usual and customary utilities and services are connected to the property.

Zoning

The subject holding features three zoning designations with the following criteria applicable to each.

Designation	Location	Criteria
P-1 / P-1VL	East, South & West perimeter area	Parking limitation
(Q) CR-1	Land beneath Building 5	Office & retail usage Height – 75' or 6 stories Setbacks – 10' front – 15' rear FAR – 1.5:1 (max)

Designation	Location	Criteria
M1-1	Land beneath center portion of holding	Industrial & office usage Height – 61' within 200' of rear Setbacks – None FAR – 1.5:1 (max)

Soils

A soils report has not been provided. This analysis assumes that the subject property is free from soil contamination and that load bearing characteristics are sufficient to support any existing or proposed improvements. The existence of toxic waste hazards resulting from prior uses may or may not be present. While every effort has been made to observe any potential toxic waste hazards, we are not qualified to make a determination as to their existence. If any such toxic material is believed to impact the subject property in any way, the user of this appraisal is urged to contact a qualified professional trained to identify such hazards.

Flood Zone

The subject is located on Panel No. 060137-0077C. Flood designation is Zone C which is identified in the community flood insurance study as an area of moderate or minimal hazard from the principal source of flood in the area. Flood insurance is available in participating communities but is not required by regulation in this zone.

Earthquake Zone

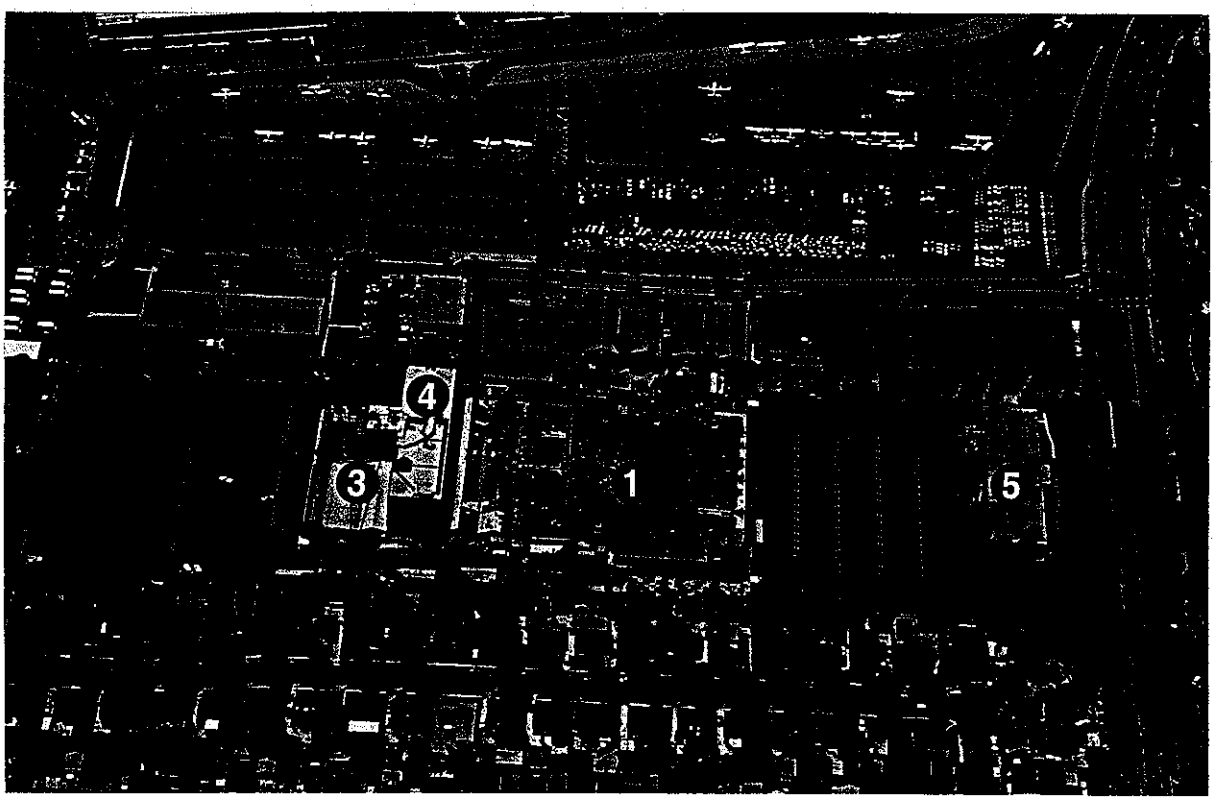
In 1972, the state of California enacted the Alquist-Priolo Special Studies Act. The purpose of this act is to delineate all active faults (faults with movement in the last 10,000 years) in California and to prohibit development of structures for human occupancy across the trace of an active fault. The project area is not included in an identified Special Studies Zone.

Access

The subject fronts on Bundy Drive shich is a major north-south traffic corridor with freeway off and on ramps available one mile north at the Santa Monica (I-10) Freeway. Terminating immediately north of the subject property at Bundy Drive, is National Boulevard which connects with the San Diego (I-405) Freeway roughly 1½ miles to the east. Internal access off Airport Avenue connects to both interior parking areas, the most westerly corridor is proposed to be moved further west to become a southerly extension of the Donald Douglas Loop South. Stewart Street also provides ingress and egress to the westerly parking area through the adjacent residential area on the south.

Streets

BUNDY DRIVE (Centinela Avenue) is dedicated to a width of 90 feet and improved for two lanes of traffic in each direction plus a center median. There is no left turn lane into the street for northbound traffic, right turn only for southbound vehicles.


4
3
1
5

STEWART AVENUE is a cul-de-sac street along the subject frontage terminating at the airport boundary. It is dedicated and improved to 60 feet, it services the nearby residential tracts exclusively.

Surroundings

The property under appraisement identifies with and is linked by several access points to the Santa Monica Airport as shown in the aerials provided. Nearby improvements consist primarily of former aircraft hangars, office space of varying quality, plus specialty shops and restaurants. To the south are older residential tracts in the city of Los Angeles.

THE IMPROVEMENTS

Background

The campus of BAE SYSTEMS consists of four buildings with a gross area of 199,507 square feet. The structures were built in phases starting in 1954 with an upgrading of tenant improvements continuing to the present. The grounds are improved with paving, plus landscaping at the entrance to Building Nos. 4 and 5. Site condition varies from good at the Bundy Drive entrance, to poor at Stewart Street due to surface drainage erosion. The location of each facility as well as BAE's numbering system is shown on the facing aerial.

Building No. 1

Year Built:	Three phases – 1954 through early 1960s	
Building Area:	First Floor	- 88,454 sq.ft.
	Mezzanines	- 1,694 sq.ft.
	Penthouse	- 818 sq.ft.
	Total	- 90,966 sq.ft.
Construction Features:	Single-level office and manufacturing building constructed of a combination double wythe masonry wall with steel and wood roof frame; roofing is combination build-up and elastomeric systems. Manufacturing areas have exposed concrete and vinyl tile flooring.	

Building No. 3

Year Built:	Early 1960s	
Building Area:	First Floor	- 8,775 sq.ft.
	Penthouse	- 1,451 sq.ft.
	Total	- 10,226 sq.ft.

Construction Features: One-story office and manufacturing structure with an equipment loft. Building is of manufactured metal construction with concrete slab floor; metal roof deck with elastomeric coating.

Building No. 4

Year Built: 1981

Building Area:

First Floor	-	16,315 sq.ft.
Second Floor	-	16,315 sq.ft.
Third Floor	-	16,315 sq.ft.
Fourth Floor	-	16,315 sq.ft.
Total	-	65,260 sq.ft.

Construction Features: Facility is a four-story office and research building of concrete masonry block construction with steel and concrete floor and roof framing. New composition roof covering in place. Office finish is typical commercial grade, carpeting and gypsum board interior walls with suspended acoustical ceiling.

Building No. 5

Year Built: 1961

Building Area:

Basement	-	1,500 sq.ft.
First Floor	-	14,892 sq.ft.
Main Lobby	-	929 sq.ft.
Second Floor	-	14,939 sq.ft.
Penthouse	-	795 sq.ft.
Total	-	33,055 sq.ft.

Construction Features: Primarily a two-story office building with mechanical equipment in basement. Facility is of concrete masonry construction with cast in-place floors and roof deck. Composition roofing with elastomeric coating, typical office finishes with upgraded lobby area. Exterior walls feature aluminum and glass curtain panel windows with brick accent panels.

ASSESSMENT INFORMATION

Background

Per Proposition 13, upon sale or transfer a property is reassessed based on the assessor's opinion of market value at that time. Parcelization and/or new construction is assessed upon completion. The maximum increase of assessed value without transfer or new construction is 2.0% annually; the current assessment is shown below.

Assessor's Identification

Book 4247, Page 001, Parcel 030

Assessed Valuation

Land	$ 9,000,000
Improvements	3,500,000
Total	$12,500,000

Property Taxes

$147,080

HIGHEST AND BEST USE

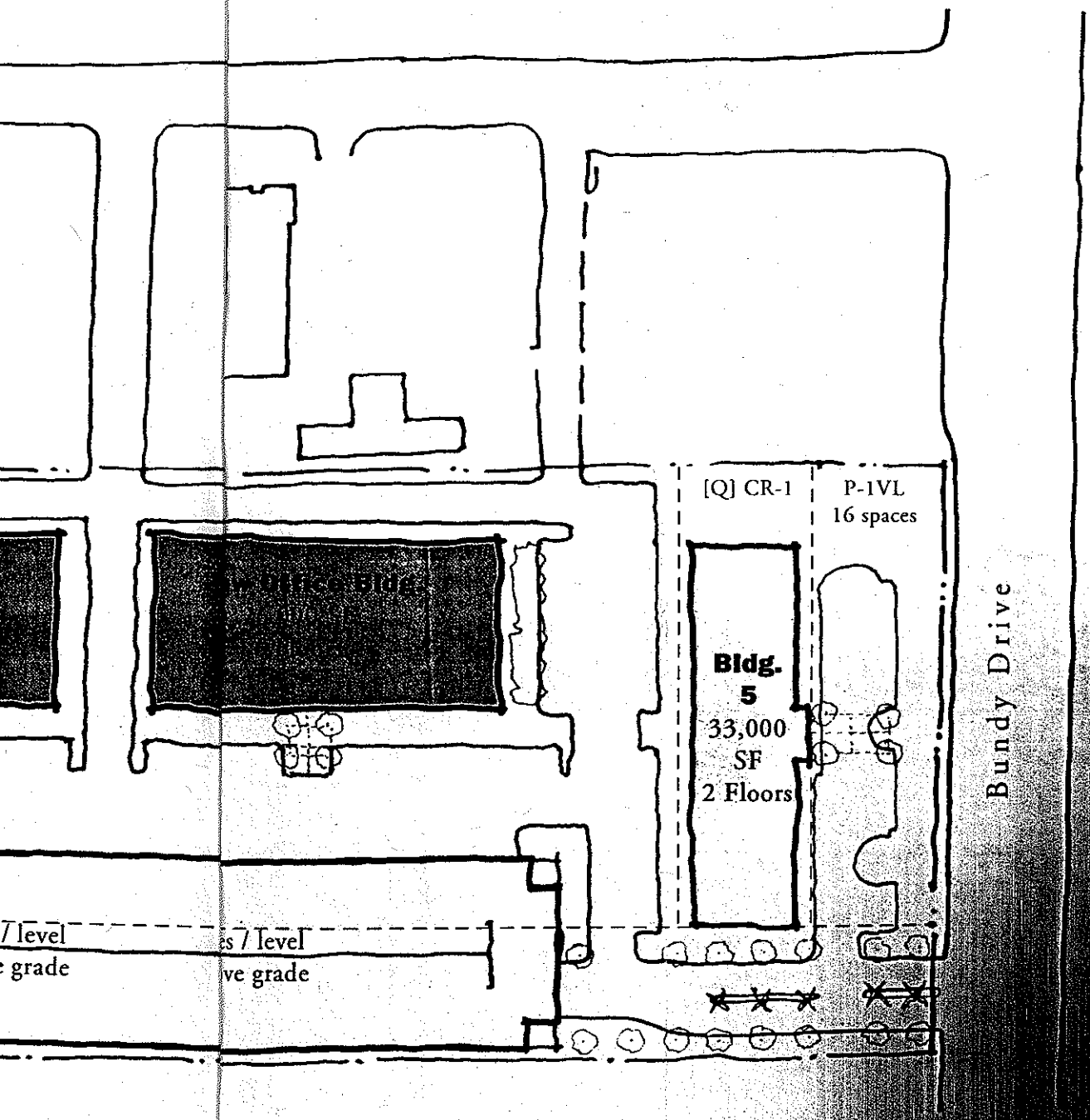
Background

Highest and best use as presented in *"The Appraisal of Real Estate,"* Tenth Edition, Appraisal Institute, page 274, is defined as:

> "The reasonably probable and legal use of land or sites as though vacant, found to be physically possible, appropriately supported, financially feasible, and results in the highest present land value."

A consideration of highest and best use includes those possible uses for the land which meet the following four criteria.

1) Physically Possible
2) Legally Permissible
3) Financially Feasible
4) Maximally Productive



Summary

Total Land Area:	452,92
Total Building Area:	500,000
Total Provided Parking:	2000

New Comm
with Bldg.

0 100

A highest and best use analysis involves determining both the highest and best use of land or a site as though vacant and property as improved. These two terms are defined below.

Highest and Best Use of Land or a Site as Though Vacant

> "The use of a property based on the assumption that a parcel of land is vacant or can be made vacant through demolishing of any improvements."

The physically possible uses of a parcel depend on its size, shape and terrain. The existing commercial zoning on the front parcel, as well as the industrial components to the rear with office and commercial uses to a density of 1.5 square feet of building area to every 1 square foot of land (FAR). The terrain will physically support a large masterplanned project, the market overview section clearly demonstrated the long term demand for office space recognizing there are cycles of growth and contraction. A study of the property has been prepared by Gensler Associates as to the optimum use of the property. Per their analysis, the following would be allowed under current code criteria, your attention is directed to the facing Development Scheme which closely depicts Building No. 5 as remaining.

Zoning	Square Feet		Bldg. to Land (FAR)
	Land	Building	
Commercial (Q) CR-1	17,400	26,100	1.5
Industrial M-1	290,000	468,000	1.6
Parking	145,525	-0-	-0-
Totals	452,925	494,100	1.1

Highest and Best Use as Improved

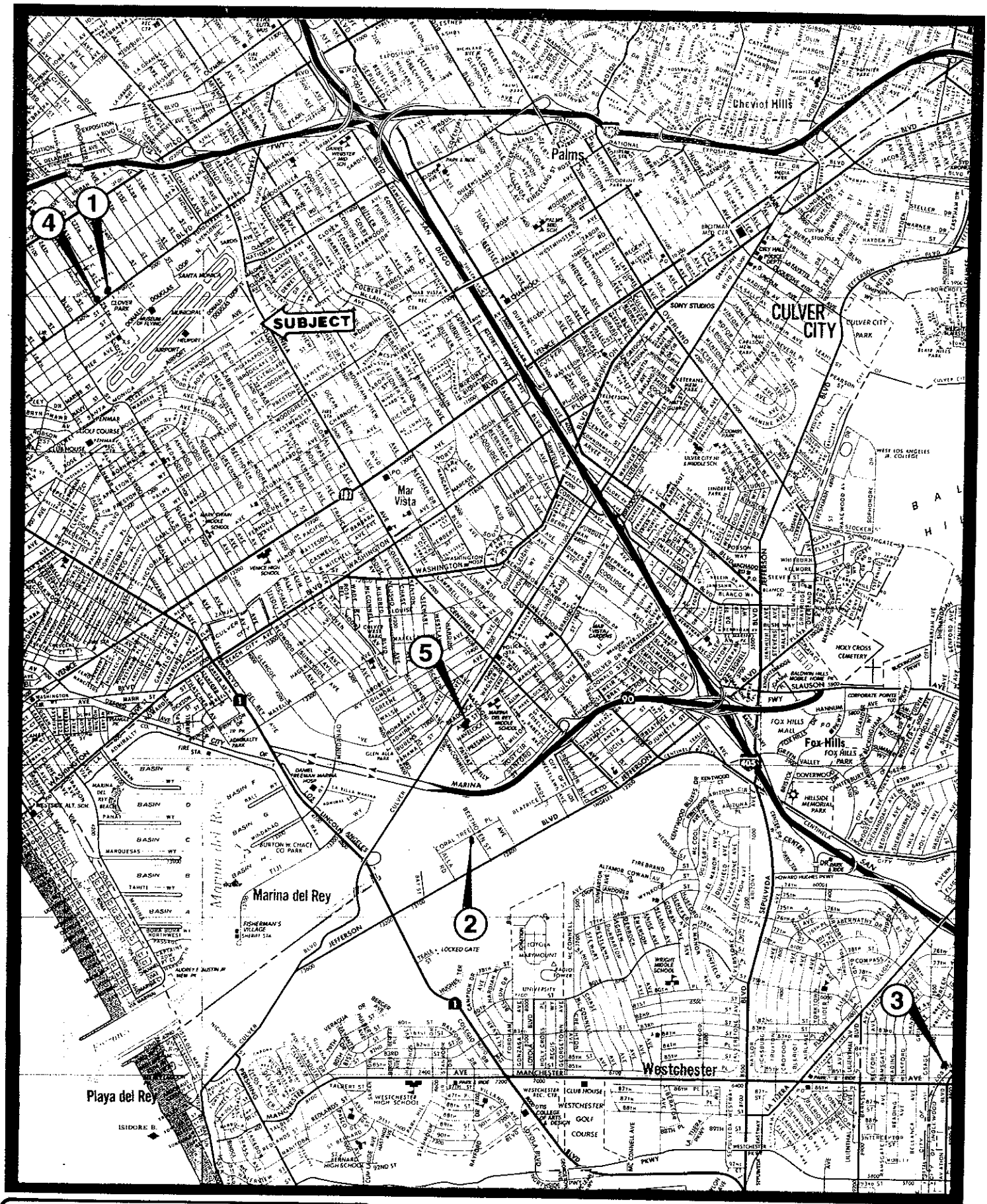
> "The use that should be made of the property as it exists."

The issue at hand is whether or not the existing structures have a value over and above that of the underlying land. The commercial site will only allow 26,100 square feet to be rebuilt, the existing corporate offices (Building No. 5) contains 33,055 square feet and is in good condition, it is logical to retain this facility, this is over a 25% gain in buildable footage occupying a 3.117-acre portion of the total site.

The remaining 7.281 acres are improved with an aggregate 166,452 square foot of space (Building Nos. 1, 3 and 4), far less that the permissible 468,000 square feet. As a practical matter, market transfers uncovered indicated that improved properties of similar age on the west side are commanding prices around the $80 per square foot level which translates to roughly $13,300,000 "as is" or about $28 per square fot of potential FAR. Both indexes are far below market levels as will be demonstrated in the ensuing land value analysis section.

Optimum Usage

Building No. 5 should remain as is, the density it is improved to exceeds that allowed if recycled. The balance of the land should be redeveloped with 468,000 square feet of new office space in an integrated masterplanned project.



Improved Sales Map

BUILDING NO. 5 ANALYSIS

OFFICE BUILDING SALES

Background

The subject office building is a low-rise structure that was constructed forty years ago, it has been maintained as a corporate facility as opposed to "back office" support or research space. The entry lobby is modern in every respect, the building has prominence on Bundy Drive. There are few structures on the Westside that have the subject features, nevertheless we have assembled office building acquisitions occurring within the past two years. The area searched ranged from Santa Monica south to Playa Vista. The sales are summarized chronologically below, they can visually found as shown on the facing map.

Data Summary

Sale No. / Date	Property Name / Address	Bldg. Sq.Ft. / Year Built	Number of Parking Spaces / Parking Ratio	Transfer Price Total	Transfer Price /Sq.Ft. Bldg.
Subj.	**BAE SYSTEMS**	**33,055**	**82**	---	---
Current	**3171 S. Bundy Drive, Los Angeles**	**1961**	**2.5:1**		
1	Ocean Park Plaza	93,991	280	$15,700,000	$167.04
3/00	2701 Ocean Park Blvd., Santa Monica	1987	3.0:1		
2	Novocom Building	51,431	115	$8,900,000	$173.05
12/00	5401 Beethoven, Playa Vista	1970	2.2:1		
3	Citizens Watch Bldg.	55,168	98	$5,750,000	$104.23
12/00	8506 Osage Avenue, Westchester	1981	1.8:1		
4	Girl Scout Building	14,100	29	$2,640,000	$187.23
5/01	2525 Ocean Park Blvd., Santa Monica	1963	2.1:1		

Sale No. / Date	Property Name / Address	Bldg. Sq.Ft. / Year Built	Number of Parking Spaces / Parking Ratio	Transfer Price Total	Transfer Price /Sq.Ft. Bldg.
5	UC Regents Building	58,350	84	$7,100,000	$121.68
Escrow	12700 Braddock Srive, Mar Vista	1968	1.4:1		

Comments

The table above reveals a wide variation in prices paid; accordingly, details on each purchase may be found on the following individual data sheets.

Data No. 1

Identification

Name:	Ocean Park Plaza
Address:	2701 Ocean Park Boulevard
Location:	North side of Ocean Park Boulevard, 120' west of 28th Street, Santa Monica
Assessor's Parcel No.:	4270-014-046

Property Description

Building Area:	93,991 square feet
Year Built:	1987
Construction:	Steel frame with stucco and glass veneer
Parking:	280 spaces or 3.0 spaces per 1,000 sq.ft.
Land Area:	1.49 acres
Bldg./Land Ratio:	1.4:1 FAR
Occupancy at Sale:	97%

Sale Information

Sale Date:	March 31, 2000
Document No.:	0481095
Sale Price:	$15,700,000 or $167.04 per sq.ft.
Buyer:	Build America, LLC
Seller:	2701 Ocean Park, LLC
Financing:	Down payment of $2,375,000 (15%); balance in conventional debt ($13,325,000) with GE Capital

Comments

Attractive two-story office building leased on a multi-tenant basis that was 97% committed at time of purchase; average rent around $30 per square foot annually.

Data No. 2

Identification

Name:	Novocom Building
Address:	5401 Beethoven Street
Location:	Southwest corner of Coral Tree Place and Beethoven Street, Playa Vista
Assessor's Parcel No.:	4211-009-007

Property Description

Building Area:	51,431 square feet
Year Built:	1970
Construction:	Concrete tilt-up with glass inserts
Parking:	115 stalls or 2.2 spaces per 1,000 sq.ft.
Land Area:	2.06 acres
Bldg./Land Ratio:	0.8:1 FAR
Occupancy at Sale:	100%

Sale Information

Sale Date:	December 28, 2000
Document No.:	2024283
Sale Price:	$8,900,000 or $173.05 per sq.ft.
Buyer:	Heidi Beethoven, LLC
Seller:	Symphony In M82, LLC
Financing:	Cash down payment of $2,900,000 (33%), balance funded by private lender.

Comments

Average quality concret tilt up office structure that was fully leased to three tenants at time of purchase. Good corner prominence.

Data No. 3

Identification

Name:	Citizens Watch Building
Address:	8506 Osage Avenue
Location:	Easterly side of Osage Avenue, one lot north of Manchester Avenue, Westchester
Assessor's Parcel No.:	4127-024-025

Property Description

Building Area:	55,168 square feet
Year Built:	1982
Construction:	Concrete tilt-up with glass inserts
Parking:	98 stalls or 1.8 spaces per 1,000 sq.ft.
Land Area:	2.14 acres
Bldg./Land Ratio:	0.6:1 FAR
Occupancy at Sale:	100%

Sale Information

Sale Date:	December 22, 2000
Document No.:	1996937
Sale Price:	$5,750,000 or $104.23 per sq.ft.
Buyer:	Harcor, Inc.
Seller:	Copley West Coast, LLC
Financing:	All cash purchase

Comments

One-story with partial mezzanine building that is located primarily in an industrial environment. A non-corner parcel with limited street exposure.

Data No. 4

Identification

Name:	Girl Scout Building
Address:	2525 Ocean Park Boulevard
Location:	North side of Ocean Park Boulevard, 108 feet east of 25th Street, Santa Monica
Assessor's Parcel No.:	4270-012-048

Property Description

Building Area:	14,100 square feet
Year Built:	1963
Construction:	Steel frame with glass veneer
Parking:	29 stalls or 2.1 spaces per 1,000 sq.ft.
Land Area:	0.413 acres
Bldg./Land Ratio:	0.8:1 FAR
Occupancy at Sale:	Vacant

Sale Information

Sale Date:	May 7, 2001
Document No.:	0774688
Sale Price:	$2,640,000 or $187.23 per sq.ft.
Buyer:	Angeles Girl Scout Council
Seller:	James B. Wark
Financing:	All cash purchase

Comments

Attractive, two-story glass skin office building that has curb appeal despite its interior situs. The high price paid for a vacant building is a combination of location, appeal and smaller size.

Data No. 5

Identification

Name:	UC Regent Building
Address:	12700 Braddock Drive
Location:	South side of Braddock Drive, 203 feet east of McConnell Avenue, Mar Vista
Assessor's Parcel No.:	4221-029-900

Property Description

Building Area:	58,350 square feet
Year Built:	1968
Construction:	Concrete tilt-up facility with glass inserts
Parking:	164 stalls or 2.8 spaces per 1,000 sq.ft.
Land Area:	3.51 acres
Bldg./Land Ratio:	0.4:1 FAR
Occupancy at Sale:	Vacant

Sale Information

Sale Date:	Curernt escrow
Document No.:	Not available
Sale Price:	$7,100,000 or $121.68 per sq.ft.
Buyer:	Confidential
Seller:	UC Regents
Financing:	All cash purchase

Comments

Property is being acquired vacant and in need of interior upgrading. Buyer is a user requiring all the space on one level and a higher parking ratio.

VALUE DETERMINATION

The data does not produce a definite price pattern based on age (Data No. 4 at $187 per square was highest), nor parking ratio (Data No. 3 at 1.5:1 was lowest at $104 per square foot. It is noted that the two office buildings on nearby Ocean Boulevard (Item Nos. 1 and 4) command two of the three highest prices ($167 and $187 per square foot).

More important to the price obtained was the quality and appeal of the facility purchased. Sale Nos. 3 and 5 are both one-story concrete tilt-up buildings which brought the lowest prices of $104 and $122 per square foot, respectively. The subject should be valued above these benchmarks. Conversely, Data Nos. 1 and 4 are superior buildings that commanded higher prices above $165 per square foot. While Data No. 2 ($173 per square foot) is not a superior property, it was nevertheless fully leased at high rents, the subject would be purchased without long term occupants in-place.

Recognizing the construction feature of the property in question as well as its modest curb appeal, a price above $125 per square foot is appropriate, but less than $140. We have adopted $130 per square foot, recognizing that Building No. 5 will be acquired for owner-occupancy.

33,055 square feet @ $130/sq.ft.	$4,297,150
Rounded To	$4,300,000

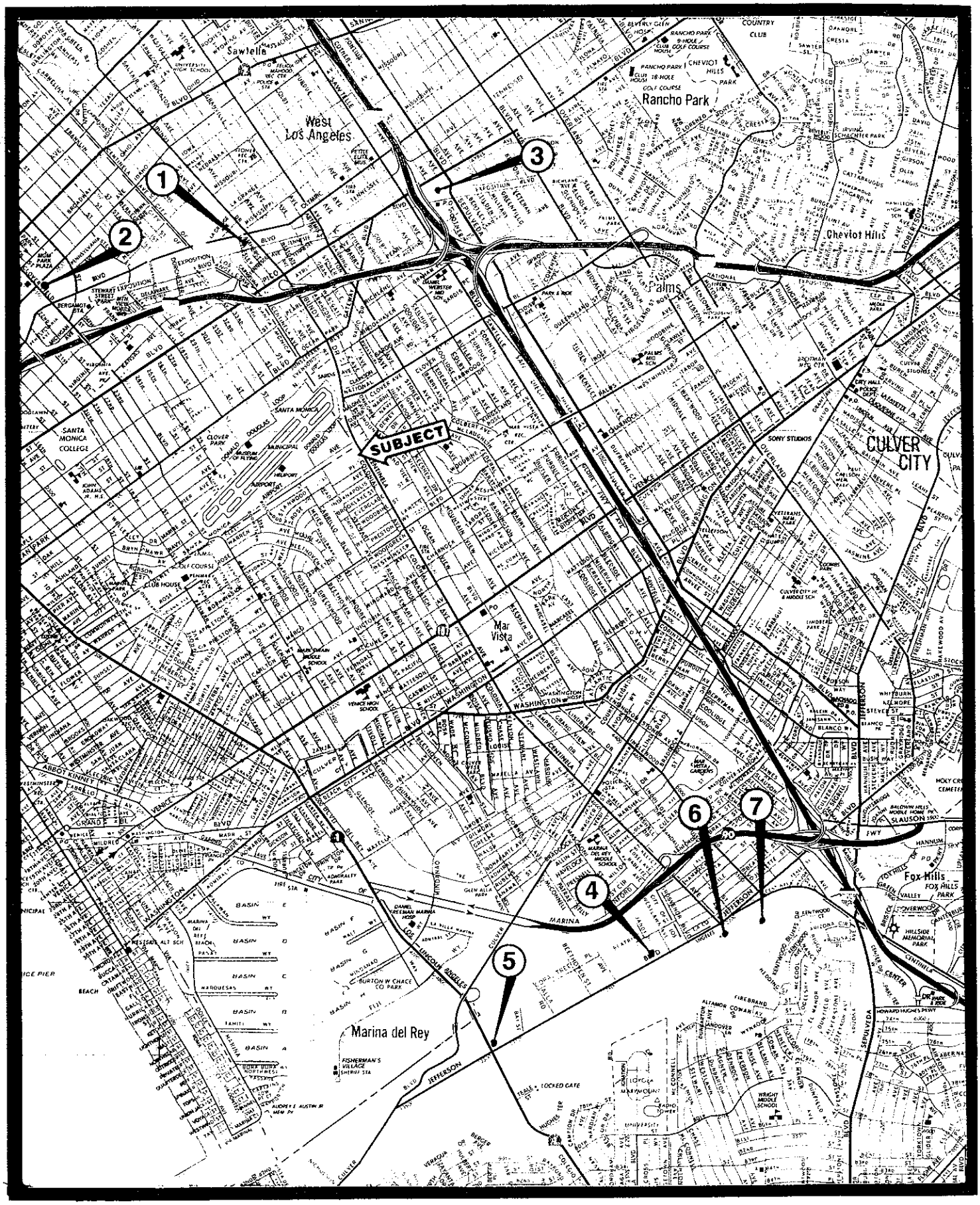
LAND COMPONENT ANALYSIS

OFFICE LAND PURCHASES

Background

The subject land available for redevelopment is positioned to the rear of Building No. 5 which would require mid-rise structures in order to gain visibility from Bundy Drive. Roughly 7.28 acres would be considered excess property after satisfying the retained Building No. 5's parking needs. The holding in question is projected by Gensler Associates to allow 468,000 square feet of new space; this translates to an overall density of 1.5:1 FAR, consistent with the existing zoning criteria. The favorable aspects of controlling a larger site is the ability to create an integrated complex of multiple office buildings with structured parking, accessed from four points of ingress and egress.

Similar to the office building data program, the area investigated ranged from Santa Monica south to Playa Vista. Recognizing that very few larger, underdeveloped parcels exist, it was necessary to cover a broader timeframe to generate sufficient market information, from 1998 todate. The sale benchmarks uncovered are listed chronologically on the ensuing page. The location of each data item is indicated on the facing Land Sales Map facing the summary on the next page. Since these parcels are purchased based on allowable density rather than price per square foot of land area, the table will indicate what the buyer paid per square foot of proposed building area (FAR). In several instances, assessment bonds are buyer assumed, they have been added to the acquisition price to ascertain the total land base the purchaser is acquiring. Detailed data sheets follow for specifics on each sale.



Land Sales Map

Data Summary

Sale No. / Date	Property Name / Address	Land Sq.Ft. / Acres	Proposed Bldg. Sq.Ft. / FAR	Transfer Price Total	Transfer Price /Sq.Ft. Bldg. FAR
Subj. Current	**W/O Bundy Drive, S/O Airport Drive Los Angeles**	**317,160 7.28**	**468,000 1.5:1**	---	---
1 1/98	SWC Olympic Blvd. and Bundy Drive, Los Angeles	281,218 6.46	384,700 1.4:1	$23,407,000	$60.85
2 6/98	NWC Cloverfield & Colorado blvds., Sta Monica	311,0018 7.14	600,000 1.9:1	$39,600,000	$66.00
3 3/99	S/S Pico Blvd., E/S I-405 Freeway, West Los Angeles	102,798 2.36	141,950 1.5:1	$8,347,000	$55.65
4 3/00	N/S Jefferson Blvd., 250' W/O Westlawn, Playa Vista	158,986 3.65	136,060 0.9:1	$8,000,000	$58.80
5 2/01	NEC Lincoln & Jefferson blvds., Playa Vista	284,447 6.53	426,000 1.5:1	$27,050,000	$78.52*
6 Escrow	NEC Bluff Creek & Campus Center Dr., Playa Vista	991,501 22.76	1,048,521 1.1:1	$60,735,435	$72.95*
7 Escrow	SEC Waterfront & Campus Center drives, Playa Vista	198,177 4.55	250,000 1.3:1	$13,750,000	$70.02*

*Includes buyer-assumed Mello Roos obligations

Data No. 1

Identification

Location:	Southwest corner of Olympic Boulevard and Bundy Drive, West Los Angeles
Assessor's Parcel No.:	4259-025-003, 006, 008-010

Property Description

Land Area:	281,218 square feet or 6.46 acres
Situs:	Corner property
Shape	Rectangular
Topography:	Level
Zoning:	M2
Proposed Project:	Improved with an existing 72,700 square foot two-story industrial building which has been stripped to the shell and rebuilt into creative offices. Purchaser gained approval for twin 156,000-sq.ft. office buildings on bulk of site.
Density:	1.4:1 FAR

Sale Information

Sale Date:	December 17, 1997 / January 9, 1998
Document No.:	1977001 / 0054213
Sale Price:	$16,000,000 + $7,407,000 = $23,407,000
Price/FAR Sq.Ft.:	$60.85
Buyer:	Kilroy Realty
Seller:	Southwest Leasing & Rental / Olybund, LLC
Financing:	All cash acquisitions

Comments

Buyer has reconstructed the older building, completed the first of the twin office structures with the second under construction. The single tenant (eToys Inc.) went bankrupt and did not occupy the first of the twin structures, it is currently being marketed. AT&T National Digital Television leased the rehabilitated facility.

Data No. 2

Identification

Location:	Southeast corner of Colorado Avenue and Cloverdale Boulevard, Santa Monica
Assessor's Parcel No.:	4268-18-048 & 049

Property Description

Land Area:	311,018 square feet or 7.14 acres
Situs:	Corner parcel
Shape	Irregular, wrapping around water theme
Topography:	Level
Zoning:	Commercial
Proposed Project:	Level site that was fully entitled for 600,000 square feet of office space as Phase II of Water Garden project.
Density:	1.9:1 FAR

Sale Information

Sale Date:	June 1, 1998
Document No.:	0922230
Sale Price:	$39,600,000
Price/FAR Sq.Ft.:	$66.00
Buyer:	Synder TAFC Investment, LLC
Seller:	Snyder Properties Venture, LP
Financing:	Cash transaction

Comments

Commonly identified as Water Gardens II, the second phase involved a transfer from one development entity to another with Jerry Snyder remaining in both. Purchase negotiated between parties with cash acquisition ensuing. A 325,000 and 275,000-square foot office building were subsequently built around existing lagoon creating an excellent office environment.

Data No. 3

Identification

Location:	South side of Pico Boulevard, abutting east side of San Diego (I-405) Freeway, West Los Angeles
Assessor's Parcel No.:	4256-010-008-009 & 010

Property Description

Land Area:	102,798 square feet or 2.36 acres
Situs:	Non-corner location
Shape	Irregular, roughly triangular
Topography:	Level
Zoning:	M2-1
Proposed Project:	Land approved for up to 150,000 square feet of office space, buyer elected to create a four-story self storage facility with 141,950 square feet of space.
Density:	1.5:1 FAR

Sale Information

Sale Date:	March 31, 1999
Document No.:	0553270
Sale Price:	$8,347,000
Price/FAR Sq.Ft.:	$55.65
Buyer:	Public Storage Pickup & Delivery
Seller:	Southern Pacific Rail Corporation
Financing:	All cash transaction

Comments

Although marketed as an office site approved for up to 150,000 square feet of space, buyer elected to construct a pick-up and delivery facility designed to store containers in the four-story building on a long term basis.

Data No. 4

Identification

Location:	North side of Jefferson Boulevard, 253 feet west of Westlawn Avenue, Playa Vista
Assessor's Parcel No.:	4211-005-017 and 4211-009-025

Property Description

Land Area:	158,984 square feet or 3.65 acres
Situs:	Non-corner location
Shape	Rectangular
Topography:	Level
Zoning:	M2-1
Proposed Project:	Approved for industrial, office and commercial usage, buyer constructed a four-story self-storage building that resembles an office structure; contain a gross area of 136,060 square feet.
Density:	0.9:1 FAR

Sale Information

Sale Date:	March 2, 2000
Document No.:	Not available
Sale Price:	$8,000,000
Price/FAR Sq.Ft.:	$58.80
Buyer:	Public Storage Inc.
Seller:	Cressy Lopez
Financing:	All cash transaction

Comments

Buyer elected to construct a facility that resembles a four-story office building, but is a self-storage operation.

Data No. 5

Identification

Location:	Northeast corner of Lincoln and Jefferson boulevards, Playa Vista
Assessor's Parcel No.:	4211-007-011 (portion)

Property Description

Land Area:	284,447 square feet or 6.53 acres
Situs:	Corner parcel
Shape	Irregular, integrated with other uses
Topography:	Level
Zoning:	SP-Office
Proposed Project:	Land is entitled for 426,000 square feet of office space as part of the Playa Vista Master Plan.
Density:	1.5:1 FAR

Sale Information

Sale Date:	February 11, 2001
Document No.:	Not available
Sale Price:	$27,050,000
Price/FAR Sq.Ft.:	$78.52 (including bonds assumed)
Buyer:	MacGuire/Equity Office Properties
Seller:	Playa Vista Capital
Financing:	All cash purchase

Comments

Currently under development at the full density is an office project identified as Waters Edge; no preleasing todate. Purchase price equates to $63.50 per square foot of FAR, the Mello-Roos bonds assumed increased the land base to $78.52.

Data No. 6

Identification

Location:	Northeast corner of Bluff Creek Drive and Campus Center, Playa Vista
Assessor's Parcel No.:	Not available

Property Description

Land Area:	991,501 square feet or 22.76 acres
Situs:	Corner location
Shape	Irregular
Topography:	Level
Zoning:	SP-Office
Proposed Project:	Property has full entitlement for 991,501 square feet of office space, divided among three parcels.
Density:	1.1:1 FAR

Sale Information

Sale Date:	Current escrow (to close by May 31, 2002)
Document No.:	Not available
Sale Price:	$60,735,435
Price/FAR Sq.Ft.:	$72.95
Buyer:	MacGuire Partners
Seller:	Playa Vista Capital
Financing:	All cash transaction

Comments

Property is in escrow to buyer with a non-refundable deposit of $5,100,000. Property proposed for office usage, price without bonds is $57.93 per square foot of building area, $72.95 with bonds.

Data No. 7

Identification

Location:	Southwest corner of Waterfront and Campus Center Drive, Playa Vista
Assessor's Parcel No.:	Not available

Property Description

Land Area:	198,177 square feet or 4.55 acres
Situs:	Corner property
Shape	L-shaped
Topography:	Level at street grade
Zoning:	SP-Office
Proposed Project:	Designated as Parcel G in the Specific Plan, the four lots are approved for 250,000 square feet of office space.
Density:	1.3:1 FAR

Sale Information

Sale Date:	Current escrow (to close before May 31, 2002)
Document No.:	Not available
Sale Price:	$13,750,000
Price/FAR Sq.Ft.:	$70.02 (including assessment bonds)
Buyer:	MacGuire Partners
Seller:	Playa Vista Capital
Financing:	All cash acquisition

Comments

Initially an option parcel, this site has been included in the current escrow by MacGuire Partners encompassing about 54 acres. The acquisition price equates to $55.00 per square foot, however the buyer assumed bonds which increase the land base to $70.02 per square foot.

VALUE DETERMINATION

The sales data reveals an uptrend in land acquisition prices per square foot over the four-year period covered from roughly the $60 per square foot mark during the 1998/99 period, to over $70 per square foot in 2001. It is recognized that the three most recent data items related to Playa Vista, an unproven but potentially viable market; all three transactions are above the $70.60 per square foot level.

The subject is not in Playa Vista nor does it "feed off the energy" of a highly visible, well promoted project. Conversely, the subject seven-plus acres is situated is a more conservative environment adjacent to the airport, although constrained by height limits at six stories, plus well controlled access points. Simply stated, the subject site, considered at its full density potential, should be at the more conservative end of the price range. The total square footage proposed at 468,000 square feet is not an extraordinarily high figure in light of the various properties purchased which average a similar 425,000± square feet each.

The most recent sale benchmark show an increase in FAR prices to a current $70 to $78 per square foot bracket. It is recognized however that all of the 2001 benchmarks are in the highly publicized Playa Vista project, a situation the subject does not benefit from. It is also acknowledged that the Westside office market has softened overall despite these high price land indexes. We have adopted a more conservative $60 per FAR square foot for the subject for these reasons.

468,000 square feet @ $60/sq.ft. $28,080,000

Rounded To $28,100,000

RECAPITULATION

The subject holding is essentially comprised of the corporate office building plus excess land suitable for redevelopment with office space. Effectively the two are integrated in terms of access, traffic flow and potential land usage, consequently the value is the sum of the two components.

Corporate Office Building	$ 4,300,000
Land Available for Redevelopment	28,100,000
TOTAL PROPERTY VALUE	$32,400,000

VALUATION

As the result of our investigation and analysis, we have formed the opinion that as of November 15, 2001, the market value of the fee simple property is the sum of:

THIRTY TWO MILLION FOUR HUNDRED THOUSAND DOLLARS

($32,400,000)

LIMITING CONDITIONS

This report is made expressly subject to the following conditions and stipulations:

1) No responsibility is assumed by us for matters which are legal in nature.

2) No opinion of title is rendered and the property is appraised as though free of all encumbrances and the title marketable.

3) The appraisal covers the property described only.

4) No survey of the boundaries of the property has been made. All areas and dimensions furnished are assumed to be correct.

5) Sources of information are believed to be correct and, where feasible, have been verified.

6) By reason of this appraisal we are not required to give testimony or to be in attendance in court or at any governmental or other hearing with reference to the property without arrangements having been made relative to such addition employment.

7) Neither all nor any part of the contents of this report (especially any conclusions as to value, the identity of the appraisers or the firm with which they are connected, or any reference to the Appraisal Institute, or to the MAI or RM designation, shall be disseminated to the public through advertising media, public relations media, news media, sales media, or any other public means of communication without the prior written consent and approval of the author(s).

8) Unless otherwise stated in this report, the existence of hazardous substances, including without limitation asbestos, polychlorinated biphenyls, petroleum leakage, or agricultural chemicals, which may or may not be present on the property were not called to the attention of nor did the appraiser become aware of such during the appraiser's inspection. The appraiser has no knowledge of the existence of such materials on or in the property unless otherwise stated. The appraiser, however, is not qualified to test for such substances. The presence of such hazardous substances may affect the value of the property. The value estimated herein is predicated on the assumption that no such hazardous substances exist on or in the property or in such proximity thereto which would cause a loss in value.

CERTIFICATION

The following certification applies to the appraisal of the fee simple interest in BAE SYSTEMS' property located adjacent to the Santa Monica Airport in West Los Angeles, California.

- The undersigned appraiser certifies that he has personally inspected the property described herein; that he has no past, present or prospective, direct or indirect interest in or bias with respect to the subject property, nor personal interest or bias toward the parties involved.
- The reported analyses, opinions and conclusions are limited only by the reported assumptions and limiting conditions, and are the personal, unbiased professional analyses, opinions, and conclusions of the undersigned; employment in this appraisal report is not in any manner contingent upon returning appraisal findings in any specified or implied amount or otherwise contingent upon anything other than the delivery of this report.
- This appraisal assignment was not based upon a requested minimum valuation, a specific valuation, or the approval of a loan.
- To the best of the appraiser's knowledge and belief, all of the statements contained herein, upon which the analyses, opinions and conclusions expressed are based, are true and accurate; that no one other than the undersigned prepared the analyses, conclusions and opinions concerning real estate set forth in this report.
- The appraiser's analyses, opinions, and conclusions were developed and this report has been prepared in conformity with the Uniform Standards of Professional Appraisal Practice of the Appraisal Institute.

As of the date of this report, Ronald L. Buss, MAI has completed the requirements of the continuing education program of the Appraisal Institute.

Respectfully submitted,

BUSS-SHELGER ASSOCIATES

Ronald L. Buss, MAI, CRE

PROFESSIONAL QUALIFICATIONS OF
RONALD L. BUSS

EXPERIENCE:

Buss-Shelger Associates, Los Angeles, California (since 1984).
President. Provides consulting, investment, valuation, advisory, brokerage and leasing services on all types of vacant and improved properties.

Landauer Associates Inc., Los Angeles, California (1975-1984).
Senior Vice President. Real Estate consulting services.

Shattuck Company, Los Angeles, California (1971-1975).
Real Estate Counselor and Consulting Appraiser.

State Board of Equalization, State of California (1963-1970).

PROFESSIONAL ACTIVITIES:

Member:	Urban Land Institute, 1998
Member:	Lambda Alpha International Director, 1998
Member:	Appraisal Institute Southern California Chapter President, 1987
Member:	The Counselors of Real Estate Southern California Chapter President, 1988 National Vice President, 1996
Member:	Assessment Practices Advisory Council, Los Angeles County Assessor's Office, 1980-1986
Member:	Los Angeles Board of Realtors
Member:	California Real Estate Association
Member:	UCLA Center for Finance and Real Estate, 1993/94
Member:	National Association of Realtors
Member:	American Industrial Real Estate Association, 1999
Advisor:	Operating Engineers Pension Trust
Advisor:	Electrical Workers Pension Trust
Advisor:	Independent Directors, Irvine Apartment Communities
Investment Advisor:	United States Securities & Exchange Commission (Registered)

CERTIFICATION:

Currently certified under the Appraisal Institute voluntary program of continuing education for its designated members (MAIs and RMs who meet the standards of this program are awarded periodic certification).

Certified as General Real Estate Appraiser in the State of California. OREA Appraiser Certification No. AG009146

Licensed State of California Real Estate Broker

EDUCATION:

Bachelor of Science - California State Polytechnic College (1963)

Certificate in Real Estate, University of California, University Extension (1971)

WEST COAST
ENVIRONMENTAL
AND ENGINEERING

4253 Transport Street, Suite A
Ventura, CA 93003
Phone 805/644-7976 Fax 805/644-5929

444 South Flower Street, 31st Floor
Los Angeles, CA 90071
Phone 213/229-0075 Fax 213/229-0088

www.wcenviro.com

December 5, 2001

Santa Monica College
1900 Pico Boulevard
Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: **Limited Assessment of Soil and Groundwater Conditions** **SA210-002**
BAE Systems – 3171 South Bundy Drive
Los Angeles, California

Dear Dr. Donner:

As you requested, West Coast Environmental and Engineering (WCE) performed limited assessment sampling of soil and groundwater at the BAE Systems facility in Los Angeles, California (see Figure 1 for site location). WCE recommended additional evaluation of groundwater conditions underlying the facility based on our limited review of environmental documentation provided by BAE Systems. The findings of our review of the documents provided were presented in the November 27, 2001 letter report Review of Environmental Documentation, BAE Systems – 3171 South Bundy Drive, Los Angeles, California (WCE-November 2001). As indicated in WCE-November 2001, review of the documentation was performed on a rush basis in a room set aside for that purpose by BAE Systems on November 19, 2001. The scope of work performed for this assessment was also conducted on a rush basis, and in conjunction with a geotechnical investigation being performed at the facility by Geolabs-Westlake Village.

Purpose and Scope of Work: The purpose of the limited assessment reported herein was to evaluate the potential for significant impacts to groundwater from facility operations, particularly with regard to the historical discharge of acidic and solvent bearing wastewater through underground drain lines and clarifiers. Potential constituents of concern included industrial solvents and metals (primarily lead and hexavalent chromium) from onsite plating operations. The scope of work attempted was limited to groundwater sampling from three borings advanced by the geotechnical investigation and collection of soil samples from one of the three borings. A total of five borings were advanced for the combined environmental/geotechnical assessment.

Methodology: Field work was conducted over the days of November 26 and 27, 2001. All borings were advanced with truck-mounted hollow stem auger (Mobile B-61) provided by C&C Drilling Company under contract to Geolabs-Westlake Village. Eight-inch augers were utilized for all borings. Borings from which environmental data was desired were advanced at locations estimated to be upgradient and downgradient of the facility's main production area (Building I),

for volatile organic compounds in groundwater. Table 3 summarizes laboratory analysis for metals in both soil and groundwater and Table 4 summarizes the results of analyses for hydrocarbons and VOCs in soil.

Discussion and Recommendations: WCE has the following comments based on field observations of this assessment and the results of laboratory analyses of soil and groundwater samples:

1. The results of analysis for VOCs in the groundwater sample from boring B1 (GWV-1) indicate that perched groundwater beneath the facility has been impacted by industrial solvents. Boring B1 (GWV-1) was located in the immediate vicinity of a former hazardous materials storage area and a sewer lateral receiving effluent from the facility's active clarifier, either of which may be considered a potential source of the compounds detected.

2. Boring B2 (GWV-2) advanced in the vicinity of the facility's active wastewater treatment equipment/clarifier did not encounter the perched groundwater interval noted and sampled in boring B1 (GWV-1), indicating the perched interval may be discontinuous across the site. Boring B2 (GWV-2) did not encounter groundwater to the total depth explored of 114 feet bgs.

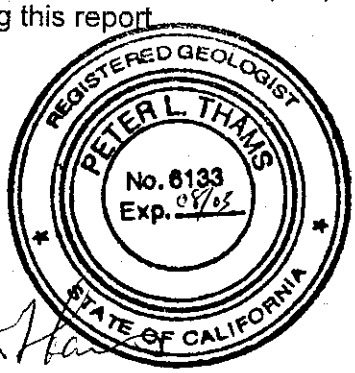
3. The results of analyses of soil samples from the vicinity of the wastewater treatment equipment/clarifier reported by AGM-June 2001 indicated a release has occurred in the area. The results of analyses of soil samples from the vicinity of the wastewater treatment equipment/clarifier from this assessment (boring B2) indicate the lateral extent of the release is localized to the area of the equipment/clarifier. The vertical extent of the suspected release is not considered to be fully defined. The suspected release at the clarifier is considered to be a potential threat to water quality in the underlying aquifer.

No evidence was encountered during this limited assessment to indicate environmental conditions exist that pose potential constraints to future use of the property, beyond those discussed in WCE-November 2001. However, the results of the limited assessment performed and the observations detailed above do indicate groundwater may have been impacted by facility operations. The VOCs discovered in perched groundwater at the facility (industrial solvents and their break down bi-products) are consistent with compounds known to have been used in facility processes. The extent of VOCs in perched groundwater beneath the facility is not known, but their presence does demonstrate a potential for impacts to the deeper aquifer that has not been addressed.

WCE recommends that the potential impacts to the underlying deep aquifer be addressed by sampling soils directly beneath the active wastewater treatment equipment/clarifier, at minimum. Sampling should be continued until the vertical extent of the release directly beneath the equipment is defined. If such sampling cannot be performed or the results of laboratory analyses indicate the release may be significant with respect to water quality in the deep aquifer, groundwater sampling in the deep aquifer is recommended.

Thank you for this opportunity to be of service. Please do not hesitate to contact me at (805) 644-7976 if you have any questions or need more information regarding this report.

Respectfully Submitted,
West Coast Environmental and Engineering



Lawrence Levee
Staff Geologist

Peter L. Thams, C.E.G., R.E.A,
Senior Geologist/Group Manager

Cc: Lee Paul, LPI
Dave Sarkisian, Geolabs-Westlake Village

TABLES

Table 1: Groundwater Laboratory Analysis for TPH

Sample ID	TPH As Gasoline	TPH as Diesel
B1	0.12	<0.5
All results listed in mg/Kg		

Table 2: Groundwater Sample Laboratory Analysis for VOCs

Sample ID	Chloroform	1,1 DCA	1,2 DCA	1,1 DCE	cis1,2 DCE	Trans-1,2 DCE	1,2 Dichloropropane	PCE	1,1,1 TCA	1,1,2 TCA	TCE
B1	4.0	8.0	6.2	260	0.69	0.59	24.0	2.8	1.5	13	160
CA MCLs	*	5	5	6	6	10	5	5	200	5	5
City of L.A. PHGs	*	*	*	*	*	*	*	0.056	*	*	0.8

All results listed in ug/Kg.
All other Volatile organic chemicals tested BQL (Below Practical Quantitation limit).
See laboratory reports presented in Appendix 2 for a list of all analytes.
*= No value avalable

Table 3: Laboratory Analysis for Metals

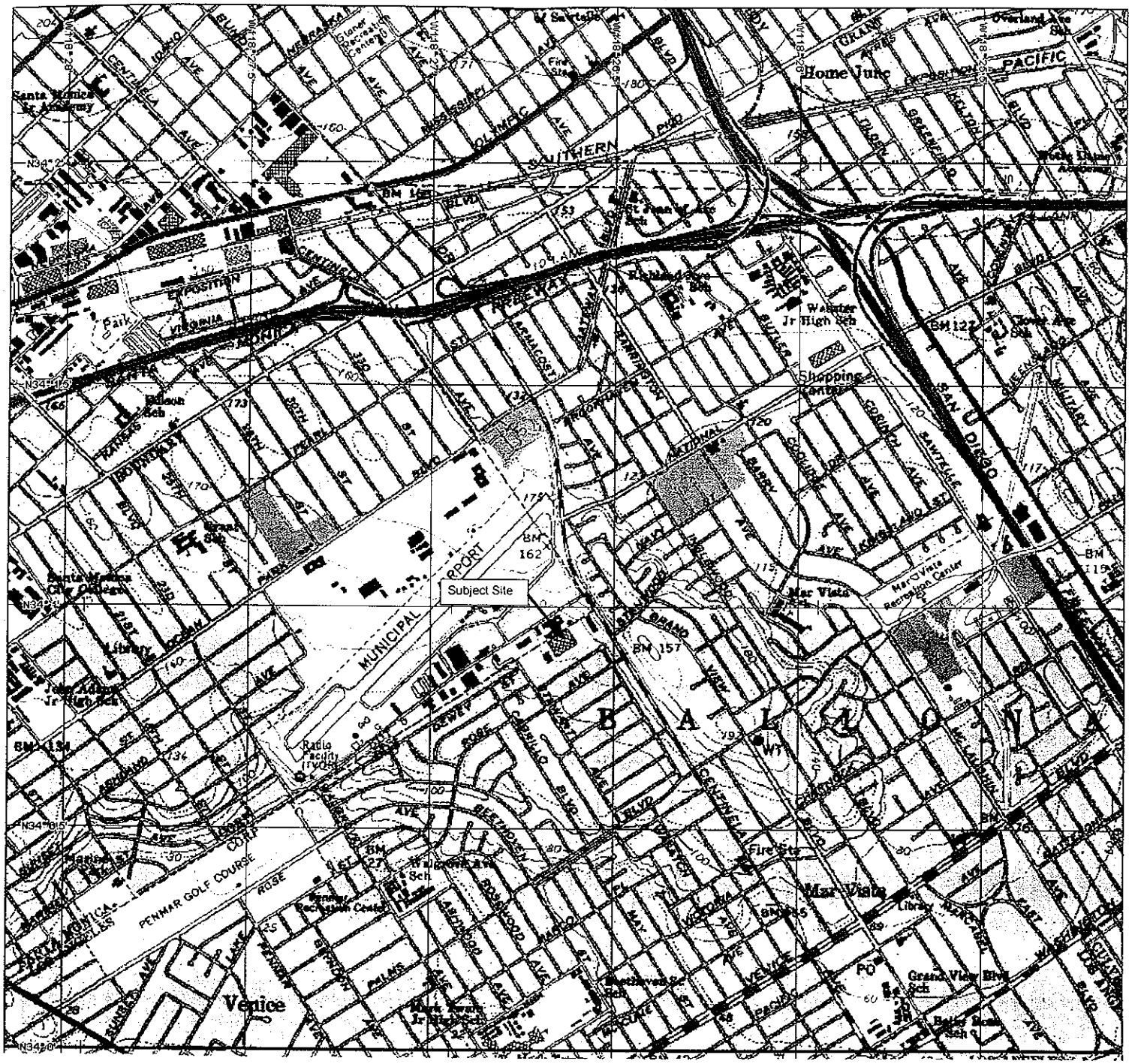
Sample ID	Sb	As	Ba	Be	Cd	Ch	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	Va	Zn
B1	<0.1	<0.03	<0.06	<0.1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	0.23	<0.06
B2-5	<8	1.8	67	<0.8	<1	12	<10	<10	3.6	<0.1	<20	<10	<0.5	<2	<0.2	23	22
B2-10	<8	2.2	42	<0.8	<1	13	<10	<10	2.8	<0.1	<20	<10	<0.5	<2	<0.2	20	21
B2-15	<8	3.8	34	<0.8	<1	16	<10	<10	2.8	<0.1	<20	<10	<0.5	<2	<0.2	31	19
B2-20	<8	1.0	15	<0.8	<1	13	<10	<10	2.1	<0.1	<20	<10	<0.5	<2	<0.2	7.0	12
B2-25	<8	1.6	27	<0.8	<1	1.2	<10	<10	1.3	<0.1	<20	<10	<0.5	<2	<0.2	8.0	15
B2-30	<8	3.2	230	<0.8	<1	20	<10	12	5.3	<0.1	<20	<10	<0.5	<2	<0.2	28	50
Method Blank	<8	<0.5	<10	<0.8	<1	<9	<10	<10	<0.6	<0.1	<20	<10	<0.5	<2	<0.2	<7	<10

All results listed in mg/Kg
The groundwater sample was filtered prior to preservation.

Table 4: Total Petroleum Hydrocarbons in Soil

Sample ID	B2-5	B2-10	B2-15	B2-20	B2-25	B2-30
TPH gas	<1	<1	<1	<1	<1	<1
TPH diesel	<10	<10	<10	<10	<10	<10
VOCs	BQL	BQL	BQL	BQL	BQL	BQL
Results in mg/Kg						

FIGURES



Source: Beverly Hills CA, Quadrangle
1966, Photorevised 1981
Minor Revision 1994
USGS Topographic

N

0 1000' 2000'

10' Contour Interval
North American Datum 1927

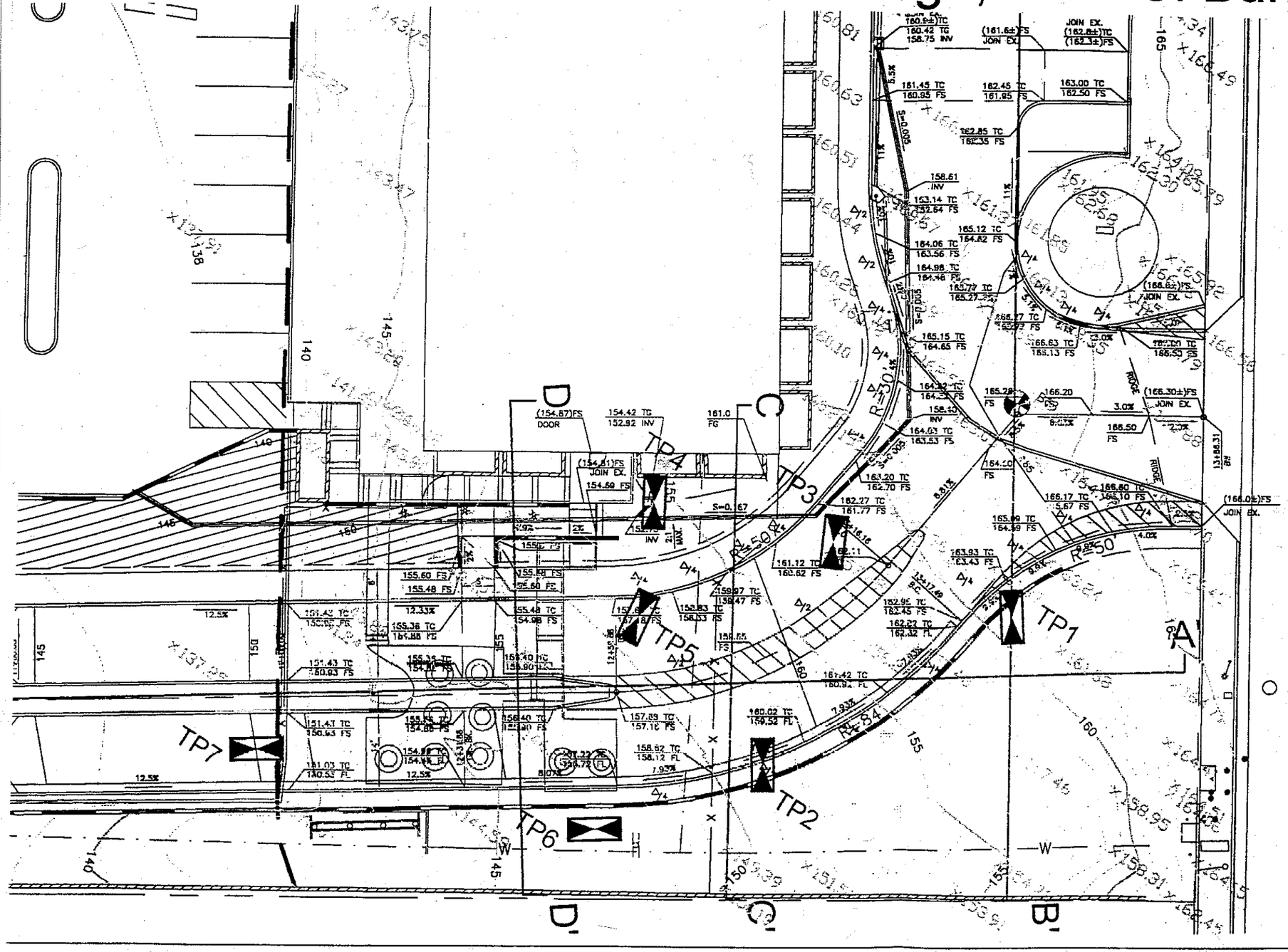
WEST COAST ENVIRONMENTAL AND ENGINEERING

SITE LOCATION MAP

BAE Systems
3171 S. Bundy Drive
Los Angeles, CA

PROJECT:	SA210-001			FIGURE 1
DRAWN BY:	LNL	DATE:	11-28-2001	REVISION:
APPROVED BY:	PLT	DATE:	11-28-2001	PRINTED: 11-28-2001
DRAWING:	SA210_fig1_lnl.fh10			SCALE: as shown

Santa Monica College, 3171 S. Bundy



GEOLOGIC MAP

EXPLANATION

- af — Artificial fill
- Qt — Terrace deposit
- Geologic contact
- Boring by:
  - B13 / GWV5 — Crandall & Associates
  - Geolabs-Westlake Village
- TP7 — Test pit
- D — D' Cross section

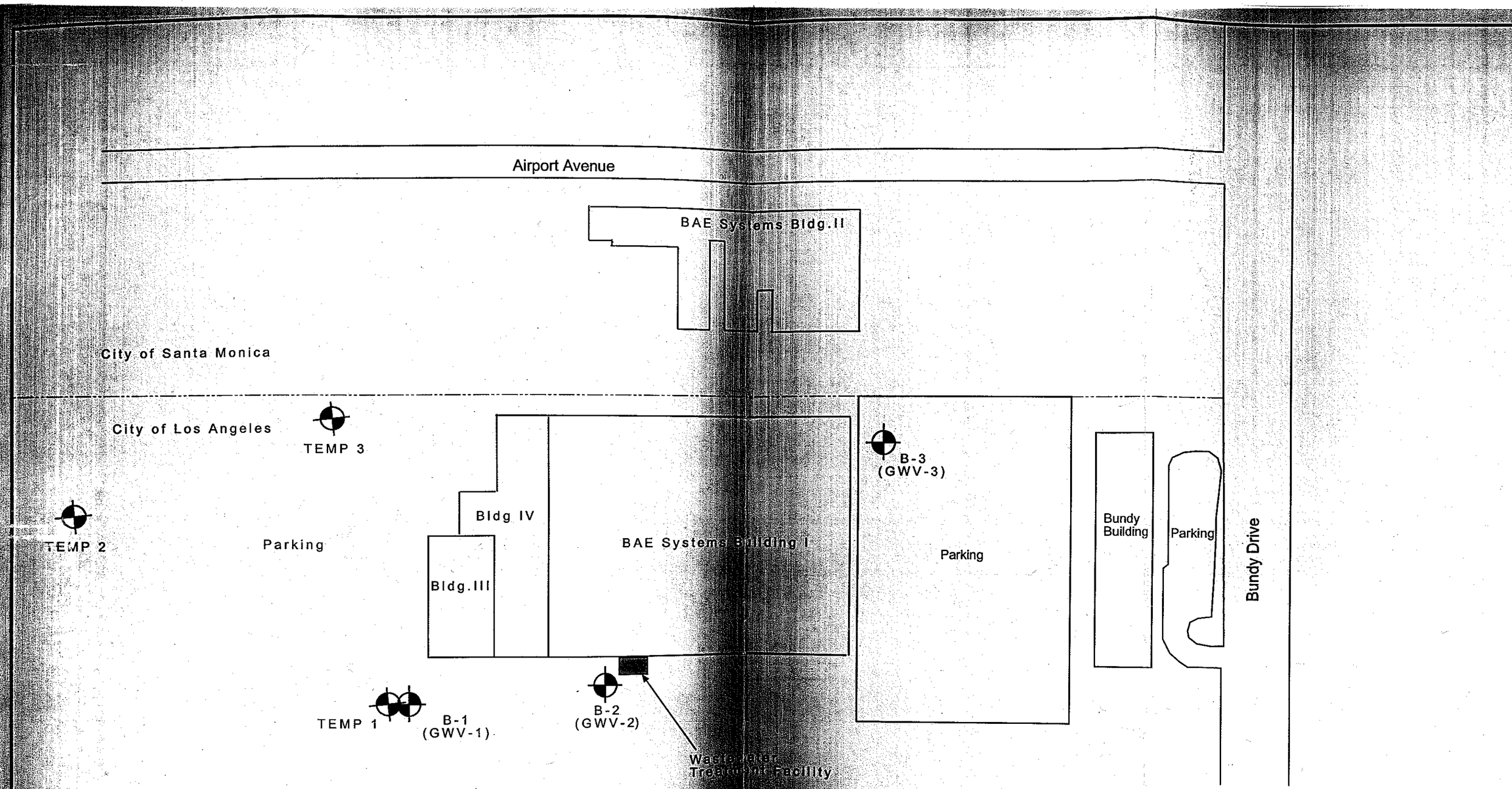
20 10 5 0 20 40 60

1"=20'

Geolabs – Westlake Village
GEOLOGY AND SOIL ENGINEERING

DATE 8/19/03 BY SD
SCALE 1"=20' W.O. 8266-Bundy

PLATE 1



West Coast Environmental and Engineering

Plot Plan
BAE Systems
Los Angeles / Santa Monica, CA

PROJECT:	SA210-001		**FIGURE 2**
DRAWN BY:	LNL	DATE: 11-29-2001	REVISION:
APPROVED BY:	PLT	DATE: 11-29-2001	PRINTED: 4-16-01
DRAWING:	SA210_SMCC_Fig2.fh10		SCALE: Not to Scale

LAB RESULTS

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St.,Suite A
Ventura, CA 93003

November , 2001

ATTENTION: Larry Levee

Laboratory No: 012404
Date Received: 26-NOV-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

On November 26, 2001 twenty-four (24) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of pages excluding the cover letter, and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
B1	01240401
B1, B2 COMP	01240402 & 3
B2-5	01240404
B2-10	01240405
B2-15	01240406
B2-20	01240407
B2-25	01240408
B2-30	01240409
B2-35	01240410*HOLD
B2-40	01240411*HOLD
B2-45	01240412*HOLD

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St.,Suite A
Ventura, CA 93003

November , 2001

ATTENTION: Larry Levee

Laboratory No: 012404
Date Received: 26-NOV-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

SAMPLE DESCRIPTION	CAS LAB NUMBER
B2-45	01240413*HOLD
B2-50	01240414*HOLD
B2-55	01240415*HOLD
B2-60	01240416*HOLD
B2-65	01240417*HOLD
B2-70	01240418*HOLD
B2-75	01240419*HOLD
B2-80	01240420*HOLD
B2-85	01240421*HOLD
B2-90	01240422*HOLD
B2-95	01240423*HOLD
B2-100	01240424*HOLD

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Water

Analyst: AN
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
CAS Lab #: 01240401		**Date Analyzed: 11/28/01**	
Sample ID: B1			
TPH as Gasoline	0.12	1.0	0.05
CAS Lab #: 012404-MB		**Date Analyzed: 11/28/01**	
Sample ID: Method Blank			
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: AN
Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240402 **Date Analyzed: 11/28/01**			
Client ID: B1, B2 Comp			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240404 **Date Analyzed: 11/28/01**			
Client ID: B2-5			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240405 **Date Analyzed: 11/28/01**			
Client ID: B2-10			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240406 **Date Analyzed: 11/28/01**			
Client ID: B2-15			
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: AN
Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240407 **Client ID: B2-20**		**Date Analyzed: 11/28/01**	
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240408 **Client ID: B2-25**		**Date Analyzed: 11/28/01**	
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240409 **Client ID: B2-30**		**Date Analyzed: 11/28/01**	
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 012404-MB **Client ID: Method Blank**		**Date Analyzed: 11/28/01**	
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Water

Analyst: JD
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L		Dilution Factor	PQL mg/L	Surrogate % Rec.
CAS Lab #: 01240401			**Date Extracted:**		**11/27/01**
Client ID: B1			**Date Analyzed:**		**11/27/01**
TPH - Diesel	BQL		1.0	0.5	69
CAS Lab #: 012404-MB			**Date Extracted:**		**11/27/01**
Client ID: Method Blank			**Date Analyzed:**		**11/27/01**
TPH - Diesel	BQL		1.0	0.5	67

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: JD
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg	Surrogate % Rec.
CAS Lab #: 01240402			**Date Extracted:**	**11/26/01**
Client ID: B1, B2 Comp			**Date Analyzed:**	**11/26/01**
TPH as Diesel	BQL	1.0	10	71
CAS Lab #: 01240404			**Date Extracted:**	**11/26/01**
Client ID: B2-5			**Date Analyzed:**	**11/26/01**
TPH as Diesel	BQL	1.0	10	74
CAS Lab #: 01240405			**Date Extracted:**	**11/26/01**
Client ID: B2-10			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	73
CAS Lab #: 01240406			**Date Extracted:**	**11/26/01**
Client ID: B2-15			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	67
CAS Lab #: 01240407			**Date Extracted:**	**11/26/01**
Client ID: B2-20			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	75

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental — Analyst: JD
Lab ID: 012404 — Date Received: 11/26/01
Matrix: Soil

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg		Dilution Factor	PQL mg/Kg	Surrogate % Rec.
CAS Lab #: 01240408			**Date Extracted:**	**11/26/01**	
Client ID: B2-25			**Date Analyzed:**	**11/27/01**	
TPH as Diesel	BQL		1.0	10	66
CAS Lab #: 01240409			**Date Extracted:**	**11/26/01**	
Client ID: B2-30			**Date Analyzed:**	**11/27/01**	
TPH as Diesel	BQL		1.0	10	83
CAS Lab #: 012404-MB			**Date Extracted:**	**11/26/01**	
Client ID: Method Blank			**Date Analyzed:**	**11/26/01**	
TPH as Diesel	BQL		1.0	10	65

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	**4.0**	**1**	**1.0**
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	**8.0**	**1**	**0.5**
1,2-Dichloroethane	**6.2**	**1**	**1.0**
1,1-Dichloroethene	**260**	**1**	**0.5**
cis-1,2-Dichloroethene	**0.69**	**1**	**0.5**
trans-1,2-Dichloroethene	**0.59**	**1**	**0.5**
1,2-Dichloropropane	**24**	**1**	**0.5**
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	**2.8**	**1**	**1.0**
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	**1.5**	**1**	**1.0**
1,1,2-Trichloroethane	**13**	**1**	**1.0**
Trichloroethene	**160**	**1**	**1.0**
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	89	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012404-MB

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	BQL	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012404-MB

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	BQL	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	88	86-118%
Toluene-d8	93	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1, B2 Comp
CAS LAB NO: 01240402
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B1, B2 Comp
CAS LAB NO: 01240402
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	5
Toluene	BQL	1	10
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	5
Trichloroethylene	BQL	1	10
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	5
MTBE	BQL	1	10

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	91	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-5
CAS LAB NO: 01240404
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	5
Chloroethane	BQL	1	10
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	5
1,2-Dibromoethane (EDB)	BQL	1	10
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-5
CAS LAB NO: 01240404
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-10
CAS LAB NO: 01240405
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-10
CAS LAB NO: 01240405
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	5
Toluene	BQL	1	10
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	5
Trichloroethylene	BQL	1	10
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	5
MTBE	BQL	1	10
	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	98	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-15
CAS LAB NO: 01240406
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-15
CAS LAB NO: 01240406
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	5
Toluene	BQL	1	10
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	5
Trichloroethylene	BQL	1	10
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	5
MTBE	BQL	1	10
	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	85	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	87	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-20
CAS LAB NO: 01240407
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-20
CAS LAB NO: 01240407
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	84	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-25
CAS LAB NO: 01240408
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-25
CAS LAB NO: 01240408
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	81	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	95	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-30
CAS LAB NO: 01240409
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-30
CAS LAB NO: 01240409
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	5
Toluene	BQL	1	10
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	5
Trichloroethylene	BQL	1	10
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	5
MTBE	BQL	1	10

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	102	81-117%
4-Bromofluorobenzene	92	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B 1
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Water
CAS LAB NO: 01240401
Date Analyzed: 11/28/01 & 11/29/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	0.030	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	0.23	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Liquid
CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Water
CAS LAB NO: 01240401
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	0.11	0.03			500	5	206.2
Barium	3.9	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	0.04	0.03			100	1	200.7
Chromium	0.96	0.04			2500	560	200.7
Cobalt	0.50	0.05			8000	80	200.7
Copper	0.94	0.03			2500	25	200.7
Lead	0.26	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	0.75	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	0.7	0.2			700	7	200.7
Vanadium	1.7	0.07			2400	24	200.7
Zinc	2.9	0.06			5000	250	200.7

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1,B2 Comp
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240402,3
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.9	0.5			500	5	7060
Barium	58	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	46	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.6	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	10	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	16	7			2400	24	6010
Zinc	28	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-5
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240404
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.8	0.5			500	5	7060
Barium	67	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	12	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	3.6	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	23	7			2400	24	6010
Zinc	22	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-10
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240405
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	2.2	0.5			500	5	7060
Barium	42	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	13	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.8	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	20	7			2400	24	6010
Zinc	21	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-15
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240406
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	3.8	0.5			500	5	7060
Barium	34	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	16	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.8	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	21	7			2400	24	6010
Zinc	19	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-20
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240407
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.0	0.5			500	5	7060
Barium	15	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	13	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.1	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	7.0	7			2400	24	6010
Zinc	12	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-25
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240408
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.6	0.5			500	5	7060
Barium	27	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	BQL	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	1.3	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	8.0	7			2400	24	6010
Zinc	15	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-30
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240409
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	3.2	0.5			500	5	7060
Barium	230	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	20	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	12	10			2500	25	6010
Lead	5.3	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	28	7			2400	24	6010
Zinc	50	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Solid
CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	BQL	0.5			500	5	7060
Barium	BQL	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	BQL	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	BQL	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	BQL	7			2400	24	6010
Zinc	BQL	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Analyst: ENN

Sample Matrix: Soil
Date Received: 11/26/01
Date Sampled: 11/26/01

HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/Kg)	Dil Factor	PQL (mg/Kg)
01240402,3	B1,B2 Comp	BQL	1	10
01240404	B2-5	BQL	1	10
01240405	B2-10	BQL	1	10
01240506	B2-15	BQL	1	10
01240507	B2-20	BQL	1	10
01240508	B2-25	BQL	1	10
01240509	B2-30	BQL	1	10
012405-MB	Method Blank	BQL	1	10

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit
EPA Method: 7196

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Analyst: ENN

Sample Matrix: Soil
Date Received: 11/26/01
Date Sampled: 11/26/01

HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/L)	Dil Factor	PQL (mg/L)
01240401	B1	BQL	1	0.03
012404-MB	Method Blank	BQL	1	0.03

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit
EPA Method: SM3500D

Principal Analyst

CAPCO Analytical Services, Inc.

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax
Company West Coast Environmental
Address
Phone 649-7976 Contact Larry Lewis

BILL TO:
P.O.#
Company
Address
Phone Contact

PROJ. NO: SA210
PROJECT NAME: SMCC

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER
M = Metal Sleeve

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #/TYPE	ANALYSIS: CCR METALS	TPH G&D Diesel	8260	REMARKS
1	11/26/01	1020			B1	X				7 AG	X	X	X	GM 24 Hr Rush
2					B1 comp		X			1 M	X	X	X	
3					B2 comp		X			1 M	X	X	X	
4					B2-5		X			1 M	X	X	X	Only Pb, Cr^{6+} 24 Hr
5					B2-10						X	X	X	
6					B2-15						X	X	X	AG & P etc
7					B2-20						X	X	X	
8					B2-25						X	X	X	Thams
9					B2-30						X	X	X	
10					B2-35									* HOLD If Req'd
11					B2-40									* HOLD
12					B2-45									* HOLD
13	V				B2-50							per Peter		
14					B2-55		↓			↓				
15					B2-60							Thams		

REMARKS: * HOLD UNTIL RESULTS of first Samples

012404

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES ✓

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	11/26/01 1437		Emma A. Mine	11/26/01 1005	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
		Emma A. Mine	11/26 1437		

TURN AROUND TIME

24 Hr.	X	5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY CANARY COPY PINK COPY

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax
Company West Coast Environmental
Address
Phone 644-7976 Contact

BILL TO: P.O.#
Company
Address
Phone Contact

PROJ. NO 5K210 PROJECT NAME SMCC

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: TPH Gas & Diesel; Metals 5 LUFT; 8260

REMARKS: - 012404 -

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #/TYPE	REMARKS
16	11/26/01				B2-65						* Hold until
17					B2-70						
18					B2-75						
19					B2-80						
20					B2-85						
21					B2-90						
22					B2-95						
23					B2-100						

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	11/26/01 1437		Susan A. Mahr	11/26/01 1605	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
		Susan A. Mahr	11/26/01 1437		

TURN AROUND TIME

24 Hr.		X 5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY CANARY COPY PINK COPY

WEST COAST
ENVIRONMENTAL
AND ENGINEERING

4253 Transport Street, Suite A
Ventura, CA 93003
Phone 805/644-7976 Fax 805/644-5929

444 South Flower Street, 31st Floor
Los Angeles, CA 90071
Phone 213/229-0075 Fax 213/229-0088

www.wcenviro.com

January 21, 2002

Santa Monica College
1900 Pico Boulevard
Santa Monica, California 90405

Attention: Dr. Tom Donner, Executive Vice President

Subject: **Companion Sampling of Soil and Groundwater** **SA210-00**
BAE Systems – 3171 South Bundy Drive
Los Angeles, California

Dear Dr. Donner:

As you are aware, BAE Systems contracted Brown and Caldwell perform additional evaluation of a perched groundwater interval reportedly impacted by chlorinated solvents at the BAE Systems facility in Santa Monica. The presence of chlorinated solvents in the perched interval was detected during a combined geotechnical/environmental due diligence evaluation of the property and was reported by West Coast Environmental and Engineering (WCE) in the report Limited Assessment of Soil and Groundwater Conditions; December 5, 2001 (WCE-December 2001). At your request, WCE accompanied Brown and Caldwell (B&C) during assessment sampling activities and collected companion samples to provide independent confirmation of results.

Scope of Work: The scope of work performed included soil and groundwater sampling from three borings advanced by Gregg Drilling and Testing, Inc. under contract to and supervision of B&C. One boring (designated TEMP 1) was located in the immediate vicinity of Boring B-1 as reported in WCE-December 2001. Boring TEMP 1 was advanced near the former location of the facility's hazardous waste storage area. The remaining two wells (TEMP 2 and TEMP 3) were located in the parking lot north and west of TEMP 1 in areas unlikely to have been affected by facility operations. The approximate location of each boring is shown on Figure 2.

Methodology: Field work was conducted over the days of December 5 and 6, 2001. All borings were advanced with truck-mounted hollow stem auger (Marl M-21). Eight-inch augers were utilized for all borings.

Soils samples were collected from the borings at five foot (5') intervals from all borings to a depth of 60 feet (60'), borings were then continued until groundwater was encountered. The borings were completed at approximately five feet below the depth of groundwater contact. Soil sampling was performed in accordance with WCE standard sampling procedure SSP-4 regarding rig boring soil sampling. Soil samples were collected with a split spoon sampler

loaded with three-inch, stainless steel rings, which were divided between WCE and B&C for testing.

Three perched groundwater samples were obtained using a half-inch diameter sterile, disposable bailer lowered through a one-inch PVC temporary well casing. The casing was placed at the bottom of the boring and set in place using a sand pack of clean packaged sand. The bottom five feet of casing was perforated and the remainder was blank. The bailer was removed from its wrap immediately prior to use, and disposed after each sample was obtained.

All soil and groundwater samples were submitted to Capco Analytical Services (CAS) in Ventura, California for analysis. CAS is a laboratory certified by the State of California to perform all analyses required for this project. Groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, total petroleum hydrocarbons (TPH) by EPA Method 8015m, and for Title 22 Metals by EPA Series 6000 and 7000. Soil samples were held for future analyses, but were not analyzed and the holding time for VOC and TPH analyses has since lapsed.

Drill cuttings were placed in 55-gallon DOT drums and stored onsite pending results of profiling laboratory analyses. All borings were backfilled and sealed using a grout of bentonite slurry to within 5 feet of ground surface. The remainder was filled with bentonite chips, and capped with asphalt. The augers were pre-cleaned by Gregg Drilling Company prior to arrival onsite.

Results: Boring TEMP1 encountered perched groundwater at approximately 68 feet below ground surface (bgs) and was terminated at 73 feet bgs to facilitate the collection of a groundwater sample. Boring TEMP2 was advanced in the parking lot approximately 140 feet south of the corner of building 1. This boring encountered groundwater at 67 feet and was terminated at 72 feet bgs to facilitate groundwater sampling. Boring TEMP3 was advanced near the south fence of the facility parking lot. Groundwater was encountered at 68 feet and the boring was terminated at 73 feet bgs.

Eleven VOCs, including solvents and their breakdown bi-products were detected in the groundwater sample taken at TEMP1, and at concentrations consistent with the results obtained from laboratory analyses of the groundwater sample from previous boring B1. Levels of PCE, TCE and some of their breakdown bi-products that were detected in the water sample from TEMP 1 exceed both the California Code of Regulations, Title 22, Maximum Contaminant Levels (22 CCR 64444) and the City of Los Angeles Public Health Goals (City of Los Angeles Drinking Water Public Health Goals Report, July 2001). Levels of lead and hexavalent chromium in water were below detection limits. The groundwater samples from TEMP 2 and TEMP 3 were non-detect for TPH and for most VOCs, indicating the source of the contaminants identified in the perched groundwater sample from TEMP 1 originated from facility operations. The results of all analyses performed for this assessment, including the results obtained by B&C, are summarized in the tables found in Attachment 2. Copies of the original laboratory reports are provide in Attachment 3.

Discussion and Recommendations: The results of this additional assessment serve to confirm the presence of VOCs in perched groundwater underlying the facility as reported in WCE-December 2001, and to provide further data to indicate a release has occurred from

facility operations. Based on these results, the comments and recommendations of WCE-December 2001 are considered to remain applicable and effective. WCE understands BAE Systems may undertake remedial action to address the contaminants identified in perched groundwater. BAE Systems proposes to remove contaminants in perched groundwater by installation and operation of a vapor extraction system (VES), which should be effective based on the volatile nature of contaminants identified and the soil conditions present. It should be noted, however, that BAE System's proposed action will address potential impacts to the deeper aquifer only to the extent that it will remove contaminants in the perched interval that may be a source of future contamination of the deeper aquifer. The VES as proposed will not remove contaminants that may have already reached the deeper aquifer.

Thank you for this opportunity to be of service. Please do not hesitate to contact me at (805) 644-7976 if you have any questions or need more information regarding this report.

Respectfully Submitted,
West Coast Environmental and Engineering

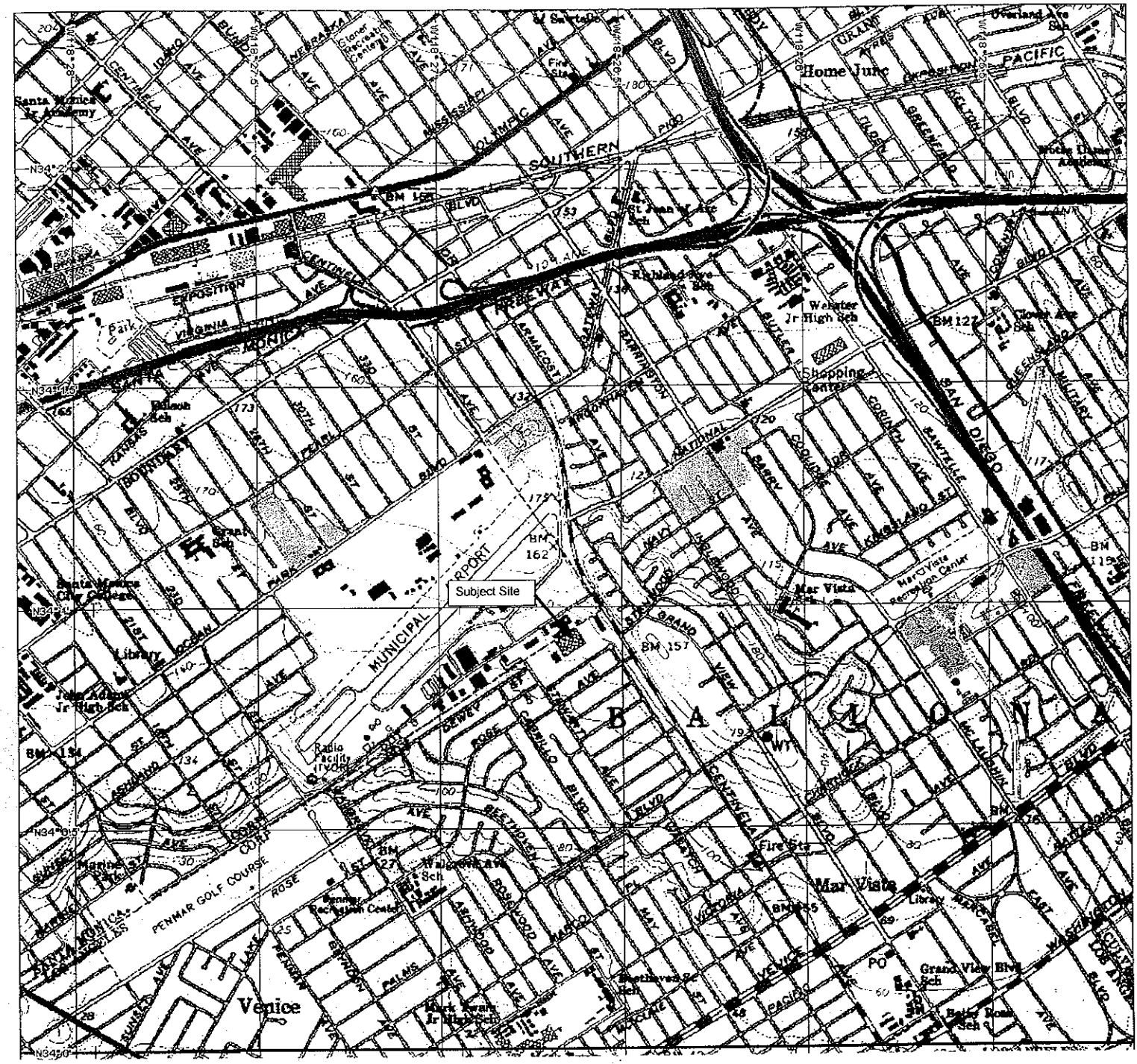
Lawrence Levee
Staff Geologist

REGISTERED GEOLOGIST
PETER L. THAMS
No. 736
Exp. 08/03
CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

Peter L. Thams, C.E.G., C.H.G.
Senior Geologist/Group Manager

ATTACHMENT 1

FIGURES



Source: Beverly Hills CA, Quadrangle
1966, Photorevised 1981
Minor Revision 1994
USGS Topographic

N

0 1000' 2000'

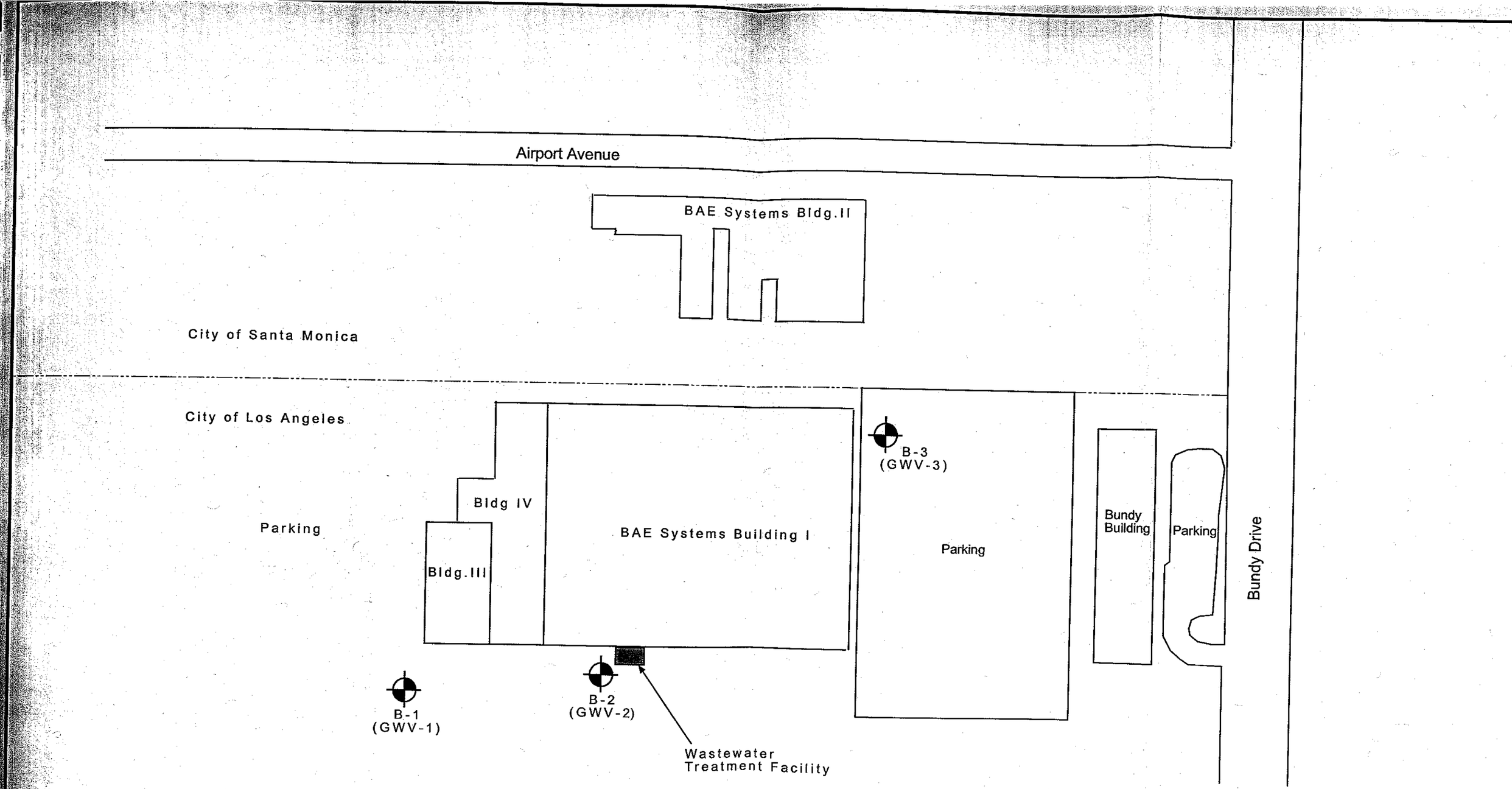
10' Contour Interval
North American Datum 1927

WEST COAST ENVIRONMENTAL AND ENGINEERING

SITE LOCATION MAP

BAE Systems
3171 S. Bundy Drive
Los Angeles, CA

PROJECT:	SA210-001			FIGURE 1
DRAWN BY:	LNL	DATE:	11-28-2001	REVISION:
APPROVED BY:	PLT	DATE:	11-28-2001	PRINTED: 11-28-2001
DRAWING:	SA210_fig1_lnl.fh10			SCALE: as shown



Explanation

B-3 (GWV-3) Approximate Boring Locations from groundwater/Soil investigation of 11/26/2001 and 11/27/2001. (GWV-3 numbering convention for borings by Geolabs Westlake Village)

N

WEST COAST ENVIRONMENTAL AND ENGINEERING

Plot Plan
BAE Systems
Los Angeles / Santa Monica, CA

PROJECT:	SA210-001		**FIGURE 2**
DRAWN BY:	LNL	DATE: 11-29-2001	REVISION:
APPROVED BY:	PLT	DATE: 11-29-2001	PRINTED: 4-16-01
DRAWING:	SA210_SMCC_Fig2.fh10		SCALE: Not to Scale

ATTACHMENT 2

TABLES

Table 1: Groundwater Laboratory Analysis for TPH

Sample ID	TPH As Gasoline	TPH as Diesel
B1	0.12	<0.5
All results listed in mg/Kg		

Table 2: Groundwater Laboratory Analysis Carbon Range

Sample ID	C4-C12	C13-C22	C23+
TEMP 1(wce)	0.21	<10	<10
TEMP2(wce)	<0.05	<10	<10
TEMP3(wce)	<0.05	<10	<10
All results listed in mg/Kg			

Table 3: Groundwater Sample Laboratory Analysis for VOCs

Sample ID	Chloroform	1,1 DCA	1,2 DCA	1,1 DCE	cis1,2 DCE	Trans-1,2 DCE	1,2 Dichloropropane	PCE	1,1,1 TCA	1,1,2 TCA	TCE
B1	*4.0*	*8.0*	*6.2*	*260*	*0.69*	*0.59*	*24.0*	*2.8*	*1.5*	*13*	*160*
Temp1 (wce)	*6.6*	*12*	*8.9*	*500*	*1.1*	*0.89*	*30*	*6.5*	*4.3*	*20*	*250*
TEMP2 (WCE)	<1.0	<0.5	<0.5	*30*	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	*3.1*
Temp 3 (wce)	<1.0	<0.5	<0.5	*3.6*	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	*3.1*
Temp 1 (b&c)	*6.2*	*11*	*10*	*370*	<0.5	<0.5	*28*	*5.8*	*4.5*	*16*	*260*
Temp 2 (b&c)	<1.0	<0.5	<0.5	*28*	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	*3.0*
Temp 3 (b&c)	<1.0	<0.5	<0.5	*4*	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0
CA MCLs	*	5	5	6	6	10	5	5	200	5	5
City of L.A. PHGs	*	*	*	*	*	*	*	0.056	*	*	0.8

All results in ug/Kg.
B1= WCE sample obtained 11/25/2001.
TEMP3(wce) = WCE sample obtained 12/5/2001.
TEMP3(b&c) = Brown and Caldwell sample obtained 12/5/2001.
MCL= Maximum Contamination Level allowed by California Code of Regulations Title 22.
PHG= Public Health Goals for the City of Los Angeles. These are not legislated maximums but objectives.

Table 4: Laboratory Analysis for Metals

Sample ID	Sb	As	Ba	Be	Cd	Ch	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	Va	Zn
GWV-B1 (GW)	<0.1	<0.03	<0.06	<0.1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	0.23	<0.06
GWV-B2-5	<8	***1.8***	***67***	<0.8	<1	12	<10	<10	***3.6***	<0.1	<20	<10	<0.5	<2	<0.2	***23***	***22***
GWV-B2-10	<8	***2.2***	***42***	<0.8	<1	13	<10	<10	***2.8***	<0.1	<20	<10	<0.5	<2	<0.2	***20***	***21***
GWV-B2-15	<8	***3.8***	***34***	<0.8	<1	16	<10	<10	***2.8***	<0.1	<20	<10	<0.5	<2	<0.2	***31***	***19***
GWV-B2-20	<8	***1.0***	***15***	<0.8	<1	13	<10	<10	***2.1***	<0.1	<20	<10	<0.5	<2	<0.2	***7.0***	***12***
GWV-B2-25	<8	***1.6***	***27***	<0.8	<1	1.2	<10	<10	***1.3***	<0.1	<20	<10	<0.5	<2	<0.2	***8.0***	***15***
GWV-B2-30	<8	***3.2***	***230***	<0.8	<1	20	<10	12	***5.3***	<0.1	<20	<10	<0.5	<2	<0.2	***28***	***50***
TEMP 1 (GW)	<0.1	<0.03	<0.06	<0.1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	<0.07	<0.06
TEMP 1 (GW)	<0.1	<0.03	<0.06	<0.1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	***0.24***	<0.06
TEMP 1 (GW)	<0.1	<0.03	<0.06	<0.1	<0.03	<0.04	<0.04	0.30	<0.09	<0.0005	<0.08	<0.08	<0.01	<0.06	<0.2	***0.39***	<0.06
Method Blank	<8	<0.5	<10	<0.8	<1	<9	<10	<10	<0.6	<0.1	<20	<10	<0.5	<2	<0.2	***<7***	<10

All results listed in mg/Kg
Groundwaater samples were filtered prior to preservation.
Positive results shown in bold italics

Table 5: Total Petroleum Hydrocarbons in Soil

Sample ID	B2-5	B2-10	B2-15	B2-20	B2-25	B2-30
TPH gas	<1	<1	<1	<1	<1	<1
TPH diesel	<10	<10	<10	<10	<10	<10
VOCs	BQL	BQL	BQL	BQL	BQL	BQL

Results in mg/Kg

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St., Suite A
Ventura, CA 93003

November , 2001

ATTENTION: Larry Levee

Laboratory No: 012404
Date Received: 26-NOV-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

On November 26, 2001 twenty-four (24) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of pages excluding the cover letter, and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
B1	01240401
B1, B2 COMP	01240402 & 3
B2-5	01240404
B2-10	01240405
B2-15	01240406
B2-20	01240407
B2-25	01240408
B2-30	01240409
B2-35	01240410*HOLD
B2-40	01240411*HOLD
B2-45	01240412*HOLD

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St.,Suite A
Ventura, CA 93003

November , 2001

ATTENTION: Larry Levee

Laboratory No: 012404
Date Received: 26-NOV-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

SAMPLE DESCRIPTION	CAS LAB NUMBER
B2-45	01240413*HOLD
B2-50	01240414*HOLD
B2-55	01240415*HOLD
B2-60	01240416*HOLD
B2-65	01240417*HOLD
B2-70	01240418*HOLD
B2-75	01240419*HOLD
B2-80	01240420*HOLD
B2-85	01240421*HOLD
B2-90	01240422*HOLD
B2-95	01240423*HOLD
B2-100	01240424*HOLD

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Water

Analyst: AN
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
CAS Lab #: 01240401		**Date Analyzed: 11/28/01**	
Sample ID: B1			
TPH as Gasoline	0.12	1.0	0.05
CAS Lab #: 012404-MB		**Date Analyzed: 11/28/01**	
Sample ID: Method Blank			
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: AN
Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240402		**Date Analyzed: 11/28/01**	
Client ID: B1, B2 Comp			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240404		**Date Analyzed: 11/28/01**	
Client ID: B2-5			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240405		**Date Analyzed: 11/28/01**	
Client ID: B2-10			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240406		**Date Analyzed: 11/28/01**	
Client ID: B2-15			
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: AN
Date Received: 11/28/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg
CAS Lab #: 01240407		**Date Analyzed: 11/28/01**	
Client ID: B2-20			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240408		**Date Analyzed: 11/28/01**	
Client ID: B2-25			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 01240409		**Date Analyzed: 11/28/01**	
Client ID: B2-30			
TPH as Gasoline	BQL	1	0.5
CAS Lab #: 012404-MB		**Date Analyzed: 11/28/01**	
Client ID: Method Blank			
TPH as Gasoline	BQL	1	0.5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Water

Analyst: JD
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec.
CAS Lab #: 01240401		Date Extracted: 11/27/01		
Client ID: B1		Date Analyzed: 11/27/01		
TPH - Diesel	BQL	1.0	0.5	69
CAS Lab #: 012404-MB		Date Extracted: 11/27/01		
Client ID: Method Blank		Date Analyzed: 11/27/01		
TPH - Diesel	BQL	1.0	0.5	67

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: JD
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg	Surrogate % Rec.
CAS Lab #: 01240402			**Date Extracted:**	**11/26/01**
Client ID: B1, B2 Comp			**Date Analyzed:**	**11/26/01**
TPH as Diesel	BQL	1.0	10	71
CAS Lab #: 01240404			**Date Extracted:**	**11/26/01**
Client ID: B2-5			**Date Analyzed:**	**11/26/01**
TPH as Diesel	BQL	1.0	10	74
CAS Lab #: 01240405			**Date Extracted:**	**11/26/01**
Client ID: B2-10			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	73
CAS Lab #: 01240406			**Date Extracted:**	**11/26/01**
Client ID: B2-15			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	67
CAS Lab #: 01240407			**Date Extracted:**	**11/26/01**
Client ID: B2-20			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	75

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 1[illegible] %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Matrix: Soil

Analyst: JD
Date Received: 11/26/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/Kg	Dilution Factor	PQL mg/Kg	Surrogate % Rec.
CAS Lab #: 01240408			**Date Extracted:**	**11/26/01**
Client ID: B2-25			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	66
CAS Lab #: 01240409			**Date Extracted:**	**11/26/01**
Client ID: B2-30			**Date Analyzed:**	**11/27/01**
TPH as Diesel	BQL	1.0	10	83
CAS Lab #: 012404-MB			**Date Extracted:**	**11/26/01**
Client ID: Method Blank			**Date Analyzed:**	**11/26/01**
TPH as Diesel	BQL	1.0	10	65

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	**4.0**	**1**	**1.0**
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	**8.0**	**1**	**0.5**
1,2-Dichloroethane	**6.2**	**1**	**1.0**
1,1-Dichloroethene	**260**	**1**	**0.5**
cis-1,2-Dichloroethene	**0.69**	**1**	**0.5**
trans-1,2-Dichloroethene	**0.59**	**1**	**0.5**
1,2-Dichloropropane	**24**	**1**	**0.5**
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B1
CAS LAB NO: 01240401
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	2.8	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	1.5	1	1.0
1,1,2-Trichloroethane	13	1	1.0
Trichloroethene	160	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	89	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012404-MB

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	BQL	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012404-MB

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	BQL	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	88	86-118%
Toluene-d8	93	88-110%
4-Bromofluorobenzene	88	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1, B2 Comp
CAS LAB NO: 01240402
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B1, B2 Comp
CAS LAB NO: 01240402
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	91	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-5
CAS LAB NO: 01240404
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-5
CAS LAB NO: 01240404
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	91	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-10
CAS LAB NO: 01240405
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-10
CAS LAB NO: 01240405
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachlorcethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	98	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-15
CAS LAB NO: 01240406
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

Client: West Coast Environmental
Sample ID: B2-15
CAS LAB NO: 01240406
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
Total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	85	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	87	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-20
CAS LAB NO: 01240407
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	5
Chloroethane	BQL	1	10
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	5
1,2-Dibromoethane (EDB)	BQL	1	10
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-20
CAS LAB NO: 01240407
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	84	80-120%
Toluene-d8	100	81-117%
4-Bromofluorobenzene	89	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-25
CAS LAB NO: 01240408
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-25
CAS LAB NO: 01240408
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	5
Toluene	BQL	1	10
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	5
Trichloroethylene	BQL	1	10
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	81	80-120%
Toluene-d8	103	81-117%
4-Bromofluorobenzene	95	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-30
CAS LAB NO: 01240409
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
Benzene	BQL	1	5
Bromobenzene	BQL	1	5
Bromochloromethane	BQL	1	5
Bromodichloromethane	BQL	1	5
Bromoform	BQL	1	5
Bromomethane	BQL	1	5
N-Butylbenzene	BQL	1	5
sec-Butylbenzene	BQL	1	5
tert-Butylbenzene	BQL	1	5
Carbon Tetrachloride	BQL	1	5
Chlorobenzene	BQL	1	10
Chloroethane	BQL	1	5
Chloroform	BQL	1	5
Chloromethane	BQL	1	5
2-Chlorotoluene	BQL	1	5
4-Chlorotoluene	BQL	1	5
Chlorodibromomethane	BQL	1	5
1,2-Dibromo-3-chloropropane	BQL	1	10
1,2-Dibromoethane (EDB)	BQL	1	5
Dibromomethane	BQL	1	5
1,2-Dichlorobenzene	BQL	1	5
1,3-Dichlorobenzene	BQL	1	5
1,4-Dichlorobenzene	BQL	1	5
Dichlorodifluoromethane	BQL	1	5
1,1-Dichloroethane	BQL	1	5
1,2-Dichloroethane (EDC)	BQL	1	5
1,1-Dichloroethene	BQL	1	5
cis-1,2-Dichloroethene	BQL	1	5
trans-1,2-Dichloroethene	BQL	1	5
1,2-Dichloropropane	BQL	1	5
1,3-Dichloropropane	BQL	1	5
2,2-Dichloropropane	BQL	1	5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: B2-30
CAS LAB NO: 01240409
Date Received: 11/26/01
Date Sampled: 11/26/01

Date Analyzed: 11/28/01
Analyst: AN
Sample Matrix: Soil
Date Extracted: N/A
Time Sampled: 1020

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/Kg	Dilution Factor	PQL ug/Kg
1,1-Dichloropropene	BQL	1	5
Ethylbenzene	BQL	1	5
Hexachlorobutadiene	BQL	1	5
Isopropylbenzene	BQL	1	5
p-Isopropyltoluene	BQL	1	5
Methylene Chloride	BQL	1	5
Napthalene	BQL	1	5
N-Propylbenzene	BQL	1	5
Styrene	BQL	1	5
1,1,1,2-Tetrachloroethane	BQL	1	5
1,1,2,2-Tetrachloroethane	BQL	1	5
Tetrachloroethene	BQL	1	10
Toluene	BQL	1	5
1,2,3-Trichlorobenzene	BQL	1	5
1,2,4-Trichlorobenzene	BQL	1	5
1,1,1-Trichloroethane	BQL	1	5
1,1,2-Trichloroethane	BQL	1	10
Trichloroethylene	BQL	1	5
Trichlorofluoromethane	BQL	1	5
1,2,3-Trichloropropane	BQL	1	5
1,2,4-Trimethylbenzene	BQL	1	5
1,3,5-Trimethylbenzene	BQL	1	5
Vinyl Chloride	BQL	1	5
total Xylenes	BQL	1	10
MTBE	BQL	1	5

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	83	80-120%
Toluene-d8	102	81-117%
4-Bromofluorobenzene	92	74-121%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B 1
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Water
CAS LAB NO: 01240401
Date Analyzed: 11/28/01 & 11/29/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	0.030	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	0.23	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Liquid
CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Water
CAS LAB NO: 01240401
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	0.11	0.03			500	5	206.2
Barium	3.9	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	0.04	0.03			100	1	200.7
Chromium	0.96	0.04			2500	560	200.7
Cobalt	0.50	0.05			8000	80	200.7
Copper	0.94	0.03			2500	25	200.7
Lead	0.26	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	0.75	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	0.7	0.2			700	7	200.7
Vanadium	1.7	0.07			2400	24	200.7
Zinc	2.9	0.06			5000	250	200.7

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Liquid
CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B1,B2 Comp
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240402,3
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.9	0.5			500	5	7060
Barium	58	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	46	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.6	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	10	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	16	7			2400	24	6010
Zinc	28	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-5
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240404
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.8	0.5			500	5	7060
Barium	67	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	12	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	3.6	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	23	7			2400	24	6010
Zinc	22	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-10
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240405
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	2.2	0.5			500	5	7060
Barium	42	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	13	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.8	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	20	7			2400	24	6010
Zinc	21	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-15
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240406
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	3.8	0.5			500	5	7060
Barium	34	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	16	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	2.8	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	21	7			2400	24	6010
Zinc	19	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-25
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240408
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	1.6	0.5			500	5	7060
Barium	27	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	BQL	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	1.3	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	8.0	7			2400	24	6010
Zinc	15	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: B2-30
Date Received: 11/26/01
Date Sampled: 11/26/01

Sample Matrix: Soil
CAS LAB NO: 01240409
Date Analyzed: 11/26/01-11/27/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	3.2	0.5			500	5	7060
Barium	230	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	20	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	12	10			2500	25	6010
Lead	5.3	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	28	7			2400	24	6010
Zinc	50	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Solid
CAS LAB NO: 012404-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/Kg)	TTLC PQL (mg/Kg)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/Kg)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	8			500	15	6010
Arsenic	BQL	0.5			500	5	7060
Barium	BQL	10			10000	100	6010
Beryllium	BQL	0.8			75	0.75	6010
Cadmium	BQL	1			100	1	6010
Chromium	BQL	9			2500	560	6010
Cobalt	BQL	10			8000	80	6010
Copper	BQL	10			2500	25	6010
Lead	BQL	0.6			1000	5	7421
Mercury	BQL	0.1			20	0.2	7471
Molybdenum	BQL	20			3500	350	6010
Nickel	BQL	10			2000	20	6010
Selenium	BQL	0.5			100	1	7740
Silver	BQL	2			500	5	6010
Thallium	BQL	0.2			700	7	7841
Vanadium	BQL	7			2400	24	6010
Zinc	BQL	10			5000	250	6010

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Analyst: ENN

Sample Matrix: Soil
Date Received: 11/26/01
Date Sampled: 11/26/01

HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/Kg)	Dil Factor	PQL (mg/Kg)
01240402,3	B1,B2 Comp	BQL	1	10
01240404	B2-5	BQL	1	10
01240405	B2-10	BQL	1	10
01240506	B2-15	BQL	1	10
01240507	B2-20	BQL	1	10
01240508	B2-25	BQL	1	10
01240509	B2-30	BQL	1	10
012405-MB	Method Blank	BQL	1	10

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit
EPA Method: 7196

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012404
Analyst: ENN

Sample Matrix: Soil
Date Received: 11/26/01
Date Sampled: 11/26/01

HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/L)	Dil Factor	PQL (mg/L)
01240401	B1	BQL	1	0.03
012404-MB	Method Blank	BQL	1	0.03

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit
EPA Method: SM3500D

Principal Analyst

CAPCO Analytical Services, Inc.

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT TO:
Company: West Coast Environmental
Fax: ______
Address: ______
Phone: 649-1976 Contact: Larry Lee

BILL TO:
P.O.#: ______
Company: ______
Address: ______
Phone: ______ Contact: ______

PROJ. NO: SA210
PROJECT NAME: SMCC

SAMPLERS: (Signature) [signature]

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER
M= Metal Sleeve

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ANALYSIS: CCR METALS	TPHG & Diesel	8260				REMARKS
1	11/26/01	0920			B1	X				7	A/P	X	X	X				CAM 24 Hr Rush
2					B1 comp		X			1	M	X	X	X				
3					B2 comp		X			1	M	X	X	X				
4					B2-5		X			1	M	X	X	X				Only Pb, Cr6+ 24 hr
5					B2-10							X	X	X				
6					B2-15							X	X	X				
7					B2-20							X	X	X				Ask Peter Thoms
8					B2-25							X	X	X				
9					B2-30							X	X	X				If questions
10					B2-35													* HOLD
11					B2-40													* HOLD
12					B2-45													* HOLD
13					B2-50							Per Peter						
14					B2-55													
15					B2-60							Thoms						

REMARKS: * HOLD UNTIL RESULTS of first Samples

012404

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	11/26/01 1437		[signature]	11/26/01 1005	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature) [signature]	Date/Time 1/26 1437		

TURN AROUND TIME

24 Hr.	X	5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAL CO SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

Fax

Company West Coast Environmental

Address

Phone 644-7976 Contact

Company

Address

Phone Contact

P.O.#

PROJ. NO 5K210

PROJECT NAME SMCC

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #/TYPE	ANALYSIS: TPH Gas & Diesel	Metals 5 LUFT	8260	REMARKS
16	11/26/01				B2-65									
17					B2-70									
18					B2-75									
19					B2-80									
20					B2-85									
21					B2-90									
22					B2-95									
23					B2-100									

012404

* Hold until

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	11/26/01 1437			11/26/01 1605	
Relinquished by: (Signature)	Date/Time	Received by (Signature)	Date/Time		
			11/26/01 1437		

TURN AROUND TIME

24 Hr.		X	5 Day
48 Hr.			Standard
72 Hr.			Other

WHITE COPY CANARY COPY PINK COPY

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St., Suite A
Ventura, CA 93003

December 7, 2001

ATTENTION: Larry Levee/Peter Thams

Laboratory No: 012474
Date Received: 05-DEC-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

On December 5, 2001 thirty-three (33) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 16 pages excluding the cover letter, and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
TEMP 1 @ 50'	01247401*HOLD
TEMP 1 @ 55'	01247402*HOLD
TEMP 1 @ 60'	01247403*HOLD
TEMP 3 @ 5'	01247404*HOLD
TEMP 3 @ 10'	01247405*HOLD
TEMP 3 @ 15'	01247406*HOLD
TEMP 3 @ 20'	01247407*HOLD
TEMP 3 @ 25'	01247408*HOLD
TEMP 3 @ 30'	01247409*HOLD
TEMP 3 @ 35'	01247410*HOLD
TEMP 3 @ 40'	01247411*HOLD
TEMP 3 @ 45'	01247412*HOLD
TEMP 3 @ 50'	01247413*HOLD
TEMP 3 @ 55'	01247414*HOLD
TEMP 3 @ 60'	01247415*HOLD

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: West Coast Environmental
4253 Transport St.,Suite A
Ventura, CA 93003

December 7, 2001

ATTENTION: Larry Levee/Peter Thams

Laboratory No: 012474
Date Received: 05-DEC-01
Project: SMCC (SA 210)

Job No: B05541
Sampled By: Client
ID: See Below

RESULTS

SAMPLE DESCRIPTION	CAS LAB NUMBER
TEMP 3 @ 65'	01247416*HOLD
TEMP 2 @ 5'	01247417*HOLD
TEMP 2 @ 10'	01247418*HOLD
TEMP 2 @ 15'	01247419*HOLD
TEMP 2 @ 20'	01247420*HOLD
TEMP 2 @ 25'	01247421*HOLD
TEMP 2 @ 30'	01247422*HOLD
TEMP 2 @ 35'	01247423*HOLD
TEMP 2 @ 40'	01247424*HOLD
TEMP 2 @ 45'	01247425*HOLD
TEMP 2 @ 50'	01247426*HOLD
TEMP 2 @ 55'	01247427*HOLD
TEMP 2 @ 60'	01247428*HOLD
TEMP 2 @ 65'	01247429*HOLD
TEMP 1	01247430
TEMP 2	01247431
TEMP 3	01247432
TRIP BLANK	01247433

*HOLD PER CUSTOMER REQUEST

Dan A. Farah, Ph.D.
Director - Analytical Operation

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012474
Matrix: Water

Analyst: AN & JD
Date Received: 12/5/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec.
CAS Lab #: 01247430		**Date Extracted: 12/6/01**		
Client ID: Temp 1		**Date Analyzed: 12/6/01**		
TPH - (C4 - C12)	0.21	1.0	0.05	--
TPH - (C13 - C22)	BQL	1	10	76
TPH - (C23+)	BQL			
CAS Lab #: 01247431		**Date Extracted: 12/6/01**		
Client ID: Temp 2		**Date Analyzed: 12/6/01**		
TPH - (C4 - C12)	BQL	1.0	0.05	--
TPH - (C13 - C22)	BQL	1	10	45*
TPH - (C23+)	BQL			

*Low surrogate recovery due to matrix interference

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Lab ID: 012474
Matrix: Water

Analyst: AN & JD
Date Received: 12/5/01

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec.
CAS Lab #: 01247432		**Date Extracted: 12/6/01**		
Client ID: Temp 3		**Date Analyzed: 12/6/01**		
TPH - (C4 - C12)	BQL	1.0	0.05	--
TPH - (C13 - C22)	BQL	1	10	64
TPH - (C23+)	BQL			
CAS Lab #: 012474-MB		**Date Extracted: 12/6/01**		
Client ID: Method Blank		**Date Analyzed: 12/6/01**		
TPH - (C4 - C12)	BQL	1.0	0.05	--
TPH - (C13 - C22)	BQL	1	10	72
TPH - (C23+)	BQL			

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Temp 1
CAS LAB NO: 01247430
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	**6.6**	**1**	**1.0**
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	**12**	**1**	**0.5**
1,2-Dichloroethane	**8.9**	**1**	**1.0**
1,1-Dichloroethene	**500**	**1**	**0.5**
cis-1,2-Dichloroethene	**1.1**	**1**	**0.5**
trans-1,2-Dichloroethene	**0.89**	**1**	**0.5**
1,2-Dichloropropane	**30**	**1**	**0.5**
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: Temp 1
CAS LAB NO: 01247430
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	**6.5**	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	**4.3**	**1**	**1.0**
1,1,2-Trichloroethane	**20**	**1**	**1.0**
Trichloroethene	**250**	**1**	**1.0**
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	100	86-118%
Toluene-d8	88	88-110%
4-Bromofluorobenzene	90	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Temp 2
CAS LAB NO: 01247431
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	**30**	**1**	**0.5**
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: Temp 2
CAS LAB NO: 01247431
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Naphthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	**3.1**	**1**	**1.0**
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	101	86-118%
Toluene-d8	90	88-110%
4-Bromofluorobenzene	86	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Temp 3
CAS LAB NO: 01247432
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	**3.6**	**1**	**0.5**
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: Temp 3
CAS LAB NO: 01247432
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	**0.88**	**1**	**1.0**
Trichlorofloуromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	97	86-118%
Toluene-d8	97	88-110%
4-Bromofluorobenzene	92	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Trip Blank
CAS LAB NO: 01247433
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	BQL	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

CAPCO Analytical Services, Inc.

Client: West Coast Environmental
Sample ID: Trip Blank
CAS LAB NO: 01247433
Date Received: 12/5/01
Date Sampled: 12/5/01

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: Water
Date Extracted: N/A
Time Sampled: N/A

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	BQL	1	1.0
Trichlorofloуromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	101	86-118%
Toluene-d8	89	88-110%
4-Bromofluorobenzene	86	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012474-MB

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260B

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Benzene	BQL	1	0.5
Bromobenzene	BQL	1	0.5
Bromochloromethane	BQL	1	0.5
Bromodichloromethane	BQL	1	1.0
Bromoform	BQL	1	1.0
Bromomethane	BQL	1	0.5
N-Butylbenzene	BQL	1	0.5
sec-Butylbenzene	BQL	1	0.5
tert-Butylbenzene	BQL	1	0.5
Carbon tetrachloride	BQL	1	0.5
Chlorobenzene	BQL	1	1.0
Chloroethane	BQL	1	1.0
Chloroform	BQL	1	1.0
Chloromethane	BQL	1	0.5
2-Chlorotoluene	BQL	1	0.5
4-Chlorotoluene	BQL	1	0.5
1,2-Dibromo-3-chloropropane	BQL	1	5.0
1,2-Dibromoethane	BQL	1	0.5
Dibromochloromethane	BQL	1	1.0
Dibromomethane	BQL	1	0.5
1,2-Dichlorobenzene	BQL	1	0.5
1,3-Dichlorobenzene	BQL	1	0.5
1,4-Dichlorobenzene	BQL	1	1.0
Dichlorodifluoromethane	BQL	1	0.5
1,1-Dichloroethane	BQL	1	0.5
1,2-Dichloroethane	BQL	1	1.0
1,1-Dichloroethene	BQL	1	0.5
cis-1,2-Dichloroethene	BQL	1	0.5
trans-1,2-Dichloroethene	BQL	1	0.5
1,2-Dichloropropane	BQL	1	0.5
1,3-Dichloropropane	BQL	1	1.0
2,2-Dichloropropane	BQL	1	0.5
1,1-Dichloropropene	BQL	1	0.5

Principal Analyst

Client: West Coast Environmental
Sample ID: Method Blank
CAS LAB NO: 012474-MB

Date Analyzed: 12/6/01
Analyst: AN
Sample Matrix: MB for Liquid

VOLATILE ORGANIC COMPOUNDS
EPA Method 8260 continued

Compound	Concentration ug/L	Dilution Factor	PQL ug/L
Ethylbenzene	BQL	1	1.0
Hexachlorobutadiene	BQL	1	0.5
Isopropylbenzene	BQL	1	0.5
p-Isopropyltoluene	BQL	1	0.5
Methylene Chloride	BQL	1	2.0
Napthalene	BQL	1	1.0
N-Propylbenzene	BQL	1	1.0
Styrene	BQL	1	0.5
1,1,1,2-Tetrachloroethane	BQL	1	1.0
1,1,2,2-Tetrachloroethane	BQL	1	0.5
Tetrachloroethene	BQL	1	1.0
Toluene	BQL	1	0.5
1,2,3-Trichlorobenzene	BQL	1	1.0
1,2,4-Trichlorobenzene	BQL	1	1.0
1,1,1-Trichloroethane	BQL	1	1.0
1,1,2-Trichloroethane	BQL	1	1.0
Trichloroethene	BQL	1	1.0
Trichloroflouromethane	BQL	1	1.0
1,2,3-Trichloropropane	BQL	1	0.5
1,2,4-Trimethylbenzene	BQL	1	1.0
1,3,5-Trimethylbenzene	BQL	1	1.0
Vinyl Chloride	BQL	1	1.0
Total Xylenes	BQL	1	2.0
MTBE	BQL	1	5.0

SURROGATE RECOVERY

Surrogate	% Recovery	Control Limits
Dibromofluoromethane	102	86-118%
Toluene-d8	90	88-110%
4-Bromofluorobenzene	87	86-115%

BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Temp 1
Date Received: 12/5/01
Date Sampled: 12/5/01

Sample Matrix: Water
CAS LAB NO: 01247430
Date Analyzed: 12/5/01 & 12/6/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis
BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Temp 3
Date Received: 12/5/01
Date Sampled: 12/5/01

Sample Matrix: Water
CAS LAB NO: 01247432
Date Analyzed: 12/5/01 & 12/6/01

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	0.39	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis
BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: West Coast Environmental
Sample ID: Method Blank

Sample Matrix: MB for Liquid
CAS LAB NO: 012474-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC PQL (mg/L)	STLC (mg/L)	STLC PQL (mg/L)	CAM LIMITS TTLC (mg/L)	CAM LIMITS STLC (mg/L)	EPA METHOD
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	BQL	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	BQL	0.06			5000	250	200.7

*Sample was filtered prior to analysis
BQL: Below Practical Quantitation Limit
PQL: Practical Quantitation Limit

Principal Analyst

CAPCO Analytical Services, Inc.

CAL SCI SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

Company West Coast Enviro
Address
Phone 644-7976 Contact Larry Lecke/Peartham

Company
Address
Phone Contact

PROJ. NO: SA210
PROJECT NAME: SMA - BAE
SAMPLERS: (Signature) [signature]

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: 8260, Carbon Range, Metals

REMARKS: Page 2 of 3
012474

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	8260	Carbon Range	Metals						REMARKS
1	12/4/01				TEMP 1 @ 50'		X													*HOLD
2	↓				" " @ 55'		↓													↓
3					" " @ 60'															
4					TEMP 3 @ 5'															
5					" " @ 10'															
6					" " @ 15'															
7					" " @ 20'															
8					" " @ 25'															
9					" " @ 30'															
10					" " @ 35'															
11					" " @ 40'															
12					" " @ 45'															
13					" " @ 50'															CHECK ONE BOX:
14					" " @ 55'															✓ DISPOSE SAMPLES
15	↓				" " @ 60'		↓													RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	12/5/01 1430				
Relinquished by: (Signature)	Date/Time	Received by: (Signature) [signature]	Date/Time 12-5-01 2:30		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT — Fax 644-5721
Company West Coast Environmental
Address
Phone 644-7976 Contact Larry Lewis/Peter Thanos

BILL TO: — P.O.#
Company
Address
Phone Contact

PROJ. NO. 8A210 — PROJECT NAME SMCC BASE

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

REMARKS
Page 2 of 3
012474

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #/TYPE	ANALYSIS: Carbon Range / Metals / Gold	REMARKS
14	12/4/01				TEMP 3 @ 65'		X					*Hold
17	12/5/01				TEMP 2 @ 5		X					
18					10							
19					15							
20					20							
21					25							
22					30							
23					35							
24					40							
25					45							
26					50							
27					55							
28					60							
29					65							

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	12/5/01 1430				
Relinquished by: (Signature)	Date/Time	Received by (Signature)	Date/Time		
		John Sonetti	12-5-01 2:30		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY CANARY COPY PINK COPY

CAMPBELL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

Company WEST COAST ENVIRONMENTAL
Address
Phone 644-7976 Contact Larry Lewis/Peter Thaus

Company
Address
Phone Contact

CHAIN OF CUSTODY RECORD

PROJ. NO: 8A240
PROJECT NAME: SMCC- BAE

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SEDIMENT	OTHER	CONTAINER #/TYPE	ANALYSIS: 8260 Carbon Range Metals * CAM
30	12/5/01				TEMP 1	X				3 APV	✓ ✓ ✓
31	12/5/01				TEMP 2	X				3 APV	✓ ✓ ✓
32	12/5/01				TEMP 3	X				3 APV	✓ ✓ ✓
34					TRIP BLANK (JD)	Y				2 V	X

REMARKS

Pg. 3 of 3

012474 - Further sample before Analysis

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	12/5/01 12:30				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
			12-5-01 2:30		

TURN AROUND TIME

24 Hr.		X	5 Day
48 Hr.			Standard
72 Hr.			Other

WHITE COPY CANARY COPY PINK COPY

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1@10'	01-12-0180-2	12/04/01	Solid	N/A	12/05/01	120501A8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	ND	5.0	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-120		Toluene-d8	99	81-117	
1,4-Bromofluorobenzene	101	74-121					

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1@20'	01-12-0180-4	12/04/01	Solid	N/A	12/06/01	120501BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	ND	5.0	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	80-120		Toluene-d8	102	81-117	
1,4-Bromofluorobenzene	99	74-121					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1@30'	01-12-0180-6	12/04/01	Solid	N/A	12/06/01	120501BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	9.4	5.0	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	39	5	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-120		Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	97	74-121					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1@40'	01-12-0180-8	12/04/01	Solid	N/A	12/06/01	120501BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	12	5	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	20	5	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	80-120		Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	97	74-121					

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1@50'	01-12-0180-10	12/04/01	Solid	N/A	12/06/01	120501BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	38	5	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	90	5	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-120		Toluene-d8	102	81-117	
1,4-Bromofluorobenzene	96	74-121					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	099-10-005-2,242	N/A	Solid	N/A	12/05/01	120501AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	ND	5.0	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-120		Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	101	74-121					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: N/A
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	099-10-005-2,244	N/A	Solid	N/A	12/06/01	120501BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	1		ug/kg	1,3-Dichloropropane	ND	5.0	1		ug/kg
Benzene	ND	5.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	5.0	1		ug/kg	1,1-Dichloropropene	ND	5.0	1		ug/kg
Bromochloromethane	ND	5.0	1		ug/kg	c-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromodichloromethane	ND	5.0	1		ug/kg	t-1,3-Dichloropropene	ND	5.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	5.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	50	1		ug/kg
2-Butanone	ND	50	1		ug/kg	Isopropylbenzene	ND	5.0	1		ug/kg
n-Butylbenzene	ND	5.0	1		ug/kg	p-Isopropyltoluene	ND	5.0	1		ug/kg
sec-Butylbenzene	ND	5.0	1		ug/kg	Methylene Chloride	ND	50	1		ug/kg
tert-Butylbenzene	ND	5.0	1		ug/kg	4-Methyl-2-Pentanone	ND	50	1		ug/kg
Carbon Disulfide	ND	50	1		ug/kg	Naphthalene	ND	50	1		ug/kg
Carbon Tetrachloride	ND	5.0	1		ug/kg	n-Propylbenzene	ND	5.0	1		ug/kg
Chlorobenzene	ND	5.0	1		ug/kg	Styrene	ND	5.0	1		ug/kg
Chloroethane	ND	5.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloroform	ND	5.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	5.0	1		ug/kg
Chloromethane	ND	5.0	1		ug/kg	Tetrachloroethene	ND	5.0	1		ug/kg
2-Chlorotoluene	ND	5.0	1		ug/kg	Toluene	ND	5.0	1		ug/kg
4-Chlorotoluene	ND	5.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	10	1		ug/kg
Dibromochloromethane	ND	5.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	5.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	10	1		ug/kg	1,1,1-Trichloroethane	ND	5.0	1		ug/kg
1,2-Dibromoethane	ND	5.0	1		ug/kg	1,1,2-Trichloroethane	ND	5.0	1		ug/kg
Dibromomethane	ND	5.0	1		ug/kg	Trichloroethene	ND	5.0	1		ug/kg
1,2-Dichlorobenzene	ND	5.0	1		ug/kg	Trichlorofluoromethane	ND	50	1		ug/kg
1,3-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,3-Trichloropropane	ND	5.0	1		ug/kg
1,4-Dichlorobenzene	ND	5.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	5.0	1		ug/kg
Dichlorodifluoromethane	ND	5.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	5.0	1		ug/kg
1,1-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Acetate	ND	50	1		ug/kg
1,2-Dichloroethane	ND	5.0	1		ug/kg	Vinyl Chloride	ND	5.0	1		ug/kg
1,1-Dichloroethene	ND	5.0	1		ug/kg	p/m-Xylene	ND	5.0	1		ug/kg
c-1,2-Dichloroethene	ND	5.0	1		ug/kg	o-Xylene	ND	5.0	1		ug/kg
t-1,2-Dichloroethene	ND	5.0	1		ug/kg	Methyl-t-Butyl Ether (MTBE)	ND	5.0	1		ug/kg
1,2-Dichloropropane	ND	5.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	80-120		Toluene-d8	101	81-117	
1,4-Bromofluorobenzene	99	74-121					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: EPA 5030B
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#1	01-12-0180-14	12/04/01	Aqueous	N/A	12/05/01	120501AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1		ug/L	1,3-Dichloropropane	ND	1.0	1		ug/L
Benzene	ND	0.50	1		ug/L	2,2-Dichloropropane	ND	1.0	1		ug/L
Bromobenzene	ND	1.0	1		ug/L	1,1-Dichloropropene	ND	1.0	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L	c-1,3-Dichloropropene	ND	0.50	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L	t-1,3-Dichloropropene	ND	0.50	1		ug/L
Bromoform	ND	1.0	1		ug/L	Ethylbenzene	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L	2-Hexanone	ND	10	1		ug/L
2-Butanone	ND	10	1		ug/L	Isopropylbenzene	ND	1.0	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L	p-Isopropyltoluene	ND	1.0	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L	Methylene Chloride	ND	10	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pentanone	ND	10	1		ug/L
Carbon Disulfide	ND	10	1		ug/L	Naphthalene	ND	10	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	n-Propylbenzene	ND	1.0	1		ug/L
Chlorobenzene	ND	1.0	1		ug/L	Styrene	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/L
Chloroform	6.2	1.0	1		ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L	Tetrachloroethene	5.8	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L	Toluene	ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L	1,2,3-Trichlorobenzene	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L	1,2,4-Trichlorobenzene	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	1,1,1-Trichloroethane	4.5	1.0	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	1,1,2-Trichloroethane	16	1	1		ug/L
Dibromomethane	ND	1.0	1		ug/L	Trichloroethene	260	5	5	D	ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L	Trichlorofluoromethane	ND	10	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L	1,2,3-Trichloropropane	ND	5.0	1		ug/L
1,4-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethylbenzene	ND	1.0	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	1,3,5-Trimethylbenzene	ND	1.0	1		ug/L
1,1-Dichloroethane	11	1	1		ug/L	Vinyl Acetate	ND	10	1		ug/L
1,2-Dichloroethane	10	0.50	1		ug/L	Vinyl Chloride	ND	0.50	1		ug/L
1,1-Dichloroethene	370	5	5	D	ug/L	p/m-Xylene	ND	1.0	1		ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L	o-Xylene	ND	1.0	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L	Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ug/L
1,2-Dichloropropane	28	1	1		ug/L						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	93	86-118		Toluene-d8	103	88-110	
1,4-Bromofluorobenzene	94	86-115					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: EPA 5030B
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP#3	01-12-0180-27	12/05/01	Aqueous	N/A	12/05/01	120501AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1		ug/L	1,3-Dichloropropane	ND	1.0	1		ug/L
Benzene	ND	0.50	1		ug/L	2,2-Dichloropropane	ND	1.0	1		ug/L
Bromobenzene	ND	1.0	1		ug/L	1,1-Dichloropropene	ND	1.0	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L	c-1,3-Dichloropropene	ND	0.50	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L	t-1,3-Dichloropropene	ND	0.50	1		ug/L
Bromoform	ND	1.0	1		ug/L	Ethylbenzene	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L	2-Hexanone	ND	10	1		ug/L
2-Butanone	ND	10	1		ug/L	Isopropylbenzene	ND	1.0	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L	p-Isopropyltoluene	ND	1.0	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L	Methylene Chloride	ND	10	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L	4-Methyl-2-Pentanone	ND	10	1		ug/L
Carbon Disulfide	ND	10	1		ug/L	Naphthalene	ND	10	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L	n-Propylbenzene	ND	1.0	1		ug/L
Chlorobenzene	ND	1.0	1		ug/L	Styrene	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/L
Chloroform	ND	1.0	1		ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L	Tetrachloroethene	ND	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L	Toluene	ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L	1,2,3-Trichlorobenzene	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L	1,2,4-Trichlorobenzene	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L	1,1,1-Trichloroethane	ND	1.0	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L	1,1,2-Trichloroethane	ND	1.0	1		ug/L
Dibromomethane	ND	1.0	1		ug/L	Trichloroethene	ND	1.0	1		ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L	Trichlorofluoromethane	ND	10	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L	1,2,3-Trichloropropane	ND	5.0	1		ug/L
1,4-Dichlorobenzene	ND	1.0	1		ug/L	1,2,4-Trimethylbenzene	ND	1.0	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L	1,3,5-Trimethylbenzene	ND	1.0	1		ug/L
1,1-Dichloroethane	ND	1.0	1		ug/L	Vinyl Acetate	ND	10	1		ug/L
1,2-Dichloroethane	ND	0.50	1		ug/L	Vinyl Chloride	ND	0.50	1		ug/L
1,1-Dichloroethene	4.0	1.0	1		ug/L	p/m-Xylene	ND	1.0	1		ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L	o-Xylene	ND	1.0	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L	Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	86-118		Toluene-d8	103	88-110	
1,4-Bromofluorobenzene	95	86-115					

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: EPA 5030B
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TEMP #2	01-12-0180-41	12/05/01	Aqueous	N/A	12/06/01	120501BW

Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1		ug/L
Benzene	ND	0.50	1		ug/L
Bromobenzene	ND	1.0	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L
Bromoform	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L
2-Butanone	ND	10	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L
Carbon Disulfide	ND	10	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L
Chlorobenzene	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L
Chloroform	ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L
Dibromomethane	ND	1.0	1		ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L
1,4-Dichlorobenzene	ND	1.0	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L
1,1-Dichloroethane	ND	1.0	1		ug/L
1,2-Dichloroethane	ND	0.50	1		ug/L
1,1-Dichloroethene	28	1	1		ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	86-118	
1,4-Bromofluorobenzene	96	86-115	

Parameter	Result	RL	DF	Qual	Units
1,3-Dichloropropane	ND	1.0	1		ug/L
2,2-Dichloropropane	ND	1.0	1		ug/L
1,1-Dichloropropene	ND	1.0	1		ug/L
c-1,3-Dichloropropene	ND	0.50	1		ug/L
t-1,3-Dichloropropene	ND	0.50	1		ug/L
Ethylbenzene	ND	1.0	1		ug/L
2-Hexanone	ND	10	1		ug/L
Isopropylbenzene	ND	1.0	1		ug/L
p-Isopropyltoluene	ND	1.0	1		ug/L
Methylene Chloride	ND	10	1		ug/L
4-Methyl-2-Pentanone	ND	10	1		ug/L
Naphthalene	ND	10	1		ug/L
n-Propylbenzene	ND	1.0	1		ug/L
Styrene	ND	1.0	1		ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/L
Tetrachloroethene	ND	1.0	1		ug/L
Toluene	ND	1.0	1		ug/L
1,2,3-Trichlorobenzene	ND	1.0	1		ug/L
1,2,4-Trichlorobenzene	ND	1.0	1		ug/L
1,1,1-Trichloroethane	ND	1.0	1		ug/L
1,1,2-Trichloroethane	ND	1.0	1		ug/L
Trichloroethene	3.0	1.0	1		ug/L
Trichlorofluoromethane	ND	10	1		ug/L
1,2,3-Trichloropropane	ND	5.0	1		ug/L
1,2,4-Trimethylbenzene	ND	1.0	1		ug/L
1,3,5-Trimethylbenzene	ND	1.0	1		ug/L
Vinyl Acetate	ND	10	1		ug/L
Vinyl Chloride	ND	0.50	1		ug/L
p/m-Xylene	ND	1.0	1		ug/L
o-Xylene	ND	1.0	1		ug/L
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Toluene-d8	102	88-110	

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell
16735 Von Karman Avenue, Suite 200
Irvine, CA 90606-4953

Date Received: 12/05/01
Work Order No: 01-12-0180
Preparation: EPA 5030B
Method: EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	099-10-006-3,999	N/A	Aqueous	N/A	12/05/01	12050 1AW

Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1		ug/L
Benzene	ND	0.50	1		ug/L
Bromobenzene	ND	1.0	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L
Bromoform	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L
2-Butanone	ND	10	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L
Carbon Disulfide	ND	10	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L
Chlorobenzene	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L
Chloroform	ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L
Dibromomethane	ND	1.0	1		ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L
1,4-Dichlorobenzene	ND	1.0	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L
1,1-Dichloroethane	ND	1.0	1		ug/L
1,2-Dichloroethane	ND	0.50	1		ug/L
1,1-Dichloroethene	ND	1.0	1		ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	93	86-118	
1,4-Bromofluorobenzene	96	86-115	

Parameter	Result	RL	DF	Qual	Units
1,3-Dichloropropane	ND	1.0	1		ug/L
2,2-Dichloropropane	ND	1.0	1		ug/L
1,1-Dichloropropene	ND	1.0	1		ug/L
c-1,3-Dichloropropene	ND	0.50	1		ug/L
t-1,3-Dichloropropene	ND	0.50	1		ug/L
Ethylbenzene	ND	1.0	1		ug/L
2-Hexanone	ND	10	1		ug/L
Isopropylbenzene	ND	1.0	1		ug/L
p-Isopropyltoluene	ND	1.0	1		ug/L
Methylene Chloride	ND	10	1		ug/L
4-Methyl-2-Pentanone	ND	10	1		ug/L
Naphthalene	ND	10	1		ug/L
n-Propylbenzene	ND	1.0	1		ug/L
Styrene	ND	1.0	1		ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/L
Tetrachloroethene	ND	1.0	1		ug/L
Toluene	ND	1.0	1		ug/L
1,2,3-Trichlorobenzene	ND	1.0	1		ug/L
1,2,4-Trichlorobenzene	ND	1.0	1		ug/L
1,1,1-Trichloroethane	ND	1.0	1		ug/L
1,1,2-Trichloroethane	ND	1.0	1		ug/L
Trichloroethene	ND	1.0	1		ug/L
Trichlorofluoromethane	ND	10	1		ug/L
1,2,3-Trichloropropane	ND	5.0	1		ug/L
1,2,4-Trimethylbenzene	ND	1.0	1		ug/L
1,3,5-Trimethylbenzene	ND	1.0	1		ug/L
Vinyl Acetate	ND	10	1		ug/L
Vinyl Chloride	ND	0.50	1		ug/L
p/m-Xylene	ND	1.0	1		ug/L
o-Xylene	ND	1.0	1		ug/L
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Toluene-d8	101	88-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Brown and Caldwell		Date Received:	12/05/01
16735 Von Karman Avenue, Suite 200		Work Order No:	01-12-0180
Irvine, CA 90606-4953		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: BEA System

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	099-10-006-[illegible]	N/A	Aqueous	N/A	12/06/01	[illegible]

Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1		ug/L
Benzene	ND	0.50	1		ug/L
Bromobenzene	ND	1.0	1		ug/L
Bromochloromethane	ND	1.0	1		ug/L
Bromodichloromethane	ND	1.0	1		ug/L
Bromoform	ND	1.0	1		ug/L
Bromomethane	ND	1.0	1		ug/L
2-Butanone	ND	10	1		ug/L
n-Butylbenzene	ND	1.0	1		ug/L
sec-Butylbenzene	ND	1.0	1		ug/L
tert-Butylbenzene	ND	1.0	1		ug/L
Carbon Disulfide	ND	10	1		ug/L
Carbon Tetrachloride	ND	0.50	1		ug/L
Chlorobenzene	ND	1.0	1		ug/L
Chloroethane	ND	1.0	1		ug/L
Chloroform	ND	1.0	1		ug/L
Chloromethane	ND	1.0	1		ug/L
2-Chlorotoluene	ND	1.0	1		ug/L
4-Chlorotoluene	ND	1.0	1		ug/L
Dibromochloromethane	ND	1.0	1		ug/L
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/L
1,2-Dibromoethane	ND	1.0	1		ug/L
Dibromomethane	ND	1.0	1		ug/L
1,2-Dichlorobenzene	ND	1.0	1		ug/L
1,3-Dichlorobenzene	ND	1.0	1		ug/L
1,4-Dichlorobenzene	ND	1.0	1		ug/L
Dichlorodifluoromethane	ND	1.0	1		ug/L
1,1-Dichloroethane	ND	1.0	1		ug/L
1,2-Dichloroethane	ND	0.50	1		ug/L
1,1-Dichloroethene	ND	1.0	1		ug/L
c-1,2-Dichloroethene	ND	1.0	1		ug/L
t-1,2-Dichloroethene	ND	1.0	1		ug/L
1,2-Dichloropropane	ND	1.0	1		ug/L
1,3-Dichloropropane	ND	1.0	1		ug/L
2,2-Dichloropropane	ND	1.0	1		ug/L
1,1-Dichloropropene	ND	1.0	1		ug/L
c-1,3-Dichloropropene	ND	0.50	1		ug/L
t-1,3-Dichloropropene	ND	0.50	1		ug/L
Ethylbenzene	ND	1.0	1		ug/L
2-Hexanone	ND	10	1		ug/L
Isopropylbenzene	ND	1.0	1		ug/L
p-Isopropyltoluene	ND	1.0	1		ug/L
Methylene Chloride	ND	10	1		ug/L
4-Methyl-2-Pentanone	ND	10	1		ug/L
Naphthalene	ND	10	1		ug/L
n-Propylbenzene	ND	1.0	1		ug/L
Styrene	ND	1.0	1		ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/L
Tetrachloroethene	ND	1.0	1		ug/L
Toluene	ND	1.0	1		ug/L
1,2,3-Trichlorobenzene	ND	1.0	1		ug/L
1,2,4-Trichlorobenzene	ND	1.0	1		ug/L
1,1,1-Trichloroethane	ND	1.0	1		ug/L
1,1,2-Trichloroethane	ND	1.0	1		ug/L
Trichloroethene	ND	1.0	1		ug/L
Trichlorofluoromethane	ND	10	1		ug/L
1,2,3-Trichloropropane	ND	5.0	1		ug/L
1,2,4-Trimethylbenzene	ND	1.0	1		ug/L
1,3,5-Trimethylbenzene	ND	1.0	1		ug/L
Vinyl Acetate	ND	10	1		ug/L
Vinyl Chloride	ND	0.50	1		ug/L
p/m-Xylene	ND	1.0	1		ug/L
o-Xylene	ND	1.0	1		ug/L
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	86-118	
1,4-Bromofluorobenzene	96	86-115	
Toluene-d8	103	88-110	

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

Del Mar Analytical
2854 ... Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16523 Sherman Way, Suite C-10, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338
9484 Chesapeake Ct., Suite 606, San Diego, CA 92123 (619) 505-9596 FAX (619) 505-9689

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10995

CHAIN OF CUSTODY FORM

Client Name/Address:	Project/PO Number:
Brown & Caldwell 16735 Von Karman Ave, Suite 200 Irvine, CA. 92606	BAE Systems
Project Manager: Reinhart Ruhmke	**Phone Number:** 949-260-6146
Sampler: Sandy English	**Fax Number:** 949-474-0940

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservatives	Analysis Required: HOLD	Analysis Required: 8260B	Special Instructions
TEMP#1 @ 5'	SOIL	BRASS	1	12-4-01 7:57		X		
TEMP#1 @ 10'				12-4-01 8:00			X	
TEMP#1 @ 15'				12-4-01 8:06		X		
TEMP#1 @ 20'				12-4-01 8:12			X	
TEMP#1 @ 25'				12-4-01 8:18		X		
TEMP#1 @ 30'				12-4-01 8:26			X	
TEMP#1 @ 35'				12-4-01 8:34		X		
TEMP#1 @ 40'				12-4-01 8:43			X	
TEMP#1 @ 45'				12-4-01 8:50		X		
TEMP#1 @ 50'				12-4-01 9:00			X	
TEMP#1 @ 55'				12-4-01 9:07		X		
TEMP#1 @ 60'				12-4-01 9:15		X		
TEMP#1 @ 65'				12-4-01 9:37		X		
TEMP#1	WATER	VOA	3	12-5-01	HCL		X	

Relinquished By: Sandra L. English	Date /Time: 12/5/01 / 12:31	Received by:	Date /Time: 12/5/01 1335
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time: 12/5/01 1345	Received in Lab by:	Date /Time: 12/5/01 1400

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours X 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical
2 ... Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
7401 W 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1339
9484 Chesapeake Dri., Suite 805, San Diego, CA 92123 (619) 505-9595 FAX (619) 505-9689

0180 10998

CHAIN OF CUSTODY FORM

Client Name/Address:	Project/PO Number:
Brown & Caldwell 16735 Von Karman Ave., Suite 200 Irvine, CA. 92606	BAE Systems
Project Manager: Reinhart Rohmke	**Phone Number:** 949-260-6146
Sampler: Sandy English	**Fax Number:** 949-474-0940

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservatives	Analysis Required: HOLD	Analysis Required: 8260B	Special Instructions
TEMP#3 @ 5'	SOIL	BRASS	1	12-4-01 12:08		X		
TEMP#3@ 10'	"	"	"	12-4-01 12:10		X		
TEMP#3@ 15'	"	"	"	12-4-01 12:15		X		
TEMP#3@ 20'	"	"	"	12-4-01 12:23		X		
TEMP#3@ 25'	"	"	"	12-4-01 12:29		X		
TEMP#3@ 30'	"	"	"	12-4-01 12:37		X		
TEMP#3@ 35'	"	"	"	12-4-01 12:45		X		
TEMP#3@ 40'	"	"	"	12-4-01 12:53		X		
TEMP#3@ 45'	"	"	"	12-4-01 13:07		X		
TEMP#3@ 50'	"	"	"	12-4-01 13:13		X		
TEMP#3@ 55'	"	"	"	12-4-01 13:23		X		
TEMP#3@ 60'	"	"	"	12-4-01 13:32		X		
TEMP#3	WATER	VOA	3	12-5-01	HCL		X	

Relinquished By: Sandra L. English	Date /Time: 12/5/01 12:31	Received by:	Date /Time: 12/5/01 1235
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time: 12/5/01 1345	Received in Lab by:	Date /Time: 12-4-01 1400

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours X 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
Intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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9484 Chesapeake Dri., Suite 805, San Diego, CA 92123 (619) 505-9596 FAX (619) 505-9689

0180

10999

CHAIN OF CUSTODY FORM

Client Name/Address:
Brown & Caldwell
16735 Von Karman Ave, Suite 200
Irvine, CA. 92606

Project/PO Number:
BAE Systems

Project Manager:
Reinhart Ruhmke

Phone Number:
949-260-6146

Sampler: Sandy English

Fax Number:
949-474-0940

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservatives	Analysis Required: HOLD	Analysis Required: 8260B	Special Instructions
TEMP#2 @ 5'	SOIL	BRASS	1	12-5-01 8:40		X		
TEMP#2@10'	↓	↓	↓	12-5-01 8:48		X		
TEMP#2@15'				12-5-01 8:52		X		
TEMP#2@20'				12-5-01 8:56		X		
TEMP#2@25'				12-5-01 9:08		X		
TEMP#2@30'				12-5-01 9:18		X		
TEMP#2@35'				12-5-01 9:23		X		
TEMP#2@40'				12-5-01 9:34		X		
TEMP#2@45'				12-5-01 9:42		X		
TEMP#2@50'				12-5-01 9:55		X		
TEMP#2@55'				12-5-01 10:00		X		
TEMP#2@60'				12-5-01 10:07		X		
TEMP#2@65'	↓	↓	↓	12-5-01 10:14		X		

Relinquished By: Sandra L English Date /Time: 12/5/11 12:31
Received by: Date /Time: 12/5/01 1235

Relinquished By: Date /Time:
Received by: Date /Time:

Relinquished By: Date /Time: 12/5/01 1345
Received in Lab by: Date /Time: 12-5-01 1400

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours X 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

[redacted] LABORATORIES, [redacted]
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-5-01

Page 4 of 4

LABORATORY CLIENT: Brown & Caldwell
ADDRESS: 16755 Von Karman Avenue, Suite 200
CITY: Irvine STATE: CA ZIP: 92606
TEL: 949-260-6146 FAX: 949-474-0940 E-MAIL:
TURNAROUND TIME: ☐ SAME DAY ☑ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ COELT REPORTING
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: BAE Systems
PROJECT CONTACT: Reinhart Ruhmke
SAMPLER(S): (SIGNATURE) Sandra L. Englert
COELT LOG CODE: ☐☐☐☐
P.O. NO.:
LAB USE ONLY: 1 2 - C 1 8 a
COOLER RECEIPT TEMP = °C

REQUESTED ANALYSES

LAB USE ONLY	GEIMS ID	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)
41		TEMP#2	12/5/01	13:53	WATER	3**					X								

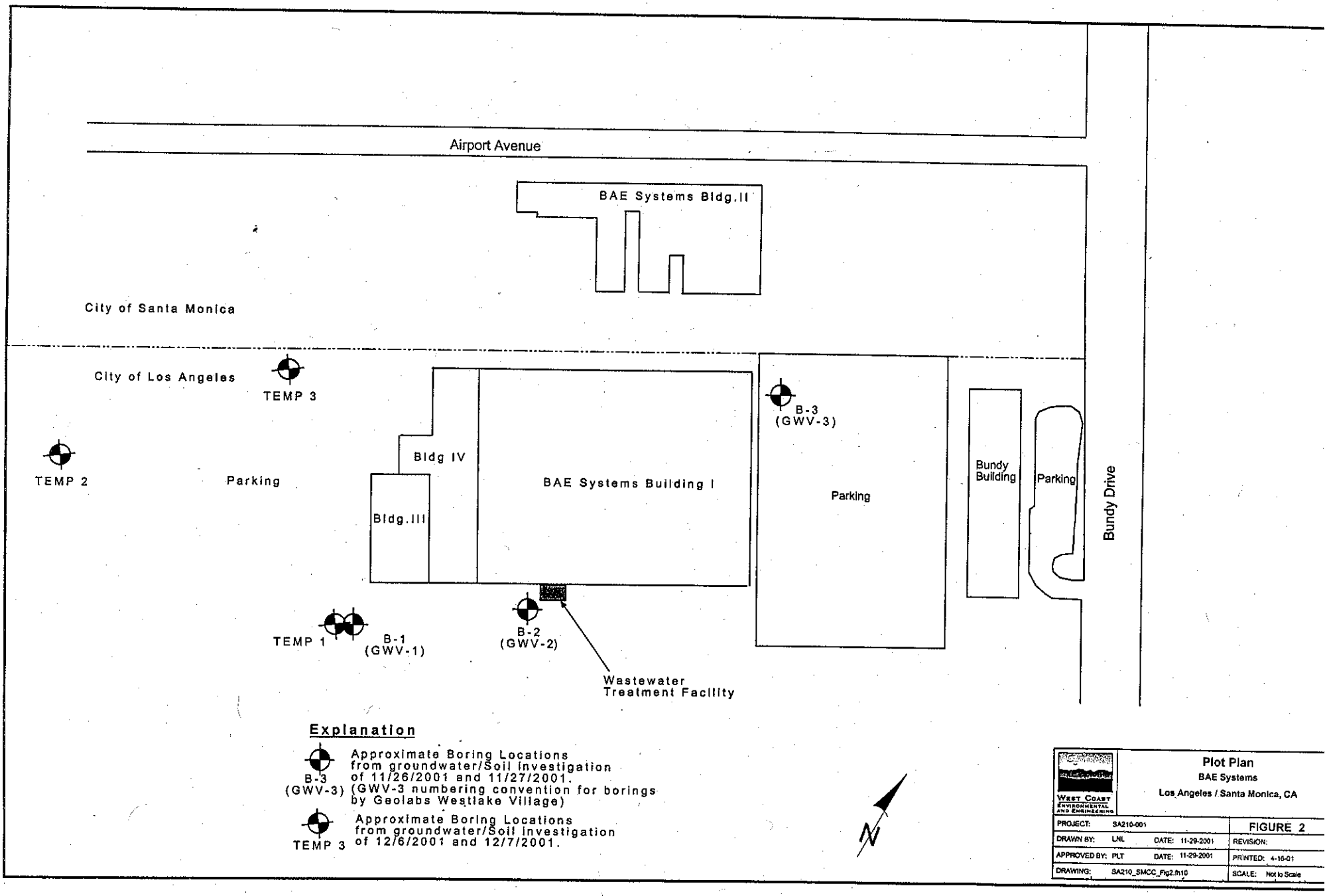
Relinquished by: (Signature) Sandra L. Englert	Received by: (Signature)	Date: 12-5-01	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 12/5/01	Time: 1740

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

09/10/01 Revision

TOTAL P.17

Q&Q Graphic (714) 898-9702



West Coast Environmental and Engineering

Plot Plan
BAE Systems
Los Angeles / Santa Monica, CA

PROJECT:	SA210-001		FIGURE 2
DRAWN BY:	LNL	DATE: 11-29-2001	REVISION:
APPROVED BY:	PLT	DATE: 11-29-2001	PRINTED: 4-16-01
DRAWING:	SA210_SMCC_Fig2.fh10		SCALE: Not to Scale

GEOLABS-WESTLAKE VILLAGE
Foundation and Soils Engineering, Geology
31119 Via Colinas, Suite 502 • Westlake Village, CA 91362
Voice: (818) 889-2562 (805) 495-2197
Fax: (818) 889-2995 (805) 379-2603
a dba of
R & R Services
Corporation

LEE PAUL
AUG 20 2003
INSPECTION

August 19, 2003
W.O. 8266-Bundy

Santa Monica College
1900 Pico Boulevard
Santa Monica, California 90405

Attention: Mr. Lee Paul

SUBJECT: Supplemental Geotechnical Investigation, Proposed Driveway and Retaining Walls, 3171 S. Bundy Drive, Los Angeles, California

Reference: Geolabs-Westlake Village, July 29, 2003; Geotechnical Investigation of Proposed Driveway and Retaining Walls, 3171 S. Bundy Drive, Los Angeles, California

Mr. Paul,

In accordance with your request, we are presenting this supplemental report to provide additional data obtained during excavation of test pits performed on August 18, 2003 at the site. Recommendations provided in the referenced report remain applicable unless superceded herein.

The scope of work for this project included logging of seven exploratory test pits excavated with a backhoe, review of previous work pertinent to our purpose and readily available to our office, soil engineering analysis of assembled data, and preparation of this report. Field data and the approximate locations of exploratory excavations are shown on the enclosed geologic map (Plate 1). Descriptions of the materials encountered are described on the enclosed logs (TP1-TP7). Cross sections have been revised and included as Plates 4.1 and 4.2.

EARTH MATERIALS

Terrace Deposits at the site consist primarily of fine sand with trace silt, in a dense and moist condition. However, the upper 18 to 24-inches of the Terrace Deposits are typically weathered

GREG BROWN

(slightly moist, porous, and containing roots and rootlets).

Throughout the area investigated, Terrace Deposits are mantled by a variable thickness of fill. These fill soils do not appear to be derived from Terrace Deposits at the site. Generally, they consist of silty to clayey sand in a loose to medium dense and dry to moist condition. The fill typically contains roots and/or rootlets.

The maximum thickness of fill observed in the test pits was approximately 5 feet in test pit TP3. Along the proposed retaining wall alignment fill and weathered Terrace Deposit was on the order of 2 to 3 ½ feet and 2 to 4 feet, respectively (total removals approximately 4 to 6 feet).

UTILITY LINES OBSERVED

The following discussion is to aid the contractor during construction but in no way should be construed as fact or exact locations of existing utility lines. A number of utility lines, both active and abandoned, were observed in recent test pits.

Test pit TP3 was initially excavated approximately 3 feet west of its location depicted on the enclosed geologic map. However, at approximately 3 feet below existing grade a french drain was encountered. It consisted of a 6-inch perforated drain with rock surrounding the pipe. It appeared to be directed south-southeast from the corner of the existing building.

A number of utility lines were observed during excavation of test pit TP4. Three small air hoses (approximately ¼-inch diameter) were observed at approximately 6-inches below existing grade. A 1 to 2-inch plastic pipe was observed at approximately 1 foot below existing grade. Both the air hose lines and the plastic pipe were running roughly parallel to the side of the existing building. An above ground metal water line was also observed at this location.

Test pit TP5 encountered a 2 ½ inch metal pipe (gas line?) at approximately 2 ½ feet below

existing grade. In addition, a 4 to 6-inch pipe (storm drain?) was observed at approximately 4 feet below existing grade. Both lines are running south-southeast from the existing building.

An 8 to 10-inch metal pipe (water line?) was observed in test pit TP6. It was observed at approximately 4 feet below existing grade, roughly parallel to the property line, approximately three feet north of the existing power pole.

GRADING

Removals

All existing fill and weathered Terrace Deposits are not suitable for support of proposed retaining wall, fill, or pavement. Both should be removed to competent Terrace Deposits prior to placing fill or being used for structural support. We anticipate removals in the area of the proposed improvements to be on the order of 4 to 6 feet below existing grade.

Temporary Slopes

Analyses of temporary slope configurations performed during our previous investigation anticipate existing fill soils to be in a medium dense and moist condition. However, recent test pit excavations exposed fill in a loose to medium dense and dry to moist condition. As a result, we recommend temporary slopes be laid back to gradients commensurate with field conditions encountered and OSHA regulations.

Fill Materials

A number of large trees currently exist in the area of the proposed driveway and retaining walls. During construction fill materials will need to be screened of organic debris.

From a geotechnical perspective, asphalt removed from the area to be graded can be incorporated into the fill. However, the asphalt should be reduced to clasts on the order of one-inch

or less in maximum dimension and thoroughly mixed into the fill. Care should be taken to ensure large and/or nested clasts of asphalt are not incorporated into the fill.

CLOSURE

This geotechnical report has been prepared in accordance with generally accepted engineering practices at this time and location. No other warranties, either express or implied, are made as to the professional advice provided under the terms of our agreement and included in this report.

Thank you for this opportunity to be of service. Please do not hesitate to call if you have any questions regarding this report.

Respectfully submitted,
GEOLABS-WESTLAKE VILLAGE

Steve Diem
C.E.G. 2246

REGISTERED GEOLOGIST
STEPHEN D. DIEM
No. 2246
CERTIFIED ENGINEERING GEOLOGIST
Exp. 07/31/04
STATE OF CALIFORNIA

Ronald Z. Shmerling
C.E.G. 1047
R.C.E. 35444

REGISTERED PROFESSIONAL ENGINEER
RONALD Z. SHMERLING
No. 35444
Exp. 09/30/03
CIVIL
STATE OF CALIFORNIA

REGISTERED GEOLOGIST
RONALD Z. SHMERLING
NO. 1047
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

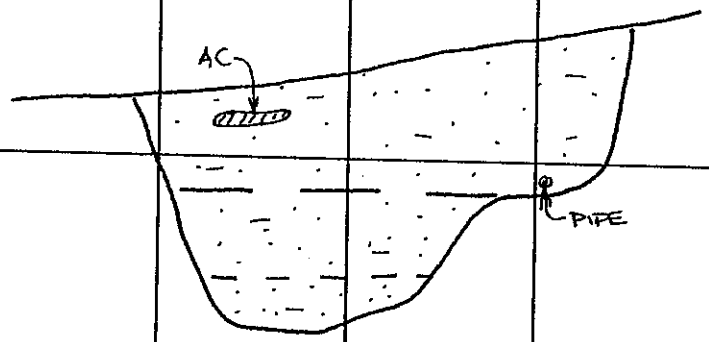
Enclosures:
Geologic Map ..... Plate 1
Cross Sections ..... Plates 4.1 and 4.2
Test Pit Logs ..... Plates TP1-TP7

XC: (4) Addressee
(1) Incledon Kirk Engineers
(1) G.B. Cooke

LOG OF EXCAVATION Trench No. TP1	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 3.5	Fill: Brown to olive brown silty fine grained SAND with trace clasts of gray to dark gray silty CLAY, medium dense, slightly moist to moist, occasional roots (typically 1/8"-1/4"), poorly mixed, trace clasts of debris (asphalt, concrete, rusted metal pipes).	
3.5 - 5.5	Terrace Deposits: Orangish brown fine grained SAND with trace silt, medium dense, moist, porous (frequent, up to 1mm).	
5.5 - 7	Orangish brown fine grianed SAND with trace silt, dense, moist.	

Graphic Log

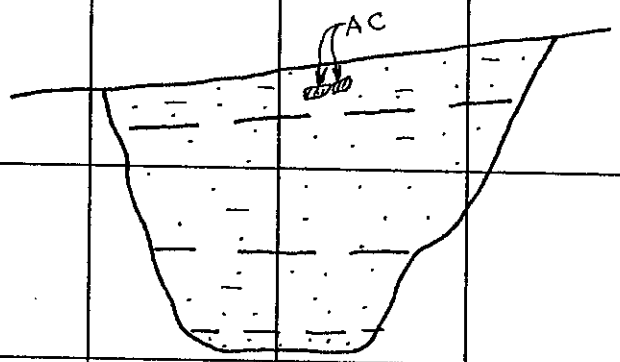


scale 1" = 5'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP1

LOG OF EXCAVATION Trench No. TP2	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 2	Fill: Olive and brown silty SAND, loose to medium dense, slightly moist to moist, debris (asphalt, plastic), trace roots (1/4"-1/2").	
2 - 4	Terrace Deposits: Brown fine grained SAND, medium dense, slightly moist, occasional roots and rootlets.	
4 - 6	Orangish brown to brown fine grained SAND with trace silt, dense, moist, porous (occasional to frequent, up to 1mm diameter).	
6 - 7.2	Orangish brown fine grained SAND with trace silt, dense, moist.	

Graphic Log

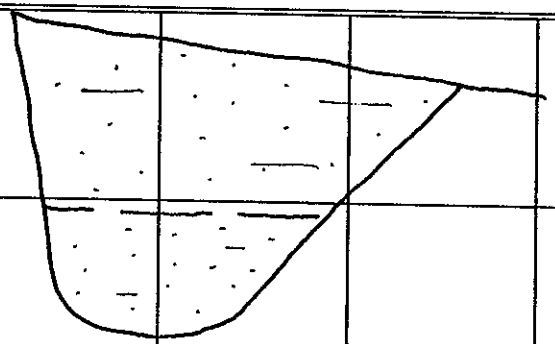


scale 1" = 5'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP2

LOG OF EXCAVATION Trench No. TP3	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 5	Fill: Olive clayey SAND, medium dense, slightly moist to moist, abundant rootlets and roots in upper 3', french drain at 3'.	
5 - 8	Terrace Deposits: Grayish brown fine grained SAND with silt, medium dense, very moist.	

Graphic Log

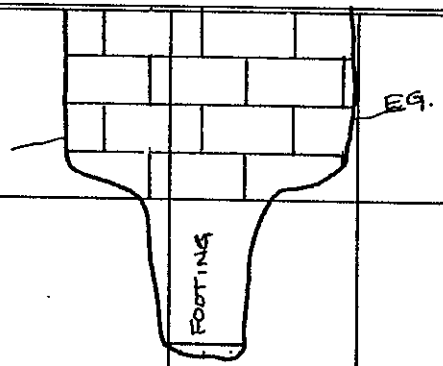


scale 1" = 5'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP3

LOG OF EXCAVATION Trench No. TP4	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 2	Block wall.	
2 - 3.5	Footing (steps under block wall (toward building) about 1").	
3.5 - 3.7	Terrace Deposit:	
0 - 1.3	Fill: Brown silty SAND, loose, moist, abundant roots (up to 12") and rootlets, frequent utility lines (water, sprinkler, air hoses).	SIDE WALL
1.3 - 3.7	Terrace Deposit: Brown fine grained SAND with trace silt, dense, moist, upper 1.3' is porous (occasional to frequent, up to 1mm).	

Graphic Log

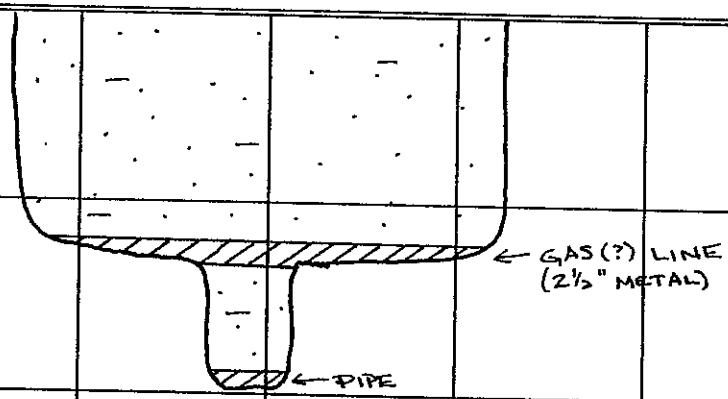


scale 1" = 2'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP4

LOG OF EXCAVATION Trench No. TP5	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 2.5	Fill: Orangish brown silty SAND, loose to medium dense, moist, abundant roots (up to 4" diameter).	
2.5 - 4	Orangish brown silty SAND, medium dense, moist, interbedded with store bought sand.	
@4'	Terrace Deposits: Bottom probes less than 1", dense.	

Graphic Log

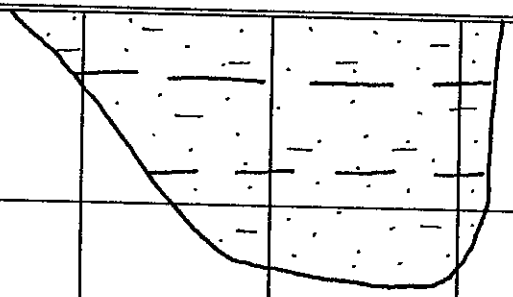


scale 1" = 2'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP5

LOG OF EXCAVATION Trench No. TP6	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

Depth (ft)	Description	Comments
0 - 2	Fill: Brown silty SAND, loose, dry, abundant roots and rootlets (typically 1/4"-1/2").	
2 - 4	Weathered Terrace Deposit: Brown (grading to orangish brown) fine grained SAND with silt, loose to medium dense, slightly moist, porous (frequent to 2mm diameter), rootlets.	
4 - 6	Terrace Deposits: Orangish brown fine grained SAND with trace silt, dense, moist.	

Graphic Log

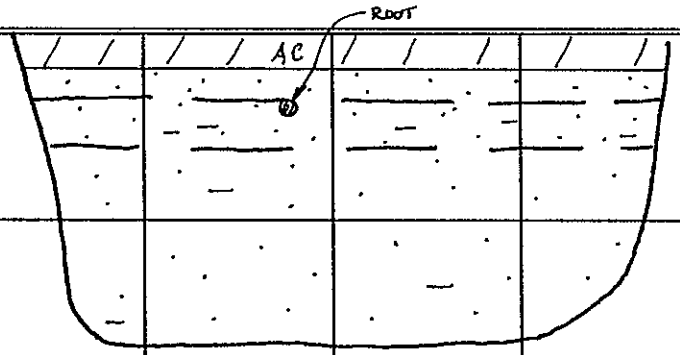


scale 1" = 5'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP6

LOG OF EXCAVATION Trench No. TP7	Logged By: SD	Date Excavated: 8/18/03	Client: Santa Monica College

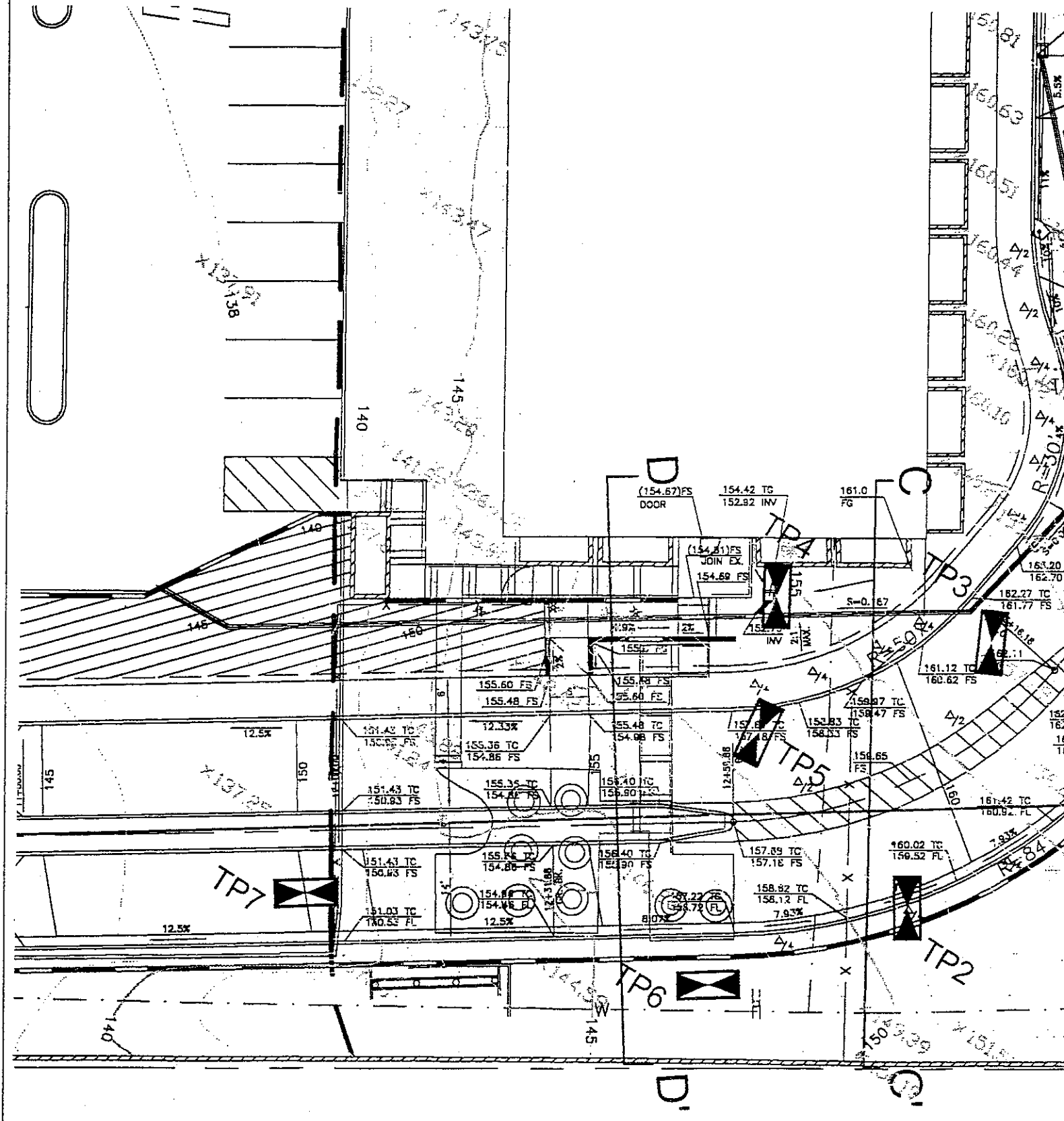
Depth (ft)	Description	Comments
0 - 0.3	4" AC.	
0.3 - 0.6	Approximately 4" of yellow brown SAND, loose, dry, roots (up to 3" diameter).	
0.6 - 1.1	Fill: Brown silty SAND, medium dense, slightly moist, rootlets.	
1.1 - 3.2	Terrace Deposits: Orangish brown fine grained SAND with silt, dense, slightly moist to moist, upper 1.5 feet is porous (occasionally up to 1mm).	

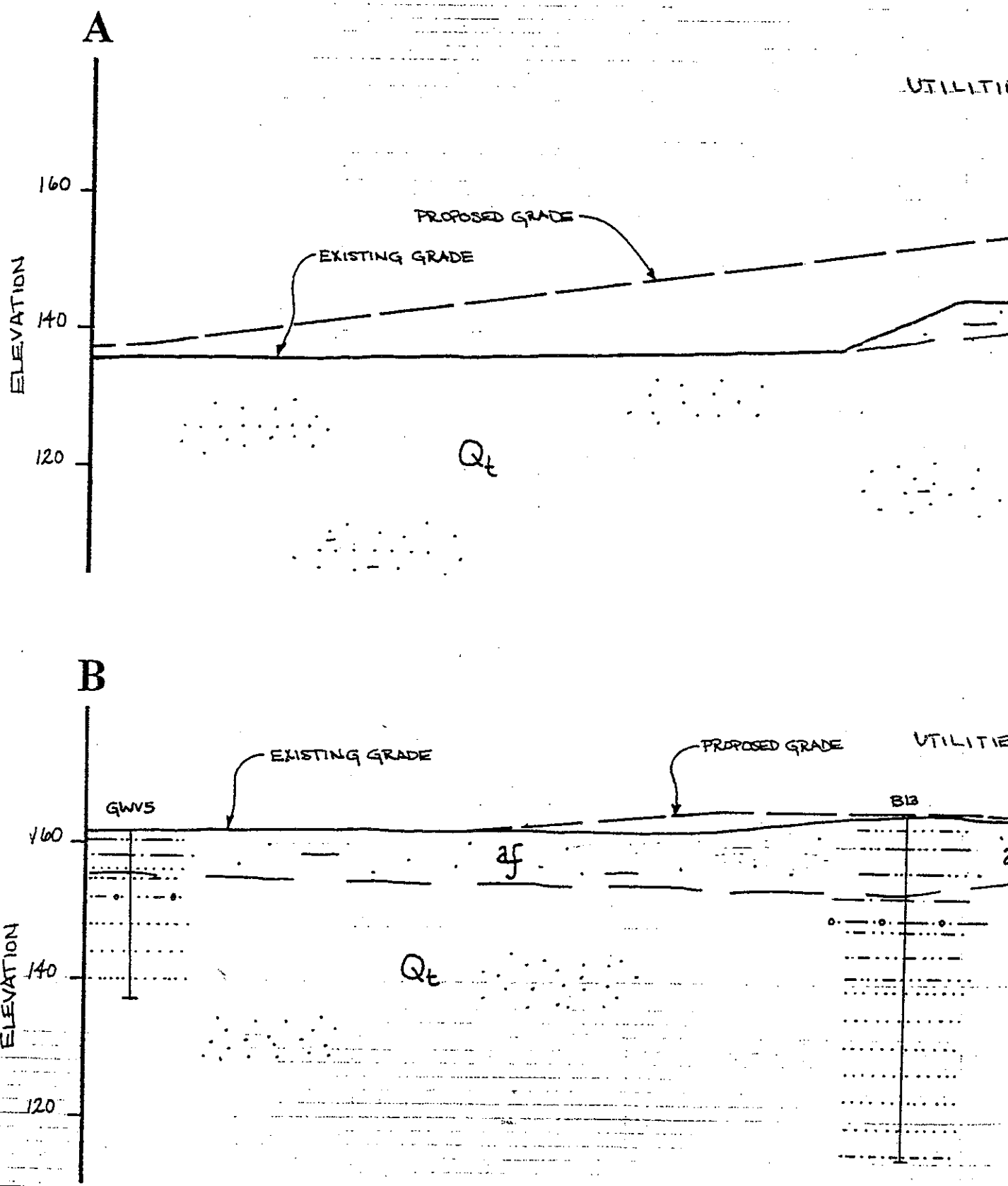
Graphic Log



scale 1" = 2'	GEOLABS-WESTLAKE VILLAGE	W.O. 8266-Bundy	PLATE TP7

Santa Monica Colle




A
UTILITI
160
140
120
ELEVATION
PROPOSED GRADE
EXISTING GRADE
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B
EXISTING GRADE
PROPOSED GRADE
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GWV5
B13
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140
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ELEVATION
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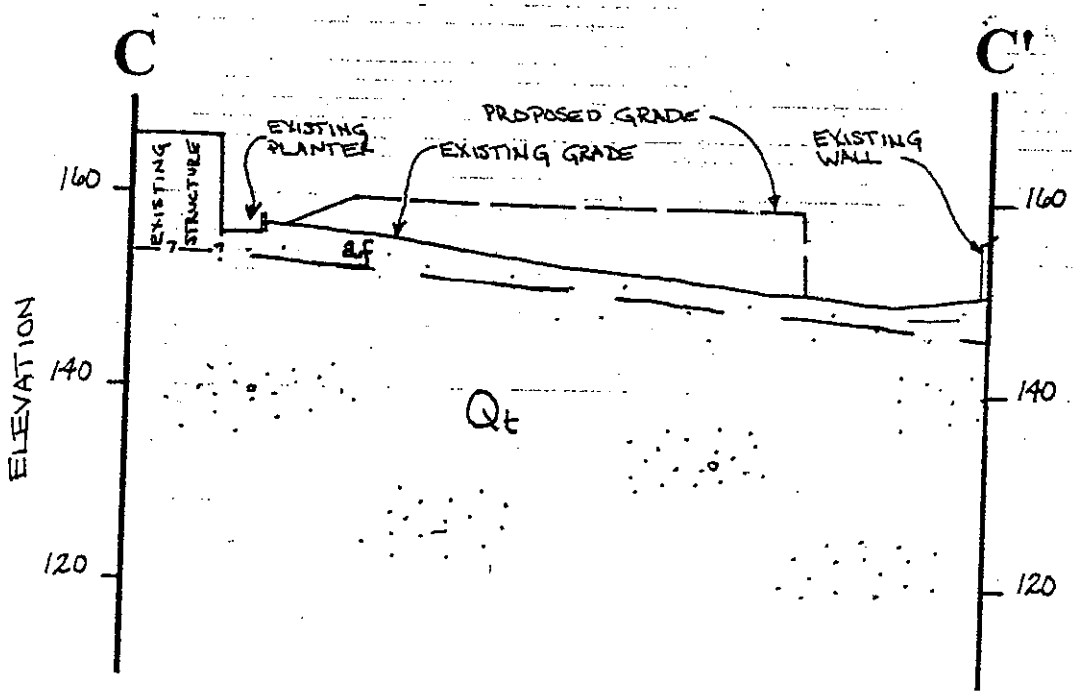
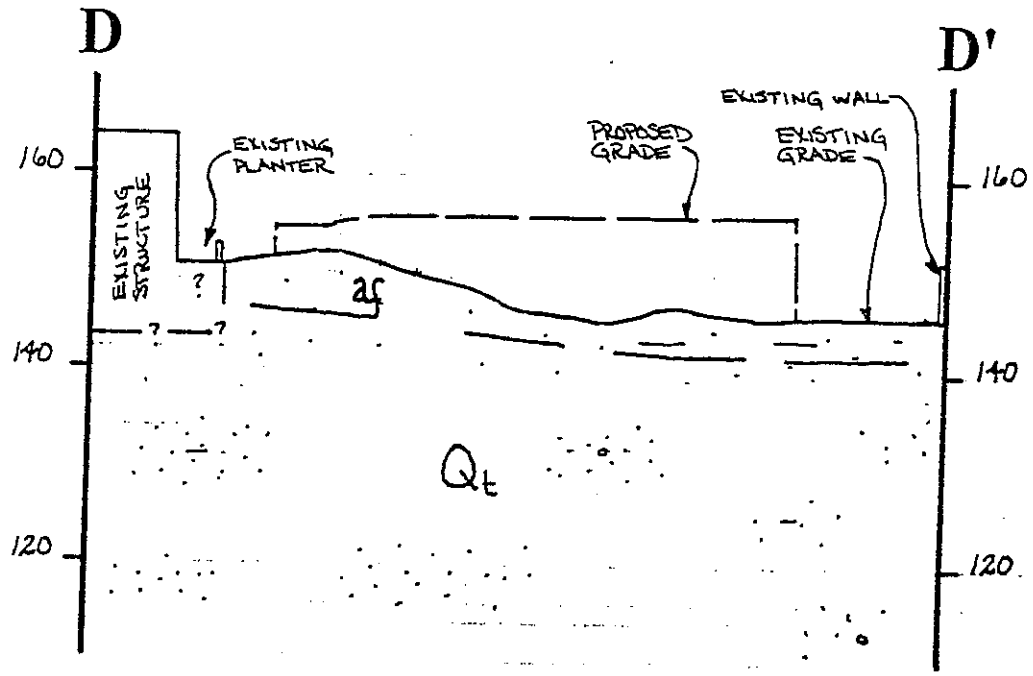
Qt





REVISED 8/19/03

Geolabs – Westlake Village
GEOLOGY AND SOIL ENGINEERING

DATE 7/29/03 BY SD
SCALE 1"=20' W.O. 8266-Bundy

PLATE 4.2

Bulk Sampling for Asbestos, Lead

East Building
(2 Story)

3171 S. Bundy Drive
Santa Monica, California

December 2003

Prepared for Santa Monica College
by
Ellis Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

December 11, 2003
Project 03-492

Ellis

Terms of Use

Ellis Environmental Management, Inc has prepared this report for the exclusive use of Santa Monica College. Ellis will distribute any information regarding this assessment and report only upon the request of the client. This report is based upon data and information obtained during the site visits performed by Ellis personnel for the property identified herein within the time frames allowed. It is based solely upon the condition of the property on the date of such inspection, supplemented by information and data obtained by Ellis and described herein. Information presented is based on professional interpretation of data available as of the month prior to the date of report. Physical testing of subsurface soils or structures was not performed as part of this assessment. No opinion or warranty is made regarding the existence or location of underground structures or potential contaminants, whether stored or released. In evaluating the property, Ellis has relied in good faith upon representations and information furnished by individuals and agencies noted in the report with respect to operations and existing property conditions, and the historic uses of the property to the extent that they have not been contradicted by data obtained from other sources. Use of this report indicates acceptance and agreement that Ellis will incur no responsibility or liability for any loss, injury, claim or damage arising directly or indirectly from any use or reliance on this report, regardless of whether claimed loss, injury, claim or damage was caused by the deficiency, misstatements, omissions, misinterpretations, or fraudulent acts of persons interviewed. Ellis has performed this work, made findings, and proposed recommendations described in this report in accordance with generally accepted environmental science practices for asbestos and lead-paint surveys in effect at the time the work was performed and within the 5-business-day time frame required. Additional information received following issuance of the report may alter initial findings and recommendations. This warranty stands in lieu of all other warranties, expressed or implied. While this report can be used as a guide, it must be understood that it is neither a rejection nor an endorsement of the property, or of the means or methods used in the treatment, storage or disposal of potentially hazardous materials. Changing circumstances in the environment and in the use of the property can alter the conclusions and information contained in the report.

Table of Contents

A. *Executive Summary*

In November of 2003, Ellis was retained by Santa Monica College to conduct an inspection for possible asbestos-containing materials (ACM) and lead-based paint (LBP) at the subject property.

Asbestos has been widely used in the construction of public and commercial buildings since the 1930's. Insulation and fireproofing in more than 750,000 buildings in this country contain some quantity of asbestos. Asbestos building materials and lead based paint are common in buildings constructed prior to 1980. In their normal state, these materials are unlikely to release airborne dust. When broken up or disturbed improperly, however, asbestos fibers or lead dust may become airborne. Inhalation exposure to high levels of asbestos and ingestion of lead paint are associated with an increased incidence of cancer, respiratory disease and organ damage. Any activity that could disturb asbestos materials or lead paint should be undertaken with care and in accordance with applicable law.

At the subject site, asbestos was detected in flooring and flooring mastic, roof penetration mastic, and window putty. Asbestos may also be assumed present but hidden in pipe insulation (inside restroom walls) and in exterior fire door insulation. No damaged paint was identified; lead paint is assumed present beneath fireproofing on "red iron" metal beams.

At the time of inspection, identified or assumed asbestos materials exhibited little or no damage. Removal of asbestos materials in good condition is not required or recommended unless they will be impacted during renovation/demolition activities.

Prior to renovation or demolition, stabilization of peeling and flaking paint is recommended. Remaining materials may be profiled for lead content prior to disposal.

Until they must be removed prior to renovation/demolition, all listed materials may be effectively managed under an asbestos and lead operations and maintenance program.

Personnel working in any building constructed prior to 1980 should be aware that demolition of walls and ceilings might expose (and could damage) hidden asbestos pipe insulation. When exposed, such materials should be isolated from further access until a licensed abatement contractor can remove them.

B. *Methodology*

Ellis' inspection included the assessment of both 'friable' and 'non-friable' materials. A 'friable' asbestos material is one which may be broken or pulverized using normal hand pressure, thereby releasing airborne dust.

The inspection was performed by:

Scott Stiles
Kathy Cummins
Barry Smith

Each of the above Ellis employees are trained and accredited by the EPA to conduct asbestos inspections. The inspection was performed under the direction of Duane E. Behrens, an EPA-registered, Cal-OSHA certified building inspector and asbestos consultant employed by Ellis. Field sampling and assessment were conducted according to 40 CFR Part 763 AHERA (Final Rule). During the inspection, each inspector performed the following tasks:

1. A visual determination of suspect asbestos materials and damaged paint.
2. A physical assessment to determine the condition of suspect materials.
3. Sampling and analysis of observed suspect materials.

Collected bulk samples were analyzed for asbestos at Scientific Laboratories in Carson, California; using the polarized light microscopy (PLM) methods described in 40 CFR 763, Subpart F, Appendix A (AHERA). Results are provided in percent asbestos by measured area and are included as an attachment to this report.

Collected paint samples were analyzed for lead using EPA Method 3050/7420. Scientific Laboratories are accredited under NVLAP, California ELAP (#2322) and AIHA (Lab No. 100530).

C. *Building/Site Description*

The following buildings were inspected:

Building Name		Area (s.f.)
East Building	Lobby	850
	Floor 1	13,620
	Floor 2	13,620
	Roof	14,500
Total Area		42,590

The East Building is a two-story building located at 3171 S. Bundy. Refer to the enclosed drawings inside the back cover. Construction dates are not known. although age of the building is estimated to be in excess of 30 years. The building is currently vacant. Exterior walls are cinder block. Interior walls are drywall on wood or metal studs. Although currently vacant, past use appears to have been administrative and research and development efforts. The building contains numerous offices and open cubicals. The roof is comprised of built up bitumen felts on a wood and concrete.

D. Inaccessible Areas

Access was provided to all general areas of the site. However, not all walls, ceilings and carpet were demolished in order to gain complete visual access. Additional materials (i.e. piping insulation, fire door insulation, asbestos-cement pipes or panels) may be exposed during renovation, and should be sampled and analyzed for asbestos prior to further disturbance.

E. Results

Friable Asbestos Containing Materials

A "friable" asbestos material is one that, if disturbed improperly, could be broken up using normal hand pressure, thereby releasing airborne dust. Removal of a friable asbestos material is considered as Class I asbestos work under revised federal OSHA requirements (29CFR 1926.1101). The following friable asbestos materials were identified:

1. Sprayed-on acoustic ceiling – approximately 2,000 square feet.
2. Pipe elbow and hangar insulation ("TSI") – approximately 36 each. Located in the basement mechanical room and the roof-top mechanical room, elbows, joints and hangars.
3. Interior plaster on cinder block walls (perimeter walls) – approximately 10,470 s.f.

Non-Friable Asbestos Containing Materials

A "non-friable" asbestos material is one that cannot easily be broken up using normal hand pressure. Identified non-friable asbestos materials include:

1. Flooring and mastic throughout – approximately 6,000 s.f. In some areas, multiple layers of flooring are present. In other areas, only the asbestos-containing black mastic remains. Visible material (tile not hidden under carpet) was found to be in generally good condition.
2. Mastic under carpet throughout – approximately 20,000 s.f.
3. Wallboard and joint compound throughout – approximately 78,900 s.f. Non-friable in its current condition, this material may be made friable by demolition.
4. Roof penetration mastic, noted at all roof penetrations and around HVAC pedestals (approximately 35). No asbestos was detected in the main roofing field.
5. Duct joint tape – approximately 15 joints. Located in the basement mechanical roor

roof top mechanical room.

Removal of non-friable asbestos materials is considered Class II asbestos work under revised federal OSHA requirements (29CFR 1926.1101).

Non-Asbestos Materials
No asbestos was identified in samples collected from:

1. 2'x 2' ceiling tiles, 2' x 4' ceiling tiles, 12" ceiling tile and mastic.
2. Duct tape on ducts above ceiling (2nd floor).
3. Lightweight concrete - vault door.
4. Duct wrap – mechanical room, basement
5. Plaster – mechanical room basement walls.
6. Baseboard mastic.
7. Main roofing felts.

Lead-Based Paint
All samples were collected under the direction of Duane E. Behrens, DOHS Lead Cert. No. I7914.

Physical samples were collected from all types of unique and accessible exterior and interior wall paint. All samples were analyzed for lead content at Scientific Laboratories in Carson, California, using EPA Method 7420[1].

Quality control included standard chain-of-custody procedures and analysis of one method blank. No anomalies were noted.

Refer to the laboratory analysis report (attached). California Title 8, section 1532.1 references 0.06% lead dry weight as the concentration above which paint may constitute a health hazard if disturbed improperly.

Identified Lead-Based Paint
Lead in excess of 0.06% by weight was identified in the following paints:

- None.

[1] Method SW846-3050-7420.

F. *Conclusions*

Removal of any material containing asbestos in an amount greater than one percent is regulated under EPA-SCAQMD Rule 1403, 29 CFR 1926.1101 (federal OSHA) and other state and local guidelines[2].

Identified asbestos materials were found to be in generally good condition at the time of inspection. No immediate corrective action is required or recommended unless the materials will be impacted by renovation/demolition activities.

Until they are removed, all asbestos materials should be included in an operations and maintenance program designed to (a) periodically assess the condition of each ACM and (b) train employees on appropriate response actions when damaged materials are encountered.

This report is not an endorsement or rejection of the means or methods used in the handling of potentially hazardous materials. Ellis Environmental Management, Inc., provides Phase I environmental site assessments (ESA's), monitoring for indoor contaminants (IAQ studies), testing for and administration of the removal of potentially hazardous building materials. Licensed to practice in the state of California, employees conducting asbestos surveys are certified by Cal-OSHA pursuant to regulations required by subdivision (b) of Section 9021.5 of the Labor Code, and have taken and passed an EPA-approved Building Inspector course.

G. *Signatory*

Respectfully Submitted,

Duane E. Behrens
President, REA
Cal-OSHA Cert. 92-0226
DOSH Cert. I- 7914

[2] Although the standard is currently under review, the Division of Occupational Safety and Health is also required to enforce CCR Section 1529 for construction materials which may contain greater than 0.1 percent asbestos, since they are technically considered as a "listed carcinogen" under Sections 9030 and 9031 of the California Labor Code.

Appendix A

Results Summary
Asbestos

SAMPLE NO.	MATERIAL	MATERIAL LOCATION	ASBESTOS	EST QTY	UNIT
IDENTIFIED ASBESTOS MATERIALS					
2421	TSI	roof mechanical room, pipe elbows, hangars	3%	10	ea
2414, 2415, 2416, 2417, 2418	TSI, elbows, joints and hangars	mechanical room, basement	5%	26	ea
2410	duct joint tape	mechanical room, basement	40%	15	joints
2422, 2423, 2424, 2425, 2430, 2431, 2435	penetration mastic	main roof	4%	40	ea
2432, 2433, 2434	plaster, exterior	mechanical building on roof	1%	1800	s.f.
2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2335, 2336, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382	flooring and mastic	1st and 2nd floors	7%	6,000	s.f.
2335, 2373, 2389, 2390, 2391, 2392, 2393	mastic (only)	1st & 2nd floor, under carpets	7%	25,000	s.f.
2352, 2353, 2354, 2355, 2356, 2357, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407,	sprayed-on ceilings	1st & 2nd floor, rooms: 104, 108, 110, 124, 125, 126, 127, 161, 243, 252, 254	20%	2,000	s.f.
2330, 2331, 2333, 2339, 2340, 2341, 2342, 2358, 2359, 2360, 2361, 2362, 2363, 2364	plaster	1st& 2nd floor, perimiter walls	3%	10,470	s.f.
2318, 2338, 2343, 2344, 2345, 2346, 2365, 2366, 2367, 2368, 2369, 2370, 2371	wallboard system	1st & 2nd floor	2%	78,900	s.f.

Table 1
Results Summary - Asbestos
EAST BUILDING
3171 S. Bundy, Santa Monica

Ellis
(310) 544 1837

SAMPLE NO.	MATERIAL	MATERIAL LOCATION	ASBESTOS	EST QTY	UNIT
NON-ASBESTOS MATERIALS					
2426, 2427, 2428	roof core	main roof			
2429	roofing material	main roof			
2411, 2412, 2413	plaster	mechanical room, basement			
2419, 2420	duct wrap	mechanical room, basement			
2319, 2334, 2337, 2383, 2384, 2385, 2386, 2387, 2388	mastic, baseboard	2nd floor			
2386	baseboard, gray	corridors			
2347, 2394, 2395, 2396, 2397,	2x2 ceiling tile	2nd floor			
2348, 2408, 2409	2x4 ceiling tile	2nd floor			
2349, 2350	12" ceiling tile & mastic	2nd floor,			
2351	duct tape	above ceiling, 2nd floor			
2372	lt. wt. cement	vault door, 1st floor			

Table 1
Results Summary - Asbestos
EAST BUILDING
3171 S. Bundy, Santa Monica

Ellis
(310) 544 1837

Project No: 03-492
12/8/03

Appendix B

Results Summary
Lead

REFERENCE	MATERIAL	MATERIAL LOCATION	SAMPLED AT	% LEAD
	IDENTIFIED LEAD-BASED PAINTS			
	none identified			
	NON-LEAD-BASED PAINTS			
83	white exterior paint	mechanical room, roof	west wall mech. rm., roof	
85	white exterior paint	exterior concrete and block	south concrete columns	
86	white exterior paint	exterior concrete and block	north block planters	

RESULTS SUMMARY - LEAD
EAST BUILDING
3171 S. Bundy, Santa Monica

03-492
011/23/03
Ellis

Appendix C

Removal Cost Estimates

ITEM	MATERIAL	QTY	UNIT	RATE (DEMOLITION)	RATE (RENOVATION)	DEMOLITION TOTALS	RENOVATION TOTALS*
1	pipe elbows and joints, roof mech	10	ea	$ 40.00	$ 60.00	$ 400.00	$ 600.00
2	pipe elbows and joints, bsmt mech	26	ea	$ 40.00	$ 60.00	$ 1,040.00	$ 1,560.00
3	duct joint tape, bsmt mech room	20	ea	$ 40.00	$ 60.00	$ 800.00	$ 1,200.00
4	roof penetration mastic	40	ea	$ 35.00	$ 50.00	$ 1,400.00	$ 2,000.00
5	exterior plaster, roof mech room	1800	s.f.	$ 8.00	$ 12.00	$ 14,400.00	$ 21,600.00
6	flooring and mastic, both floors	6,000	s.f.	$ 1.70	$ 3.50	$ 10,200.00	$ 21,000.00
7	mastic under carpet, both floors	25,000	s.f.	$ 1.20	$ 3.00	$ 30,000.00	$ 75,000.00
8	sprayed on acoustic ceiling, Fl. 2	2,000	s.f.	$ 3.00	$ 7.00	$ 6,000.00	$ 14,000.00
9	interior plaster - perimeter walls - both floors	10,470	s.f.	$ 1.50	$ 2.50	$ 15,705.00	$ 26,175.00
10	wallboard systems, interior walls - both floors	78,900	s.f.	$ 1.00	$ 2.50	$ 78,900.00	$ 197,250.00
						$ 158,845.00	**$ 360,385.00**

*Assumes abatement of small areas (<10,000 s.f.) in an occupied building, protection of existing HVAC, etc.

ABATEMENT COST ESTIMATE
EAST BUILDING

Ellis

Appendix D

Laboratory Reports
Asbestos

SCILAB

SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121079
Date Examined 12/05/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2421	903121079-01	*Yes* ✓	3 %

Location: TSI, Elbow Mtl, W. Mech Rm. Roof

Description: Grey, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2422	903121079-02	*No* ✓	NAD

Location: Pen Mastic, S Roof at Vent Pipe, Roof

Description: Silver/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous glass 10. %, Non-fibrous 90. %

2423	903121079-03	*Yes* ✓	< 1.%

Location: Pen Mast, S Roof at Vent Pipe, Roof

Description: Silver/Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Fibrous glass 10. %, Non-fibrous 90. %

2424	903121079-04	*Yes* ✓	< 1.%

Location: Pen Mast, N Roof at Vent Pipe, Roof

Description: Grey/Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Fibrous glass 10. %, Non-fibrous 90. %

2425	903121079-05	*Yes* ✓	3 %

Location: Pen Mast, N Roof at Vent Pipe, Roof

Description: Grey/Black, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

SCILAB

SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121079
Date Examined 12/05/2003 **P.O. #** 03-492
Page 2 **of** 4
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2426	903121079-06	*No* ✓	NAD

Location: Roof Core, S Roof

Description: Silver/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 20. %, Fibrous glass 5. %, Non-fibrous 75. %

2427	903121079-07	*No* ✓	NAD

Location: Roof Core, Central E Roof

Description: Silver/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 40. %, Fibrous glass 10. %, Non-fibrous 50. %

2428	903121079-08	*No* ✓	NAD

Location: Roof Core, N Roof

Description: Grey/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 40. %, Fibrous glass 10. %, Non-fibrous 50. %

2429	903121079-09	*No* ✓	NAD

Location: Roof Material, Central Roof

Description: Silver/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous glass 25. %, Non-fibrous 75. %

2430	903121079-10	*No* ✓	NAD

Location: Pen Mastic at Pedestal, S Central, Roof

Description: Grey/Black, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 5. %, Fibrous glass 25. %, Non-fibrous 70. %

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2431	903121079-11	*Yes* ✓	3 %

Location: Pen Mast at Vent Pipe, N Central Roof

Description: Grey/Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2432	903121079-12	*No* ✓	NAD

Location: Plaster, S Wall Ext (Mech Room), Roof

Description: Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 100. %

2433	903121079-13	*Yes* ✓	< 1.%

Location: Plaster, Roof Exter Mech Rm, North Wall, Roof

Description: Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2434	903121079-14	*No* ✓	NAD

Location: Plaster, Ext Mech Rm, W Wall Roof

Description: Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 100. %

2435	903121079-15	*Yes* ✓	4 %

Location: Mastic (White) at Lg. HvAC Pedestal, West Central Roof

Description: White/Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 4. %
Other Material: Fibrous glass 16. %, Non-fibrous 80. %

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PLM Bulk Asbestos Report

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Attn: Duane Behrens
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Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121079
Date Examined 12/05/2003 **P.O. #** 03-492
Page 4 **of** 4

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Roof

Reporting Notes:

Analyzed by: David W. Ralbovsky ; Date Analyzed: 12.5.3

*NAD/NSD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:

FIELD SAMPLING INVENTORY

Roof

9031210 79

Client: SMCC

Project: 3171 Bundy (2-Story) Roof

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2421	TSI	Elbow Mtl., W. Roof Rm	Roof				
2422	Pen. Mastic	S. Roof at Vent pipe	Roof				
2423	Pen. Mast.	S. Roof at vent pipe	Roof				
2424	Pen. Mast	N. Roof at Vent pipe	Roof				
2425	Pen. Mast.	N Roof at Vent pipe	Roof				
2426	Roof core	S. Roof					
2427	Roof Core	Central E Roof					
2428	Roof Core	N. Roof					
2429	Roofing material	Central Roof					
2430	Pen. Mastic	at Pedistal, S. Central					
2431	Pen. Mast	at Vent pipe N. Central Roof					
2432	Plaster	S. Wall ext. (Mech Room)					

Ellis Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/3/03

Inspector Initials KA

Sheet 1

FIELD SAMPLING INVENTORY

Roof (2 Story Bldg)

9031210 79

Client: SMCC

Project: 3171 Foundy, SM, 2 Story Bldg Roof

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2433	Plaster	Roof exter. Mech. Rm. North Wall	Roof				
2434	Plaster	Ext. Mech Rm W. Wall Roof	Roof				
2435	Mastic (white)	At Eq. HVAC Pedestal West central Roof	Roof				

Ellis Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/3/03

Inspector Initials KC/BS

Sheet 2 of 2

Ellis Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

903121079

Project No.: 03-492
Client: SMCC
Location: 3171 Foundry, SM, 2-Story Bldg. Roof

Sampler: Kathy Cummins Barry Smith
Sheet 1 of 1

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
2421 to	2435 See attached Inventory sheet	12/3/03				X	PLM - Asbestos

Turnaround: ___ same day ___ 24 hrs. ___ 3 days ___ 5 days ___ Standard

Special instructions:

Date	Relinquished By	Received By	Date
12/8/03	Kathy Cummins		12/8/03 15:10

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24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121077
Date Examined 12/04/2003 **P.O. #** 03-492
Page 1 **of** 14

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2318	903121077-01.1	*No*	NAD

Location: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offices

Description: White/Brown, Heterogeneous, Drywall
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

2318	903121077-01.2	*No*	NAD

Location: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offices

Description: White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2318	903121077-01.3	*No*	NAD

Location: Drywall/JC, Rm. 252 (SW Crnr), 2nd Flr Offices

Description: Cream, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2319	903121077-02L1	*No*	NAD

Location: Baseboard Mastic, Rm. 247 (SE Crnr), 2nd Flr Offices

Description: Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Fibrous Talc 3. %, Non-fibrous 97. %

2319	903121077-02L2	*No*	NAD

Location: Baseboard Mastic, Rm. 247 (SE Crnr), 2nd Flr Offices

Description: Cream, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

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PLM Bulk Asbestos Report

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Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121077
Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2320	903121077-03L1	*No*	NAD

Location: Tan Linoleum (Aggregate), Men's RR (Rm. 214), 2nd Flr RR's

Description: Beige, Heterogeneous, Linoleum
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

2320	903121077-03L2	*No*	NAD

Location: Tan Linoleum (Aggregate), Men's RR (Rm. 214), 2nd Flr RR's

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

2321	903121077-04L1	*No*	NAD

Location: Brn FT & Mastic, N. Corridor Adj. to Men's RR, 2nd Flr.

Description: Brown, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2321	903121077-04L2	*Yes*	3 %

Location: Brn FT & Mastic, N. Corridor Adj. to Men's RR, 2nd Flr.

Description: Black/Yellow, Heterogeneous, Mastic
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2322	903121077-05L1	*No*	NAD

Location: Brn FT, Under Carpet East Corridor (Adj. Rm. 249), 2nd Flr

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
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PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121077
Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2322	903121077-05L2	*No*	NAD

Location: Bm FT, Under Carpet East Corridor (Adj. Rm. 249), 2nd Flr

Description: Brown, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2322	903121077-05L3	*Yes*	7 %

Location: Bm FT, Under Carpet East Corridor (Adj. Rm. 249), 2nd Flr

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 7. %
Other Material: Cellulose 3. %, Non-fibrous 90. %

2323	903121077-06L1	*Yes*	3 %

Location: Tan 9" FT, Util. Rm. (Rm. 249), 2nd Flr

Description: Tan, Heterogeneous, Floor Tile
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2323	903121077-06L2	*Yes*	4 %

Location: Tan 9" FT, Util. Rm. (Rm. 249), 2nd Flr

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

2324	903121077-07	*Yes*	4 %

Location: Blk Mastic Under Wood Flr, Rm. 226 (Telephone Closet), 2nd Flr Central

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2325	903121077-08	*No* ✓	NAD

Location: Blk Mastic Under Carpet, Adj. Rm. 242, 2nd Flr S. West Ofcs

Description: Black, Heterogeneous, Mastic
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

2326	903121077-09	*No* ✓	NAD

Location: Blk Mastic Under Carpet, Lg. Conf. Rm. (Rm. 230), 2nd Flr Central

Description: Yellow/Black, Heterogeneous, Mastic
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

2327	903121077-10L1	*No* ✓	NAD

Location: Gry 12" FT, E. Corridor Adj to Rm. 251, 2nd Flr

Description: Grey, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2327	903121077-10L2	*No* ✓	NAD

Location: Gry 12" FT, E. Corridor Adj to Rm. 251, 2nd Flr

Description: Clear/Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Cellulose 7. %, Non-fibrous 93. %

2328	903121077-11L1	*No* ✓	NAD

Location: Linoleum (Tan Aggregate), Women's Lounge Rm. 240, 2nd Flr RR's

Description: Tan, Heterogeneous, Linoleum
Asbestos Types:
Other Material: Cellulose 45. %, Fibrous glass 7. %, Synthetic fibers 3. %, Non-fibrous 45. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Rancho Palos Verdes, CA 90275

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Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2328	903121077-11L2	*No* ✓	NAD

Location: Linoleum (Tan Aggregate), Women's Lounge Rm. 240, 2nd Flr RR's

Description: Off-White, Heterogeneous, Mastic
Asbestos Types:
Other Material: Cellulose 3. %, Non-fibrous 97. %

2329	903121077-12L1	*No* ✓	NAD

Location: Basebd Mastic, Storage Off. Women's Lounge Rm. 240, 2nd Flr RR's South

Description: Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Fibrous Talc 3. %, Non-fibrous 97. %

2329	903121077-12.2	*Yes*	4 %

Location: Basebd Mastic, Storage Off. Women's Lounge Rm. 240, 2nd Flr RR's South

Description: White, Heterogeneous, Plaster/Skim Coat
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

2330	903121077-13	*No* ✓	NAD

Location: Plaster, Corner of Wall Near Rm. 226, N. Central Area, 2nd Flr

Description: White, Heterogeneous, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

2331	903121077-14.1	*No* ✓	NAD

Location: Plaster, E. Wall Rm. 201, E. Central Ofcs, 2nd Flr

Description: Beige, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

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TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
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Rancho Palos Verdes, CA 90275

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Date Examined 12/04/2003 **P.O. #** 03-492
Page 6 **of** 14
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2331	903121077-14.2	*No* ✓	NAD

Location: Plaster, E. Wall Rm. 201, E. Central Ofcs, 2nd Flr

Description: White, Heterogeneous, Skim Coat
Asbestos Types:
Other Material: Non-fibrous 100. %

2332	903121077-15	*No* ✓	NAD

Location: Joint Comp, Support Column Adj. Area 206, 2nd Flr N. Area

Description: White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2333	903121077-16.1	*No* ✓	NAD

Location: Plaster, N. Wall Rm. 213, NE Offices, 2nd Flr

Description: Beige, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

2333	903121077-16.2	*Yes* ✓	3 %

Location: Plaster, N. Wall Rm. 213, NE Offices, 2nd Flr

Description: White, Heterogeneous, Skim Coat
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2334	903121077-17	*No* ✓	NAD

Location: Baseboard Mastic, Corner Wall Near Rm. 226, 2nd Flr Central Area

Description: Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Fibrous Talc 3. %, Non-fibrous 97. %

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2335	903121077-18L1	*No* ✓	NAD

Location: Flooring & Blk Mastic Under Carpet, Rm. 239 SW Offices, 2nd Flr, SW Area

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2335	903121077-18L2	*No* ✓	NAD

Location: Flooring & Blk Mastic Under Carpet, Rm. 239 SW Offices, 2nd Flr, SW Area

Description: Grey, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2335	903121077-18L3	*Yes* ✓	4 %

Location: Flooring & Blk Mastic Under Carpet, Rm. 239 SW Offices, 2nd Flr, SW Area

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

2336	903121077-19L1	*No* ✓	NAD

Location: Wht FT, Rm. 238 West (S) Ofcs, 2nd Flr, SW Ofc

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2336	903121077-19L2	*Yes* ✓	2 %

Location: Wht FT, Rm. 238 West (S) Ofcs, 2nd Flr, SW Ofc

Description: Grey, Heterogeneous, Floor Tile
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

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CARSON, CA 90745
TEL: (310) 834-4868 - FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2336	903121077-19L3	*Yes* ✓	4 %

Location: Wht FT, Rm. 238 West (S) Ofcs, 2nd Flr, SW Ofc

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

2337	903121077-20	*No* ✓	NAD

Location: Mastic (3 Layers) BB, Rm. 217 (NW Corner Bldg.) 2nd Flr NW Ofcs

Description: Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous Talc 3. %, Non-fibrous 97. %

2338	903121077-21.1	*No* ✓	NAD

Location: Drywall/JC, East Corridor Across From Rm. 252, 2nd Flr, SE Corridor

Description: White/Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

2338	903121077-21.2	*No* ✓	NAD

Location: Drywall/JC, East Corridor Across From Rm. 252, 2nd Flr, SE Corridor

Description: Beige, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2339	903121077-22.1	*No* ✓	NAD

Location: Plaster, S. Wall Rm. 243, 2nd Flr, S. Ofcs

Description: Grey, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
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Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2339	903121077-22.2	*No* ✓	NAD

Location: Plaster, S. Wall Rm. 243, 2nd Flr, S. Ofcs

Description: White, Heterogeneous, Skim Coat
Asbestos Types:
Other Material: Non-fibrous 100. %

2340	903121077-23.1	*No* ✓	NAD

Location: Plaster, W. Wall Rm. 242B, 2nd Flr, SW Ofcs

Description: Grey, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

2340	903121077-23.2	*No* ✓	NAD

Location: Plaster, W. Wall Rm. 242B, 2nd Flr, SW Ofcs

Description: White, Heterogeneous, Skim Coat
Asbestos Types:
Other Material: Non-fibrous 100. %

2341	903121077-24.1	*No* ✓	NAD

Location: Plaster, W. Wall, Rm. 228, 2nd Flr, West Ofcs.

Description: Grey, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

2341	903121077-24.2	*Yes* ✓	3 %

Location: Plaster, W. Wall, Rm. 228, 2nd Flr, West Ofcs.

Description: White, Heterogeneous, Skim Coat
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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430 Silver Spur Road
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Page 10 **of** 14
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2342	903121077-25.1	*No* ✓	NAD

Location: Plaster, E. Wall, Rm. 254, 2nd Flr, E. Ofcs.

Description: Grey, Heterogeneous, Cementitious, Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

2342	903121077-25.2	*Yes* ✓	2 %

Location: Plaster, E. Wall, Rm. 254, 2nd Flr, E. Ofcs.

Description: White, Heterogeneous, Skim Coat
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

2343	903121077-26	*No* ✓	NAD

Location: JC, S. Wall Open Area Near 224, Adj. Rm. 227 2nd Flr, NW Area

Description: Off-White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2344	903121077-27	*No* ✓	NAD

Location: JC, Int. Rm. 212, West Wall, NE Ofcs, 2nd Flr.

Description: Off-White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2345	903121077-28	*No* ✓	NAD

Location: JC, Int. Rm. 217, S. Wall, NW Ofcs., 2nd Flr.

Description: Off-White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2346	903121077-29	*No* ✓	NAD

Location: JC, Int. Rm. 243, S. Ofcs., 2nd Flr.

Description: Off-White, Heterogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

2347	903121077-30	*No* ✓	NAD

Location: 2'x2' CT, Int. Rm. 242B, 2nd Flr., SW Ofcs.

Description: Beige/White, Heterogeneous, Ceiling Tile
Asbestos Types:
Other Material: Cellulose 45. %, Fibrous glass 10. %, Non-fibrous 45. %

2348	903121077-31	*No* ✓	NAD

Location: 2'x4' CT, N. Open Area (220), N. Area, 2nd Flr.

Description: Beige/White, Heterogeneous, Ceiling Tile
Asbestos Types:
Other Material: Cellulose 45. %, Fibrous glass 10. %, Non-fibrous 45. %

2349	903121077-32L1	*No* ✓	NAD

Location: 12" CT & Mastic, W. Corridor, Adj. to Rm. 228, 2nd Flr., S. Half

Description: Beige/White, Heterogeneous, Ceiling Tile
Asbestos Types:
Other Material: Mineral Wool 95. %, Non-fibrous 5. %

2349	903121077-32L2	*No* ✓	NAD

Location: 12" CT & Mastic, W. Corridor, Adj. to Rm. 228, 2nd Flr., S. Half

Description: Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

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Page 12 **of** 14
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2350	903121077-33L1	*No* ✓	NAD

Location: 12" CT & Mastic, W. Corridor, Adj. to Rm. 236, 2nd Flr., S. Half
Description: Brown/White, Homogeneous, Ceiling Tile
Asbestos Types:
Other Material: Cellulose 99. %, Non-fibrous 1. %

2350	903121077-33L2	*No* ✓	NAD

Location: 12" CT & Mastic, W. Corridor, Adj. to Rm. 236, 2nd Flr., S. Half
Description: Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2351	903121077-34	*No* ✓	NAD

Location: Tape, Rm. 229 Above Ceil., 2nd Flr, W. Central Area Above Ceiling
Description: Off-White, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 99. %, Non-fibrous 1. %

2352	903121077-35	*Yes* ✓	20 %

Location: Sprayed-On Ceiling, Rm. 243 Center, S. Office
Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

2353	903121077-36	*Yes* ✓	20 %

Location: Spray On Ceil., Rm. 243 Near Door, S. Office
Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Date Examined 12/04/2003 **P.O. #** 03-492
Page 13 **of** 14
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2354	903121077-37	*Yes* ✓	20 %

Location: Spray On Ceil., Rm. 252 By Window, @nd Flr, E. Ofcs, Adj. to Lobby

Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

2355	903121077-38	*Yes* ✓	20 %

Location: Spray On Ceil., Rm. 252 By Door, 2nd Flr. E. Ofcs., Adj. to Lobby

Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

2356	903121077-39	*Yes* ✓	20 %

Location: Spray On Ceil., Rm. 254 By Window, 2nd Flr., E. Ofcs., Adj. to Lobby

Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

2357	903121077-40	*Yes* ✓	20 %

Location: Spray on Ceil., Rm. 254 by Door, 2nd Flr., E. Ofcs., Adj. to Lobby

Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 20. %
Other Material: Non-fibrous 80. %

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Date Examined 12/04/2003 **P.O. #** 03-492
Page 14 **of** 14
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story, 2nd Floor

Reporting Notes:

Analyzed by: Melissa A. Boysun M.A.B.; Date Analyzed: 12-04-03
*NAD/NSD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____

903121077

EMSL Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Project No.: 03-492
Client: SMCC
Location: 3171 PAUNDY, SM
2-Story, 2nd floor

CHAIN OF CUSTODY RECORD

Sampler: Scott Stiles, Barry Smith, Kathy Cummins
Sheet 1 of 1

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
2318 to 2357	See attached inventory sheet	12/2/03				X	PLM - asbestos

Turnaround: ___ same day ~~___ 24 hrs.~~ X 3 days ___ 5 days ___ Standard

Special Instructions:

Date	Relinquished By	Received By	Date
12/02/03	Kathy Cummins	[illegible]	12/3/03 15:16

FIELD SAMPLING INVENTORY

903121077

Client: SMCC

Project: 3171 Bundy (2-Story) S.M.

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2318	~~DRYWALL~~/JC	Rm 252 (SW CRNR)	2nd flr. offices				
2319	Baseboard mastic	Rm 247 (SE CRNR)	2nd flr. offices				
2320	Tan linoleum (aggregate)	Men's RR (Rm 214)	2nd flr. RRs				
2321	BRN FT + mastic	N. Corridor adj. to Mens RR	2nd flr.				
2322	BRN FT	under carpet east corridor (adj. Rm 249)	2nd flr.				
2323	Tan 9" FT.	Util. Rm (Rm. 249)	2nd flr.				
2324	Blk mastic under wood flr	Rm 226 (telephone Closet)	~~Rm~~ 2nd flr. central				
2325	Blk mastic under carpet	adj. Rm 242	2nd flr. SWest. offs				
2326	Blk mastic under Carpet	lg. Conf. Rm (Rm. 230)	2nd flr. Central				
2327	GRY 12" FT	~~S~~E. Corridor adj. to Rm 251	2nd flr.				
2328	Linoleum (Tan aggregate)	Womens Lounge Rm 240	2nd flr. RRs.				
2329	~~GRY FT~~ Tan Base bd. mastic	Storage ~~adj~~ off. Womens Lounge Rm 240	2nd flr. SOUTH RRs.				

Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/2/03

KC/BS/SS

Inspector Initials

Sheet 1 of

FIELD SAMPLING INVENTORY

Client: SMCC

Project: 3171 Pawnday, 2-Story SM

903121077

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2330	Plaster * [redacted]	Corner of wall near Rm 226	N. Central area (2nd flr)				
2331	Plaster * [redacted]	E. wall Rm 201	E. Central ofcs (2nd flr)				
2332	Joint Comp	Support Column (and adj area)	2nd flour N. area				
2333	Plaster / [redacted]	N. wall Rm 213	N.E offices (2nd flr)				
2334	Baseboard mastic	Corner wall near Rm 226	(2nd flr.) Central area				
2335	Flooring & blk mastic under carpet	Rm 234 S.W offices.	2nd flr. SW area				
2336	WHT FT	Rm 238 West (s) ofcs.	2nd flr. SW ofcs				
2337	Mastic (3 layers) BB	Rm 217 (NW corner bldg)	2nd flr. NW ofcs.				
2338	Drywall / JC	East corridor across from Rm 252	2nd flr. SE corridor				
2339	Plaster	S. wall Rm 243	2nd flr. S. ofcs.				
2340	Plaster	W wall Rm 242B	2nd flr. S.W ofcs.				
2341	Plaster	W. wall Rm 228	2nd flr. West. ofcs.				

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430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

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Sheet 2 of ___

FIELD SAMPLING INVENTORY

903121077

Client: SMCC

Project: 3171 Bundy, 2-Story SM

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2342	Plaster	E Wall RM 254	2nd flr. E. ofcs.				
2343	JC	S. Wall open area near 224 adj Rm 227	2nd flr. NW area				
2344	JC	Int. RM 212 West wall	NE ofcs. 2nd flr.				
2345	JC	Int. RM 217 S. wall	NW ofcs. 2nd flr.				
2346	JC	Int RM 243	S. ofcs. 2nd flr.				
2347	2x2' CT	Int RM 242B	2nd flr. SW. ofcs.				
2348	2x4' CT	N. Open area (220)	N area 2nd flr.				
2349	12" CT + mastic	W. Corridor, adj. to Rm228	2nd flr. S. half				
2350	12" CT + mastic	W. Corridor, adj to Rm228	2nd flr. S. half				
2351	Tape	RM 229 above ceil.	2nd flr. W. Central area drop ceiling				
2352	Sprayed-on Ceiling	Rm 243 Centr.	S. Office				
2353	Spray on Ceil	RM 243 near door	S. office				

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430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

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Sheet 3 of ___

FIELD SAMPLING INVENTORY

9031121077

Client: SMCC

Project: 8171 Foundry, 2 Story
3M

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2354	Spray on ceil.	RM 252 by window	2nd flr. E. ofcs adj to Lobby				
2355	Spray on ceil.	RM 252 by door	2nd flr. E. ofcs. adj to Lobby				
2356	Spray on ceil	RM 254 by window	2nd flr E ofcs adj to Lobby				
2357	Spray on ceil	RM 254 by door	2nd flr. E. ofcs adj to Lobby				

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430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

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SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121078
Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2358	903121078-01	*Yes* ✓	< 1.%

Location: Plaster, Rm. 155, E. Wall, 1st Flr., SE Perim. Walls

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2359	903121078-02	*Yes* ✓	< 1.%

Location: Plaster, E. Corridor Adj. to Vault Entrance, 1st Flr., E. Perim. Walls

Description: White, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2360	903121078-03	*Yes* ✓	< 1.%

Location: Plaster, NE Conf. Rm. 111 (NE Crnr), 1st Flr., NE Perim. Walls

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2361	903121078-04	*Yes* ✓	< 1.%

Location: Plaster, NW Ofc. Rm. 115, 1st Flr., NE Perim. Walls

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2362	903121078-05	*Yes* ✓	< 1.%

Location: Plaster, West Ofc. Rm. 125, 1st Flor., West Ofcs. (Perim. Walls)

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2363	903121078-06	*Yes* ✓	< 1.%

Location: Plaster, SW Ofc., Rm. 146, 1st Flr., SW Perim. Walls

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2364	903121078-07	*Yes* ✓	< 1.%

Location: Plaster, At S. Exit, 1st Flr., S. Perim. Wall

Description: White/Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2365	903121078-08	*No*	NAD

Location: Joint Comp., E. Corridor at Rm. 127, 1st Flr., SE Ofcs.

Description: Beige/White, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 3. %, Non-fibrous 97. %

2366	903121078-09	*Yes* ✓	2 %

Location: Joint Comp., E. Corridor Btwn. Rm. 160 & Vault, 1st Flr., East Ofcs.

Description: Beige, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

2367	903121078-10	*No*	NAD

Location: Joint Comp., E. Corridor at Lobby, 1st Flr., East Ofcs.

Description: Beige, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2368	903121078-11	*No*	NAD

Location: Joint Comp., E. Corridor at Rm. 110, 1st Flr., N. East Ofcs.

Description: Beige/White, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

2369	903121078-12	*No* ✓	NAD

Location: Joint Comp., W. Corridor Btwn Rm. 115A & 116, 1st Flr., N. West Ofcs.

Description: Beige, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

2370	903121078-13	*No* ✓	NAD

Location: Joint Comp., Open Area Btwn Lobby & Tel. Rm., Central Ofcs., 1st Flr.

Description: Beige, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

2371	903121078-14	*No* ✓	NAD

Location: Joint Comp., Rm. 145, 1st Flr., SW Ofcs.

Description: Beige, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

2372	903121078-15	*No* ✓	NAD

Location: Lt. Wt. Cement, Vault Door, 1st Flr., Vault Door

Description: Light Grey, Homogeneous, Cementitious, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2373	903121078-16	*Yes* ✓	7 %

Location: Black Mastic, Men's RR Under Fl. Comp. on Concr., 1st Flr., South Men's RR

Description: Black, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 7. %
Other Material: Non-fibrous 93. %

2374	903121078-17	*No* ✓	NAD

Location: Wht FT, Men's RR, 1st Flr., S. RR (Men & Women)

Description: White, Homogeneous, Bulk Material ? Flood comp. under floor tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2375	903121078-18L1	*Yes* ✓	3 %

Location: Tan 9" FT & Mastic, Under Stair Storage (South Stair), 1st Flr., South

Description: Tan, Homogeneous, Floor Tile
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2375	903121078-18L2	*No* ✓	NAD

Location: Tan 9" FT & Mastic, Under Stair Storage (South Stair), 1st Flr., South

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2376	903121078-19L1	*No* ✓	NAD

Location: Wht & Brn FT & Mastic, Women's RR (South), 1st Flr., South W. RR

Description: White, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
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Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2376	903121078-19L2	*No* ✓	NAD

Location: Wht & Brn FT & Mastic, Women's RR (South), 1st Flr., South W. RR

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2376	903121078-19L3	*No* ✓	NAD

Location: Wht & Brn FT & Mastic, Women's RR (South), 1st Flr., South W. RR

Description: Brown, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2376	903121078-19L4	*No* ✓	NAD

Location: Wht & Brn FT & Mastic, Women's RR (South), 1st Flr., South W. RR

Description: Yellow, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2377	903121078-20L1	*Yes* ✓	3 %

Location: Tan 9" FT & Mastic, Util. Rm. (South), 1st Floor South

Description: Tan, Heterogeneous, Floor Tile
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2377	903121078-20L2	*Yes* ✓	2 %

Location: Tan 9" FT & Mastic, Util. Rm. (South), 1st Floor South

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2378	903121078-21L1	*No* ✓	NAD

Location: Gray FT & Mastic, Rm. 160 (SE Bldg.), 1st Flr., Rm. 160

Description: Grey, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2378	903121078-21L2	*Yes* ✓	< 1 %

Location: Gray FT & Mastic, Rm. 160 (SE Bldg.), 1st Flr., Rm. 160

Description: Yellow/Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2379	903121078-22	*No* ✓	NAD [1]

Location: Brn FT. 12", West Corridor Closet, 1st Floor West

Description: Brown, Homogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2380	903121078-23L1	*Yes* ✓	4 %

Location: Tan 9" FT, N. Util. Closet, 1st Floor N. Util.

Description: Tan, Heterogeneous, Floor Tile
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 96. %

2380	903121078-23L2	*Yes* ✓	2 %

Location: Tan 9" FT, N. Util. Closet, 1st Floor N. Util.

Description: Black, Heterogeneous, Mastic
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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430 Silver Spur Road
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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2381	903121078-24	*No* ✓	NAD [1]

Location: Bm 12" FT, N. Lobby, 1st Floor

Description: Brown, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2382	903121078-25L1	*No* ✓	NAD

Location: Wht 12" FT, Men's RR (North), RR's 1st Floor

Description: Off-White, Heterogeneous, Floor Tile
Asbestos Types:
Other Material: Non-fibrous 100. %

2382	903121078-25L2	*No* ✓	NAD

Location: Wht 12" FT, Men's RR (North), RR's 1st Floor

Description: Orange, Heterogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 100. %

2383	903121078-26	*No* ✓	NAD

Location: Baseboard Mastic, Room 155, SE Office, 1st Flr., SE

Description: Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous Talc 2. %, Non-fibrous 98. %

2384	903121078-27	*No* ✓	NAD

Location: Baseboard Mastic, Rm. 146, SW Office, 1st Flr., SW

Description: Beige/Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2385	903121078-28	*No*	NAD

Location: Basebd. Mastic, Utility Room, 1st Flr., N. Center

Description: Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous Talc 2. %, Non-fibrous 98. %

2386	903121078-29L1	*No*	NAD

Location: Basebd & Mastic, Outside Men's RR E. Corridor (North), 1st Flr., NE Corner

Description: Grey, Heterogeneous, Baseboard
Asbestos Types:
Other Material: Non-fibrous 100. %

2386	903121078-29L2	*No*	NAD

Location: Basebd & Mastic, Outside Men's RR E. Corridor (North), 1st Flr., NE Corner

Description: Beige/Brown, Heterogeneous, Mastic
Asbestos Types:
Other Material: Fibrous Talc 2. %, Non-fibrous 98. %

2387	903121078-30	*No*	NAD

Location: Basebd. Mastic, Outside Rm. 1154 W. Corridor (North), 1st Flr., NW

Description: Yellow/Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous Talc 2. %, Non-fibrous 98. %

2388	903121078-31	*No*	NAD

Location: Basebd. Mastic, Rm. 126 (West Central Ofc), 1st Flr., West

Description: Yellow/Brown, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Fibrous Talc 2. %, Non-fibrous 98. %

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CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

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RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2389	903121078-32	*Yes* ✓	< 1.%

Location: Black Mastic Under Carpet, Rm. 136, West Ofcs South, 1st Flr., SW

Description: Black/Yellow, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 100. %

2390	903121078-33	*Yes* ✓	5 %

Location: Black Mastic Under Carpet, 3 Layers Blk/Brn/Tan, Rm. 120 Conf., 1st Flr., West

Description: Yellow/Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 95. %

2391	903121078-34	*Yes* ✓	2 %

Location: Black Mastic Under Carpet, Rm. 159, SE Ofcs., 1st Flr., SE Ofcs.

Description: Black/Yellow, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

2392	903121078-35	*Yes* ✓	3 %

Location: Black Mastic Under Carpet, 3 Layers Grn/Tan/Blk, Rm. 104, E, N Ofcs., 1st Flr., NE Ofcs.

Description: Black, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 3. %
Other Material: Non-fibrous 97. %

2393	903121078-36	*Yes* ✓	2 %

Location: Black Mastic Under Carpet, Rm. 117, NW Ofcs., 1st Flr., NW

Description: Black/Yellow, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 2. %
Other Material: Non-fibrous 98. %

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CARSON, CA 90745
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Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

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Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2394	903121078-37	*No* ✓	NAD

Location: 2'x2' CT, S. End of E. Corridor Near Rm. 157, 1st Flr., Corridors & Offices

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. %

2395	903121078-38	*No* ✓	NAD

Location: 2'x2' CT, Rm. 141, 1st Flr. Corridors & Offices

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. %

2396	903121078-39	*No* ✓	NAD

Location: 2'x2' CT, Open Area Adj. to Rm. 130 & 128, 1st Flr., Corridors & Offices

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. %

2397	903121078-40	*No* ✓	NAD

Location: 2'x2' CT, North Corridor Adj. to N. Lobby, 1st Flr., Corr & Ofcs.

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 65. %, Fibrous glass 10. %, Perlite 25. %

2398	903121078-41	*No* ✓	NAD

Location: Spray on Acous. Ceil., Rm. 110 (West), 1st Flr., NE Area

Description: Beige/White, Heterogeneous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 100. %

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CARSON, CA 90745
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PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121078
Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2399	903121078-42	*No* ✓	NAD
	Location: Spray on AC, Rm. 110 (East), 1st Flr., NE Area		
	Description: White, Heterogeneous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100. %		
2400	903121078-43	*Yes* ✓	3 %
	Location: Spray on AC, R. 108 (West), 1st Flr., NE Area		
	Description: White, Heterogeneous, Bulk Material		
	Asbestos Types: Chrysotile 3. %		
	Other Material: Non-fibrous 97. %		
2401	903121078-44	*Yes* ✓	3 %
	Location: Spray on AC, Rm. 108 East, 1st Flr., NE Area		
	Description: White, Heterogeneous, Bulk Material		
	Asbestos Types: Chrysotile 3. %		
	Other Material: Non-fibrous 97. %		
2402	903121078-45	*Yes* ✓	5 %
	Location: Spray on AC, Rm. 104 (SW), 1st Flr., NE Area		
	Description: White, Heterogeneous, Bulk Material		
	Asbestos Types: Chrysotile 5. %		
	Other Material: Non-fibrous 95. %		
2403	903121078-46	*Yes* ✓	3 %
	Location: Spray on AC, Rm. 104 Center, 1st Flr., NE Area		
	Description: White/Grey, Heterogeneous, Bulk Material		
	Asbestos Types: Chrysotile 3. %		
	Other Material: Non-fibrous 97. %		

SCILAB

SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121078
Date Examined 12/04/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2404	903121078-47	*Yes* ✓	5 %

Location: Spray on AC, Rm. 124, Telephone Rm., 1st Flr., Central

Description: White/Grey, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 95. %

2405	903121078-48	*Yes* ✓	5 %

Location: Spray on AC, Rm. 125 (SE Near Door), 1st Flr., West

Description: White, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 95. %

2406	903121078-49	*Yes* ✓	5 %

Location: Spray on AC, Rm. 125 (NW), 1st Floor West

Description: White, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 95. %

2407	903121078-50	*Yes* ✓	5 %

Location: Spray on AC, Rm. 127 (Near Door), 1st Floor Central

Description: White/Grey, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 95. %

2408	903121078-51	*No* ✓	NAD

Location: 2'x4' CT, Rm. 127 (Near Door), 1st Floor, West Central Offices

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 60. %, Fibrous glass 20. %, Perlite 20. %

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24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121078
Date Examined 12/04/2003 **P.O. #** 03-492
Page 13 **of** 13
RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., 1st Flr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2409	903121078-52	*No* ✓	NAD

Location: 2'x4' CT, Central Open Area (Adj. to Rm. 128), 1st Floor

Description: White/Grey, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 60. %, Fibrous glass 20. %, Perlite 20. %

Reporting Notes:
(1) Insufficient mastic present for analysis.

Analyzed by: David W. Ralbovsky Date Analyzed: 12.5.3

*NAD/NSD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). This PLM report relates ONLY to the items tested.

Reviewed By: _____

9031210 78

Bills Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Project No.: 03-492
Client: BMCC
Location: 3171 Foundy, SM
2 Story bldg / 1st flr.

CHAIN OF CUSTODY RECORD

Sampler: Scott Stiles, Barry Smith, Kathy Cummins
Sheet 1 of 1

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
2358 to 2409	See attached inventory sheet.	12/3/03				X	PLM - Asbestos

Turnaround: ___ same day ___ 24 hrs. X 3 days ___ 5 days ___ Standard

Special Instructions:

Date	Relinquished By	Received By	Date
12/3/03	Kathy Cummins	[illegible]	12/3/03 15:16

FIELD SAMPLING INVENTORY

1st FLR.

903121078

Client: SMCC

Project: 3171 Bundy, SM
2-Story, 1st FLR

Proj. No. 03-497

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2358	Plaster	Rm 155 E. Wall.	1st flr. SE Perim. walls ~~offices~~.				
2359	Plaster	E. corridor adj. to vault entrance	1st flr. E. Perim. walls.				
2360	Plaster	N.E. Conf. Rm 111 (NE CRNR)	1st flr. NE Perim walls				
2361	Plaster	NW ofc. Rm 115	1st flr. NW. Perim. walls				
2362	Plaster	West ofc. Rm 125	1st flr. West ofc. (Perim. wall)				
2363	Plaster	SW. ofc. Rm 146	1st flr. SW Perim walls.				
2364	Plaster	at S. exit	1st flr. S. perim. wall				
2365	Joint Comp.	E. Corridor at Rm. 157	1st flr. SE ofcs.				
2366	Joint Comp.	E. Corridor btwn Rm 116 & vault	1st flr. East ofcs.				
2367	Joint Comp.	E. Corridor at Lobby	1st flr. East ofcs.				
2368	Joint Comp.	E. Corridor at Rm. 110	1st flr. East ofcs.				
2369	Joint Comp	W. Corridor btwn Rm 115A & 116	1st flr. West ofcs				

Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/02/03
Inspector Initials KC/BS

Sheet 1 of 5

FIELD SAMPLING INVENTORY

1st flr.

903121078

Client: SMCC

Project: 2171 Barney, 2-Story 1st FLR

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2370	Joint Comp	OPEN Area BTN. Lobby & Tel. Rm	Central ofcs. 1st flr				
2371	Joint Comp.	Rm 145	1st flr. SW ofcs				
2372	lt. wt. Cement	Vault door	1st flr. Vault door				
2373	toblack mastic	Mens RR under floor comp. on conc.	1st flr. South Mens RR.				
2374	WHT FT	Men's RR	1st flr. S. RR (Men & Women)				
2375	Tan 9" FT + mastic	Under Stair Storage (South Stair)	1st flr. South				
2376	WHT + BRN FT. + mastic	Womens RR (South)	1st flr. South W. RR				
2377	Tan 9" FT + Mastic	UTIL Rm (South)	1st flour South.				
2378	GRAY FT + mastic	RM 160 (S.E. Bldg)	1st flr. RM 160				
2379	BRN FT. 12"	West corridor Closet	1st flour West				
2380	Tan 9" FT	N. Util. Closet.	1st flour N. Util.				
2381	BRN 12" FT	N. Lobby	1st flour				

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430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/2/03

Inspector Initials KC/PS

Sheet 2 of 5

FIELD SAMPLING INVENTORY

Client: SMCC

Project: 3171 Bundy, 2-story
1st floor

903121078

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2382	WHT 12" FT	Men's RR (NORTH)	~~North~~ RRs 1st floor				
2383	baseboard mastic	Room 155 SE OFFICE	1st flr. (SE)				
2384	baseboard mastic	Rm. 146 SW office	1st flr. (SW)				
2385	base bd. mastic	UTILITY Room	1st FLR (N. CENTER)				
2386	base bd + mastic	outside mens RR E. CORRIDOR (NORTH)	1st FLR (N.E. CORNER)				
2387	base bd. mastic	outside ~~Library~~ 115A W. Corridor north	1st flr (N.W.)				
2388	base bd. mastic	Rm. 126 (west-Central OFC.	1st flr. west				
2389	black mastic under carpet	Rm 136 (West ofcs South)	1st flr. SW				
2390	black mastic 3 layers blk/tan/tan under carpet	RM 120 Conf.	1st flr. West				
2391	black mastic under carpet	RM 15a, SE ofcs.	1st flr. SE ofcs.				
2392	black mastic 3 layers GRN/TAN/BLK under carpet	RM 104, E, N ofcs	1st flr. NE ofcs.				
2393	black mastic under carpet	RM 117, NW OFCS	1st Flr. NW				

Bliss Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/2/03
Inspector Initials KC/BS

Sheet 3 of 5

FIELD SAMPLING INVENTORY

903121078

Client: SMCC

Project: 3171 Bundy, SM
2-Story – 1st flr.

Proj. No: 03-442

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2394	2x2' CT	S. end of E. Corridor near Rm 157	1st flr. Corridors + offices				
2395	2x2' CT	Rm 141	1st flr. corridors + offices				
2396	2x2' CT,	Open area adj to Rm 130 + Rm 128	1st flr. Corridors + offices				
2397	2x2' CT	North Corridor adj to N. Lobby	1st flr. Corridors				
2398	Sprayon Acous. Ceil	Rm 110 (West)	1st flr. NE area				
2399	Spray on A/C	Rm 110 (east)	1st flr. NE area				
2400	Spry. on A/C	R108 (West)	1st flr. NE area				
2401	Spry. on A/C	Rm 108 (east)	1st flr. NE area				
2402	Spry. on A/C	Rm 104 (SW)	1st flr. NE area				
2403	Spry on A/C.	Rm 102 Center	1st flr. NE area				
2404	Spry on A/C	Rm 124 (telephone rm)	1st flr. Central				
2405	Spry. on A/C	Rm 125 (SE rear door)	1st flr. West				

EMS Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/3/03

Inspector Initials KD | BS

Sheet 4 of 5

FIELD SAMPLING INVENTORY

903121078

Client: SMCC

Project: 317 Burton, SM
2-Story, 1st floor

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2406	SPRY ON A/C	RM 125 (NW)	1st floor West				
2407	SPRY ON A/C	RM 127 (rear door)	1st floor Central				
2408	2x4' CT	RM 127 (rear door)	1st floor West Central offices				
2409	2x4' CT	~~RM~~ Central Open area (adj to RM 128)	1st floor				

BIIS Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/3/03

Inspector Initials KC/BS

Sheet 5 of 5

SCILAB

SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121080
Date Examined 12/05/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Mech Rm.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2410	903121080-01	*Yes*	40 %
	Location: Duct Tape, Mech. Rm.		
	Description: White, Homogeneous, Bulk Material		
	Asbestos Types: Chrysotile 40. %		
	Other Material: Cellulose 50. %, Non-fibrous 10. %		
2411	903121080-02	*No*	NAD
	Location: Plaster, West Wall Btwn Mech & Storage A, Mech Rm.		
	Description: Beige, Homogeneous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100. %		
2412	903121080-03	*No*	NAD
	Location: Plaster, Central Wall Btwn. Mech. & Storage A, Mech. Rm.		
	Description: Beige, Homogeneous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100. %		
2413	903121080-04	*No*	NAD
	Location: Plaster, East Wall Btwn. Mech. & Storage, Mech. Rm.		
	Description: Beige, Homogeneous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100. %		
2414	903121080-05	*Yes*	3 %
	Location: Pipe Insul. at Hangar (Storage A)		
	Description: Grey, Homogeneous, Bulk Material		
	Asbestos Types: Chrysotile 3. %		
	Other Material: Fibrous glass 57. %, Non-fibrous 40. %		

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PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121080
Date Examined 12/05/2003 **P.O. #** 03-492

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Mech Rm.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2415	903121080-06	*Yes*	3 %

Location: Pipe Insul. at Elbow, Mech. Rm.

Description: Grey, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 3. %
Other Material: Fibrous glass 67. %, Non-fibrous 30. %

2416	903121080-07	*Yes*	2 %

Location: Pipe Insul., Tape at Elbow, Mech. Rm.

Description: White/Grey, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 2. %
Other Material: Cellulose 88. %, Fibrous glass 5. %, Non-fibrous 5. %

2417	903121080-08	*Yes*	5 %

Location: Pipe Insul. Elbow, Mech. Rm.

Description: Grey, Homogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Fibrous glass 65. %, Non-fibrous 30. %

2418	903121080-09	*Yes*	5 %

Location: TSI Debris at Edge of Abated Elbow (Low Level), Mech. Rm.

Description: Grey, Heterogeneous, Bulk Material
Asbestos Types: Chrysotile 5. %
Other Material: Fibrous glass 65. %, Non-fibrous 30. %

2419	903121080-10	*No*	NAD

Location: Duct Wrap (Lt. Brown), Pipes in Mech. Rm.

Description: Beige/Black/Silver, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 50. %, Non-fibrous 50. %

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PLM Bulk Asbestos Report

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Rancho Palos Verdes, CA 90275

Date Received 12/03/2003 **SciLab Job No.** 903121080
Date Examined 12/05/2003 **P.O. #** 03-492
Page 3 **of** 3

RE: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Mech Rm.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2420	903121080-11	*No* /	NAD

Location: Duct Wrap (Wht), Pipes in Mech. Rm.

Description: Beige/Black/Silver, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 50. %, Non-fibrous 50. %

Reporting Notes:

Analyzed by: David W. Rabovsky ; Date Analyzed: 12.5.3
*NAD/NSD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:

FIELD SAMPLING INVENTORY

903121080

Client: SMCC

Project: 3171 Bundy, SM, 2-Story Bldg, Mech Rm

Proj. No. 03-492

SAMPLE #	MATERIAL	SAMPLE LOCATION	MATERIAL LOCATION	QNTY.	UNIT	FRIABLE	DAMAGE
2410	DUCT TAPE	MECH. RM West	MECH RM.	10	Joints		
2411	PLASTER	WALL BTWN. MECH + STORAGE A	"				
2412	Plaster	~~east~~ " Central	"				
2413	Plaster	east. "	"				
2414	Pipe insul.	at hanger (Storage A)	Storage A				
2415	Pipe insul (at elbow	mech RM	Mech. Rm				
2416	Pipe insul. Tape at elbow	Mech RM	Mech. Rm.				
2417	Pipe insul. elbow	mech RM	mech RM				
2418	TSI Debris	at edge of (low level) abated elbow	mech. Room				
2419	duct wrap (lt. brown)	Pipes in mech rm	Mech Rm				
2420	duct wrap. (wht)	" " "	Mech Rm				

Ellis Environmental Managment, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275

(310) 544 1837

Date 12/3/03

Inspector Initials KC/BS

Sheet 1 of 1

9031210 80

Ellis Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Project No.: 03-402
Client: SMCC
Location: 3171 Bundy, SM
2-Story Bldg, Mech Rm.

CHAIN OF CUSTODY RECORD

Sampler: Barry Smith, Kathy Cummins
Sheet 1 of 1

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
2410 to 2420	See attached inventory sheet	12/3/03				X	PLM - asbestos

Turnaround: ___ same day ___ 24 hrs. X 3 days ___ 5 days ___ Standard

Special Instructions:

Date	Relinquished By	Received By	Date
12/3/03	Kathy Cummins		12/3/03 15:10

Appendix E

Laboratory Reports
Lead

SCILAB

SCIENTIFIC LABORATORIES OF CALIFORNIA, INC.

24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

SciLab Job#: 403121053

Date Received: 12/03/2003
Date Analyzed: 12/04/2003

Lead Analysis Results

Paint

EPA Method 3050/7420

Ellis Environmental Management, Inc.

Rancho Palos Verdes, CA

Job Site: 03-492; SMCC; 3171 Bundy, SM/2-Story Bldg., Exterior

SciLab # 403121053	Client Number	Sample Location	% Lead (w/w)	Lead (mg/kg = ppm)
01	0083	Wht. Ext. Paint, W. Mech. Rm. Roof	0.012	120
02	0084	Metal Only, Covering Exh. Vent Roof	0.016	160
03	0085	Wht. Ext. South at Roof Stair	0.010	100
04	0086	Wht. Ext., N. on Block Planter	<0.01	<100

SciLab Reporting Limit is 0.01%, or 100mg/kg.
Scilab does not correct sample results by the blank value.
CA ELAP No. 2322. AIHA Lab No. 100530.

Reviewed by: _____

Analyzed by: _____
Minh Phung

403121053

Ellis Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1537 (tel)
(310) 544-2167 (fax)

Project No.: 03-492
Client: SMCC
Location: 3171 Bundy, SM, 2 Story Bldg Exterior

CHAIN OF CUSTODY RECORD

Sampler: Kathy Cummins Barry Smith
Sheet 1 of 1

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
0083	WHT. Ext. Paint, W. Mech. Rm. Roof	12/3/03				X	% Lead by Weight
0084	Metal only, Covering exh. vent. Roof					↓	↓
0085	WHT. EXT, SOUTH, at Roof Stair access						
0086	WHT-EXT, N. on block planter						

Turnaround: ___ same day ___ 24 hrs. X 3 days ___ 5 days ___ Standard

Special Instructions:

Date	Relinquished By	Received By	Date
12/5/03	Kathy Cummins		12/5/03 15:10

Ellis Environmental Management, Inc.
430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Project No.: 03-492
Client: SMCC
Location: 3171 Bundy, Sm, 2 Story Bldg Exterior

CHAIN OF CUSTODY RECORD

Sampler: Kathy Cummins Barry Smith
Sheet 1 of 1

Sample Number	Description	Date	Time	H20	Air	Solid	Tests Required
0083	WHT. Ext. Paint, W. Mech. Rm. Roof	12/3/03				X	% Lead by Weight
0084	Metal only, Covering exh. vent, Roof					↓	↓
0085	WHT. EXT, SOUTH, at Roof ~~access~~ Stairs						
0086	WHT - EXT, N. on block planter						

Turnaround: ___ same day ___ 24 hrs. X 3 days ___ 5 days ___ Standard

Special Instructions:

Date	Relinquished By	Received By	Date
12/3/03	Kathy Cummins		12/3/03 15:10