Appendix E Phase I

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PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR:

ARROWHEAD

SPRINGS RESORT

prepared for:

AMERICAN DEVELOPMENT GROUP, INC.

Contact: Mr. Tom Thornburgh, Owner

prepared by:

THE PLANNING CENTER

Contact: Dr. Denise Clendening, Project Manager

MARCH 8, 2005

THE PLANNING CENTER

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8 March 2005
Project No. ADG-01.01

American Development Group, Inc.
24600 Arrowhead Springs Road
San Bernardino, California 92414

Attention: Mr. Tom Thornburgh

Subject: Phase I Environmental Site Assessment Report
Arrowhead Springs Resort
24600 Arrowhead Springs Road
San Bernardino, California

Dear Mr. Thornburgh:

Enclosed please find one copy of the Phase I Environmental Site Assessment (Phase I) report for the Arrowhead Springs Resort located in San Bernardino, California.

Sincerely yours,
THE PLANNING CENTER

Denise Clendening, Ph.D., REA II 20130
Director of Site Assessment Services

Michael J. Watson
Geologist

Susan M. June
Environmental Scientist

Enclosures

PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR:

ARROWHEAD

SPRINGS RESORT

prepared for:

AMERICAN DEVELOPMENT GROUP, INC.

24600 Arrowhead Springs Road
San Bernardino, California 92414
Phone: 909.875.1400

Contact: Mr. Tom Thornburgh, Owner

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ADG-01.0I
MARCH 22, 2005

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Executive Summary

The Planning Center has performed a Phase I Environmental Site Assessment (Phase I) of the Arrowhead Springs Resort located at 24600 Arrowhead Springs Road in Arrowhead Springs, San Bernardino County, California. The scope of work is described and conditioned by our proposal dated February 3, 2005. As indicated in our proposal, this Phase I was performed in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) E 1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Exceptions to, or deletions from, this practice are described in Section 1 of this report. Our conclusions are intended to help the user evaluate the "environmental risk" associated with the site, as defined in the ASTM E 1527-00 Standard and discussed in the Introduction section of this report.

The subject site consists of approximately 556 acres of the approximately 1,916-acre Arrowhead Springs Resort. A portion of the subject site is currently developed. American Development Group is proposing to expand on the current resort and add commercial and residential areas to the site. The proposed development contains various commercial buildings, a conference center and spa resort, an 18-hole golf course, and approximately 1,350 residential units. The site is located on Arrowhead Springs Road, east of the intersection of Arrowhead Springs Road and Old Waterman Canyon Road.

RECOGNIZED ENVIRONMENTAL CONDITIONS

The goal of the ASTM E 1527-00 Standard practice is to identify Recognized Environmental Conditions (RECs), as defined in the Standard and in Section 1 of this report.

This assessment has revealed the following recognized environmental conditions in connection with the property following the ASTM standard and DTSC recommended guidance for Phase I assessments.

1. Waste oil was observed to be stored in (number) 55-gallon metal drums located on a paved area near the maintenance buildings. Staining and leaking was observed in the vicinity of the waste oil storage.

   The Planning Center recommends the oil impacted materials be properly cleaned and disposed of in accordance state and local. For future storage, the Planning Center recommends to improve upon current housekeeping practices to minimize spills, and prevent possible mitigation of waste oil to the soil subsurface.

2. A small sanitary sewer treatment facility is located on the subject site. The sewage treatment facility has a 300,000 gallon capacity and was built prior in approximately 1939. The treatment facility consists of an Imhoff tank, trickling filter, clarifier, drying bed, and holding ponds. Solids generated at the facility are treated and then dried in the drying bed. The drying bed is a sand filled drying bed. When the drying bed is full the treated solids (biosolids) are removed and tilled into the hillsides.

   Mr. Rod Garton reported that biosolid quantities have never been large enough to move more than two, 2 ½ yard backhoe buckets-full at any given time. Mr. Garton indicated that based on the small amount of waste treated at the sewage facility, testing the quality of the biosolids or monitoring for pollutants was never required. The sewage treatment facility was observed to be handling a small volume of waste. However based on historical use of the hotel and aerial photographs, it is likely the sewage treatment facility handled a larger volume of waste in the past.

   Based on the number of years the drying beds and sewage treatment facility have been in use, it

is possible that metals have leached from the sludge and accumulated below the drying bed. The Planning Center recommends soil samples be collected in the area surrounding the drying beds and tested for elevated metal concentrations.

HISTORICAL RECS AND KNOWN OR SUSPECT ENVIRONMENTAL CONDITIONS

The ASTM E 1527-00 Standard also requires that historical RECs (HRECs) and other known or suspect environmental conditions, as defined in the Standard and in Section 1 of this report are identified in the Phase I.

This assessment has revealed the following HRECs in connection with the property as defined in the Standard and in Section 1 of this report and DTSC recommended guidance for Phase I assessments.

1. The subject site is listed on the Federal ERNS (Emergency Response Notification System) list.

   The Federal ERNS list is maintained by the National Response Center. Review of information regarding the listing on the Natural Response Center website database revealed the listing was due to a non-PCB transformer leak reported on December 29, 2003. According to the report, 20 gallons of oil material (non-PCB mineral) was released to water from two pole mounted transformers due to mudslides. The material released was listed as Oil, MISC: Mineral (Non-PCB). The report indicated that the leak was a single, isolated incident, the water supply was not contaminated, and the release was secured.

2. Review of the Santa Ana Regional Water Quality Control Board (RWQCB) file on the subject site revealed a sewage spill on the subject site on February 13, 1987. The sewage spill reportedly happened at the sewer man hole near the cabana pool area. The sewage flowed towards Strawberry Creek, but did not reach the creek. Approximately 100,000 gallons of sewage was spilled. An inspector visited the area after the spill had been cleaned and noted that the area of the spill was down a steep hill that did not appear to be visited often. The inspector did not make any other comments regarding the spill.

3. There are six historical underground storage tanks (USTs) located on the subject site. Review of the San Bernardino County Fire Department CUPA files revealed that five USTs were removed from the site on February 15, 1989. The remaining UST was approved to be abandoned in place in July of 1989, however no documentation indicates the UST was filled. According to an inspector at the San Bernardino County Fire Department, Hazardous Materials division, there are currently no environmental concerns associated with the six historical USTs located at the subject site.

SUMMARY

Based on the results of this assessment, two RECs, associated with the subject site were identified. Spilled waste oil was observed near the maintenance buildings of the subject site. The Planning Center recommends having the oil impacted soils and materials be properly removed and disposed of in accordance with all local, state, and federal regulations. Based on the age of the sewage treatment facility it is possible that metals have leached and accumulated in the soil under and in areas surrounding the drying beds. The Planning Center recommends a soil samples be collected and analyzed for elevated concentrations of metals in the vicinity of the drying beds.

The remainder of this report contains additional information regarding the Phase I work performed, the resulting findings summarized above, and limitations affecting this report.

SECTION 1. INTRODUCTION

1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I) was performed in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) E 1527-00 Standard. The subject site is 556 acres in size and is currently developed. The American Development Group, Inc is proposing the development of a mixed-use project located in the vicinity of the current historic resort in Arrowhead Springs, San Bernardino County, California. The proposed development contains various commercial buildings, a conference center and spa resort, an 18-hole golf course, and approximately 1,350 residential units. The site is located on Arrowhead Springs Road, east of the intersection of Arrowhead Springs Road and Old Waterman Canyon Road (Figure 1).

The purpose of this assessment was to evaluate site history, existing observable conditions, current site use, and current and historic uses of surrounding properties to identify the potential presence of Recognized Environmental Conditions (RECs) in connection with the subject site. RECs are defined by ASTM 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 a 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 minimis 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 minimis are not recognized environmental conditions."

In addition, the Standard requires that historical RECs (HRECs) and known or suspect environmental conditions are identified in the Phase I report. The standard defines historical RECs as environmental conditions "which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently." The term "known or suspect environmental condition" is not specifically defined in the standard, but is used by The Planning Center, Inc. (The Planning Center) to highlight environmentally-related information that is not anticipated to adversely affect the subject site and/or does not rise to the level of an REC.

Our conclusions are intended to help the user evaluate the "environmental risk" associated with the site, defined by ASTM as "a risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate. Consideration of environmental risk issues may involve addressing one or more non-scope considerations."

1.2 SITE IDENTIFICATION

The 556-acre project site is located within Arrowhead Springs, San Bernardino County, California. The project site is generally located on Arrowhead Springs Road, east of the intersection of Old Waterman Canyon Road Arrowhead Springs Road (Figure 2). The site is located northeast of the I-215 and north of CA-30. The project site street address is 2600 Arrowhead Springs Road and encompasses twenty parcels including Assessor's Parcel Numbers (APN) 0270-021-03, 0270-081-11, 0270-071-06, 0270-071-02, 0270-081-02, 0270-061-12, 0270-071-07, 0270-071-03, 0270-071-04, 0270-081-03, 0270-081-04, 0270-101-02, 0270-101-12, 0270-101-13, 0270-092-01, 0270-092-02, 0270-092-03, 0270-111-03, 0270-111-08, and 0155-182-15.

1.3 DETAILED SCOPE OF SERVICES

The Planning Center performed the following detailed scope of services to complete our Phase I assessment:

1. Visual observations of site conditions, and of abutting property use, to evaluate the nature and type of activities that have been or are being conducted at and adjacent to the site, in terms of the potential for release or threat of release of hazardous substances or petroleum products.

2. Review of federal and state environmental database information within the ASTM- specified radii from the subject property using a database service to access records. Use of 7.5-minute topographic maps to evaluate the site's physical setting.

3. Review of federal and state environmental files pertaining to the subject site and nearby sites with the potential to impact the subject site.

4. Review of previous reports (if any) prepared for the subject site.

5. Review of the following sources of historical use information:

   - Aerial Photographs
   - Historical Topographic Maps

6. Contacts with state and local agencies regarding the site and surrounding properties and structures.

7. Interviews with the Key Site Manager and property tenant representatives (if any).

8. Interpretation of information and data assembled as a result of the above work tasks, and formulation of conclusions regarding the potential presence and impact of RECs as defined by the ASTM E 1527-00 Standard.

1.4 NON-SCOPE CONSIDERATIONS

The ASTM E 1527-00 Standard includes the following list of "additional issues" that are non-scope considerations outside of the scope of the ASTM Phase I practice: Asbestos-Containing Materials, Radon, Lead-Based Paint, Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Risks, Industrial Hygiene, Health and Safety, Ecological Resources, Endangered Species, Indoor Air Quality, and High Voltage Power Lines. The additional issues included in this Phase I include the following:

- A review of agency records to identify high-pressure gas lines and fuel transmission lines in the vicinity of the subject property;
- A review of geological references for the presence of naturally occurring asbestos;
- Prior usage of subject property for agricultural purposes, mining activities, illegal drug manufacturing and disposal, and U.S. Government ownership; and

- The possibility of asbestos-containing materials and lead-based paint used in building construction.

1.5 EXCEPTIONS AND DEVIATIONS

1.5.1 Exceptions

The Planning Center has completed this assessment in substantial conformance with ASTM E 1527-00. In our opinion, there were no exceptions made to the ASTM work scope.

1.5.2 Deviations

The Planning Center completed this assessment in substantial conformance with the ASTM E 1527-00 Standard. In our opinion there were no deviations and deletions made from the ASTM work scope in completing this Phase I.

1.6 LIMITATIONS

Our work for this project was performed generally consistent with the ASTM E 1527-00 Standard for Phase I Environmental Site Assessments. Several organizations other than ASTM, such as professional associations (e.g. ASFE and AGWSE) have also developed "guidelines" or "standards" for environmental site assessments. The Phase I presented herein is consistent with the ASTM E 1527-00 Standard, which may vary from the specific "guidelines" or "standards" required by other organizations.

This Report was prepared pursuant to an Agreement dated February 3, 2005 between the American Development Group and The Planning Center. All uses of this Report are subject to, and deemed acceptance of, the conditions and restrictions contained in the Agreement. The observations and conclusions described in this Report are based solely on the Scope of Services provided pursuant to the Agreement. The Planning Center has not performed any additional observations, investigations, studies or other testing not specified in the Agreement. The Planning Center shall not be liable for the existence of any condition the discovery of which would have required the performance of services not authorized under the Agreement.

This Report is prepared for the exclusive use of the American Development Group in connection with the proposed Arrowhead Springs Resort. There are no intended beneficiaries other than the American Development Group. The Planning Center shall owe no duty whatsoever to any other person or entity on account of the Agreement or the Report. Use of this Report by any person or entity other than the American Development Group any purpose whatsoever is expressly forbidden unless such other person or entity obtains written authorization from the American Development Group and from The Planning Center. Use of this Report by such other person or entity without the written authorization of the American Development Group and The Planning Center shall be at such other person's or entity's sole risk, and shall be without legal exposure or liability to The Planning Center.

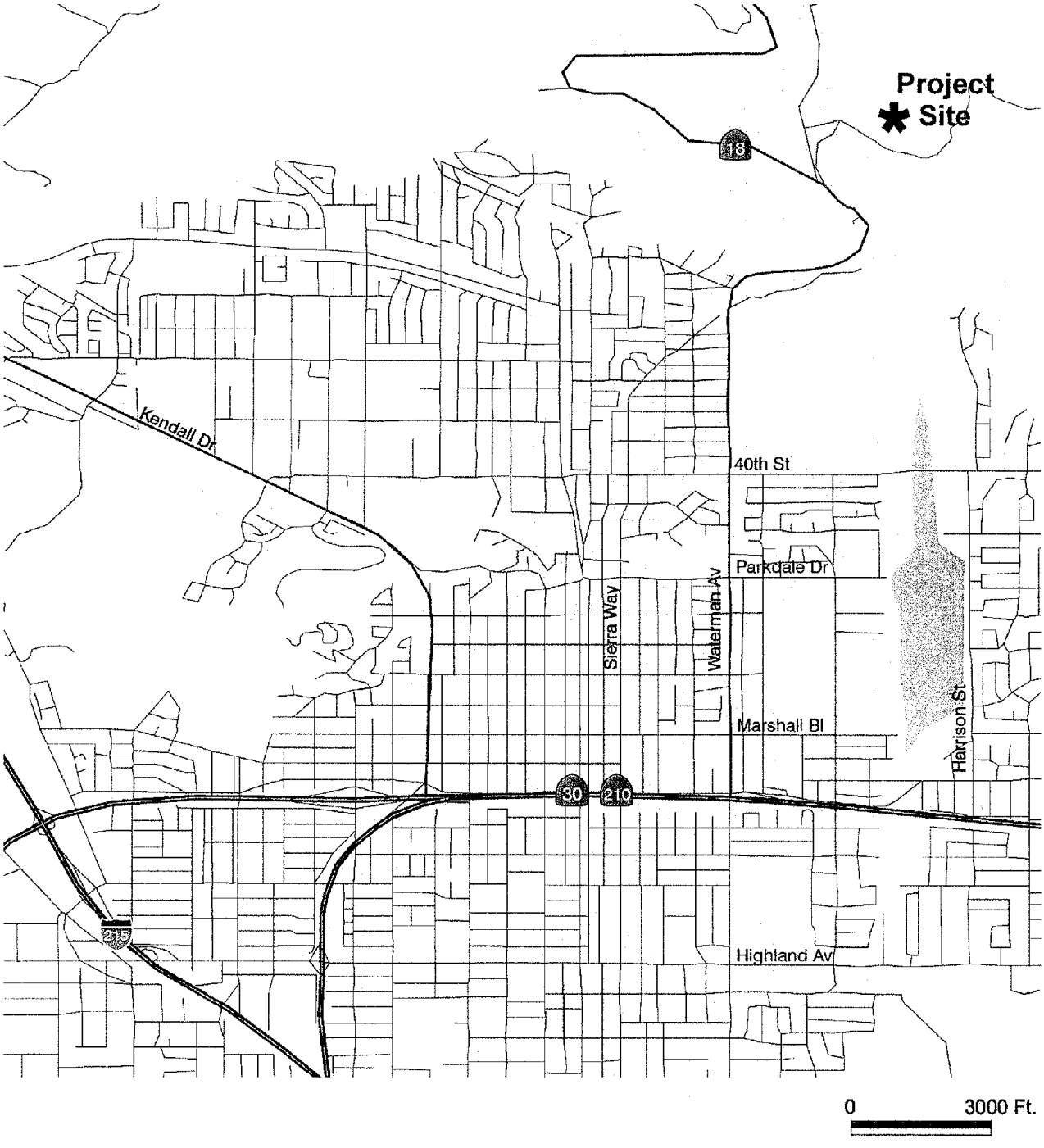
Use of this Report by any person or entity, including by the American Development Group, for a purpose other than the proposed Arrowhead Springs Resort Mixed Use Project Site is expressly prohibited unless such person or entity obtains written authorization from The Planning Center indicating that the Report is adequate for such other use. Use of this Report by any person or entity for such other purpose without written authorization by The Planning Center shall be at such person's or entity's sole risk and shall be without legal exposure or liability to The Planning Center.

This Report reflects site conditions observed and described by records available to The Planning Center as of the date of report preparation. The passage of time may result in significant changes in site conditions, technology, or economic conditions, which could alter the findings and/or recommendations

of the report. Accordingly, the American Development Group and any other party to whom the report is provided recognize and agree that The Planning Center shall bear no liability for deviations from observed conditions or available records after the time of report preparation.

Use of this Report by any person or entity in violation of the restrictions expressed in this Report shall be deemed and accepted by the user as conclusive evidence that such use and the reliance placed on this Report, or any portions thereof, is unreasonable, and that the user accepts full and exclusive responsibility and liability for any losses, damages or other liability which may result.

Site Location Map



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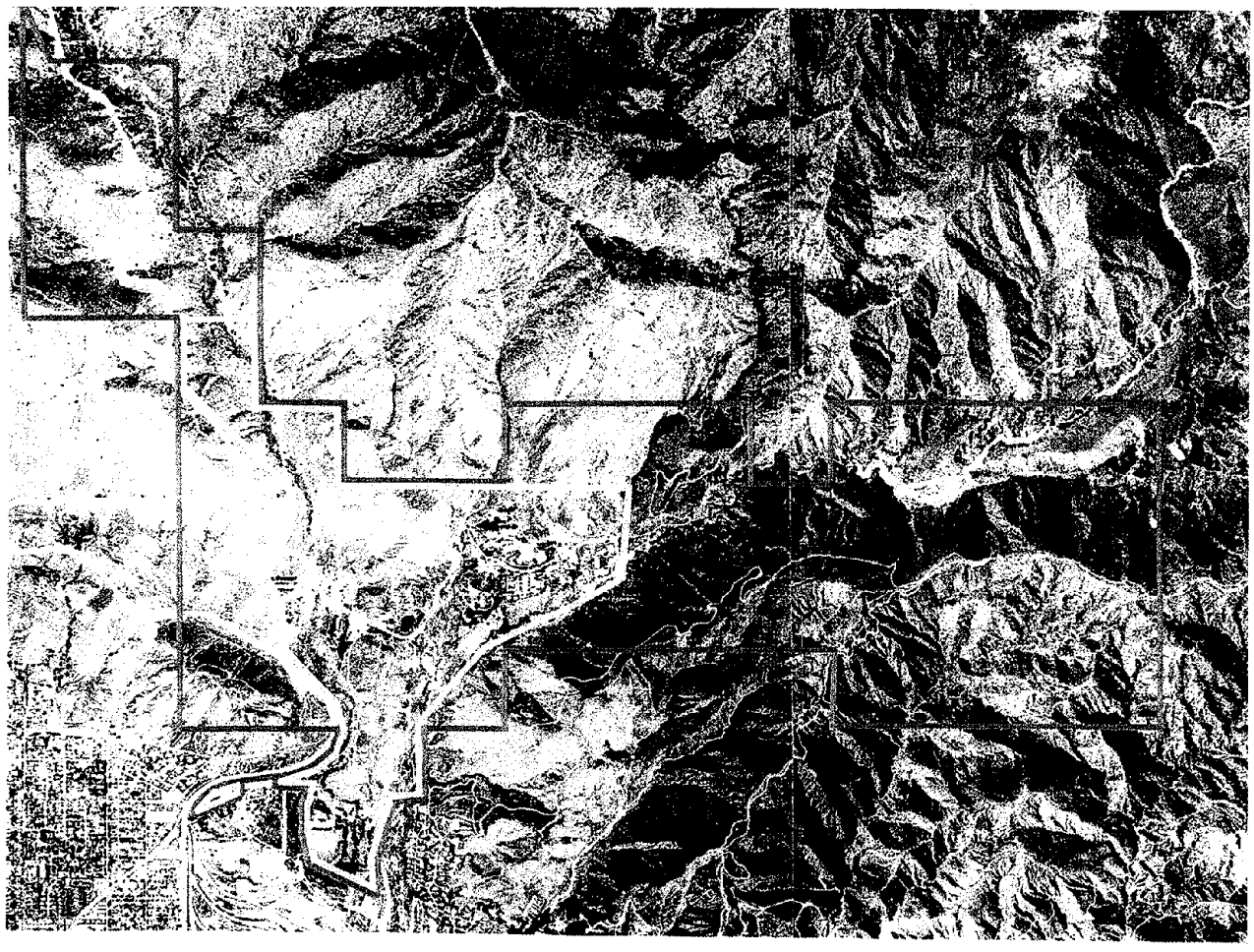
Arrowhead Springs Location



General Area for Proposed Development

Property Boundary

NOT TO SCALE

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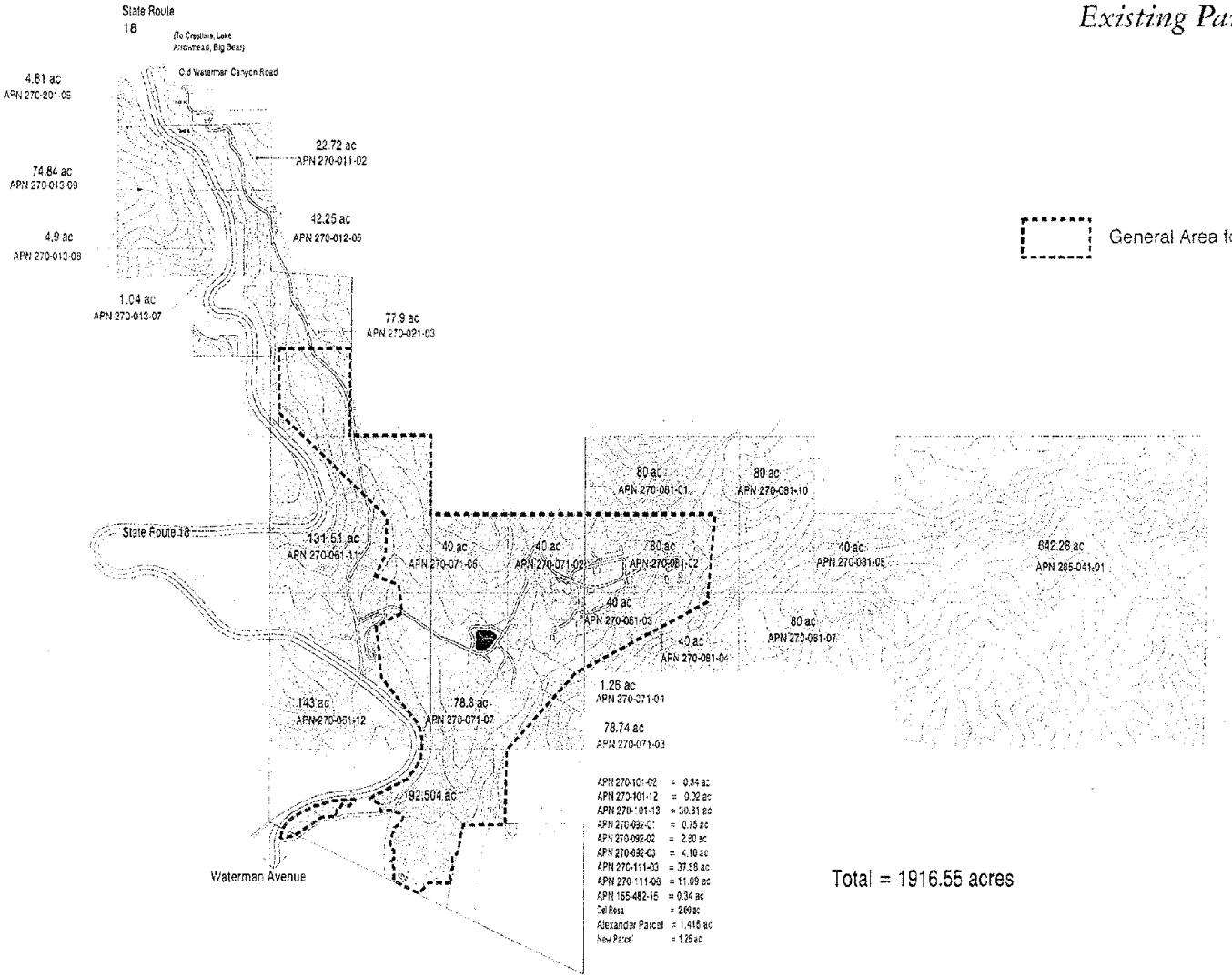
Existing Parcel Information



Source: American Development Group

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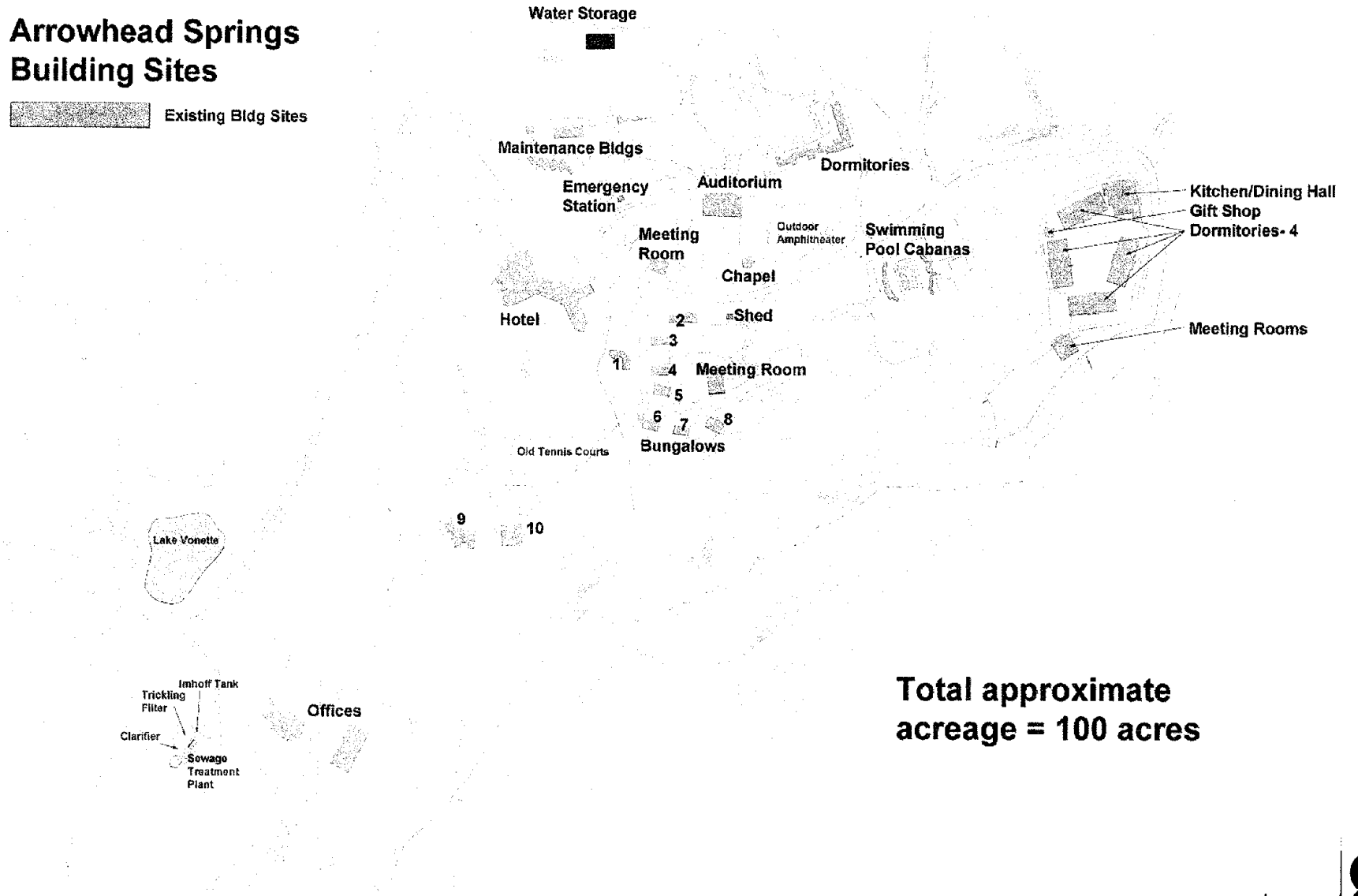
Current and Historical Site Layout



Source: American Development Group

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SECTION 2. SITE DESCRIPTION

2.1 SITE OWNERSHIP AND LOCATION

2.1.1 Name of Site Owner

American Development Group, Inc
24600 Arrowhead Springs Road
Arrowhead Springs, San Bernardino County, California

2.1.2 Name of Site Operator

The project site is currently developed with the Arrowhead Springs Resort operated by Campus Crusade for Christ, International. The resort currently consists of approximately 34 buildings including a hotel, an auditorium, a chapel, dormitories, a pool and cabanas, residential bungalows, office buildings, and maintenance buildings. However, only the office, maintenance, and select bungalow buildings are currently utilized.

2.1.3 Site Location Map

The United States Geological Survey (USGS) topographic map for the site is the San Bernardino North, California Quadrangle. The USGS topographic map was used as the source for site setting information. The site is located in San Bernardino County at 34.1867° north latitude and 117.2617° west longitude.

2.2 SITE AND VICINITY DESCRIPTION

The historic Arrowhead Springs Hotel and surrounding properties are planned for development through a Specific Plan to be processed through the City of San Bernardino as a policy document or regulatory document for the City to use as a guide for the development. The Arrowhead Springs Hotel and surrounding land is under ownership of the Campus Crusade for Christ. This hotel and properties was once the headquarters of the Campus Crusade for Christ prior to relocating to Florida.

The water resources of the area include hot and cold springs, surface streams and groundwater. The hot springs known to the mission fathers as "Aqua Caliente" (hot water) and was to be believed to have healing qualities. In 1857, Dr. David Noble Smith along with John Brown developed the springs and created the Spa at Arrowhead Springs in 1863 also known as a Hygienic Sanitarium.

The first Arrowhead Hotel was built by David Noble Smith around 1868, and Messrs. Darby and Lyman of Los Angeles, who had been leasing the Hotel from Dr. Smith, built the second Arrowhead Springs Hotel in 1885. A third Arrowhead Springs Hotel was constructed in 1905, by San Bernardino businessman Seth Marshall and he started bottling "Arrowhead Springs Water", actually water from Waterman Creek, to supply customers in southern California and Arizona. In 1930, the water supply changed from Waterman Creek to springs at the 5300-foot level in Strawberry Creek to upgrade the changing water quality in Waterman Creek due to the development of homes nearby.

In 1939, a new concrete hotel was constructed and after a number of owners, it was sold to Campus Crusade for Christ in 1962 and they still own the hotel and property at the present time.

The naturally formed Arrowhead on the mountainside northerly of the hotel has withstood many fires and in 1957, the United States National Forest Service designated the natural Arrowhead a "Landmark Geological Area."

During the periods of the hotel ownerships and Campus Crusade for Christ, the water resources have been expanded and restored and are in operation as of today.

- The subject site is approximately 556 acres in size. Figure 2 is a Site Plan and shows relevant site features.

- The site is currently developed with approximately 34 buildings: one hotel, ten residential bungalows, four dormitories, three maintenance buildings, two auditoriums, two office buildings, two swimming pool cabanas, one lodge, one chapel, one guard house, and seven miscellaneous buildings. However, the site has not been utilized as a resort for two years and only the office, maintenance, and select bungalow buildings are currently utilized.

- The area in the vicinity of the subject property is generally characterized as natural, undeveloped land.

- There are no residential uses immediately adjacent to the north, east, or west of the site. Existing roadways and natural, undeveloped land separate the subject site from the nearest residential uses to the north, east, and west. The southern end of the subject site lies adjacent to residential properties; however the southern end of the subject site is not currently developed.

2.3 PHYSICAL SETTING

Subsurface explorations were not performed for this evaluation; therefore site geology and hydrology were evaluated on the basis of readily-available public information or references, and/or based upon our experience and understanding of subsurface conditions in the subject property area.

2.3.1 Topography

Topographically, the site is hilly terrain that generally slopes to the south. Based on a review of the USGS 7.5-minute Topographic Series, San Bernardino North, California Quadrangle Map (USGS 1981), surface elevation of the subject property ranges from approximately 1,480 feet to 2,400 feet above mean sea level (msl).

2.3.2 Geologic Information

The site is located in the San Bernardino Mountains on the southern margin of the Transverse Ranges Geomorphic Province. The San Bernardino Mountains subprovince of the Transverse Ranges Geomorphic Province extends approximately 60 miles eastward from the San Andreas Fault in the Cajon Pass area to the Pinto Mountain Fault, west of Morongo Valley. The San Bernardino Mountains are for the most part characterized by a subdued, plateau-like topography, though Mount San Gorgonio, at 11,499 feet above msl, is the highest peak in southern California (CSULB 2003). The site is located on late Quaternary to Holocene alluvium, Cretaceous monzogranite, and Mesozoic to Proterozoic gneiss (Morton and Miller 2003).

Our review of available in-house literature indicates that the Mill Creek and San Andreas Faults traverse the site, and portions of site, in the southern section, are located within an Alquist-Priolo Earthquake Fault Zone (Hart and Bryant 1999). The principal seismic hazards that could affect the site are surface rupture and ground shaking resulting from an earthquake occurring along one of these active or potentially active faults. The San Andreas Fault, located on the southern

portion of the site, is a known active fault. The Mill Creek Fault, located in the central, developed portion of the site, is a potentially active fault. It is currently understood that the Mill Creek Fault was the active trace of the San Andreas Fault until the late Quaternary, when the current strand of the San Andreas became the preferred zone of displacement (Jennings 1994). The trace of the Mill Creek Fault tends to correlate well with the location of the various hot springs on the site. Other known regional active and potentially active faults that could produce significant ground shaking at the site include the San Jacinto and Cleghorn Faults, located approximately 4.8 and 6 miles, respectively, from the site.

According to the California Division of Mines and Geology (CDMG), no naturally-occurring serpentine rock or rock formations that may contain a significant quantity of asbestos are located in the site vicinity (CDMG 2000).

2.3.3 Ground Water and Surface Water Information

Based on surface topography, surface water at the site generally flows to the south. Also based on topography, regional groundwater flow is anticipated to be to the south. East Twin Creek, the main creek on the site that flows out of Coldwater Canyon, is also fed by Strawberry Creek and Hot Canyon Creek. Also, Waterman Canyon Creek is located on the western portion of the site. Hydrogeologic investigations were not performed on the site for this investigation; therefore, it is unknown to what extent localized variations in groundwater presence and flow occur on the site.

According to the Flood Insurance Rate Map (FIRM) for the site, the developed areas of the subject site are not located within a 100-year floodplain. However, the local creeks that run through the site are located within a 100-year floodplain. The site is serviced by Arrowhead Water and Power, which provides potable water to the community of Arrowhead Springs. There are no monitoring wells located on the property. However, there are nine active pumping wells on the property. Four of the wells are freshwater, cold wells, two are hydrothermal, hot wells, and the remaining three are used to supplement irrigation and fire suppression as needed. All of the water for the site is from onsite wells.

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SECTION 3. PREVIOUS REPORTS

The following reports were reviewed for this assessment:

- *2400V Primary Electrical Distribution System* prepared by Power Engineering Services Incorporated for Campus Crusade for Christ dated January 25, 1984. Review of the report indicated that individual capacitors located on the subject site were filled with Polychlorinated Biphenyls (PCB). Power Engineering Services Incorporated recommended the PCB filled capacitors be replaced with non-PCB filled units.

- *Building Inspection and Bulk Sampling Report* prepared by Crawford & Co. for Campus Crusade for Christ, International dated June 12, 1991. Review of the report revealed that an asbestos containing material (ACM) survey was conducted on May 20-24, 1991 for the Hotel, the Village Auditorium, the Hacienda, the Springhouse and one Bungalow Building. The Bulk ACM survey found ACM in the Hotel, Village Auditorium, Hacienda, and Springhouse. Crawford & Co. recommended all damaged ACM be replaced, warning signs be posted on all ACM, and to develop and implement an ACM Operations and Maintenance (O&M) Plan for the buildings.

- *Archaeological Survey for the Arrowhead Springs Project, San Bernardino County, California* prepared by SWCA Environmental Consultants for The Planning Center dated January 2005. Review of the report reveled that the subject site has been occupied since approximately 1850. The subject site has been used small for logging operations, three different hospitals, and four different hotels.

  SWCA indicated there are three possible historic trash pits and one historic incinerator located on the subject site based on their investigation and previous research done on the site. One site is reported to have been a short-term or single depositional episode occurring around 1920 to 1925. Items found near the site were representative of household trash. The location of this site was not mentioned in the SWCA report. Another site consists of a chimney and foundation of a historic incinerator and an associated trash pit. This location is believed to represent deposition between 1930 and 1945 and contains hotel wares, beverage containers, condiment jars and serving pieces. The chimney and foundation of the incinerator are still intact; however the area of the associated trash pit has been impacted by clean-up from recent fires. This area is located southwest of the current hotel location. The third site contained trash deposits from approximately the 1940s to the 1960s. The area that was examined was a portion of the trash pit located within the Metropolitan Inland Feeder Project Working Limits, but a denser concentration of trash is believed to exist outside of and south of the area tested.

Copies of portions of the reports reviewed are included in Appendix D.

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SECTION 4. SITE HISTORY

4.1 PAST USAGE OF THE SITE

Past usage of the site was assessed through a review of historical aerial photographs, historical topographic maps, previous reports, a 1931 county survey map, and a 1950 fire insurance map. Copies of historical references reviewed are included in Appendix A.

According to 1931 county survey map, historical aerial photographs, and topographic maps, the area of the site currently developed has been developed since at least 1901, and small portions of the site were used for agricultural purposes (orchards and row crops) until at least 1938.

4.1.1 Aerial Photographs

Aerial photographs covering the entire area of the site were not available from Geo-Search. However, aerial photographs covering the developed areas were obtained from Geo-Search for the years 1938, 1953, 1968, 1980, 1994, and 2002 and were reviewed for the developed portion of the subject site. Copies of the aerial photographs are included in Appendix A.

- 1938 – Small areas of the site appear to be used for agricultural purposes (orchards and row crops). The site was improved with a hotel building, approximately five of the current bungalow buildings, and various small structures. The remainder of the site appears to consist of vacant, undeveloped land, various unpaved roadways, and streams.

- 1953 – Areas of the site previously used for agricultural purposes appear to have been cleared and are no longer used for agricultural purposes. The subject site was developed with various structures including the current hotel, the current auditorium, some of the current maintenance buildings, the sewage treatment facility, and the current swimming pool and cabanas. The remainder of the site appears relatively unchanged in comparison to the 1938 aerial photograph.

- 1968 – The subject site was developed with the current dormitories and lodge, amphitheater, office buildings, and the sewage treatment plant. Six evaporation ponds associated with the sewage treatment plant can be seen near the sewage treatment plant and office buildings. The remainder of the subject site appears relatively unchanged in comparison to the 1953 aerial photograph.

- 1980 – The subject site appears relatively unchanged in comparison to the 1968 aerial photograph.

- 1994 – The subject site appears relatively unchanged in comparison to the 1968 aerial photograph.

- 2002 – The subject site was developed with a soccer field. The remainder of the subject site appears relatively unchanged.

4.1.2 Historical Topographic Maps

Historical Topographic Maps were obtained from Environmental Data Resources (EDR) of Milford, Connecticut for the years 1901, 1954, 1967, 1967 (photorevised in 1973), 1967 (photorevised in 1980),1967 (photorevised in 1988), and 1996. Copies of the historical

topographic maps are included in Appendix A.

- 1901 – The subject site is depicted by two buildings on the 1901 topographic map.
- 1954 – The subject site is depicted as a hotel and many buildings. A cemetery is depicted northeast of the current hotel location. Water tanks are depicted in the location of the current sewage disposal site.
- 1967 – The subject site is depicted as a hotel and other buildings. Roads on the resort are depicted in their current location. The sewage disposal site is depicted in its current location.
- 1967 (photorevised 1973) – The subject site is depicted as a hotel and other buildings. The office buildings, Lake Vonette, and the village are depicted in their current locations.
- 1967 (photorevised 1988) – The subject site appears relatively unchanged in comparison to the 1967, photorevised in 1973, historical topographic map.
- 1996 – The subject site appears relatively unchanged in comparison to the 1967, photorevised in 1988, topographic map.

4.1.3 Prior Agricultural Use

Based on a review of aerial photographs, small areas of the site consisted of orchards and row crops until at least 1938. The agricultural areas were cleared and no longer used for agricultural purposes prior to 1953. Based on the age of the agricultural usage of the site, the potential for residual pesticides to be present at levels of concern is not likely.

4.1.4 Mines

Based on the review of historical sources (aerial photographs) and the database search report, there is no evidence to indicate that the site was ever utilized for mining operations.

4.1.5 Illegal Drug Manufacturing

The proposed site was not identified by the California Hazardous Material Incident Report System (CHMIRS) which is maintained by the California Office of Emergency Services and contains information regarding hazardous material incidents such as accidental releases or spills. Drug-related waste was not observed on the site during the site inspection.

4.1.6 Prior U.S. Government Ownership

According to Mr. Rod Garton, during and following WWII, the hotel and grounds were used by the Navy as a hospital. There are no indications that the property was owned by the U.S. Government or utilized for military operations other than during those years.

4.2 PAST USAGE OF ADJOINING PROPERTIES

Based on review of historical aerial photographs, the adjoining properties consist of undeveloped, natural land.

4.2.1 Aerial Photographs

Aerial photographs for the site, obtained from Geo-Search, dated 1938, 1953, 1968, 1980, 1994, and 2002 were reviewed for the adjoining properties and are included in Appendix A.

- 1938 – The north and east adjoining properties appear to consist of undeveloped, natural land. Local roadways appear to the north and east. The west and south adjoining properties are not shown on the 1938 aerial photograph.

- 1953 – No major changes to the north and east adjoining properties were observed in comparison to the 1938 aerial photograph. The west and south adjoining properties are not shown on the 1953 aerial photograph.

- 1968 – No local roadways appear to the east. No other major changes to the north and east adjoining properties were observed in comparison to the 1953 aerial photograph. The west and south adjoining properties are not shown on the 1968 aerial photograph.

- 1980 – No local roadways were observed to the north. No other major changes to the north and east adjoining properties were observed in comparison to the 1968 aerial photograph. The west and south adjoining properties are not shown on the 1980 aerial photograph.

- 1994 – The east adjoining property was developed with one structure. No major changes to the north adjoining property were observed in comparison to the 1980 aerial photograph. The west and south adjoining properties are not shown on the 1994 aerial photograph.

- 2002 – No major changes to the north and east adjoining properties were observed in comparison to the 1994 aerial photograph. The west and south adjoining properties are not shown on the 2002 aerial photograph.

4.2.2 Historical Topographic Maps

Historical Topographic Maps were obtained from Environmental Data Resources (EDR) of Milford, Connecticut for the years 1901, 1954, 1967, 1967 (photorevised in 1973), 1967 (photorevised in 1980),1967 (photorevised in 1988), and 1996. Copies of the historical topographic maps are included in Appendix A.

- 1901 – The north, east, and west adjoining properties were not depicted on the 1901 topographic map. The south adjoining property was depicted as lightly developed with single-family residential-type buildings.

- 1954 – The north, east, and west adjoining properties were not depicted on the 1954 topographic map. The south adjoining property was depicted as agricultural land.

- 1967 – The north, east, and west adjoining properties are not depicted on the 1967 topographic map. The south adjoining property was depicted with single-family residential-type buildings.

- 1967 (photorevised 1973) – No major changes to the adjoining properties were revealed in comparison to the 1967 topographic map.

- 1967 (photorevised 1988) – No major changes to the adjoining properties were revealed in comparison to the 1967 (photorevised 1973) topographic map.

- 1996 – No major changes to the adjoining properties were revealed in comparison to the 1967 (photorevised 1988) topographic map.

SECTION 5. ENVIRONMENTAL RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORDS REVIEW

The Planning Center utilized the electronic database service Environmental Database Resources (EDR) to complete the environmental records review. The database search was used to identify properties that may be listed in the referenced Agency records, located within the ASTM-specified search radii. Due to the large area of the subject site, the search distances were increased by ½ mile as indicated below:

- NPL sites: ..... 1.5 mile
- CERCLIS sites: ..... 1 mile
- CERCLIS NFRAP sites ..... Site and Adjoining
- Federal ERNS: ..... Site only
- RCRA non-CORRACTS TSD facilities: ..... 1 mile
- RCRA CORRACTS TSD facilities: ..... 1.5 mile
- RCRA Generators: ..... Site & Adjoining
- State Hazardous Waste Sites: ..... 1.5 mile
- Registered Underground Storage Tanks: ..... Site & Adjoining
- State Landfills and Solid Waste Disposal Sites: ..... 1 mile
- State Leaking Underground Storage Tanks: ..... 1 mile

A review of selected regulatory agency databases for documented environmental concerns on the site, or in close proximity to the site, was conducted by EDR (a copy of the EDR Report dated February 1, 2005 is included in Appendix B). The subject property was identified on the ERNS database. Following is a summary of information provided for each of the above-listed databases.

5.1.1 NPL Sites

The National Priorities List (NPL) is a list of contaminated sites that are considered the highest priority for clean-up by the EPA.

- The subject site is not listed on the NPL List.
- The database search did not identify any NPL sites within a one- and one-half-mile radius of the subject site.

5.1.2 CERCLIS Sites

The Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) list identifies sites which are suspected to have contamination and require additional investigation to assess if they should be considered for inclusion on the NPL.

- The subject site is not listed on the CERCLIS List.
- The database search did not identify any CERCLIS sites within a one-mile radius of the subject site.

5.1.3 CERCLIS-NFRAP Sites

CERCLIS-NFRAP status indicates that a site was once on the CERCLIS List but has No Further Response Actions Planned (NFRAP). Sites on the CERCLIS-NFRAP List were removed from the CERCLIS List in February 1995 because, after an initial investigation was performed, no contamination was found, contamination was removed quickly, or the contamination was not significant enough to warrant NPL status.

- The subject site is not listed on the CERCLIS-NFRAP List.
- The database search did not identify any CERCLIS-NFRAP sites adjacent to the subject site.

5.1.4 Federal ERNS List

The Federal Emergency Response Notification System (ERNS) list tracks information on reported releases of oil and hazardous materials.

- The subject site is listed on the Federal ERNS list. No information regarding the listing was provided in the environmental database.

  The Federal ERNS list is maintained by the National Response Center. Review of information regarding the listing on the Natural Response Center website database revealed the listing was due to a non-PCB transformer leak reported on December 29, 2003. According to the report, 20 gallons of oil material (non-PCB mineral) were released to water from two pole mounted transformers due to mudslides. The material released was listed as Oil, MISC: Mineral (Non-PCB). The report indicated that the leak was a single, isolated incident, the water supply was not contaminated, and the release was secured.

5.1.5 RCRA Non-CORRACTS TSD Facilities

The Resource Conservation and Recovery Act (RCRA) non-CORRACTS TSD Facilities List tracks facilities which treat, store, or dispose of hazardous waste and are not associated with corrective action activity.

- The subject site is not listed as a RCRA non-CORRACTS TSD facility.
- The database search did not identify any RCRA non-CORRACTS TSD facilities within a one-mile radius of the subject site.

5.1.6 RCRA CORRACTS TSD Facilities

The RCRA CORRACTS TSD Facilities list catalogues facilities that treat, store, or dispose of hazardous waste and have been associated with corrective action activity.

- The subject site is not listed as a RCRA CORRACTS TSD facility.
- The database search did not identify any RCRA CORRACTS TSD facilities within a one- and one-half-mile radius of the subject site.

5.1.7 RCRA Generators

The RCRA Generator list is maintained by the EPA to track facilities that generate hazardous waste.

- The subject site is not listed as a RCRA Hazardous Waste Generator.
- The database search did not identify any RCRA Hazardous Waste Generators sites adjacent to the subject site.

5.1.8 State Sites and State Spill Sites

The Cal-Sites database, maintained by the DTSC, contains both known and potential hazardous substance sites.

- The subject site is not listed as a State Site or State Spill Site.
- The database search did not identify State Sites and State Spill Sites within a one- and one-half mile radius of the subject site.

5.1.9 Cortese List

The Cortese list database identifies hazardous waste sites selected for remedial action and underground storage tank (UST) properties having a reportable release and is maintained by the EPA/Office of Emergency Information.

- The subject site is not listed on the Cortese List.
- The database search did not identify Cortese sites within a within a one and one-half-mile radius of the subject property.

5.1.10 Registered Underground Storage Tanks (USTs)

The State Water Resources Control Board's Hazardous Substance Storage Container Database maintains a list of USTs regulated by the Resource Conservation and Recovery Act.

- The subject site is not listed on the registered UST list.

  Further information regarding active and historical USTs at the subject site is discussed in Section 5.2.2 of this report.

- The database search did not identify any registered USTs adjacent to the subject site.

5.1.11 State Landfills and Solid Waste Disposal Sites

The database search did not identify any State Landfills or Solid Waste Disposal Sites within a one-half mile radius of the subject site.

5.1.12 State Leaking Underground Storage Tanks

The State Water Resources Control Board Leaking Underground Storage Tank Information System contains an inventory of Leaking Underground Storage Tank (LUST) Incident Reports.

- The subject site is not listed on the LUST list.
- The database search did not identify any LUST facilities within a one-mile radius of the subject site.

5.1.13 MINES

The Department of Labor, Mines Safety, and Health Administration maintains the Mines Master Index File. The database is updated semi-annually.

- The subject site is not listed on the MINES list.
- The database search did not identify MINES sites adjacent to the subject site.

5.2 ADDITIONAL ENVIRONMENTAL RECORDS REVIEW

In conformance with ASTM inquiry was made with representatives of the agencies described below and with the user of this Phase I.

5.2.1 Proximity to High-Pressure Gas Lines or Fuel Transmission Lines

The Underground Service Alert (USA) website was accessed on February 2, 2005, to request a list of utility companies in the vicinity of the subject property that may operate transmission lines. USA provided a list of seven companies, including the Southern California Gas Company (SCGC) which provides gas services in the vicinity of the subject property. SCGC markers indicating the locations of high pressured gas lines were observed on the subject site during the site visit. (Appendix C).

5.2.2 San Bernardino County Fire Department CUPA

The Planning Center Contacted the County of San Bernardino Fire Department Certified Unified Program Agency (CUPA) in person on February 23, 2005. Review of the subject site's file revealed six underground storage tanks were removed or abandoned at the subject site in 1989.

Five USTs were removed under permit number SB-73-88 on February 1, 1989. Soil samples were taken from soils in the vicinity of the USTs at the maintenance building and the ranger station by Alms Services, Inc. The job inspection record indicates that the site will be final and approved for backfill upon test results. Test results provided to the County of San Bernardino Department of Environmental Health (DEH) dated March 9, 1989 were located in the file. A closure letter was not included in the file, however based an interview with Mr. Curtis Brundage, of the San Bernardino County Fire Department Hazardous Materials Division, there are no environmental concerns associated with the five tanks removed at the subject site.

The remaining historic UST is located adjacent to the current hotel. Research revealed plans to fill this UST in place based on the proximity to the hotel foundation. Water was properly removed from the tank and soil samples were taken in the vicinity of the UST. Based on the samples collected, the DEH issued a letter, dated May 10, 1989, stating residual hydrocarbon contamination near the hotel UST was not at a level to warrant further investigation. A letter approving the closure of the hotel UST by filling in place was dated July 25, 1989. No documentation indicating that the UST was filled is available in the files reviewed. According to Mr. Brundage, although a closure letter cannot be issued based on the lack of documentation that the UST was properly filled-in place, the area surrounding the site is not contaminated and the UST does not represent an environmental concern at this time.

Two active USTs currently exist on the subject site. The USTs are operated under the current permit numbers PT0011599 and PT0011600. The USTs were upgraded in 1998 and soils were sampled in conjunction with the upgrades. A "no further investigation" letter was issued for the active USTs on January 29, 1999, and an upgrade compliance certificate was issued on February 3, 1999.

Copies of UST documentation obtained from the San Bernardino County Fire Department CUPA are included in Appendix C.

5.2.3 *Santa Ana Regional Water Quality Control Board*

A file review was conducted at the Santa Ana Regional Water Quality Control Board (RWQCB) on February 17, 2005. Files available for review date back to 1986. Review of the files revealed the sewage treatment is regulated by Waste Discharge Requirements specified in Order No. 86-100. Order No. 86-100 was adopted for the subject site on June 13, 1986. The facility operates under Waste Discharger System (WDS) number 8 361003001. The facility had no violations recorded in the file. The monitoring records reviewed indicated that the wastewater was repeatedly over the permitted limit for total dissolved solids and hardness, and over the permitted limit for sodium, sulfate, chloride, and fluoride on multiple occasions. No actions were taken regarding the elevated concentrations. Mr. Norton noted that the permit levels were based on the use of surface water, but the subject site is now using deep groundwater that is of poorer quality. Mr. William Norton, inspector, indicated in the July 11, 2001 inspection report that it is very possible that the elevated concentrations are caused from the change to a poorer quality water source.

Files revealed a sewage spill on the subject site on February 13, 1987. The sewage spill reportedly happened at the sewer man hole near the cabana pool area. The sewage flowed towards Strawberry Creek, but did not reach the creek. Approximately 100,000 gallons of sewage was spilled. An inspector visited the area after the spill was cleaned and noted that the area of the spill was down a steep hill that did not appear to be visited often. The inspector did not make any other comments regarding the spill.

Review of inspection reports indicated that sludge disposal has been a concern at least three times since 1986. A figure dated 1986 indicating the location of the sewage treatment facilities showed an area designated for sludge disposal between the holding ponds and the sewage treatment plant. An Inspection Report dated September 22, 1997 indicated that a new treatment plant operator was unaware of what to do with the sludge, and sludge was accumulating in the drying bed. Prior to the change of hands, the sludge was mixed with saw dust and used in the nearby field. In the comment section of both the 1998 and 2000 inspection reports, plant operators were uncertain where the sludge would ultimately be placed.

5.2.4 *San Bernardino County Department of Environmental Health*

The Planning Center Contacted the San Bernardino County Department of Environmental Health via telephone on February 7, 2005. According to Ms. Amy (no last name) a file search for the subject site revealed no records.

5.2.5 *User-Provided Information*

The ASTM Standard requires disclosure in the Phase I report whether the user of the report has specialized knowledge about previous ownership or uses of the property that may be material to identifying RECs or HRECs, or whether the user has determined that the property's Title contains environmental liens or other information related to environmental condition of the property, including engineering and institutional controls and Activity and Use Limitations, as defined by

ASTM. In addition, we are required by the ASTM Standard to inquire whether the user of the report has prior knowledge that the price of the property has been reduced for environmentally-related reasons.

The Planning Center was informed by Mr. Rod Garton, General Manager (GM) of Arrowhead Springs Resort, and Mr. Tom Thornburgh, owner of American Development Group, that the subject property was previously used as a hotel and resort. Mr. Garton informed the Planning Center of six historical underground storage tanks (UST) and active USTs located on the subject site. Mr. Thornburgh informed the Planning Center of the location of historical end-of-line railroad tracks that were located on the property. The railroad tracks have been removed, and the only remaining feature is a bench once utilized by passengers. Mr. Thornburgh was not aware of any train maintenance occurring on site. The Planning Center was also informed of a sewage treatment facility located on the subject site.

The Planning Center has not been informed by the user that there are liens or other information about the environmental condition of the property in the Title with the exception of a description of the filled UST located on the subject site. In addition, the user has not indicated specialized knowledge about previous ownership or uses of the property that may be material to identifying RECs with the exception of the information provided above, and has not indicated that the price of the property has been reduced for environmentally-related reasons.

SECTION 6. SITE RECONNAISSANCE AND KEY PERSONNEL INTERVIEW(S)

A site visit to observe site conditions was conducted by Denise Clendening, Michael Watson, and Susan June of The Planning Center on February 1, 2005. Dr. Clendening, Mr. Watson, and Ms. June were accompanied by Mr. Thornburgh during the site visit. The Planning Center personnel observed the exterior portions of the property, including the subject site boundaries. No weather-related conditions or other conditions that would limit our ability to observe the site occurred during our site reconnaissance.

Interviews with Mr. Tom Thornburgh, owner of American Development Group, Mr. Ron Garton, GM-Arrowhead Springs Resort, and Mr. Mike Grows, Attorney for American Development Group were performed in conjunction with the site reconnaissance. The findings of the site visit and interviews are discussed below. Site photographs are included in Appendix E.

ASTM Section 9.8 requires that, prior to the site visit, the current site owner or Key Site Manager and user, if different from the current owner or Key Site Manager, be asked if there are any helpful documents or information that can be made available for review. These consist of environmental site assessment reports, audits, permits, tank registrations, Material Safety Data Sheets, Community Right-to-Know plans, safety plans, hydrogeologic or geotechnical reports, or hazardous waste generator reports. The Planning Center was provided with a site plan, a list of on site chemical storage, an invoice for the inspection of the sewage treatment facility, compiled building data from "as builts", and permits for the fuel dispensing pumps, pool, and two elevators.

6.1 CURRENT USE OF THE PROPERTY

The subject site consists of approximately 556 acres of the approximately 1,916-acre Arrowhead Springs Resort property. The 556 acres include all developed land on the property. The subject site is currently developed with approximately 34 buildings: one hotel, ten residential bungalows, four dormitories, three maintenance buildings, two auditoriums, two office buildings, two swimming pool cabanas, one lodge, one chapel, one guard house, and seven miscellaneous buildings. However, the resort has not been used for approximately two years and only the office, maintenance, and select bungalow buildings are currently utilized.

6.2 SITE VISIT OBSERVATIONS

6.2.1 General Description of Structures

The subject site is improved with 33 one-story buildings and one eight-story (including the basement) hotel building. The total existing building area on the subject site is approximately 308,170 square feet.

6.2.2 Heating and Cooling System

The subject property is cooled by electricity and heated by geothermal steam and natural gas. Electricity and Natural Gas are provided to the property by Arrowhead Water and Power.

6.2.3 Potable Water Supply and Sewage Disposal System or Septic Systems

Potable water and sewage disposal systems are provided to the site vicinity by Arrowhead Water and Power. All water for the subject site is provided by onsite wells. The Arrowhead Water and Power sewage treatment facility is located on site.

Potable water is not expected to impact the subject site.

The sewer treatment facility is further discussed in section 7.2.22 of this report.

6.2.4 *Use of Petroleum Products and Hazardous Materials*

Use of petroleum products or hazardous materials was not observed on the subject property with the exception of the following:

- A fueling dispensing pump was observed near the maintenance buildings. The Planning Center was provided with a copy of the permit for to operate and dispense fuel from the fueling pumps issued by the South Coast Air Quality Management District (AQMD) dated September 1, 2004.

- A parts washer was observed in one of the maintenance buildings.

The Planning Center was provided with a list of chemicals used on the subject property. The chemicals are separated by area of use. No chemicals are listed for the hotel building because the hotel is not currently used.

The following hazardous materials are used in the pool area:

- Sodium Bicarbonate Powder
- Soda Ash Granules
- Chlorine
- Muriatic Acid

The following materials are used for grounds upkeep:

- Fertilizer:
  - Nitra King 22-3-9
- Herbicides:
  - Nor-AM Prograss
  - KMG Bueno 6
- Insecticides:
  - Ortho Bug-B-Gone Max
  - Plate Chemical Co. Malathion 55 insecticide
- Turf Fungicides:
  - WA Cleary Company Spotretef
  - Fungicide – Chipco Fungicide 26014
  - Fungicide – Rohm HAAS FORE
- Animal/Bird Repellant:
  - Burlington Scientific Corp., RoPel

The following materials are used in the maintenance area:

- Polar D Diesel fuel treatment
- Advance AntiFreeze and Coolant
- Pro-line All Season Motor Oil

- Costal 80W 70 Gear Oil

Use of the above mentioned hazardous materials and chemicals in moderation is not expected to impact the subject site.

6.2.5 *Storage of Petroleum Products and Hazardous Materials (Storage Tanks, Drums)*

- Oil was observed to be stored in approximately five 55-gallon metal drums located on a paved area near the maintenance buildings. Staining and leaking were observed on the ground in areas surrounding the 55-gallon waste-oil drum.

  The Planning Center recommends that oil impacted materials be cleaned and disposed of in accordance to federal, state, and local regulations. For future storage, the Planning Center recommends to improve upon current housekeeping practices to minimize spills, and possible mitigation of waste oil to the soil subsurface.

- During the site visit The Planning Center observed fuel dispensing pumps at the site. The Planning Center was provided with copies of current permits from the South Coast Air Quality Management District (AQMD) to operate the gasoline dispensing pumps at the subject site.

  Copies of the permits are included in Appendix C.

- Two active USTs currently exist on the subject site. The USTs are operated under the current permit numbers PT0011599 and PT0011600. The USTs were upgraded in 1998 and soils were sampled in conjunction with the upgrades. A "no further investigation" letter was issued for the active USTs on January 29, 1999, and an upgrade compliance certificate was issued on February 3, 1999

  Copies of the permits are included in Appendix C.

- Review of the San Bernardino County Fire Department Certified Unified Program Agency (CUPA) files for the subject site revealed six underground storage tanks were removed or abandoned in place at the subject site in 1989. Three of the tanks were previously used to store gasoline, one was used to store waste oil, and one was used to store heating burner oil for the hotel.

  Five USTs were removed under permit number SB-73-88 on February 1, 1989. The UST used to store heating burner oil was approved to be abandoned in place in July of 1989, however no documentation indicates the UST was filled. No closure letters were located in the file reviewed, however an interview with Mr. Curtis Brundage of the San Bernardino County Fire Department, Hazardous Materials Department, no environmental concerns are associated with the six historical USTs located at the subject site.

  Copies of the historical UST documentation are included in Appendix C.

- Four to five drums of unknown contents were observed to be stored in various locations near the maintenance buildings. The drums were located on a dirt surface. No staining or leaking was observed in the vicinity of the drums.

The Planning Center recommends the drums be stored in an area with a secondary containment (such as a paved area) to prevent the possible mitigation of hazardous substances to the soil subsurface should a leak or spill occur.

- The Planning Center Observed approximately 30, 1-gallon buckets of paint stored near the maintenance buildings. The paint cans were located on an uncovered, open dirt area. The location did not appear to be temporary storage. No leaking or staining was observed in the vicinity of the paint cans.

  The Planning Center recommends the paint cans be stored on a covered, paved surface to prevent the possible mitigation of paint to the soil surface should a leak or spill occur.

The Planning Center was provided with a list of chemicals stored on the subject property in quantities greater than one-gallon. The chemicals are broken up by area of use.

Chemicals Stored in the Hotel Kitchen

- Sanitizer
  - Ecolab, Quat – 2.5 gallons
  - Ecolab, echo-fan – 20 gallons
- Cleaners
  - Ultrachem, Dynafoam – 2 gallons
  - Sisco, Bleach – 2 gallons
  - Ecolab, Decarbonizer MXP – 3 gallons
  - Waxie, Limelite – 6 gallons
  - Butchers, general purpose cleaner – 2 gallons
  - Butchers, glass cleaner – 4 gallons
  - Butchers, Sundance neutral floor cleaner – 4 gallons
  - Butchers, Spin-out – 2 gallons
  - Butchers, Main stay floor finish – 5 gallons
- Detergents
  - Ecolab, Solitarie – 40 lbs

Chemicals Stored in the Pool Area:

- Sodium Bicarbonate Powder – 100lbs
- Soda Ash Granules – 200lbs
- Chlorine Bulk Liquid – 240 gallons
- Inner Valley Pool, Chlorine – 35 gallons
- Inner Valley Pool, Muriatic acid – 31 gallons

The following materials are stored in the maintenance areas and are used for grounds upkeep:

The following materials are used for grounds upkeep:

- Fertilizer:
  - Nitra King 22-3-9 – 28, 50lb bags
- Herbicides:
  - Nor-AM Prograss – 3 gallons
  - KMG Bueno 6 – 2.5 gallons

- Insecticides:
  - Ortho Bug-B-Gone Max – 10lbs
  - Plate Chemical Co. Malathion 55 insecticide – 3 gallons
- Turf Fungicides:
  - WA Cleary Company Spotretef – 5 gallons
  - Fungicide – Chipco Fungicide 26014 – 5 lbs
  - Fungicide – Rohm HAAS FORE – 5 lbs
- Animal/Bird Repellant:
  - Burlington Scientific Corp., RoPel -3 gallons

The following materials are stored and used in the maintenance area:

- Polar D Diesel fuel treatment – 2.5 gallons
- Advance AntiFreeze and Coolant – 6 gallons
- Pro-line All Season Motor Oil – 20 gallons
- Costal 80W 70 Gear Oil – 2 gallons

According to Mr. Garton, the chemicals stored on site are properly stored. Mr. Garton was not aware of historic leaks or spills regarding the chemical storage. Proper chemical storage is not expected to impact the subject site.

6.2.6 *Disposal of Petroleum Products and Hazardous Matarials*

No evidence of disposal of Petroleum Products was observed at the subject site. However, leaking and staining from waste oil drums were observed on site.

- A fueling dispensing pump was observed near the maintenance buildings. According to Mr. Garton the waste oil is removed by Safety-Kleen.

- A parts washer was observed in one of the maintenance buildings. The Planning Center was provided with an invoice indicating that Safety-Kleen removes the liquid from the parts cleaner.

6.2.7 *Hydraulic Elevators*

Two hydraulic elevators are located in the Hotel Building. Neither elevator is currently used. The Planning Center did not observe the hydraulic equipment associated with the elevators. Mr. Garton was not aware of historic leaking or staining associated wit the hydraulic elevators. The Planning Center was provided with expired elevator permits from when the elevators were in use.

Based on the information provided, the hydraulic elevators are not expected to impact the subject site.

Copies of the elevator permits are included in Appendix C.

6.2.8 *Vehicle Maintenance Lifts*

One vehicle maintenance lift was observed on the subject site. According to Mr. Garton the lift has not been serviced since the early 1990s. However, during the site inspection, a vehicle is on the lift and is elevated off the ground surface. Evidence of staining was observed in the vicinity

of the vehicle maintenance lift. Mr. Garton was not aware of historic leaking or staining in the vicinity of the vehicle maintenance lift.

6.2.9 Emergency Generators and Sprinkler System Pumps

No emergency generators or sprinkler system pumps were observed on the subject site. Mr. Garton was not aware of emergency generators or sprinkler system pumps located on the subject site.

6.2.10 Polychlorinated Biphenyls (PCBs) Associated with Electrical or Hydraulic Equipment

Various transformers were located at the subject site. No PCB labels were visible on the pad-mounted transformers observed with the exception of one transformer. No staining or leaking was observed in the vicinity of the transformers observed

Review of Power Engineering Services Incorporated's 2400V Primary Electrical Distribution System report dated January 25, 1984 indicated capacitors located at the subject site contained PCBs. Power Engineering Services Incorporated recommended replacing the old PCB-filled capacitors with non-PCB filled ones. According to Mr. Garton the capacitors and transformers were gradually switched from PCB filled to non-PCB filled and the transformer with the PCB label is no longer used.

The Planning Center recommends the transformer with the PCB label be removed and disposed of in accordance with federal, state, and local regulations.

6.2.11 Floor Drain and Sumps

No sumps or floor drains were observed on the subject property.

6.2.12 Catch Basins

According to The Arrowhead Springs Infrastructure Preliminary Development Plans, approximately 55 catch basins are located on the subject site.

Catch Basins are not expected to impact the subject site.

6.2.13 Dry Wells

No dry wells were observed on the subject property.

6.2.14 Pits, Ponds, Lagoons, and Pools of Liquid

The subject site has many water resources including natural hot springs, and surface waters. Creeks located on the site include East Twin Creek, Strawberry Creek, Hot Canyon Creek, and West Twin Creek are located on the site. Numerous hot springs are known to exist on the site, and Lake Vonette, with an area of 32,670 square feet, is located on the site. Other pools of liquids located on the site include the swimming pool, water reservoirs, and evaporation ponds associated with the sewage treatment facility.

No pits or lagoons were observed on the site.

The water bodies located on the subject site are not expected to impact the subject site.

6.2.15 Odors

Mild odors typical of geothermal hot springs were observed in the immediate vicinity of the hot springs.

6.2.16 Stains or Corrosion on Floors, Walls, or Ceilings

No staining or corrosion was observed in the subject buildings.

6.2.17 Stained Soil or Pavement

No stained soil or pavement was observed on the subject property with the exception of staining associated with the waste oil storage drums and vehicle lift located near the maintenance buildings.

6.2.18 Stressed Vegetation

No stressed vegetation from current or historic activities at the subject site was observed on the subject site.

6.2.19 Solid Waste and Evidence of Waste Filling

Solid waste is contained in trash dumpsters located in a trash enclosure located on the subject site. Solid waste generated at the site is removed by Jack's Disposal. No evidence of waste filling was observed on the subject property.

Review of SWCA Environmental Consultant's *Archaeological Survey for the Arrowhead Springs Project, San Bernardino County, California* dated January 2005 revealed historic trash pits and incinerators located on the subject site. According to SWCA there are three possible historic trash pits and one historic incinerator located on the subject site based on their investigation and previous research done on the site. The chimney and foundation of the incinerator are still intact however, the associated trash pit has been impacted. The original size of the trash scatter was 4.3 x 2.9 meters but now appears to be 6 x 8 meters. One site is reported to have been a short-term or single depositional episode occurring around 1920 to 1925. Items found near the site were representative of household trash. The location of this site was not mentioned in the SWCA report. Another site consists of a chimney and foundation of a historic incinerator and an associated trash pit. This location is believed to represent deposition between 1930 and 1945 and contains hotel wares, beverage containers, condiment jars and serving pieces. The chimney and foundation of the incinerator are still intact; however the area of the associated trash pit has been impacted by clean-up from recent fires. This area is located southwest of the current hotel location. The third site contained trash deposits from approximately the 1940s to the 1960s. The area that was examined was a portion of the trash pit located within the Metropolitan Inland Feeder Project Working Limits, but a denser concentration of trash is believed to exist outside of and south of the area tested.

The trash areas reported appear to be old and isolated events, and do not represent areas of environmental concern. The majority of the trash located on the site was most likely incinerated, historically a common method of trash removal, and one small incinerated is known to exist on the subject site. Ash from the trash incineration located in the vicinity of the known incinerator

could be a potential environmental condition. Extended exposure to the ash material is not recommended.

6.2.20 Wastewater and Stormwater Discharge

Treated wastewater from the sewage treatment facility is stored in holding ponds located on the subject property. The treated water is then applied to the surrounding hillsides.

Wastewater is further discussed in section 7.2.22 of this report.

Stormwater is expected to exit the subject site via overland flow to surrounding local streams and percolate through undeveloped and landscaped areas.

Stormwater is not expected to impact the structures of the subject site.

6.2.21 Monitoring, Water Supply, or Irrigation Wells

No monitoring or irrigation wells are located on the subject property.

Water supply wells were observed on the subject property. According to the Arrowhead Springs Infrastructure Preliminary Development Plans there are nine wells located on the subject site. Four wells are cold-water wells, two wells are geothermal hot-water wells, and the remaining three wells provide supplemental water for irrigation and fire suppression.

Wells located on the site are not expected to impact the subject site.

6.2.22 Sanitary Sewer and Septic Systems

Sanitary sewerage is discharged to the Arrowhead Water and Power Sanitation Sewer collection system. The sewage treatment facility is located on the subject site. The sewage treatment facility has a 300,000 gallon capacity and was built in approximately 1939. The treatment facility consists of an Imhoff tank, trickling filter, clarifier, drying bed, and holding ponds. According to Mr. Garton, after the sewage has run through the treatment process and has been treated with chlorine, the solids are separated and dried in the sand-filled drying bed, and the treated liquids are sent to holding ponds. The liquids in the holding ponds evaporate or are applied onto vegetation along a green belt in the surrounding hills. When the drying beds are full, the treated solids (biosolids) are removed and tilled into the hillsides. Mr. Garton reported that biosolid quantities have never been large enough to move more than two, 2 ½ yard backhoe buckets full at any given time.

The sewage treatment facility was observed to be handling a small volume of waste. However based on historical use of the hotel and aerial photographs, it is likely the sewage treatment facility handled a larger volume of waste in the past when the hotel was in operation.

A file review was conducted at the Santa Ana Regional Water Quality Control Board (RWQCB). Files available for review date back to 1986. Review of the files revealed the sewage treatment is regulated by Waste Discharge Requirements specified in Order No. 86-100. Order No. 86-100 was adopted for the subject site on June 13, 1986. The facility operates under Waste Discharger System (WDS) number 8 361003001. The facility had no violations recorded in the file. The monitoring records reviewed indicated that the wastewater was repeatedly over the permitted

limit for total dissolved solids and hardness, and occasionally over the permitted limit for sodium, sulfate, chloride, and fluoride. No actions were taken regarding the elevated concentrations. Mr. Norton noted that the permit levels were based on the use of surface water, but the subject site is now using deep groundwater that is of poorer quality. Mr. William Norton, inspector, indicated in the July 11, 2001 inspection report that it is very possible that the elevated concentrations are caused from the change to the poorer quality water source.

Review of the Santa Ana Regional Water Quality Control Board revealed a sewage spill on the subject site on February 13, 1987. The sewage spill reportedly happened at the sewer man hole near the cabana pool area. The sewage flowed towards Strawberry Creek, but did not reach the creek. Approximately 100,000 gallons of sewage was spilled. An inspector visited the area after the spill was cleaned and noted that the area of the spill occurred down a steep hill that did not appear to be visited often. The inspector did not make any other comments regarding the spill.

Review of inspection reports indicated that sludge disposal has been a concern at least three times since 1986. A figure dated 1986 indicating the location of the sewage treatment facilities showed an area designated for sludge disposal between the holding ponds and the sewage treatment plant. An Inspection Report dated September 22, 1997 indicated that a new treatment plant operator was unaware of what to do with the sludge, and sludge was accumulating in the drying bed. Prior to the change of hands, thee sludge was mixed with saw dust and used in the nearby field. The 1998 inspection report comments indicated that there was uncertainty of where the sludge would ultimately be disposed of. The inspection comments from the 2000 inspection indicated that several piles of sludge were piled up on the west side of the sludge drying bed. Inspector William Norton indicated that the operators had not decided what to do with the sludge yet, and when they decided they should contact him to discuss their options.

Based on the number of years the drying beds and sewage treatment facility have been in use, it is possible that metals have leached from the sludge and accumulated below the drying bed. The Planning Center recommends soil samples be collected in the area surrounding the drying beds and tested for elevated metal concentrations. Biosolids may be an environmental issue due to the physical-chemical processes involved in the treatment; sludge tends to concentrate heavy metals and poorly biodegradable trace organic compounds. Testing for metals is recommended to assess if metals are accumulating from the disposal practice at the site.

6.2.23 Non-Scope Considerations

- No high voltage power lines were observed within 1,500 feet of the subject property.

- Railroad tracks were installed on the site in 1907. The tracks were originally used by the San Bernardino Valley Traction Company and later by the Pacific Electric Railroad. Passenger service to the line ended in 1932 and freight service ended in the 1960s.

  Historic railroad tracks are not expected to impact the subject site.

- No evidence of fill material was observed on the subject property. Review of the SWCA *Archaeological Survey for the Arrowhead Springs Project, San Bernardino County, California* revealed there are three possible historic trash disposal areas located on the subject site.

  SWCA, indicated there are three possible historic trash pits and one historic incinerator

located on the subject site based on their investigation and previous research done on the site. One site is reported to have been a short-term or single depositional episode occurring around 1920 to 1925. Items found near the site were representative of household trash. The location of this site was not mentioned in the SWCA report. Another site consists of a chimney and foundation of a historic incinerator and an associated trash pit. This location is believed to represent deposition between 1930 and 1945 and contains hotel wares, beverage containers, condiment jars and serving pieces. The chimney and foundation of the incinerator are still intact; however the area of the associated trash pit has been impacted by clean-up from recent fires. The third site contained trash deposits from approximately the 1940s to the 1960s. The area that was examined was a portion of the trash pit located within the Metropolitan Inland Feeder Project Working Limits, but a denser concentration of trash is believed to exist outside of and south of the area tested.

The trash areas reported appear to be old and isolated events, and are not expected to impact the subject site. The majority of the trash located on the site was most likely incinerated, historically a common method of trash removal.

- Based on the date of construction of the buildings (between 1931 and 1968 with the exception of the Creekside Lodge built in 1983 and Bungalow built in 1982) it is likely that lead based paint (LBP) was used during the construction of the buildings located on the subject site. Based on the commercial uses of the buildings, and non-long term residential uses, LBP is not expected to impact the subject site.

- Based on the date of construction of the buildings (between 1931 and 1983), and previous sampling results, it is likely that asbestos containing materials (ACM) was used during the construction of the subject buildings.

  Review of *Bulk Inspection and Bulk Sampling Report* by Crawford & Co./FPE dated June 12, 1991 revealed that an ACM bulk survey was conducted on May 20-24, 1991 for the Hotel, the Village Auditorium, the Hacienda, the Springhouse, and a Bungalow. The survey found ACM in the Hotel, Village Auditorium, Hacienda, and Springhouse buildings. Crawford & Co. recommended all damaged ACM be replaced, warning signs be posted on all ACM, and to develop and implement an ACM Operations and Maintenance (O&M) Plan for the buildings.

  Mr. Garton informed The Planning Center that to his knowledge all recommendations were followed. The Planning Center was provided the notice given to volunteers to inform them of the location of ACM and describing potential health risks and safety precautions associated with ACM. The notice indicates that Campus Crusade for Christ was in the process of developing an ACM O&M plan that would outline a schedule of actions (i.e. a timetable for removal or other action), ongoing safety procedures, maintenance, inspections, and training programs. The completed ACM O&M Plan was not provided for review.

  Based on the information above, The Planning Center recommends the ACM O&M plan be implemented at the subject site.

  Copies of the ACM notice given to volunteers is included in Appendix C.

SECTION 7. FINDINGS AND CONCLUSIONS

The Planning Center has performed a Phase I Environmental Site Assessment (Phase I) of the proposed Arrowhead Springs Resort at 24600 Arrowhead Springs Road in Arrowhead Springs, San Bernardino, San Bernardino County, California.

The scope of work is described and conditioned by our proposal dated February 3, 2005. As indicated in our proposal, this Phase I was performed in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) E 1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Exceptions to, or deletions from, this practice are described in Section 1 of this report. Our conclusions are intended to help the user evaluate the "environmental risk" associated with the site, as defined in the ASTM E 1527-00 Standard and discussed in the Introduction section of this report.

The subject site consists of approximately 556 acres of the 1,916-acre Arrowhead Springs Resort property. The subject site is currently developed with approximately 34 buildings associated with the Arrowhead Springs Resort, paved parking and driving areas, landscaping and natural land. The site is located on Arrowhead Springs Road, east of the intersection of Arrowhead Springs Road and Old Waterman Canyon Road.

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed the following recognized environmental conditions in connection with the property following the ASTM standard and DTSC recommended guidance for Phase I assessments.

1. Waste oil was observed to be stored in (number) 55-gallon metal drums located on a paved area near the maintenance buildings. Staining and leaking were observed in the vicinity of the waste oil storage. Staining was also observed in the area of the vehicle lift.

   The Planning Center recommends the spilled oil be properly cleaned and disposed of in accordance state and local. For future storage, the Planning Center recommends to improve upon current housekeeping practices to minimize spills, and prevent possible mitigation of waste oil to the soil subsurface.

2. A small sanitary sewer treatment facility is located on the subject site. The sewage treatment facility has a 300,000 gallon capacity and was built prior in approximately 1939. The treatment facility consists of an Imhoff tank, trickling filter, clarifier, drying bed, and holding ponds. Solids generated at the facility are treated and then dried in the drying bed. The drying bed is a sand filled drying bed. When the drying bed is full the treated solids (biosolids) are removed and tilled into the hillsides.

   Mr. Rod Garton reported that biosolid quantities have never been large enough to move more than two, 2 ½ yard backhoe buckets-full at any given time. Mr. Garton indicated that based on the small amount of waste treated at the sewage facility, testing the quality of the biosolids or monitoring for pollutants was never required. The sewage treatment facility was observed to be handling a small volume of waste. However based on historical use of the hotel and aerial photographs, it is likely the sewage treatment facility handled a larger volume of waste in the past.

   Based on the number of years the drying beds and sewage treatment facility have been in use, it is possible that metals have leached from the sludge and accumulated below the drying bed.

The Planning Center recommends soil samples be collected in the area surrounding the drying beds and tested for elevated metal concentrations. Biosolids may be an environmental issue due to the physical-chemical processes involved in the treatment; sludge tends to concentrate heavy metals and poorly biodegradable trace organic compounds. Testing for metals is recommended to assess if metals are accumulating from the disposal practice at the site.

HISTORICAL RECs AND KNOWN OR SUSPECT ENVIRONMENTAL CONDTIONS

This assessment has revealed the following HRECs in connection with the property as defined in the Standard and in Section 1 of this report and DTSC recommended guidance for Phase I assessments.

1. The subject site is listed on the Federal ERNS (Emergency Response Notification System) list. No information regarding the listing was provided in the environmental database.

   The Federal ERNS list is maintained by the National Response Center. Review of information regarding the listing on the Natural Response Center website database revealed the listing was due to a non-PCB transformer leak reported on December 29, 2003. According to the report, 20 gallons of oil material (non-PCB mineral) was released to water from two pole mounted transformers due to mudslides. The material released was listed as Oil, MISC: Mineral (Non-PCB). The report indicated that the leak was a single, isolated incident, the water supply was not contaminated, and the release was secured.

2. Review of the Santa Ana Regional Water Quality Control Board (RWQCB) file on the subject site revealed a sewage spill on the subject site on February 13, 1987. The sewage spill reportedly happened at the sewer man hole near the cabana pool area. The sewage flowed towards Strawberry Creek, but did not reach the creek. Approximately 100,000 gallons of sewage was spilled. An inspector visited the area after the spill had been cleaned and noted that the area of the spill was down a steep hill that did not appear to be visited often. The inspector did not make any other comments regarding the spill.

4. There are six historical underground storage tanks (USTs) located on the subject site. Review of the San Bernardino County Fire Department CUPA files revealed that five USTs were removed from the site on February 15, 1989. The UST used to store heating burner oil was approved to be abandoned in place in July of 1989, however no documentation indicates the UST was filled. According to an inspector at the San Bernardino County Fire Department, Hazardous Materials division, there are currently no environmental concerns associated with the six historical USTs located at the subject site.

SUMMARY

Based on the results of this assessment, two RECs, associated with the subject site were identified. Spilled waste oil was observed near the maintenance buildings of the subject site. The Planning Center recommends the oil impacted materials be properly removed and disposed of in accordance with all local, state, and federal regulations. Based on the age of the sewage treatment facility, it is possible that metals have leached and accumulated in the soil under and in areas surrounding the drying beds. The Planning Center recommends that soil samples be collected and analyzed for the possibility of elevated concentrations of metals in the vicinity of the drying beds.

SECTION 8. CREDENTIALS

This report was prepared by Susan June and Michael Watson, under the direct supervision of Dr. Denise Clendening, Ph.D., who served as the Project Manager and Director-in-Charge of this project, respectively. Qualifications information for the project personnel is provided in Appendix F.

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3. Crawford Risk Control Services, *Building Inspection and Bulk Sampling Report*, June 12, 1991.

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5. Environmental Protection Agency, *A Plain English Guide to the EPA Part 503 Biosolids Rule*, September 1994.

6. Environmental Protection Agency, National Pollutant Discharge Elimination System (NPDES) website, assessed by the Planning Center on February 4, 2005 http://cfpub.epa.gov/npdes/.

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12. Morton, D.M., and F.K. Miller, 2003. Preliminary Geologic Map of the San Bernardino 30' x 60' Quadrangle, California, Version 1.0, United States Geological Survey Open-File Report 03-293: Scale 1:100,000.

13. The National Response Center website accessed by The Planning Center on February 8, 2005 at http://www.nrc.uscg.mil/.

14. The Planning Center, Inc., site visit conducted by Dr. Denise Clendening, Mr. Michael Watson and Ms. Susan June on February 1, 2005.

15. Power Engineering Services Incorporated *2400V Primary Electrical Distribution System*, January 25, 1984

16. SWCA Environmental Consultants, *Draft Archaeological Survey for the Arrowhead Springs Project, San Bernardino County, California*, January 2005.

17. Topographic Map, San Bernardino North, California, United States Geological Survey 7.5 minute series, 1981.

18. Underground Service Alert (USA) Dig Alert website, http://www.digalert.org, accessed on February 2, 2005

Appendix A. Historical Research Documentation

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1938 Aerial Photograph

NOT TO SCALE

1953 Aerial Photograph

NOT TO SCALE

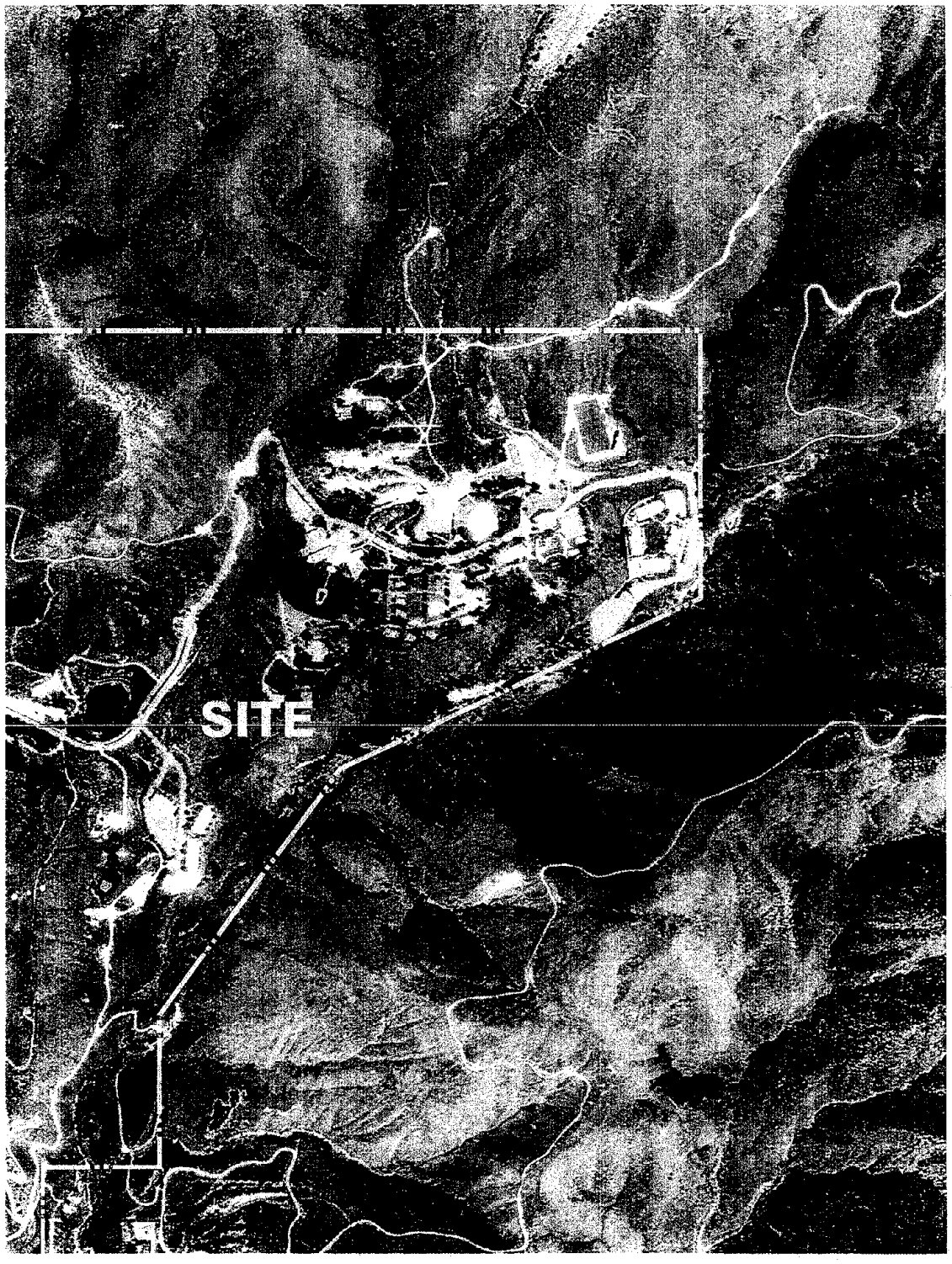
1968 Aerial Photograph

NOT TO SCALE

1980 Aerial Photograph

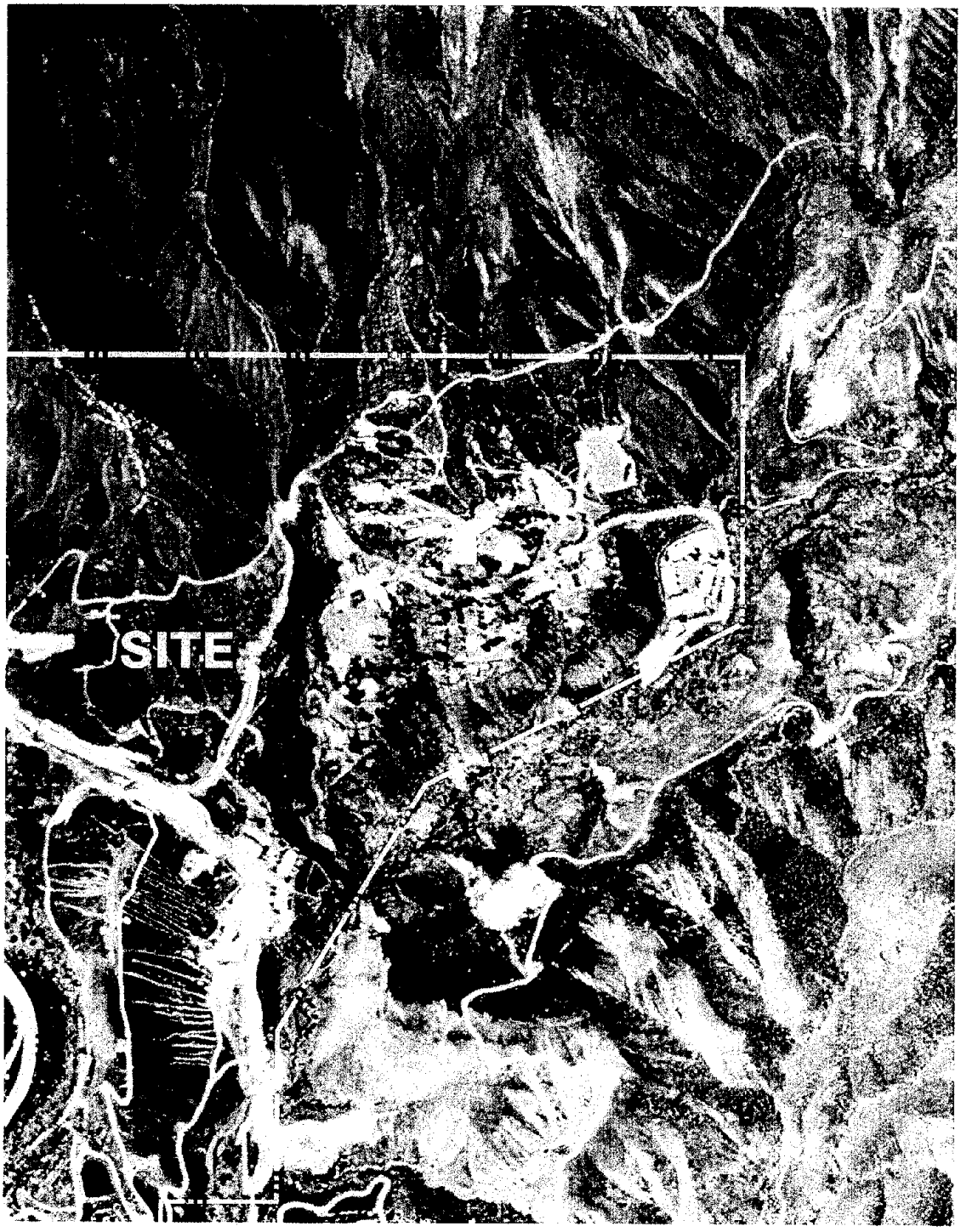
NOT TO SCALE

1994 Aerial Photograph



NOT TO SCALE

2002 Aerial Photograph



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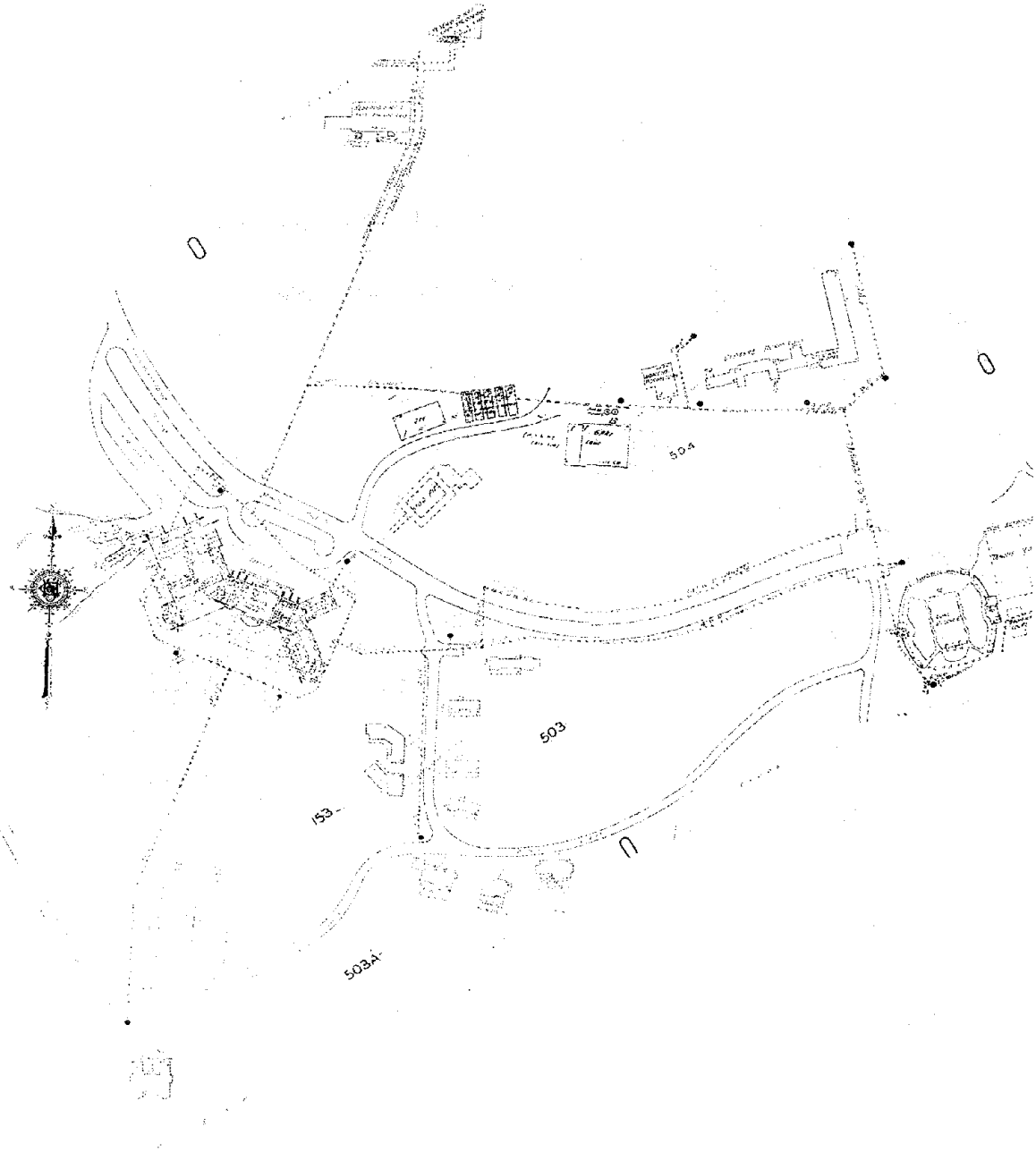
1931-1950 Overlay



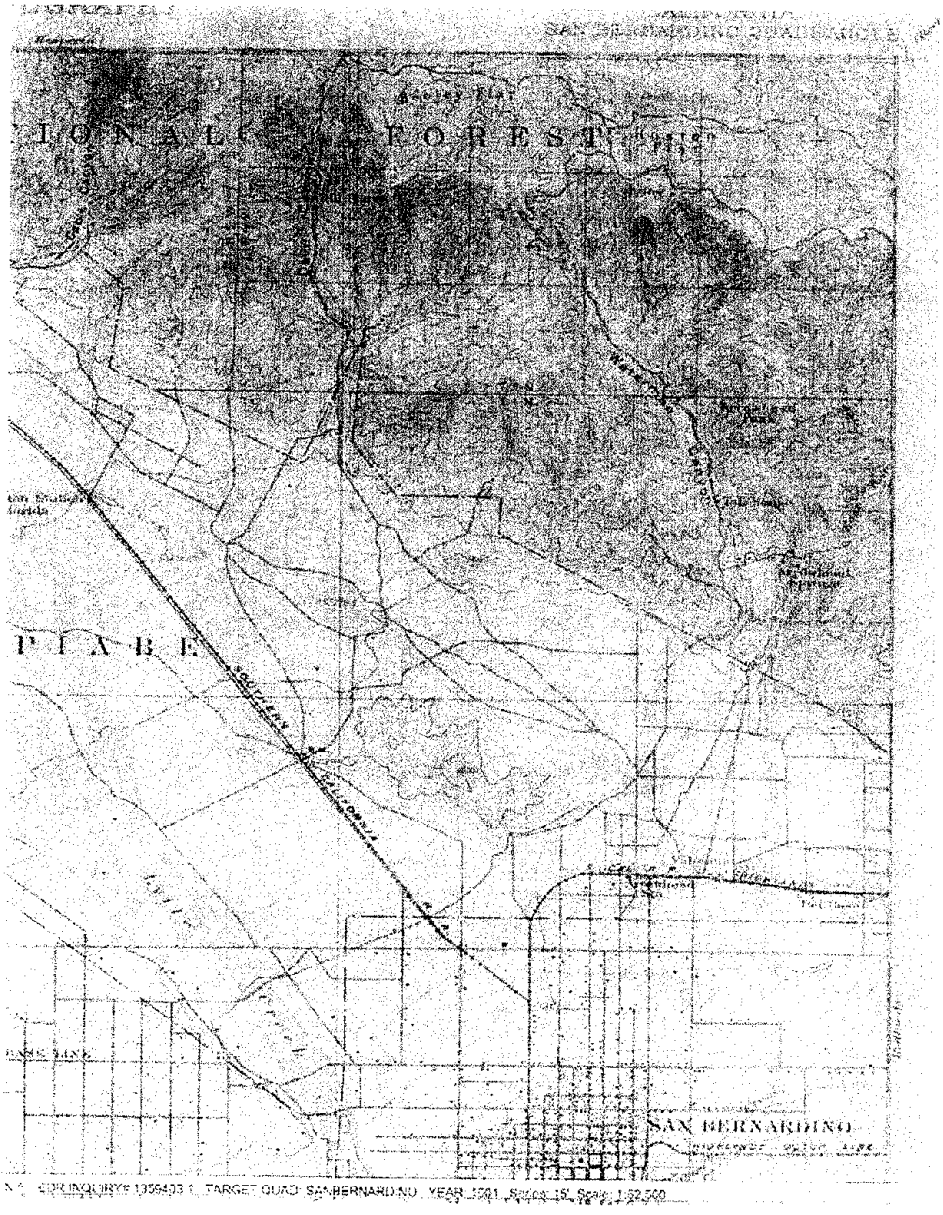
Grey Lines Represent 1931 Survey Map

Black Lines Represent 1950 Sanborn Fire Insurance Map

NOT TO SCALE

Arrowhead Springs *The Planning Center* • **Figure A7**

1901 Topography Map



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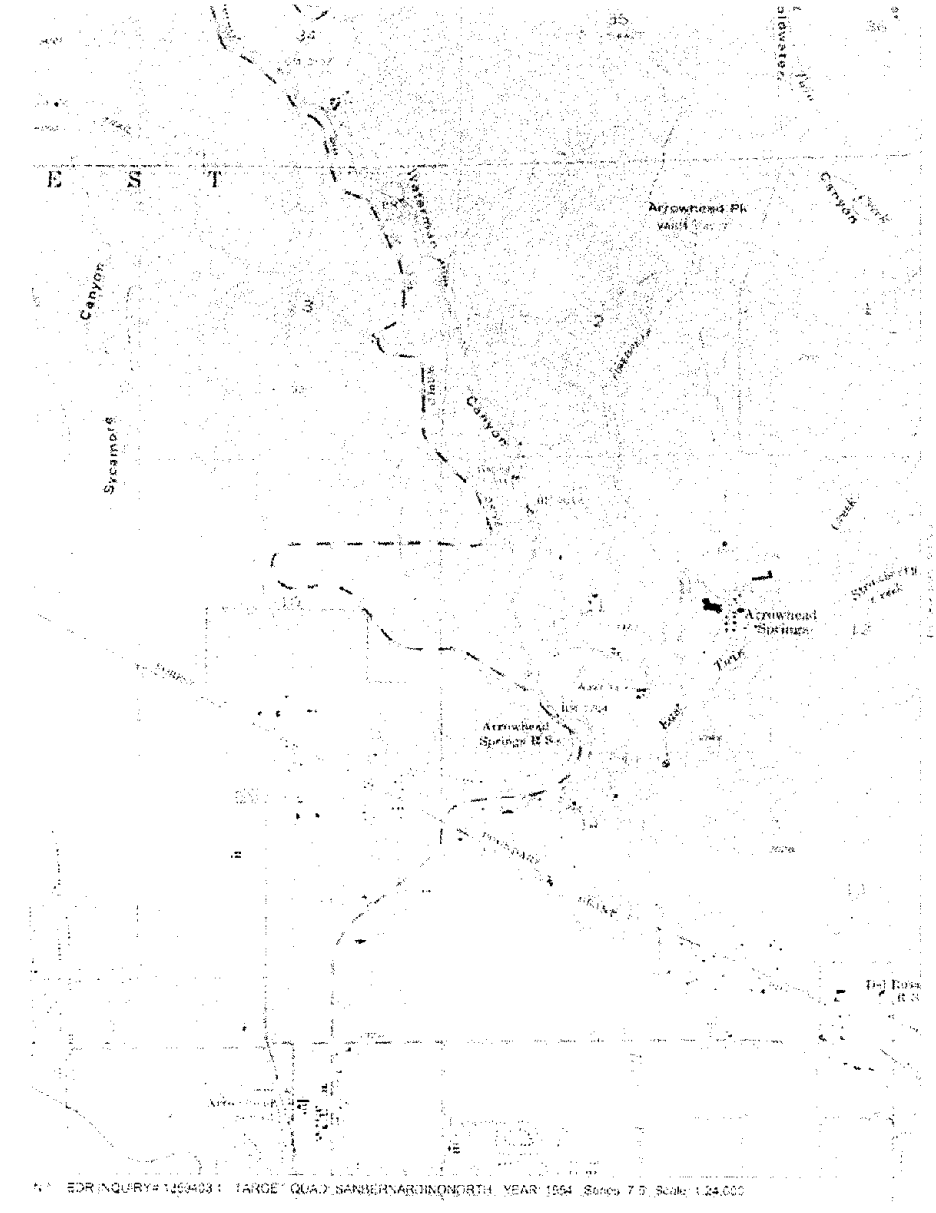
1954 Topography Map



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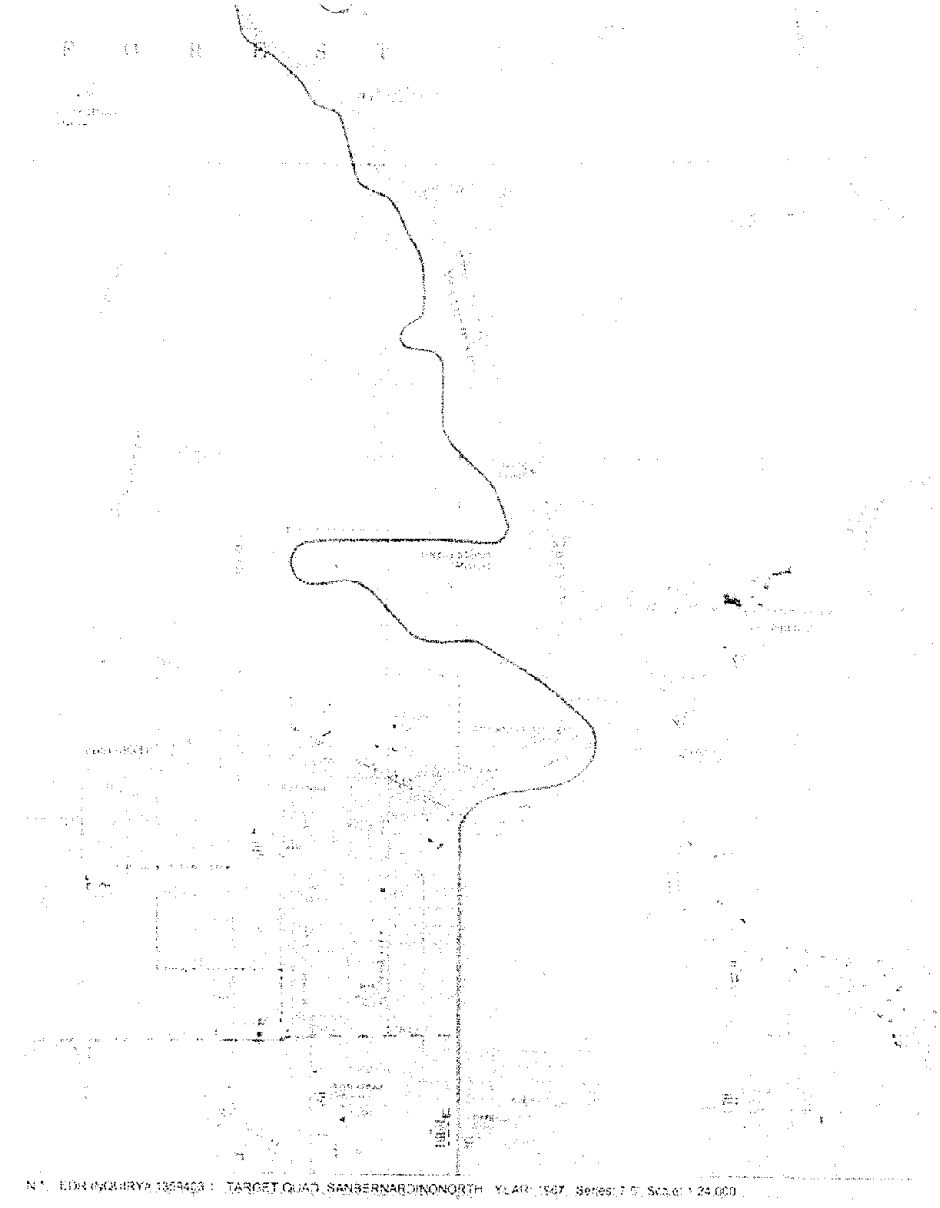
1967 Topography Map



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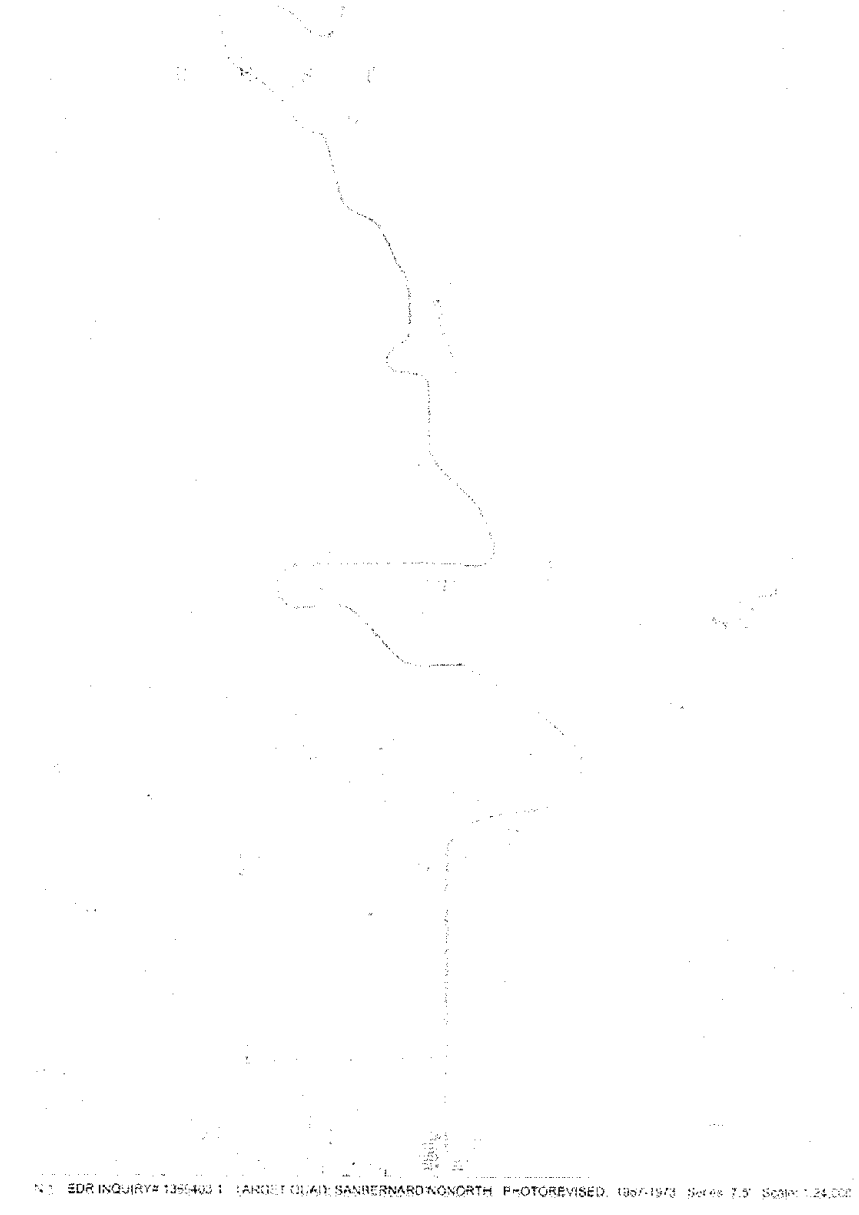
1973 Topography Map



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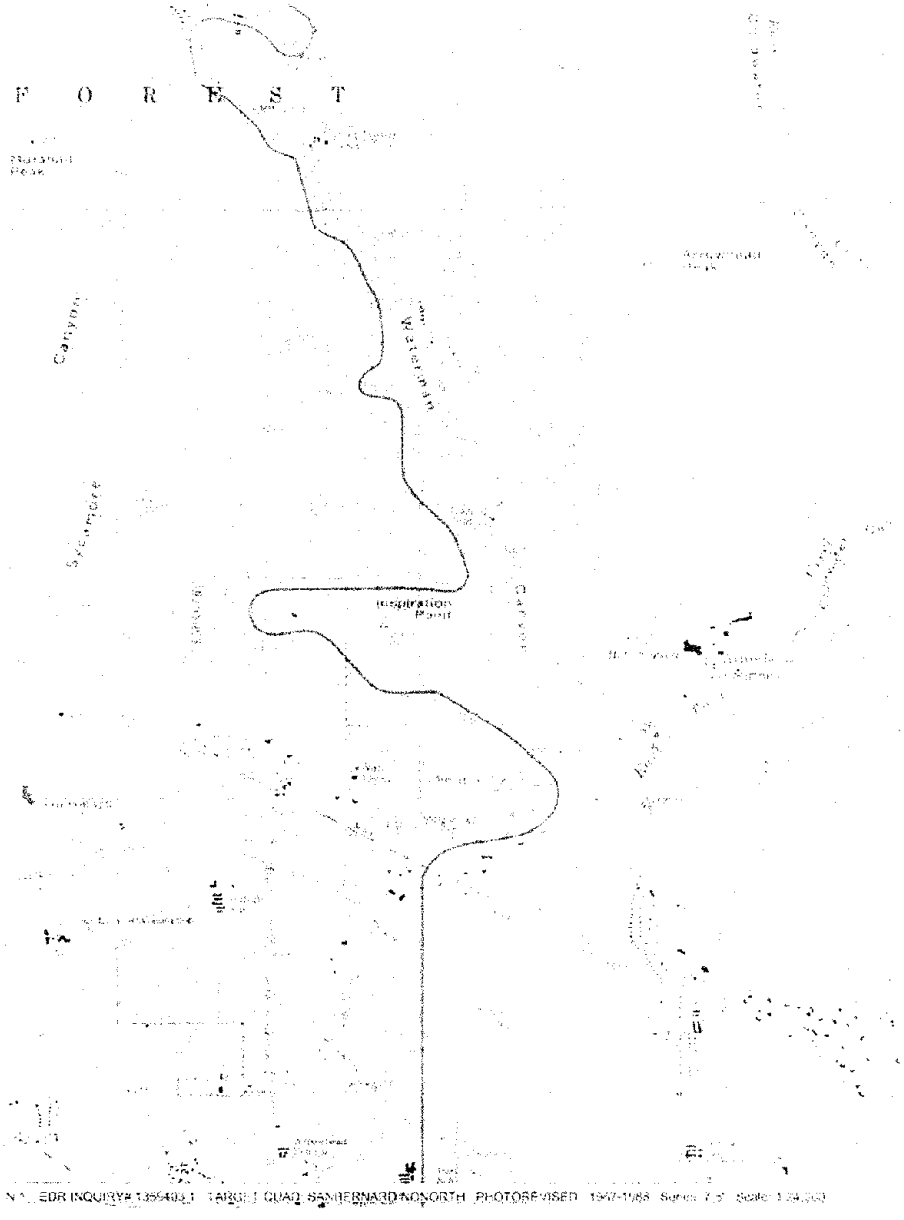
1988 Topography Map



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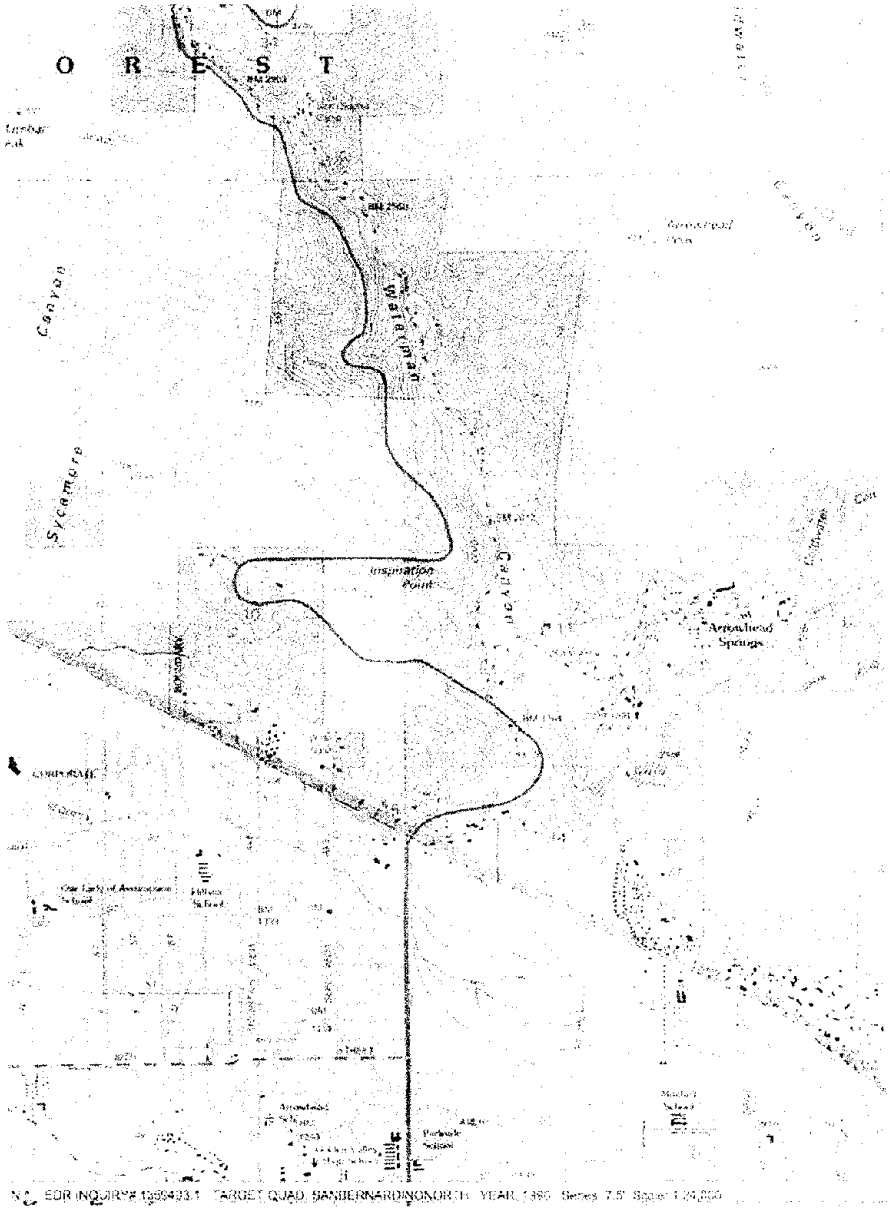
1996 Topography Map



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Appendix B. Environmental Database Search Report

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EDR™ Environmental
Data Resources Inc

The EDR Radius Map
with GeoCheck®

Arrowhead Springs Resort
24600 Arrowhead Springs Road
San Bernardino, CA 92404

Inquiry Number: 1352905.2s

February 02, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

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

FORM-TIM

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	7
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	A-9

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

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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

24600 ARROWHEAD SPRINGS ROAD
SAN BERNARDINO, CA 92404

COORDINATES

Latitude (North):	34.186700 - 34° 11' 12.1"
Longitude (West):	117.261700 - 117° 15' 42.1"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	475885.0
UTM Y (Meters):	3782693.0
Elevation:	2005 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	34117-B3 SAN BERNARDINO NORTH, 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
24600 ARROWHEAD SPRINGS ROAD 24600 ARROWHEAD SPRINGS ROAD SAN BERNARDINO, CA	ERNS	N/A

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
CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information

STATE ASTM STANDARD

AWP	Annual Workplan Sites
Cal-Sites	Calsites Database
CHMIRS	California Hazardous Material Incident Report System
Cortese	"Cortese" Hazardous Waste & Substances Sites List
Notify 65	Proposition 65 Records
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
WMUDS/SWAT	Waste Management Unit Database
LUST	Leaking Underground Storage Tank Information System
CA BOND EXP. PLAN	Bond Expenditure Plan
UST	List of Underground Storage Tank Facilities
VCP	Voluntary Cleanup Program Properties
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
CA FID UST	Facility Inventory Database
HIST UST	Hazardous Substance Storage Container Database

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
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
ODI	Open Dump Inventory
DOD	Department of Defense Sites
INDIAN RESERV	Indian Reservations
UMTRA	Uranium Mill Tailings Sites
FUDS	Formerly Used Defense Sites
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS INSP	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
CLEANERS	Cleaner Facilities
CA WDS	Waste Discharge System
DEED	Deed Restriction Listing
NFA	No Further Action Determination

EMI..... Emissions Inventory Data
REF..... Unconfirmed Properties Referred to Another Agency
SCH..... School Property Evaluation Program
NFE..... Properties Needing Further Evaluation
CA SLIC..... Statewide SLIC Cases
HAZNET..... Facility and Manifest Data
San Bern. Co. Permit..... Hazardous Material Permits

EDR PROPRIETARY HISTORICAL DATABASES

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

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites
VCP..... Voluntary Cleanup Program Properties

SURROUNDING SITES: SEARCH RESULTS

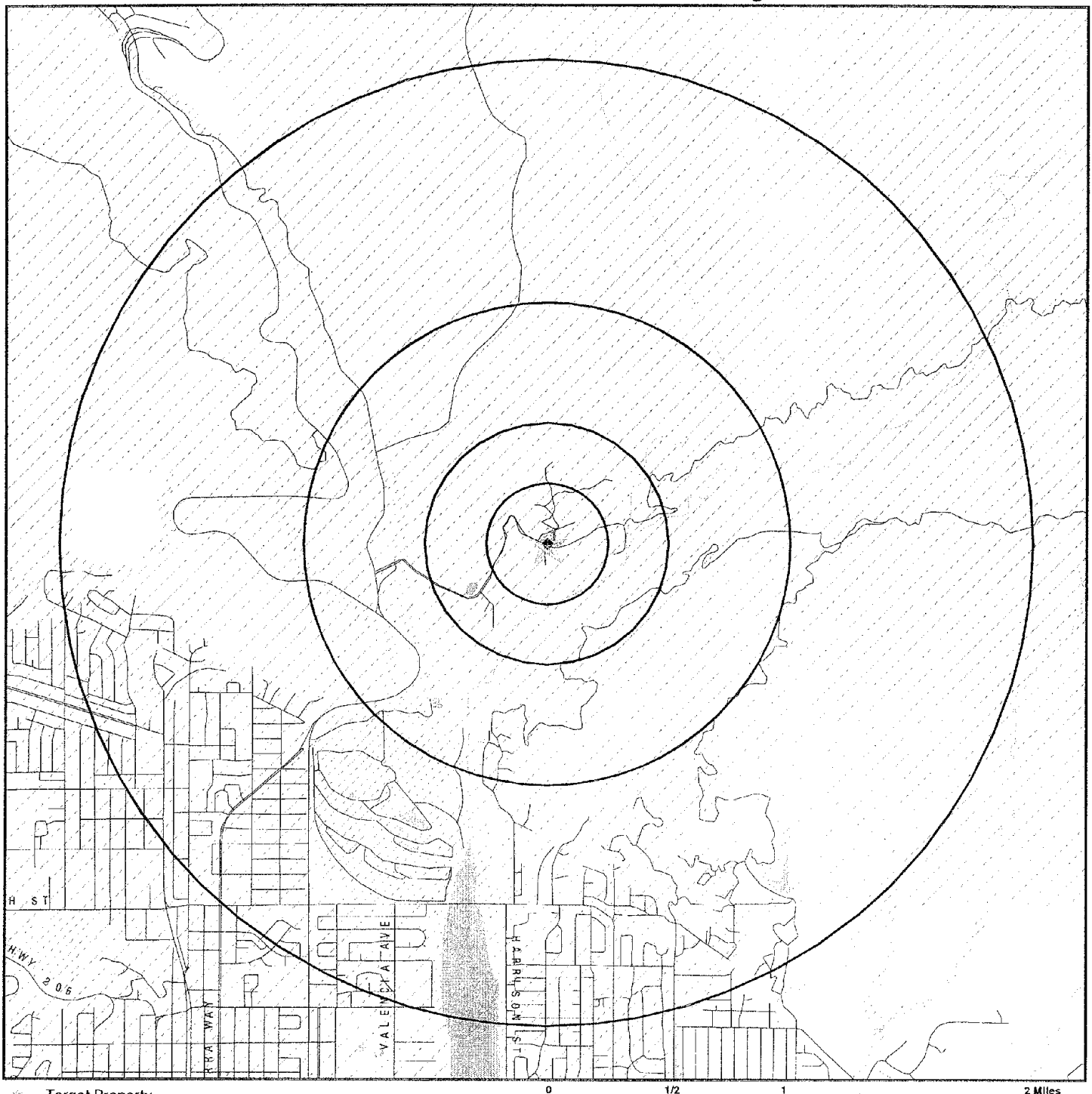
Surrounding sites were not identified.

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

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

Site Name	Database(s)
OHNSTON PUMP COMPANY	Notify 65, HAZNET
SCE, ETIWANDA GENERATING STAT.	Toxic Pits
KARDOS ILLEGAL DISPOSAL SITE (IDS)	SWF/LF
NORTON AFB LANDFILL	SWF/LF
COOLEY RANCH DISPOSAL SITE	SWF/LF
BLACKLAND PROPERTIES SITE	SWF/LF
4TH STREET ROCK INERT WASTE SITE	SWF/LF
MILL CREEK DISPOSAL SITE	SWF/LF
DEVORE LANDFILL	SWF/LF
CEDAR SPRINGS DISPOSAL SITE	SWF/LF
CITY CREEK STATION	HIST UST
GW INVESTIGATION	WMUDS/SWAT
ATCHINSON, TOPEKA, AND SANTA FE RAILWAY	HAZNET
MICHAEL HOWLETT	HAZNET
COAST GRAIN INC	HAZNET
CHARLES TOWLE	HAZNET
GLEN HELEN REHABILITATION CENTER	HAZNET
CLANDESTINE DRUG LAB-OPERATOR UNKNOWN	HAZNET
SHANK BALFUR BATEY CORP	HAZNET
SOUTHERN CALIFORNIA EDISON	HAZNET
HUD/GOLDENFEATHERS REALTY	HAZNET
SOUTHERN CALIFORNIA EDISON/SHANDIN SUB	HAZNET
SHEA-KENNY	San Bern. Co. Permit
SCE-SHANDIN SUBSTATION	San Bern. Co. Permit

OVERVIEW MAP - 1352905.2s - The Planning Center



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Arrowhead Springs Resort	CUSTOMER:	The Planning Center
ADDRESS:	24600 Arrowhead Springs Road	CONTACT:	Susie June
CITY/STATE/ZIP:	San Bernardino CA 92404	INQUIRY #:	1352905.2s
LAT/LONG:	34.1867 / 117.2617	DATE:	February 02, 2005 2:18 pm

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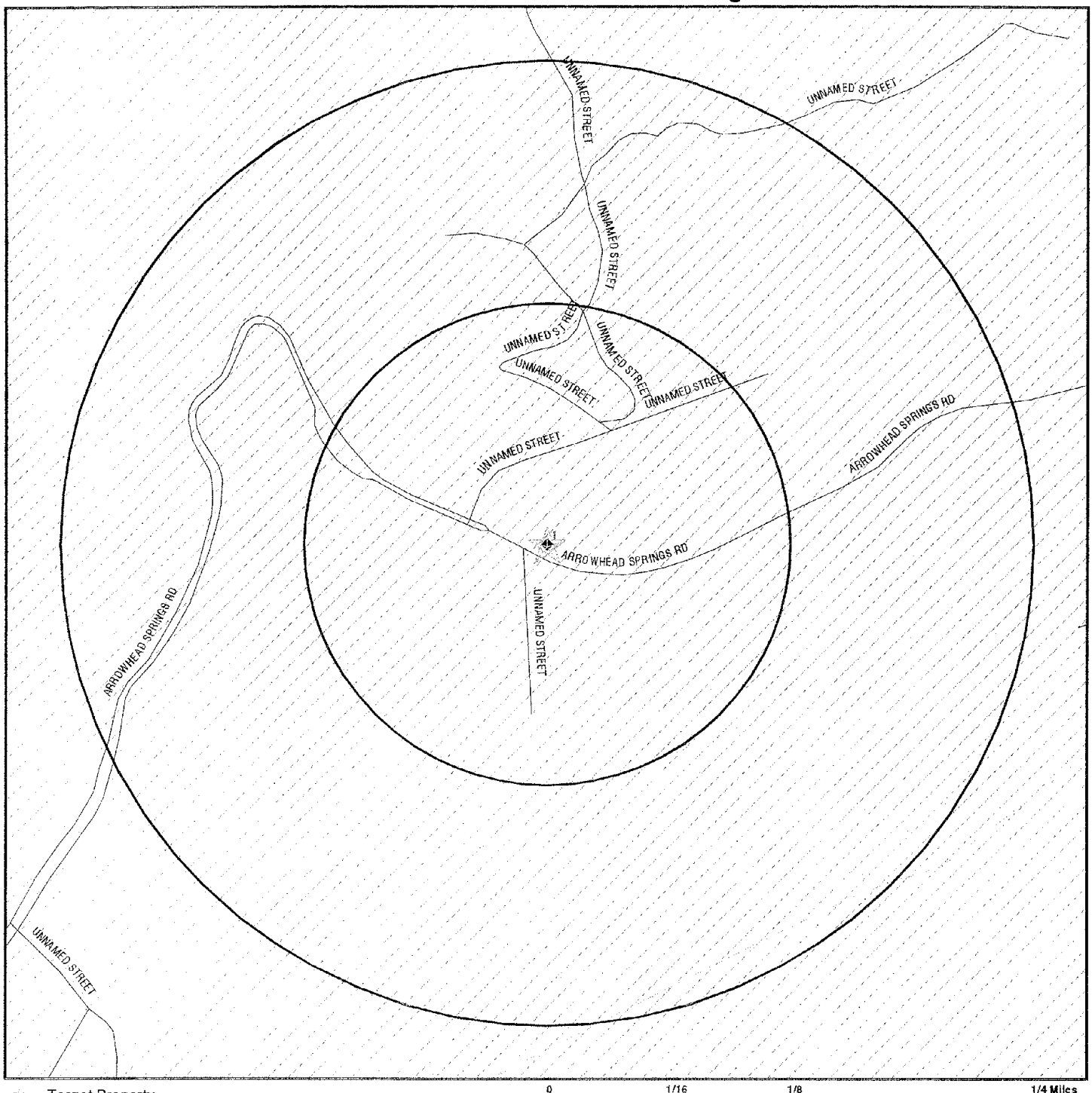
DETAIL MAP - 1352905.2s - The Planning Center



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

N

TARGET PROPERTY:	Arrowhead Springs Resort	CUSTOMER:	The Planning Center
ADDRESS:	24600 Arrowhead Springs Road	CONTACT:	Susie June
CITY/STATE/ZIP:	San Bernardino CA 92404	INQUIRY #:	1352905.2s
LAT/LONG:	34.1867 / 117.2617	DATE:	February 02, 2005 2:19 pm

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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		1.500	0	0	0	0	0	0
Proposed NPL		1.500	0	0	0	0	0	0
CERCLIS		1.000	0	0	0	0	NR	0
CERC-NFRAP		0.750	0	0	0	0	NR	0
CORRACTS		1.500	0	0	0	0	0	0
RCRA TSD		1.000	0	0	0	0	NR	0
RCRA Lg. Quan. Gen.		0.750	0	0	0	0	NR	0
RCRA Sm. Quan. Gen.		0.750	0	0	0	0	NR	0
ERNS	X	0.500	0	0	0	NR	NR	0
STATE ASTM STANDARD								
AWP		1.500	0	0	0	0	0	0
Cal-Sites		1.500	0	0	0	0	0	0
CHMIRS		0.500	0	0	0	NR	NR	0
Cortese		1.000	0	0	0	0	NR	0
Notify 65		1.500	0	0	0	0	0	0
Toxic Pits		1.500	0	0	0	0	0	0
State Landfill		1.000	0	0	0	0	NR	0
WMUDS/SWAT		1.000	0	0	0	0	NR	0
LUST		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.500	0	0	0	0	0	0
UST		0.750	0	0	0	0	NR	0
VCP		1.000	0	0	0	0	NR	0
INDIAN LUST		1.000	0	0	0	0	NR	0
INDIAN UST		0.750	0	0	0	0	NR	0
CA FID UST		0.750	0	0	0	0	NR	0
HIST UST		0.750	0	0	0	0	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.500	0	0	0	0	0	0
ROD		1.500	0	0	0	0	0	0
Delisted NPL		1.500	0	0	0	0	0	0
FINDS		0.500	0	0	0	NR	NR	0
HMIRS		0.500	0	0	0	NR	NR	0
MLTS		0.500	0	0	0	NR	NR	0
MINES		0.750	0	0	0	0	NR	0
NPL Liens		0.500	0	0	0	NR	NR	0
PADS		0.500	0	0	0	NR	NR	0
ODI		1.000	0	0	0	0	NR	0
DOD		1.500	0	0	0	0	0	0
INDIAN RESERV		1.500	0	0	0	0	0	0
UMTRA		1.000	0	0	0	0	NR	0
FUDS		1.500	0	0	0	0	0	0
RAATS		0.500	0	0	0	NR	NR	0
TRIS		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
TSCA		0.500	0	0	0	NR	NR	0
SSTS		0.500	0	0	0	NR	NR	0
FTTS		0.500	0	0	0	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		0.500	0	0	0	NR	NR	0
CLEANERS		0.750	0	0	0	0	NR	0
CA WDS		0.500	0	0	0	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
NFA		0.750	0	0	0	0	NR	0
EMI		0.500	0	0	0	NR	NR	0
REF		0.750	0	0	0	0	NR	0
SCH		0.750	0	0	0	0	NR	0
NFE		0.750	0	0	0	0	NR	0
SLIC		1.000	0	0	0	0	NR	0
HAZNET		0.500	0	0	0	NR	NR	0
San Bern. Co. Permit		0.750	0	0	0	0	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.500	0	0	0	0	0	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		1.000	0	0	0	0	NR	0
VCP		1.000	0	0	0	0	NR	0

NOTES:

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

MAP FINDINGS

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

1	**24600 ARROWHEAD SPRINGS ROAD**	**ERNS**	**2003709194**
Target	**24600 ARROWHEAD SPRINGS ROAD**		**N/A**
Property	**SAN BERNARDINO, CA**		

Actual:
2004 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BENICIA	S100179047	OHNSTON PUMP COMPANY	300 WEST CHANNEL ROAD	92407	Notify 65, HAZNET
CAJON	S103678923	ATCHINSON, TOPEKA, AND SANTA FE RAILWAY	HWY 138 / I-15	92407	HAZNET
DEVORE	S106198563	KARDOS ILLEGAL DISPOSAL SITE (IDS)	END CAJON ROAD, SE OF I-15 AND I-215	92407	SWF/LF
DEVORE	S102827695	MICHAEL HOWLETT	OLD CAJON DR / CLEGHORN RD	92407	HAZNET
DEVORE	S105088198	COAST GRAIN INC	WESTSIDE OF 15 FWY / 138 HWY	92407	HAZNET
SAN BERNARDINO	S103442797	GW INVESTIGATION	1260 WEST 3RD ST		WMUDS/SWAT
SAN BERNARDINO	S102793596	CHARLES TOWLE	154 ARROWHEAD AVE		HAZNET
SAN BERNARDINO	S104567017	GLEN HELEN REHABILITATION CENTER	18000 WEST END INSTITUTION RD	92407	HAZNET
SAN BERNARDINO	S100925144	SCE, ETIWANDA GENERATING STAT.	8996 ETIWANDA AVENUE		Toxic Pits
SAN BERNARDINO	S105247958	NORTON AFB LANDFILL	I-10/US 395 FORMER NORTON AFB		SWF/LF
SAN BERNARDINO	S102362023	COOLEY RANCH DISPOSAL SITE	SW OF MT. VERNON AVE., SB COUNTY.		SWF/LF
SAN BERNARDINO	S105155571	BLACKLAND PROPERTIES SITE	NE OF WATERMAN AVE AND VANDERBILT WAY		SWF/LF
SAN BERNARDINO	S102361976	4TH STREET ROCK INERT WASTE SITE	S. OF BASELINE / W. OF PENNSYLVANIA AVE.		SWF/LF
SAN BERNARDINO	S103679470	CLANDESTINE DRUG LAB-OPERATOR UNKNOWN	OLD WATERMAN CANYON ROAD	92404	HAZNET
SAN BERNARDINO	S105086435	SHANK BALFUR BATEY CORP	6205 N OLD WATERMEN CANYON RD	92404	HAZNET
SAN BERNARDINO	S105790529	SHEA-KENNY	6205 N OLD WATERMAN CYN	92404	San Bern. Co. Permit
SAN BERNARDINO	S105678210	MILL CREEK DISPOSAL SITE	T1S, R1W, SECTION 11		SWF/LF
SAN BERNARDINO	S105678209	DEVORE LANDFILL	T2N, R5W, SECTION 33		SWF/LF
SAN BERNARDINO	S103678634	SOUTHERN CALIFORNIA EDISON	EAST SIDE STATE ST / KENDALL	92404	HAZNET
SAN BERNARDINO	S106090269	HUD/GOLDENFEATHERS REALTY	2461 I ST WEST	92407	HAZNET
SAN BERNARDINO	U001575948	CITY CREEK STATION	STAR ROUTE, BOX 92333	92404	HIST UST
SAN BERNARDINO	S105047569	SCE-SHANDIN SUBSTATION	STATE ST / KENDALL DR	92407	San Bern. Co. Permit
SAN BERNARDINO	S104569333	SOUTHERN CALIFORNIA EDISON/SHANDIN SUB	ON STATE ST BETWEEN KENDALL DR / HWY 250	92404	HAZNET
SAN BERNARDINO	S105003804	CEDAR SPRINGS DISPOSAL SITE	UNDER SILVERWOOD LAKE, IN A STATE PARK		SWF/LF

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) and regional EPA offices.

Date of Government Version: 10/12/04
Date Made Active at EDR: 12/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/02/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/02/04

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

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

Date of Government Version: 09/23/04
Date Made Active at EDR: 12/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/02/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/02/04

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: 08/10/04
Date Made Active at EDR: 10/27/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/04
Elapsed ASTM days: 36
Date of Last EDR Contact: 12/21/04

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: 08/10/04
Date Made Active at EDR: 10/27/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/04
Elapsed ASTM days: 36
Date of Last EDR Contact: 12/21/04

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

Date of Government Version: 09/23/04
Date Made Active at EDR: 11/18/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/07/04
Elapsed ASTM days: 42
Date of Last EDR Contact: 12/07/04

RCRA: Resource Conservation and Recovery Act Information
Source: EPA
Telephone: 800-424-9346
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/23/04
Date Made Active at EDR: 01/18/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/24/04
Elapsed ASTM days: 55
Date of Last EDR Contact: 11/24/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
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: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 10/25/04

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: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/13/04
Date of Next Scheduled EDR Contact: 03/14/05

CONSENT: Superfund (CERCLA) Consent Decrees
Source: Department of Justice, Consent Decree Library
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/24/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

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

Date of Government Version: 11/24/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

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: 12/13/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

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: 10/21/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/08/04
Date of Next Scheduled EDR Contact: 02/07/05

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 12/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-564-4267
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: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
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: 09/30/04
Database Release Frequency: Annually
Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-692-8801
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

UMTRA: Uranium Mill Tailings Sites
Source: Department of Energy
Telephone: 505-845-0011
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 04/22/04
Database Release Frequency: Varies
Date of Last EDR Contact: 12/21/04
Date of Next Scheduled EDR Contact: 03/21/05

ODI: Open Dump Inventory
Source: Environmental Protection Agency
Telephone: 800-424-9346
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/85
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/03
Database Release Frequency: Varies
Date of Last EDR Contact: 01/03/05
Date of Next Scheduled EDR Contact: 04/04/05

INDIAN RESERV: Indian Reservations
Source: USGS
Telephone: 202-208-3710
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

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: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
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: 12/31/02
Database Release Frequency: Annually
Date of Last EDR Contact: 12/20/04
Date of Next Scheduled EDR Contact: 03/21/05

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
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: 12/31/02
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

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: 04/13/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/04
Date of Next Scheduled EDR Contact: 03/21/05

SSTS: Section 7 Tracking Systems
Source: EPA
Telephone: 202-564-5008
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/03
Database Release Frequency: Annually
Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 04/18/05

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: 09/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/04
Date of Next Scheduled EDR Contact: 03/21/05

STATE OF CALIFORNIA ASTM STANDARD RECORDS

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: 11/09/04
Date Made Active at EDR: 01/04/05
Database Release Frequency: Annually

Date of Data Arrival at EDR: 12/02/04
Elapsed ASTM days: 33
Date of Last EDR Contact: 12/02/04

CAL-SITES: 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: 11/09/04
Date Made Active at EDR: 01/04/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/02/04
Elapsed ASTM days: 33
Date of Last EDR Contact: 12/02/04

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-845-8400
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/03
Date Made Active at EDR: 06/25/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 05/18/04
Elapsed ASTM days: 38
Date of Last EDR Contact: 11/22/04

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
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). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 10/28/04

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-445-3846
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: 10/18/04

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: 11/01/04

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: 12/13/04
Date Made Active at EDR: 01/24/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/14/04
Elapsed ASTM days: 41
Date of Last EDR Contact: 12/14/04

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: 12/06/04

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-341-5752
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: 10/13/04
Date Made Active at EDR: 11/03/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/13/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/10/05

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 UST:

UST: Active UST Facilities
Source: SWRCB
Telephone: 916-341-5752
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/13/04
Date Made Active at EDR: 11/03/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/13/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/10/05

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/09/04
Date Made Active at EDR: 01/24/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/02/04
Elapsed ASTM days: 53
Date of Last EDR Contact: 12/02/04

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: Environmental Protection Agency
Telephone: 415-972-3372
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/03/04
Date Made Active at EDR: 11/03/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/06/04
Elapsed ASTM days: 28
Date of Last EDR Contact: 11/22/04

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: EPA Region 10
Telephone: 206-553-2857
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/29/04
Date Made Active at EDR: 10/22/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/01/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 11/22/04

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 9
Telephone: 415-972-3368

Date of Government Version: 11/02/04
Date Made Active at EDR: 12/13/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/03/04
Elapsed ASTM days: 40
Date of Last EDR Contact: 10/25/04

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

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-341-5700
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: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-341-5712
Registered Aboveground Storage Tanks.

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/01/04
Date of Next Scheduled EDR Contact: 01/31/05

CLEANERS: Cleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-225-0873
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 11/29/04
Database Release Frequency: Annually

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

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-341-5227
Sites which have been issued waste discharge requirements.

Date of Government Version: 12/20/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/21/04
Date of Next Scheduled EDR Contact: 03/21/05

DEED: Deed Restriction Listing
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/04
Database Release Frequency: Semi-Annually

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

NFA: No Further Action Determination
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 11/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/02/04
Date of Next Scheduled EDR Contact: 02/28/05

EMI: Emissions Inventory Data
Source: California Air Resources Board
Telephone: 916-322-2990
Toxics and criteria pollutant emissions data collected by the ARB and local air poliution agencies.

Date of Government Version: 12/31/02
Database Release Frequency: Varies

Date of Last EDR Contact: 10/22/04
Date of Next Scheduled EDR Contact: 01/17/05

REF: Unconfirmed Properties Referred to Another Agency
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 11/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/02/04
Date of Next Scheduled EDR Contact: 02/28/05

SCH: School Property Evaluation Program
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 11/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/02/04
Date of Next Scheduled EDR Contact: 02/28/05

NFE: Properties Needing Further Evaluation
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 11/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/02/04
Date of Next Scheduled EDR Contact: 02/28/05

SLIC: Statewide SLIC Cases
Source: State Water Resources Control Board
Telephone: 916-341-5752
The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/13/04
Database Release Frequency: Varies

Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/11/05

HAZNET: Facility and Manifest Data
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: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 11/08/04
Date of Next Scheduled EDR Contact: 02/07/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/24/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

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

Date of Government Version: 11/24/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

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: 12/13/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

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: 10/21/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/08/04
Date of Next Scheduled EDR Contact: 02/07/05

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 12/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 06/03/03
Database Release Frequency: Varies
Date of Last EDR Contact: 11/18/04
Date of Next Scheduled EDR Contact: 02/14/05

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 11/29/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/15/04
Date of Next Scheduled EDR Contact: 02/14/05

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 03/28/03
Database Release Frequency: Annually
Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/21/05

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 12/03/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/15/04
Date of Next Scheduled EDR Contact: 02/14/05

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/04
Database Release Frequency: Varies
Date of Last EDR Contact: 12/13/04
Date of Next Scheduled EDR Contact: 03/14/05

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/30/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/12/04
Date of Next Scheduled EDR Contact: 02/14/05

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/26/04
Database Release Frequency: Annually
Date of Last EDR Contact: 11/15/04
Date of Next Scheduled EDR Contact: 02/14/05

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-972-3178
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 07/06/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 11/16/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/01/04
Date of Next Scheduled EDR Contact: 01/31/05

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 12/27/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/28/04
Date of Next Scheduled EDR Contact: 03/28/05

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 12/27/04
Database Release Frequency: Annually

Date of Last EDR Contact: 12/27/04
Date of Next Scheduled EDR Contact: 03/28/05

ORANGE COUNTY:

List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 12/01/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/10/04
Date of Next Scheduled EDR Contact: 03/07/05

List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 12/01/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/10/04
Date of Next Scheduled EDR Contact: 03/07/05

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

Date of Government Version: 12/01/04
Database Release Frequency: Annually

Date of Last EDR Contact: 12/10/04
Date of Next Scheduled EDR Contact: 03/07/05

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7312
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 10/04/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/20/04
Date of Next Scheduled EDR Contact: 03/21/05

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: 12/06/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/17/05
Date of Next Scheduled EDR Contact: 04/18/05

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

Date of Government Version: 12/06/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/17/04
Date of Next Scheduled EDR Contact: 04/18/05

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 08/28/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/13/04
Date of Next Scheduled EDR Contact: 01/31/05

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 10/15/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/02/04
Date of Next Scheduled EDR Contact: 01/31/05

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: 09/17/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

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: 08/01/00
Database Release Frequency: Varies
Date of Last EDR Contact: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

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: 06/29/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/04/05

SAN FRANCISCO COUNTY:

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

Date of Government Version: 12/09/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

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

Date of Government Version: 12/09/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

SAN MATEO COUNTY:

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

Date of Government Version: 10/27/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/11/05

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: 08/19/04
Database Release Frequency: Annually
Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/11/05

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

Date of Government Version: 06/30/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/28/04
Date of Next Scheduled EDR Contact: 03/28/05

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

Date of Government Version: 10/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

SOLANO COUNTY:

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

Date of Government Version: 12/14/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/04
Date of Next Scheduled EDR Contact: 03/14/05

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

Date of Government Version: 12/14/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/14/05

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 10/25/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

SUTTER COUNTY:

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

Date of Government Version: 01/29/04
Database Release Frequency: Semi-Annually

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

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: 08/01/04
Database Release Frequency: Annually

Date of Last EDR Contact: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

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: 11/30/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/17/04
Date of Next Scheduled EDR Contact: 03/14/05

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: 09/29/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/14/05
Date of Next Scheduled EDR Contact: 04/11/05

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: 12/01/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/17/04
Date of Next Scheduled EDR Contact: 03/14/05

YOLO COUNTY:

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

Date of Government Version: 11/23/04
Database Release Frequency: Annually
Date of Last EDR Contact: 01/17/05
Date of Next Scheduled EDR Contact: 04/18/05

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
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

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: 09/30/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/11/05

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: 05/19/03
Database Release Frequency: Varies
Date of Last EDR Contact: 11/17/04
Date of Next Scheduled EDR Contact: 02/14/05

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/04
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/27/04
Date of Next Scheduled EDR Contact: 03/28/05

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291

Date of Government Version: 10/01/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 10/22/04
Date of Next Scheduled EDR Contact: 01/30/05

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/03
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

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: 08/09/04
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 01/03/05
Date of Next Scheduled EDR Contact: 04/04/05

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: 02/26/04
Database Release Frequency: Varies
Date of Last EDR Contact: 12/27/04
Date of Next Scheduled EDR Contact: 03/28/05

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 11/01/04
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 11/10/04
Date of Next Scheduled EDR Contact: 02/07/05

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/18/04
Date of Next Scheduled EDR Contact: 01/17/05

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: 04/03/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 02/21/05

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: 09/30/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/10/05
Date of Next Scheduled EDR Contact: 04/11/05

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: 11/18/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/15/04
Date of Next Scheduled EDR Contact: 02/14/05

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: 11/17/04
Database Release Frequency: Varies
Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 01/04/05
Date of Next Scheduled EDR Contact: 04/04/05

SLIC REG 6L: SLIC Sites
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574

Date of Government Version: 09/07/04
Database Release Frequency: Varies
Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

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: 04/01/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/17/04
Date of Next Scheduled EDR Contact: 04/04/05

SLIC REG 7: SLIC List
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491

Date of Government Version: 11/24/04
Database Release Frequency: Varies
Date of Last EDR Contact: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298

Date of Government Version: 07/01/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 01/07/05
Date of Next Scheduled EDR Contact: 04/04/05

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

Date of Government Version: 09/10/04
Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

EDR PROPRIETARY HISTORICAL 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.

Disclaimer Provided by Real Property Scan, Inc.

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.

BROWNFIELDS DATABASES

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 11/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/02/04
Date of Next Scheduled EDR Contact: 02/28/05

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

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

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: 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.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

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 2002 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ARROWHEAD SPRINGS RESORT
24600 ARROWHEAD SPRINGS ROAD
SAN BERNARDINO, CA 92404

TARGET PROPERTY COORDINATES

Latitude (North):	34.186699 - 34° 11' 12.1"
Longitude (West):	117.261703 - 117° 15' 42.1"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	475885.0
UTM Y (Meters):	3782693.0
Elevation:	2005 ft. above sea level

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).

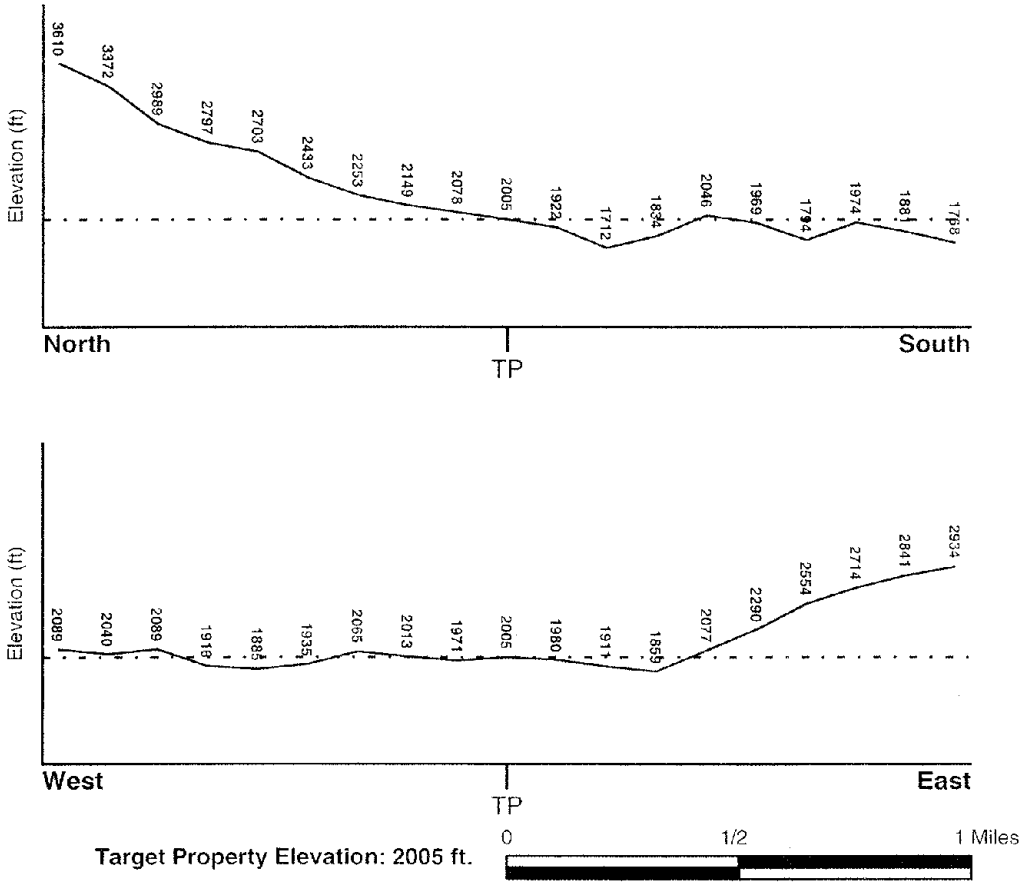
TOPOGRAPHIC INFORMATION

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.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map:	34117-B3 SAN BERNARDINO NORTH, CA
General Topographic Gradient:	General SSE
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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 Flood Electronic Data
SAN BERNARDINO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	06071C7942F
Additional Panels in search area:	06071C7955F 06071C7935F 06071C7961F

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	Not Available

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.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Mesozoic	Category:	Plutonic and Intrusive Rocks
System:	Cretaceous		
Series:	Cretaceous granitic rocks		
Code:	Kg *(decoded above as Era, System & Series)*		

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).

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:	gravelly - loamy sand coarse sandy loam stony - loamy sand fine sand silt loam sandy loam fine sandy loam clay loam gravelly - sandy loam loamy fine sand
Surficial Soil Types:	gravelly - loamy sand coarse sandy loam stony - loamy sand fine sand silt loam sandy loam fine sandy loam clay loam gravelly - sandy loam loamy fine sand
Shallow Soil Types:	fine sandy loam gravelly - loam
Deeper Soil Types:	gravelly - fine sandy loam sand silty clay loam gravelly - sandy loam 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

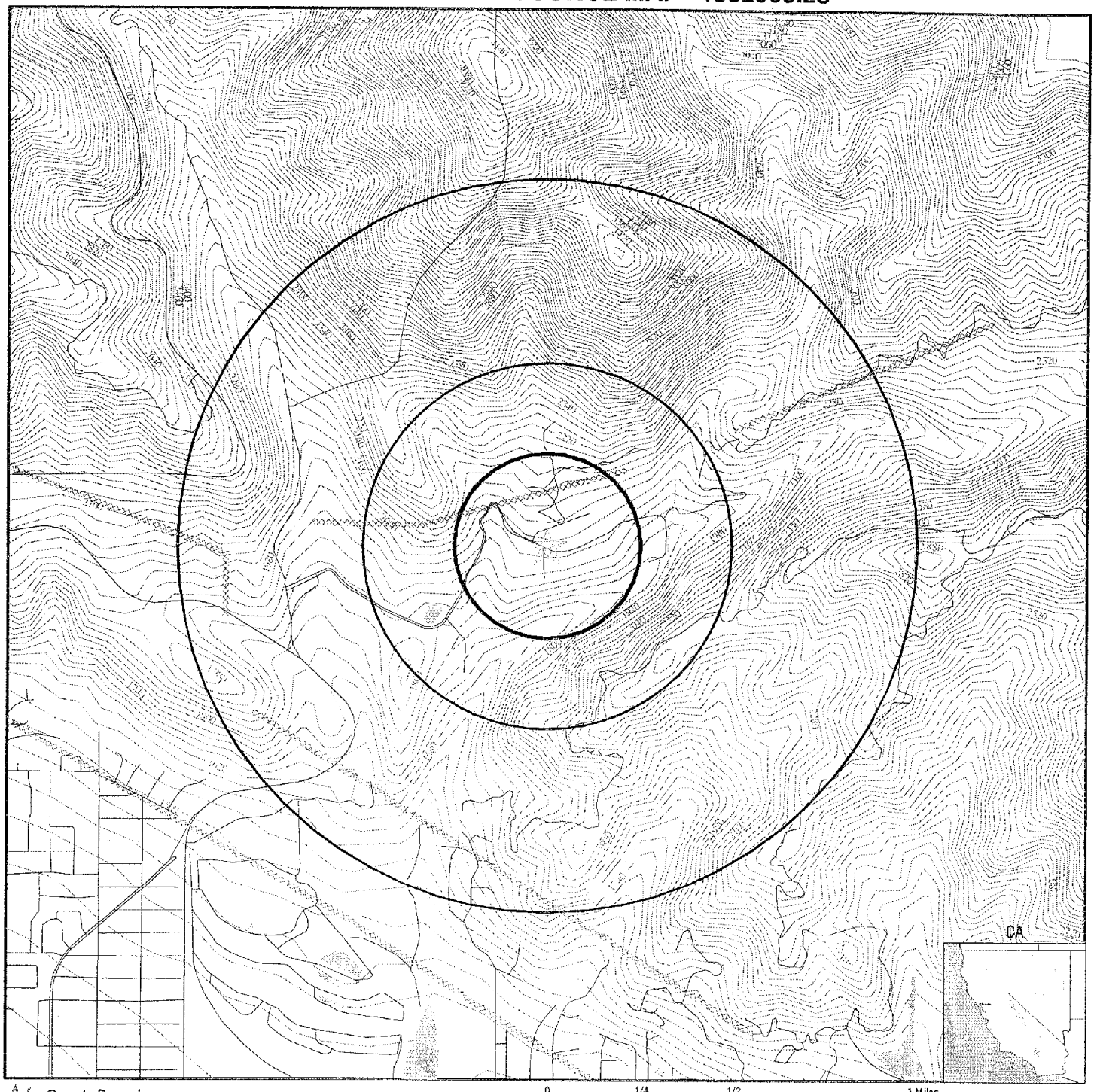
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1352905.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	Arrowhead Springs Resort	CUSTOMER:	The Planning Center
ADDRESS:	24600 Arrowhead Springs Road	CONTACT:	Susie June
CITY/STATE/ZIP:	San Bernardino CA 92404	INQUIRY #:	1352905.2s
LAT/LONG:	34.1867 / 117.2617	DATE:	February 02, 2005 2:19 pm

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GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
92404	7	0	0.00

Federal EPA Radon Zone for SAN BERNARDINO 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.

Federal Area Radon Information for Zip Code: 92404

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

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 2002 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
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation 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: 202-564-3750
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: 202-564-3750
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: USGS National Water Inventory System (NWIS)
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 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, 3, 5 and 6
Source: Department of Conservation
Telephone: 916-323-1779

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
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
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

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.

Appendix C. Agency Records

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Permits

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COUNTY OF SAN BERNARDINO
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

ATTN : DEPT 51-00
ARROWHEAD SP CH/CONF CNTR
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA 92414-0000

This Unified Permit is hereby issued to:
ARROWHEAD SP CH/CONF CNTR
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA
92414-0000

Permit is issued to Facility: FA0001134 for a period not to exceed one year from effective date.

Effective Date: 8/1/2004 Expiration Date: 7/31/2005

Permit Number	Program Element	Related ID
PT0002725	4221 HAZMAT HANDLER 0-10 EMPLOYEES	PR0003128
PT0002726	4420 SPECIAL GENERATOR(B)	PR0003129
PT0011599	4104 UST OWNERSHIP/OPERATING PERMIT (PER UST	TA0001478
PT0011600	4104 UST OWNERSHIP/OPERATING PERMIT (PER UST	TA0001479

Peter R. Hills

Peter R. Hills, Fire Chief/Fire Warden

THIS PERMIT IS NOT TRANSFERABLE AND IS ISSUED CONDITIONALLY
UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT.
THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

17.20962.638 Rev. 8/02

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 · www.aqmd.gov

DATE: 09-01-04

EQUIPMENT LOCATED AT: ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA 92414- 0001

LEGAL OWNER CO. ID: 66484
OR OPERATOR CAMPUS CRUSADE FOR CHRIST INTERNATIONAL
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA 92414

PERMIT/APPLICATION RENEWALS

PERMIT/ APPL NBR	EQUIPMENT DESCRIPTION	NEXT RENEWAL DATE
BILLING YEAR :	2004	
M91380	SERV STAT STORAGE & DISPENSING GASOLINE	08-16-05

DEPARTMENT OF INDUSTRIAL RELATIONS
STATE OF CALIFORNIA

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

PERMIT TO OPERATE AN ELEVATOR

ELEVATOR NUMBER: *022364*

INSPECTION DATE: *06/24/1999*

ISSUE DATE: *08/19/1999*

PERMIT EXPIRES: *06/24/2000*

LOCATION: *24600 ARROWHEAD SPRINGS RD*
SAN BERNARDINO, CA 92414

OWNERS ID: *PASS*

California law requires that all elevators must have a valid permit visibly posted in the car. (Labor Code Sections 7300-7319). Please detach your new permit at the dotted line and post in elevator car. Retain this portion for your records.

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY & HEALTH

INSPECTION:	*022364* Elevator Number	*06/24/1999* Date of Inspection	*06/24/2000* Date Permit Expires
LOCATION:	*24600 ARROWHEAD SPRINGS RD* Street Address		*SAN BERNARDINO* City or Town
LOAD PERMISSIBLE:	*002000* Pounds	*013* Persons	*D4650* Inspector
DESCRIPTION:	*PASSENGER* Type of Elevator	*PASS* Owner's Id	*GENERATOR,ELEC* Power	*OVERHD TRACTIO* Type of Machine

EV02

THIS PERMIT MUST BE POSTED IN ELEVATOR CAR

PERMIT

NON-TRANSFERABLE Expires: 8/31/2005

This permit may be suspended or revoked by the Department of Public Health for cause. This permit is granted on the condition that the permittee will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California, and the County of San Bernardino pertaining to the below mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

The Business Owner is responsible for timely renewal. Not receiving a renewal notice for any reason does not relieve responsibility for timely payment. If not paid within 30 days of the expiration date shown, a 25% penalty will be imposed. Failure to correct violations cited on an inspection report, by the noted compliance date, shall necessitate an additional re-inspection at a charge of $52.00/hr.

ARROWHEAD SPRINGS CCC
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA 92414

OWNER OF RECORD : CAMPUS CRUSADE FOR CHRIST
REGULATED FACILITY : FA0008267

	Prog. Element	General Health Program	Permit #	Program #	PR# Barcode
1	3601	Housing Unit, Each Pool or Spa	PT0013838	PR0013842	

TOTAL FEE PAID: $233.00

MUST BE POSTED IN A CONSPICUOUS PLACE AT THE PERMITTED FACILTY. ISSUANCE OF THIS PERMIT DOES NOT IMPLY APPROVAL

THIS IS NOT AN INVOICE

Director
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

DEPARTMENT OF PUBLIC HEALTH - DIVISION OF ENVIRONMENTAL HEALTH SERVICES
385 N. Arrowhead Ave., Second Floor, San Bernardino, CA 92415-0160 - (909) 884-4056 - FAX (909) 387-4323 - www.sbcounty.gov/dehs

COUNTY
OF
SAN BERNARDINO

Did you know that San Bernardino County EHS is on-line? Visit our website at http://www.sbcounty.gov/dehs/

Underground Storage Tanks

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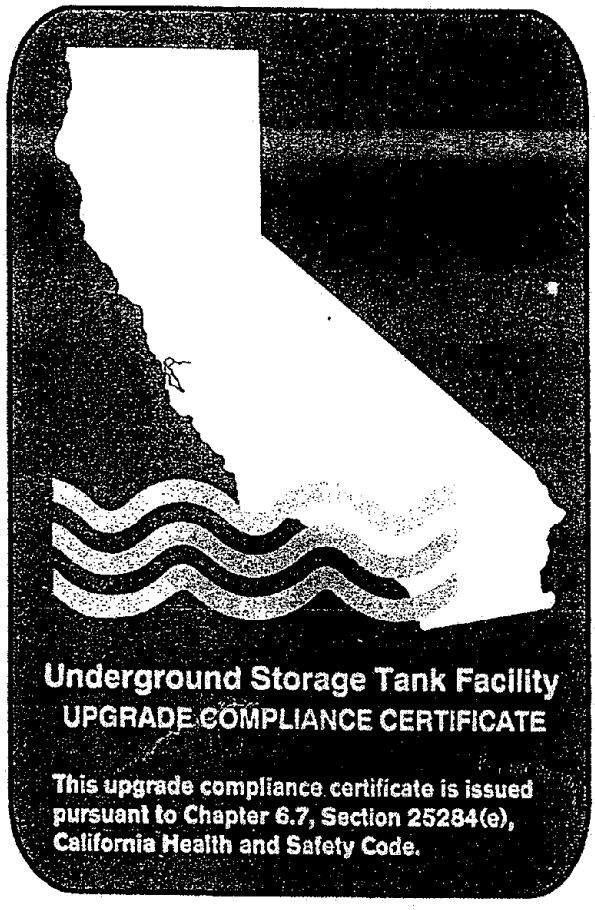
CA Cert. No. 16698



An upgrade compliance certificate has been issued in connection with the operating permit for the facility indicated below. The certificate number on this facsimile matches the number on the certificate displayed at the facility.

Instructions to the issuing agency: Use the space below to enter the following information in the format of your choice: name of owner; name of operator; name of facility; street address, city, and zip code of facility; facility identification number (from Form A); name of issuing agency; and date of issue. Other identifying information may be added as deemed necessary by the local agency.

ESTABLISHMENT # 86010236
Owner: CAMPUS CR/CHRIST, INT'L
Operator: CAMPUS CRUSADE FOR CHRIST
Facility: ARROWHEAD SP CH/CONF CNTR
24600 ARROWHEAD SPRINGS RD, SAN BERNARDINO
Number of Tanks: 2 92414

ISSUING AGENCY:
San Bernardino County Fire Department
Date: 2/3/99
Inspector: Corey Beard

COUNTY FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO

HAZARDOUS MATERIALS DIVISION
FIELD SERVICES • ENVIRONMENTAL PROTECTION
385 North Arrowhead Avenue, Second Floor • San Bernardino, CA 92415-0153
(909) 387-3080 • Fax (909) 387-4323

PETER R. HILLS
Fire Chief
County Fire Warden

JANUARY 29, 1999

ARROWHEAD SPRINGS
CHRISTIAN CONFERENCE CENTER
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO, CA 92414

SUBJECT: SOIL SAMPLING IN CONJUNCTION WITH 1998 UST UPGRADES AT 24600 ARROWHEAD SPRINGS RD, SAN BERNARDINO

The Department has received the sample results and/or closure report submitted by Cal Science Environmental Laboratories, Inc dated January 19, 1998. After review of the reports prepared by you or your agent, it has been determined that the extent of contamination or lack thereof would indicate that no further investigation is warranted at this time.

It is important to note that this can not be construed as a release of liability for the site or declaration that the site is free from contamination. Should further projects or environmental investigations reveal additional contaminants site you will be responsible and held liable for the investigation and remedial actions. If you have any questions, please call (909) 387-3082.

Jim E Smith

JIM E. SMITH, E.S. III
Hazardous Materials Division

JES/ll

cc: Source Enterprises

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (✓) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAP OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION (✓) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASH (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS [illegible]

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
[signature]	(714) 886-5[illegible]

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	[illegible]
CONTACT PERSON	PHONE W/AREA CODE	

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

HSC04-070185

PAGE 2

ST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(✓) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY): Campus Crusade for Christ International
PUBLIC AGENCY ONLY: ( ) 01 FED ( ) 02 STATE ( ) 03 LOCA

STREET ADDRESS: Arrowhead Springs 51-10
CITY: San Bernardino
STATE: Ca.
ZIP: 92414

II FACILITY

FACILITY NAME: International Headquarters
DEALER/FOREMAN/SUPERVISOR: John Emmons

STREET ADDRESS: Arrowhead Springs 51-10
NEAREST CROSS STREET: Old Waterman Canyon Road

CITY: San Bernardino
COUNTY: San Bernardino
ZIP: 92414

MAILING ADDRESS: Same
CITY:
STATE:
ZIP:

PHONE W/AREA CODE: (714) 886-5224 x 3425
TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (✓) 02 OTHER Headquarters, Conference Center

NUMBER OF CONTAINERS: 6
RURAL AREAS ONLY: TOWNSHIP: RANGE: SECTION:

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 886-5224 x 3425
NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 882-8135

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

Windy Point

A. (✓) 01 TANK ( ) 04 OTHER: CONTAINER NUMBER

B. MANUFACTURER (IF APPROPRIATE): YEAR MFG: C. YEAR INSTALLED (✓) UNKNO

D. CONTAINER CAPACITY: GALLONS (✓) UNKNOWN E. DOES THE CONTAINER STORE: ( ) 01 WASTE ( ) 02 PRODUCT
abandoned

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (✓) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES)
( ) 01 UNLEADED (✓) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (✓) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (✓) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (✓) 02 SINGLE WALLED ( ) 03 LINED

D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
(✓) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
(✓) 07 UNLINED ( ) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION (✓) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASE (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Doug Culbertson	(714) 886-5224 x 3434

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE

CONTACT PERSON	PHONE W/AREA CODE

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

ST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(✓) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY): Campus Crusade for Christ International
PUBLIC AGENCY ONLY: ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
STREET ADDRESS: Arrowhead Springs 51-10
CITY: San Bernardino
STATE: Ca.
ZIP: 92414

II FACILITY

FACILITY NAME: International Headquarters
DEALER/FOREMAN/SUPERVISOR: John Emmons
STREET ADDRESS: Arrowhead Springs 51-10
NEAREST CROSS STREET: Old Waterman Canyon Road
CITY: San Bernardino
COUNTY: San Bernardino
ZIP: 92414
MAILING ADDRESS: Same
CITY:
STATE:
ZIP:
PHONE W/AREA CODE: (714) 886-5224 x 3425
TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (✓) 02 OTHER Headquarters, Conference Center
NUMBER OF CONTAINERS: 6
RURAL AREAS ONLY: TOWNSHIP: RANGE: SECTION:

III 24 HOUR EMERGENCY CONTACT PERSON

DAY: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 886-5224 x 3425
NIGHT: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 882-8135

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION — Hotel Oil Tank

A. (✓) 01 TANK ( ) 04 OTHER: CONTAINER NUMBER:
B. MANUFACTURER (IF APPROPRIATE): YEAR MFG:
C. YEAR INSTALLED 1939 ( ) UNKNOWN
D. CONTAINER CAPACITY: 2200 GALLONS ( ) UNKNOWN
E. DOES THE CONTAINER STORE: ( ) 01 WASTE (✓) 02 PRODUCT
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (✓) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL (✓) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (✓) UNKNOWN
B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (✓) 02 NON-VAULTED ( ) 03 UNKNOWN
C. ( ) 01 DOUBLE WALLED ( ) 02 SINGLE WALLED ( ) 03 LINED unknown
D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE (✓) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
( ) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (✓) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION (✓) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASS (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Barry Callaghan	(714) 886-5224 x 3434

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY		CITY CODE	COUNTY CODE
CONTACT PERSON		PHONE W/AREA CODE	
DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

MSDS4-070185

ST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(✓) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY): Campus Crusade for Christ International
PUBLIC AGENCY ONLY: ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
STREET ADDRESS: Arrowhead Springs 51-10
CITY: San Bernardino
STATE: Ca.
ZIP: 92414

II FACILITY

FACILITY NAME: International Headquarters
DEALER/FOREMAN/SUPERVISOR: John Emmons
STREET ADDRESS: Arrowhead Springs 51-10
NEAREST CROSS STREET: Old Waterman Canyon Road
CITY: San Bernardino
COUNTY: San Bernardino
ZIP: 92414
MAILING ADDRESS: Same
CITY:
STATE:
ZIP:
PHONE W/AREA CODE: (714) 886-5224 x 3425
TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (✓) 02 OTHER Headquarters, Conference Center
NUMBER OF CONTAINERS: 6
RURAL AREAS ONLY: TOWNSHIP: RANGE: SECTION:

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 886-5224 x 3425
NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 882-8135

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION — Old Quonset Tank

A. (✓) 01 TANK ( ) 04 OTHER:
CONTAINER NUMBER:
B. MANUFACTURER (IF APPROPRIATE):
YEAR MFG:
C. YEAR INSTALLED ( ) UNKNOWN
D. CONTAINER CAPACITY: 3000 GALLONS ( ) UNKNOWN
E. DOES THE CONTAINER STORE: ( ) 01 WASTE ( ) 02 PRODUCT — abandoned
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL? (✓) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER unknown

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (✓) UNKNOWN
B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (✓) 02 NON-VAULTED ( ) 03 UNKNOWN
C. ( ) 01 DOUBLE WALLED (✓) 02 SINGLE WALLED ( ) 03 LINED
D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
(✓) 12 UNKNOWN ( ) 13 OTHER:

HSD04-079185

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (✓) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION (✓) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-4 YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CAS# (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Greg Calloway	(214) 886-5224 x 3434

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE

CONTACT PERSON	PHONE W/AREA CODE

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

MSC04-070185

GST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(✓) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION,INDIVIDUAL OR PUBLIC AGENCY): Campus Crusade for Christ International
PUBLIC AGENCY ONLY: ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
STREET ADDRESS: Arrowhead Springs 51-10
CITY: San Bernardino
STATE: Ca.
ZIP: 92414

II FACILITY

FACILITY NAME: International Headquarters
DEALER/FOREMAN/SUPERVISOR: John Emmons
STREET ADDRESS: Arrowhead Springs 51-10
NEAREST CROSS STREET: Old Waterman Canyon Road
CITY: San Bernardino
COUNTY: San Bernardino
ZIP: 92414
MAILING ADDRESS: Same
CITY:
STATE:
ZIP:
PHONE W/AREA CODE: (714) 886-5224 x 3425
TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (✓) 02 OTHER Headquarters, Conference Center
NUMBER OF CONTAINERS: 6
RURAL AREAS ONLY: TOWNSHIP: RANGE: SECTION:

III 24 HOUR EMERGENCY CONTACT PERSON

DAY: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 886-5224 x 3425
NIGHT: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 882-8135

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION — Hill Mud. East Tank

A. (✓) 01 TANK ( ) 04 OTHER: CONTAINER NUMBER
B. MANUFACTURER (IF APPROPRIATE): YEAR MFG: C. YEAR INSTALLED (✓) UNKNOWN
D. CONTAINER CAPACITY: GALLONS (✓) UNKNOWN E. DOES THE CONTAINER STORE: ( ) 01 WASTE ( ) 02 PRODUCT — abandoned
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (✓) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER unknown

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (✓) UNKNOWN
B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (✓) 02 NON-VAULTED ( ) 03 UNKNOWN
C. ( ) 01 DOUBLE WALLED (✓) 02 SINGLE WALLED ( ) 03 LINED
D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
(✓) 12 UNKNOWN ( ) 13 OTHER:

MSC94-073185

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (✓) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION (✓) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-4 YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASS (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Barry Callaston	(714) 886-5224 x3434

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE

CONTACT PERSON	PHONE W/AREA CODE

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

CONTAINER CONSTRUCTION

STATE ID NUMBER

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (✓) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (✓) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (✓) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES)) (✓) 04 PRESSURE (✓) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

( ) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST (✓) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-4 YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CAS# (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (✓) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Greg Culbertson	(714) 886-5224 x 3434

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY		CITY CODE	COUNTY CODE
CONTACT PERSON		PHONE W/AREA CODE	
DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

H3004-070165

ST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

(✓) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY): Campus Crusade for Christ International
PUBLIC AGENCY ONLY: ( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL
STREET ADDRESS: Arrowhead Springs 51-10
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CITY:
STATE:
ZIP:
PHONE W/AREA CODE: (714) 886-5224 x 3425
TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (✓) 02 OTHER Headquarters, Conference Center
NUMBER OF CONTAINERS: 6
RURAL AREAS ONLY: TOWNSHIP: RANGE: SECTION:

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 886-5224 x 3425
NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE: Emmons, John (714) 882-8135

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

Garage Gas Tank

A. (✓) 01 TANK ( ) 04 OTHER:
CONTAINER NUMBER
B. MANUFACTURER (IF APPROPRIATE):
YEAR MFG:
C. YEAR INSTALLED (✓ UNKNOWN)
D. CONTAINER CAPACITY: 2000 GALLONS ( ) UNKNOWN
E. DOES THE CONTAINER STORE: ( ) 01 WASTE (✓) 02 PRODUCT
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (✓) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
(✓) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (✓ UNKNOWN)
B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (✓) 02 NON-VAULTED ( ) 03 UNKNOWN
C. ( ) 01 DOUBLE WALLED (✓) 02 SINGLE WALLED ( ) 03 LINED
D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
(✓) 12 UNKNOWN ( ) 13 OTHER:

MSC04-073185

RENEWAL APPLICATION FOR HEALTH PERMIT INSPECTION AND HEALTH SERVICES

SAN BERNARDINO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVE., SAN BERNARDINO, CA. 92415-0160

- FOLLOWING INFORMATION CAREFULLY. MAKE CORRECTIONS DIRECTLY ON THE FORM BY CROSSING OUT THE PRE-PRINTED INFORMATION
.E CHANGES. *** PLEASE PRINT. ***

SHMENT INFO CAMPUS CRUSADE FOR CHRIST
ARROWHEAD SPRINGS Dept. 51-10
SAN BERNARDINO, CA 92414

<V> CHECK HERE IF APPLICANT IS SAME AS LEGAL OWNER

APPLICANT INFO CAMPUS CRUSADE FOR CHRIST
ARROWHEAD SPRINGS
SAN BERNARDINO, CA 92414

NER INFO CAMPUS CRUSADE FOR CHRIST
ARROWHEAD SPRINGS
SAN BERNARDINO, CA 92414

IS THIS A TRANSFER? no

IF YES: FORMER ESTABLISHMENT NAME _____

FORMER OWNER _____

T: ALL CORRESPONDENCE SHOULD BE SENT TO: ✓ ESTABLISHMENT ADDRESS ___ LEGAL OWNER ___ APPLICANT

OF UNDERGROUND STORAGE TANKS: ~~001~~ 006

FEE INCLUDES $11.20 PER TANK -- STATE WATER RESOURCES CONTROL BOARD SURCHARGE.

CY CONTACT:	POSITION:	WORK PHONE:	24-HR PHONE:
Emmons	Tech. Serv. Director	886-5224 x3425	882-8135

OFFICE USE ONLY
EST NBR 86010236
PERMIT NBR 8603270061
FORMER EST NBR _____
PERMIT CATEGORY 222800
EXPIR DATE 05/30/86
NEW, TRANS, RENEW R
LOC CODE 64
SANI DIST 2200
MFR NBR
APN
PERMIT FEE _____
STATE FEE _____
DELINQUENT FEE _____
TOTAL FEE REC'D _____

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

MAKE APPLICATION FOR HEALTH SERVICES AND PERMIT TO ESTABLISH AND/OR OPERATE THE ABOVE MENTIONED , USE, OR SERVICE IN ACCORDANCE WITH THE LAWS, ORDINANCES, AND REGULATIONS THAT ARE NOW OR MAY TER BE IN FORCE BY THE UNITED STATES GOVERNMENT, THE STATE OF CALIFORNIA, AND THE COUNTY OF ARDINO PERTAINING TO THE ABOVE MENTIONED BUSINESS. I HEREBY CONSENT TO ALL NECESSARY INSPECTIONS TO THE ISSUANCE OF THIS PERMIT AND THE OPERATION OF THE BUSINESS.

Jay Carlotta DATED May 12, 1986 TITLE Engineer

ALL FEES ARE DUE AND PAYABLE WITHIN 30 DAYS. FAILURE TO PAY WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE. APPLICATION AND FEE MUST BE SUBMITTED PRIOR TO OPERATION BY ANY NEW OWNER, OR A DELINQUENT FEE WILL BE CHARGED.

COUNTY OF SAN BERNARDINO, CALIFORNIA
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
I N V O I C E

PAGE 1
BILL DATE 04/17/86

MIT COPY ***

ESTABLISHMENT NBR 86010236

CAMPUS CRUSADE FOR CHRIST
ARROWHEAD SPRINGS
SAN BERNARDINO, CA 92414

CAMPUS CRUSADE FOR CHRIST
ARROWHEAD SPRINGS
SAN BERNARDINO, CA 92414

NBR	CATEGORY	DESCRIPTION	BILL CODE	AMOUNT
				0.00
0061	222800	PREVIOUS BALANCE		
		UNDERGROUND STORAGE TANKS	101	106.00
		STATE FEE	105	11.20
		PERMIT TOTAL		117.20
		TOTAL DUE		117.20

E-138

ES ARE DUE AND PAYABLE WITHIN 30 DAYS. FAILURE TO PAY WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE.
F SEPARATE THESE FORMS. REVIEW, UPDATE, AND SIGN THE ATTACHED RENEWAL APPLICATION(S). RETURN REMIT COPY
E INVOICE AND APPLICATION(S) WITH REMITTANCE TO:

ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA. 92415-0160
PHONE 714-383-2760

6 tanks

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

$106 + ($52 x 5) + ($11.20 x 6) = $433.20

ALM SERVICES, INC.
SERVICE STATION CONTRACTOR
P.O. BOX 2354
LAKESIDE, CALIFORNIA 92040

LICENSE NO. 464087
TELEPHONE (619) 561-6048

November 2, 1988

page three

Underground Tank Proposal

Any work or delays due to contaminated soil will be extra. If the material in the old tanks is other than normal gasoline or fuel oil products the disposal of them will be extra.

I am confident this scope of work by Alm Services, Inc. will resolve your underground tank dilemma. We have the experience, manpower and equipment at your disposal should any change in the scope be needed.

I look forward to working with you.

Sincerely,

Robert Alm
President

RA/dp

ALM SERVICES , INC.
SERVICE STATION CONTRACTOR
P.O. BOX 2354
LAKESIDE, CALIFORNIA 92040

LICENSE NO. 464087
TELEPHONE (619) 561-6048

November 2, 1988

Underground Tank Proposal

- Soil Samples (continued)
  eleven (11). If there is suspected contamination and more are required they will be extra. No groundwater samples are included. Turnaround time for the samples is two weeks.
- Slurray Fill- $ 1,019.-
  Upon approval of the results of the soil samples by the Health Department, the 2,000 gallon concrete tank will be filled with sand slurray mix. The dirt will be brought to grade. Landscape by others.
- Backfill- $ 1,650.-
  Import fill, backfill and compact all excavations to 90%. Compaction report is not included. The sand inside the two tanks will be used as backfill material.
- Patch A/C- $ 773.-
  Patch disturbed A/C over the area of the two sand filled tanks. The hole at the Forest station will be brought to finish grade with dirt. No A/C patch there.
- Install New Tank- $18,619.-
  Furnish and install one (1) Trusco two-compartment 3,000 gallon tank. One 2,000 gallon compartment to be gasoline, one 1,000 gallon compartment to be diesel. Reinstall the existing gas pump. Furnish and install a new hand pump for the diesel. Furnish and install leak monitor, piping, tank trim, and electrical as needed. Pour a 6" thick reinforced concrete pad over the entire tank hole. Pour new 4' X 5' concrete pump island.

  TOTAL PRICE for this project is.....$34,246.-

Payment terms shall be:
10% before securing permits.
30% upon tank removal and soil sampling.
60% upon slurray fill and new tank fire-up.

Invoices will be due upon receipt, delinquent in 10 days. A late charge of .05% per day will be paid on past due amounts.

You mentioned to me that you may want to use an outside backhoe where needed. Due to the potential for problems in having an operator unfamiliar with underground tanks, and the coordination and supervision problems, I am opting to keep the excavation work in-house. We have our own backhoe that we will bring up for the project.

(continued next page)

ALM SERVICES, INC.
SERVICE STATION CONTRACTOR
P.O. BOX 2354
LAKESIDE, CALIFORNIA 92040

LICENSE NO. 464087
TELEPHONE (619) ~~561-6048~~

7/29/93
Payer
619-973-3147
Ph 619 562 4742
Fax 619 562 5530
* Dean Prater

November 2, 1988

Campus Crusade for Christ
Rod Garton
Arrowhead Springs
San Bernardino, CA 92414

Subject:Proposal to satisfy your underground tank needs.

Dear Mr. Garton:

Per your letter dated May 29,1986,summarizing your underground tank plans, and our meeting at the conference center, I am pleased to offer the following proposal:

Alm Services, Inc. will furnish supervision, labor, equipment and materials to remove five (5) tanks, slurray fill one (1) and install one (1) new two-compartment tank at the Arrowhead Springs facility.

Scope of Work:

- Secure Permits- $ 1,712.-
  Permits for removal and installation (Air Pollution Authority, Health Services, and Fire Dept.)
- Expose Tanks- $ 2,738.-
  Remove concrete, A/C and dirt over tanks. Dispose of demo material. Barricade excavated area with lighted barricades.
- Clean Tanks- $ 2,761.-
  Rinse all tanks and dispose of liquid. Liquid level to be below 4" in each tank. Sludge removal, if any, will be extra.Because I do not know the exact nature of the fuel oil in the concrete tank, I am excluding the removal of it. If it is in decent shape we may be able to arrange for someone to pick it up free of charge. We will have to have it tested to know for certain.
- Remove Tanks- $ 2,262.-
  1-500 gallon gas at Forest Service station, 1-2,000 gallon gas at garage, 2-2,000 gallon filled with sand, and 1-3,000 gallon fuel oil tank. Dispose of tanks as scrap metal.
- Soil Samples- $ 2,712.-
  Gather soil samples around the old tanks upon removal, at the concrete tank prior to slurray filling, and from the sand inside the two tanks.I am assuming the sand inside the tanks will be clean enough to use as back-fill material. The total number of soil samples is

(continued next page)

unsightly mess at the main entrance to the hotel, and would require blocking off a required emergency exit from the building.

Tank No. 4 is a 3000 gallon vertical tank, probably of steel, installed about 1944, and used for oil storage for 1 year. The top of it is near ground level, it has a 24" manway into it, and is empty. The groundwater is about 20' down.

We intend to permanently close it in place by filling it with sand after cleaning it thoroughly.

Location 5 has two tanks side by side of approximately 2000 gallons each. They probably held gasoline, had short lengths of suction piping and vent lines, and are of steel, and were installed in 1939. They were permanently closed sometime prior to 1967, and are filled with sand. The depth to groundwater is about 20'.

Because it would be difficult to remove these tanks full of sand and they have been permanently closed for 20 years, we plan to leave them as they are except for capping the fill and vent pipes.

The groundwater at Arrowhead Springs is geothermal, of generally poor quality due to high sulfate and chloride levels. It flows to the southwest, and is used for geothermal heating, and a decorative lake. The soil around Tank No. 1 is of the Trigo family, group Lithic Xerorthents, depth 0-12", texture brown sandy loam, granular structure, rock fragments 5-80%, ph 6.5, effective rooting depth 10"-15", available water capacity over 1".

The soil around tanks 2-5 is Ramona family, group Typic Xerorthents, depth 8"-60", brown sandy loam, granular blocky structure, greater than 20% rock fragments, ph 6.1-6.6, effective rooting depth 40", available water capacity greater than 1".

John Emmans, Director of Technical Services, is responsible for detection of leaks and operation of the automatic alarm system. Since the new tank will be double walled, a leak will not contaminate soil or groundwater if promptly taken care of. On alarm, we will: 1. Check to see if a leak condition exists or if it is an alarm malfunction, 2. Call Environmental Health Services, 3. Call the installer, Ron Barto.

We will have the new tank system in operation December 31, 1986.

May 29, 1986

Underground Storage Tanks at Arrowhead Springs

Campus Crusade for Christ International
Arrowhead Springs
Department 51-00
San Bernardino, California 92414

At Arrowhead Springs, there are six underground storage tanks at various locations, only one of which is in use. All of the tanks were here when we acquired the property in 1962, and it is likely that all but one were abandoned sometime before then. Although we have no accurate records of their design or use, the following information should be fairly accurate.

Tank No. 1 is located at the old Arrowhead Springs U.S. Forest Service station. It was probably installed when the station was built in 1933, of steel construction, to hold 400-500 gallons of gasoline. There was no piping other than directly above the tank and the vent line. It is located on a knoll of decomposing granite, about 200' above the groundwater, and is empty except for 4" of water.

We propose to remove this tank.

Tank No. 2 is the garage gas tank, 2000 gallon capacity, believed to be of steel construction and installed in 1944. It was previously used for leaded gasoline and is now being used for unleaded. There have been no known leaks or repairs. The only piping is suction piping directly above the tank and the vent line. This tank is located 37' above the level of the nearest spring.

We propose to replace this tank with a new double walled tank, and install an annulus monitor.

Tank No. 3 is a 2000 gallon reinforced concrete tank built in 1939 for burner oil. The pipelines from the tank were disconnected many years ago, and the tank is half full of oil. The ground water in this area is sometimes within 10' of the surface, and usually runs into the hotel basement 7' away through a few holes in the basement walls. This groundwater flow provides an indication that the tank has not leaked, since we haven't seen or smelled any oil in the water, and there is no apparent water in the bottom of the tank, even though the groundwater level is usually above the tank product level.

We propose to permanently close this tank in place by cleaning it and filling it with sand, since removing it would require excavating adjacent to the hotel foundation footings, destroying trees and shrubs growing over it, would cause an

CAMPUS CRUSADE FOR CHRIST INTERNATIONAL

Arrowhead Springs, San Bernardino, California 92414, U.S.A. Telephone (714) 886-5224 William R. Bright, President

May 30, 1986

Mr. Richard L Roberts, R.S. MPH
Environmental Health Services
County of San Bernardino
385 North Arrowhead Avenue
San Bernardino, California 92415-0160

Dear Mr. Roberts,

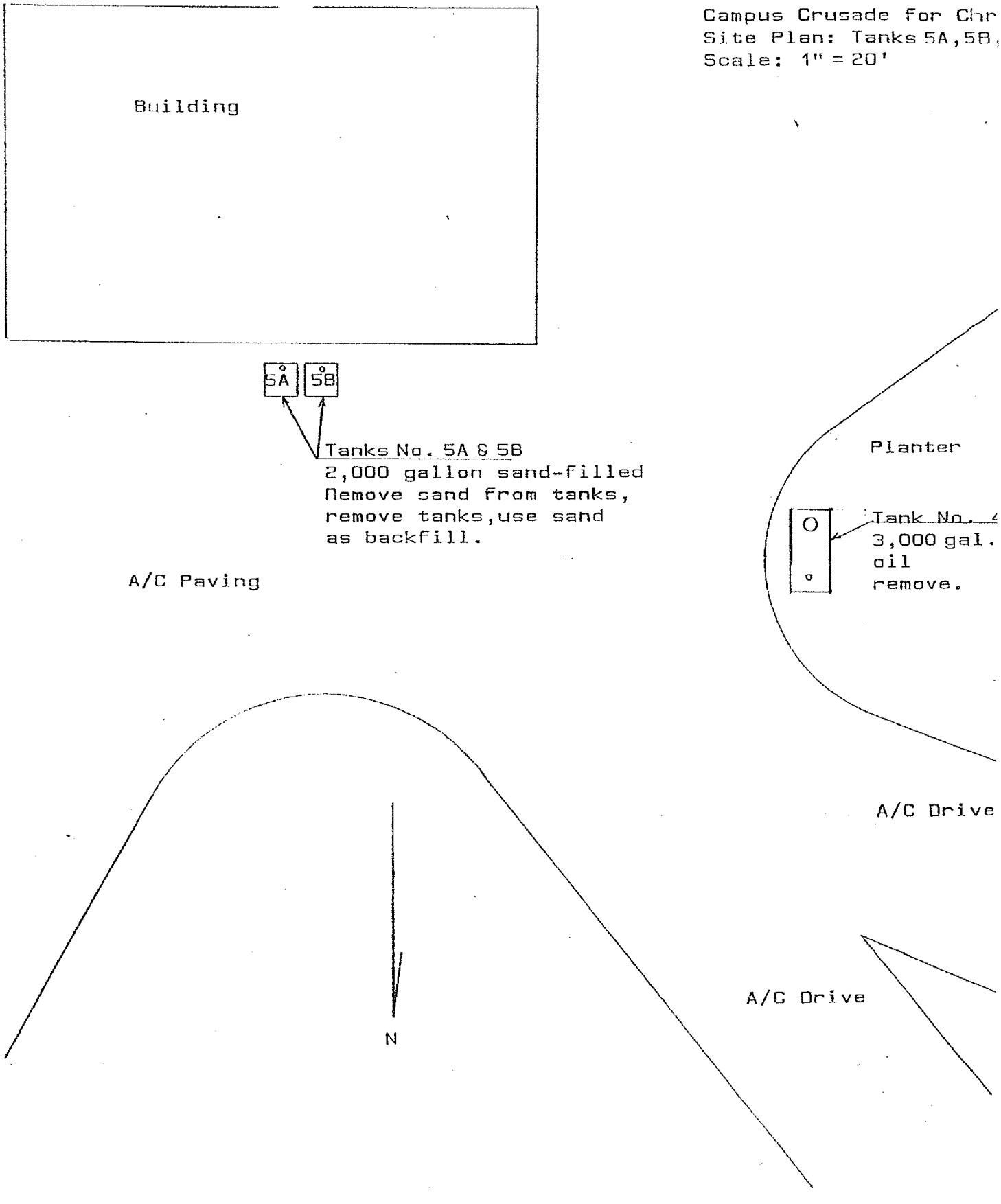
In response to your letter, please find enclosed a description of the underground storage tanks at Arrowhead Springs and a proposed plan of corrective actions to ensure that no groundwater contamination occurs from them. If you have any questions or would like to inspect our facilities, please give me a call at 886-5224, extension 3434. Thank you for your consideration of this proposal.

Sincerely,

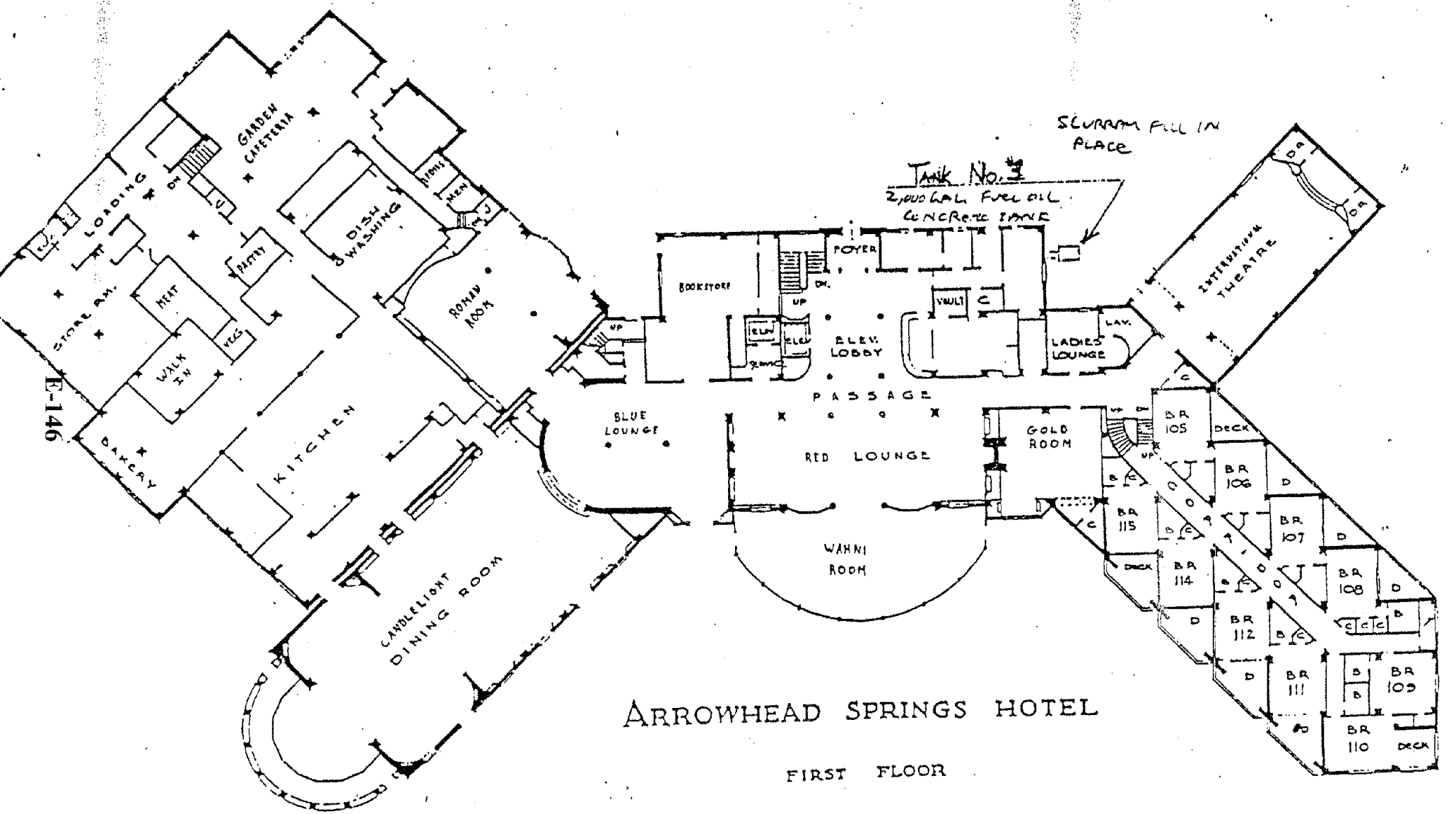
Gary Culbertson

Gary Culbertson

GC/sjb



ALM SERVICES
8778 Burkshire Pl.
Lakeside, CA 92040

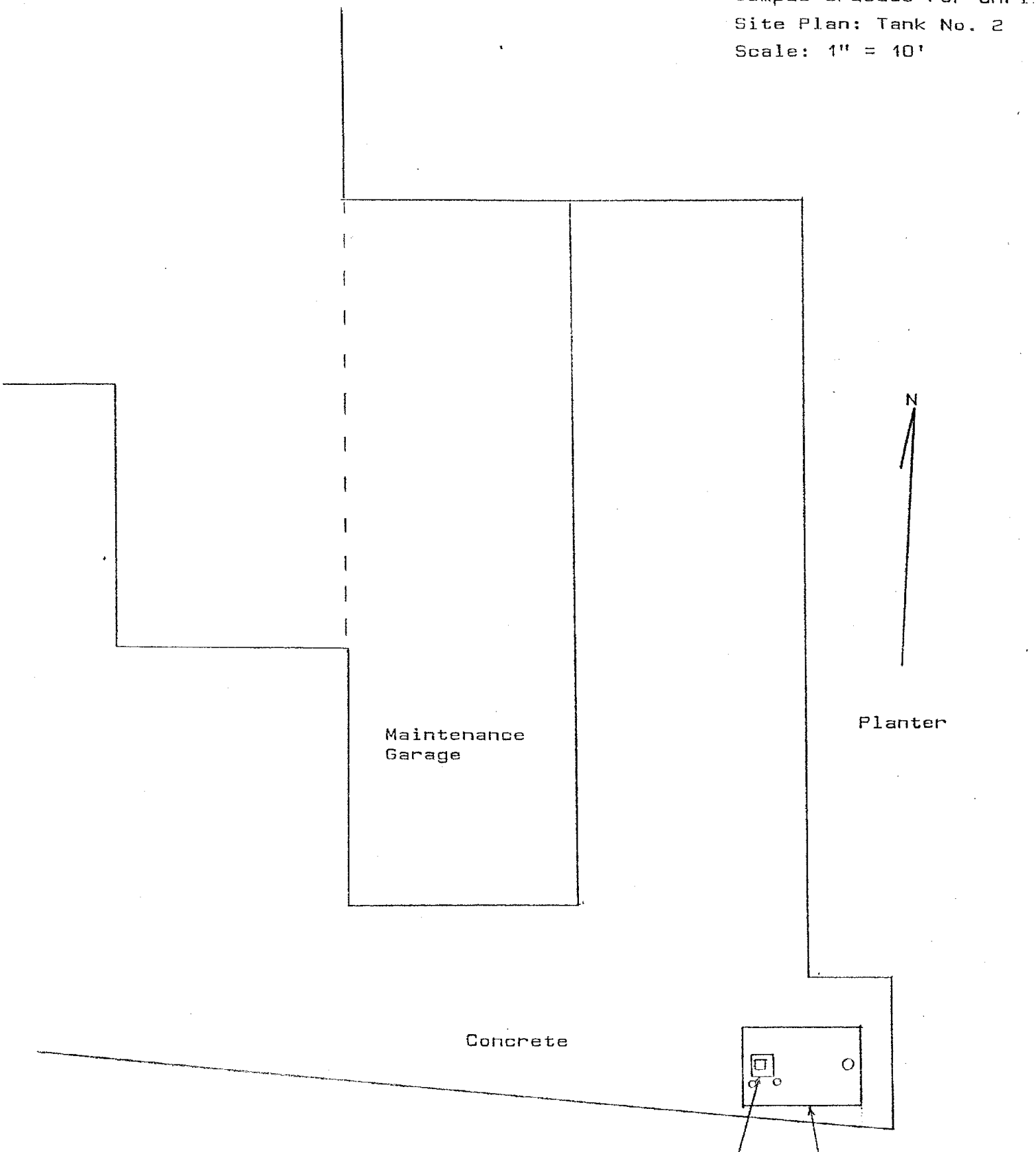


E-146

ARROWHEAD SPRINGS HOTEL

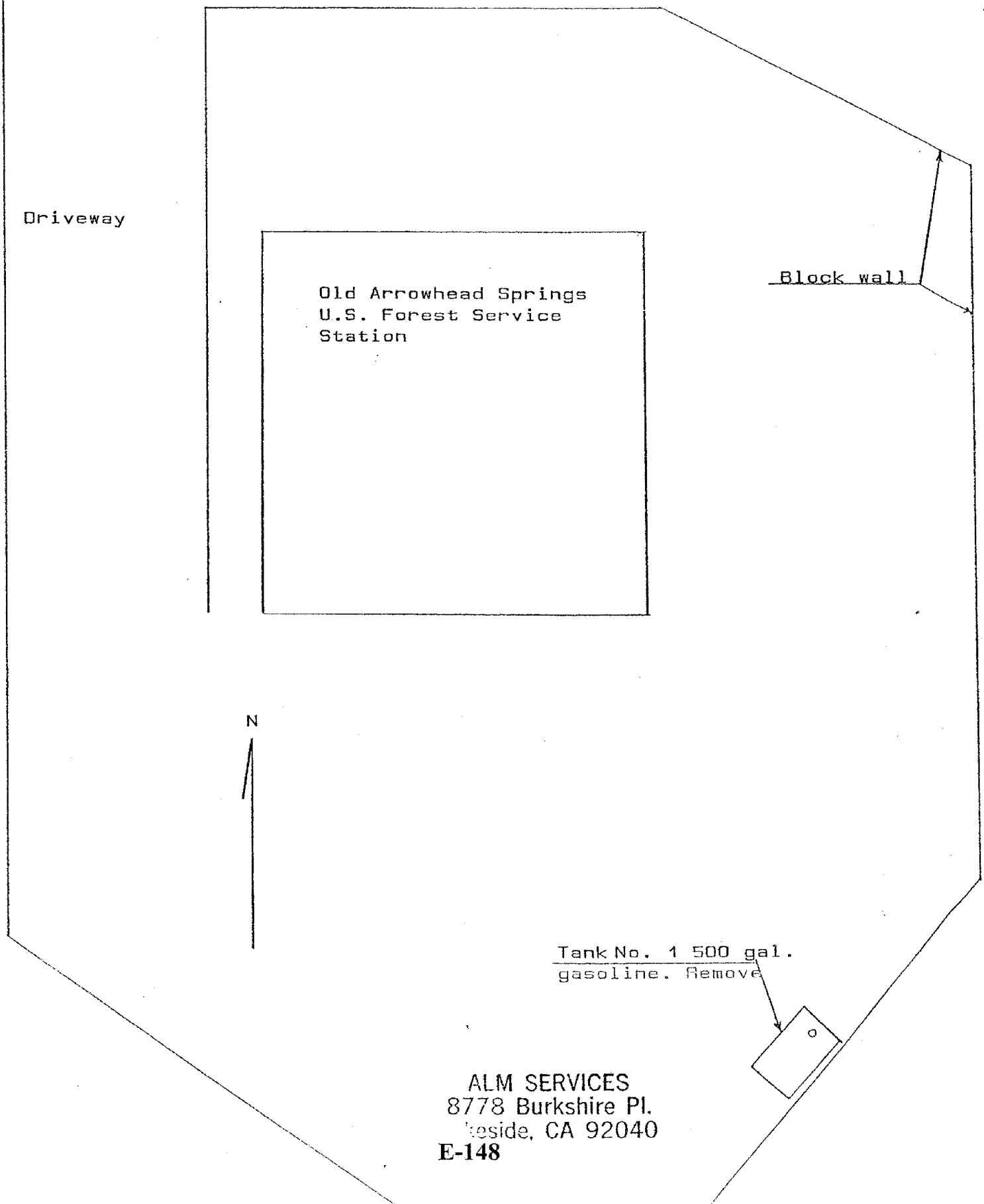
FIRST FLOOR

Campus Crusade for Chri
Site Plan: Tank No. 2
Scale: 1" = 10'



ALM SERVICES
8778 Burkshire Pl.
Lakeside, CA 92040

mpus Crusade for Christ
Site Plan: Tank No. 1
Scale: 1" = 10'



ALM SERVICES
8778 Burkshire Pl.
Riverside, CA 92040

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: ALM Services INC.

PROJECT NAME/NUMBER: CAMPUS CRUSADE FOR CHRIST

Q.A. LOG NUMBER: 2675 TO 2680-89

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
BHA#2	3-10-89	Bore Hole A 11'-0"	GLASS	SOIL	418.1 (TRPH)	BUNKER OIL
BHA#5	✓	Bore Hole A 18'-6"	✓	✓	✓ ✓	✓
BHB#7	✓	Bore Hole B 10'-0"	✓	✓	✓ ✓	
BHB#9	✓	Bore Hole B 17'-0"	✓	✓	✓ ✓	
BHC#10	✓	Bore Hole C 23'-0"	✓	✓	✓ ✓	
BHC#11	✓	Bore Hole C 25'-0"	✓	✓	✓ ✓	

E-149

SEND RESULTS TO ATTN: BOB ALM

PHONE #: 561-6048

MAIL TO: 8778 BEACHIRA PL
LAKESIDE CA 92040

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	3-13-89 / 1:40 PM	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ALM SERVICES, INC.
ATTN: BOB ALM
8778 BURKSHIRE PL.
LAKESIDE, CA 92040

DATE OF REPORT	MARCH 16, 1989
DATE RECEIVED	MARCH 13, 1989
DATE OF SAMPLE	MARCH 10, 1989
DATE COMPLETED	MARCH 14, 1989
ANALYZED BY	EM
SAMPLE TYPE	6 SOIL
PROJECT NAME	CAMPUS CRUSADE FOR CHRIST

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TRPH METHOD: EPA 418.1 UNITS: MG/KG
2675-89	BHA #2	BORE HOLE A 11'-0"	7.1
2676-89	BHA #5	BORE HOLE A 18'-6"	138
2677-89	BHB #7	BORE HOLE B 10'-0"	13.0
2678-89	BHB #9	BORE HOLE B 17'-0"	554
2679-89	BHC #10	BORE HOLE C 23'-0"	8.6
2680-89	BHC #11	BORE HOLE C 25'-0"	16.1

TRPH - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

PETER SHEN
LABORATORY DIRECTOR

March 30,1989

County of San Bernardino
Department of Health Services
Hazardous Materials Field Services

Attn: Greg Beach

The samples were placed in glass jars with teflon lids and then placed in cool storage until delivery to Quality Assurance Laboratory in San Diego. See chain of custody record.

Geo-sec was used for the boring and OVA screening. Contact Fritz Thornburgh (714) 885-7072 with questions on the boring process.

Quality Assurance Laboratory was used for lab analyses. Contact Peter Shen (619) 566-1060 on methods of testing.

Contact me with any other questions.

Please review the data and contact me with your direction.

Sincerely,

Robert Alm
President

RA:dp

enclosures

Alm Services, Inc.
Service Station
Contractor
LIC. NO. 541283

March 30, 1989

County of San Bernardino
Department of Health Services
Hazardous Materials Field Services
Attn: Greg Beach
385 North Arrowhead Avenue
San Bernardino, CA 92415-0160

Ref: Campus Crusade for Christ, Arrowhead Springs: Log # 020189-01.

Dear Mr. Beach:

Per your request we have taken samples by boring near the 2,000 gallon concrete tank. This tank was used to store bunker oil. It will be slurray filled per the approved fire and health permits.

Please refer to Boring layout drawing.

We started with Bore Hole A.We gathered samples at depths of 7', 11', 15'-6", 17', and 18'-6". We checked each sample with an OVA. All samples were 0 parts per million except the sample at 18'-6". It read 7 parts per million. At 18'-6" we hit concrete. The samples were moist at 18'. The samples at 11' and 18'-6" were run at the laboratory. The other samples are in archive storage including a sample of the concrete at bottom.

We then moved to Bore Hole B.Samples were taken and screened with the OVA at 5', 10' 15', and 17'. We hit concrete at 17' The OVA read 0 parts per million on all the samples. The sample was moist at 17'. The samples at 10' and 17' were run at the laboratory.

We concluded that the footing of the five story hotel must extend out to our borings.

We then moved to Bore Hole C in order to gain samples below the tank. We screened samples every five feet with a 0 reading on the OVA. We gathered samples at 23' and 25' with 0 parts per million reading. These were run to the lab for analyses. The samples were dry the entire depth.

(continued next page)

Boring Log

Campus Crusade for Christ
Arrowhead Springs, Ca.

Boring A

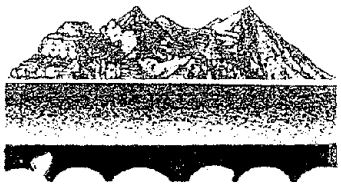
Depth	Time	Description	USCS	OVA
7'	9:42 A.M.	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
12.5'	9:51 "	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
14'	9:53 "	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
15.5'	9:58 "	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
17'	10:01 "	brn. gy. c-vc gr. sandy gravel	GW	0 ppm
18.5'	10:04 "	brn. gy. clayey sand, product odor	SC	7.1 ppm

Boring B

Depth	Time	Description	USCS	OVA
5'	10:34 A.M.	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
10'	10:37 "	p. yel. brn. c-vc gr. sandy gravel	GW	0 ppm
15'	10:40 "	m. red brn. c-vc gr. sandy gravel	GW	0 ppm
17'	10:46 "	brn. gy. c-vc gr. sand, product odor	SW	0 ppm

Boring C

Depth	Time	Description	USCS	OVA
17'	11:30 A.M.	gry. grn. c-vc gr. sandy gravel	GW	0 ppm
23"	11:37 "	lt. gy. c-vc gr. sandy gravel	GW	0 ppm
25'	11:42 "	lt. gy rock flour	ML	0 ppm



A Geological Systems
Evaluation Company

May 22,1989

Alm Services, Inc.
P.O. Box 2354
Lakeside, Ca. 92040
Attn: Mr. Robert Alms

Re: Campus Crusade for Christ
Arrowhead Springs, Ca.

On March 10, 1989, Geo-Sec, Inc. drilled and sampled three (3) soil quality assessment borings at the above referenced location. Boring A was drilled to a total depth of 18.5', boring B to a total depth of 17' and boring C to a total depth of 25'.

The borings were drilled using a Mobile B-53 Hollow Stem Auger Drill Assembly. Soil samples were collected during the drilling at depths of 7', 12.5', 14',15.5', 17' and 18.5' in boring A; at 5', 10', 15' and 17' in boring B and at 17', 23' and 25' in boring C. The samples were collected using a split tube sampler operated through the drill assembly using a 140 lb. drop hammer. Each sample was placed into a clean glass container, filled completely to eliminate all existing headspace, then sealed and placed into the custody of an Alms Services, Inc. representative. The sampler was cleaned with a TSP solution and rinsed with clean water between each sample drive.

A TLV "Sniffer" calibrated with hexane was used to monitor the samples for the presence of organic vapors. All samples had organic vapor analyzer (OVA) readings below 10 ppm. The OVA readings are included along with lithologic sample descriptions and USCS designations in the attached boring log.

Should you have any questions regarding the above information, please contact any of the persons listed below at 714-885-7072.

Thank you,

Terri Paxton
Project Geologist

Jerry D. Horne
California Registered Geologist
No. 547

Donald R. Chance
Senior Project Director
California Registered
Environmental Assessor No. 00203

237 South Waterman Avenue • San Bernardino California 92408 • Telephone 714 • 885 • 7072

ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNAR
ENVIRONMENTAL
PUBLIC WORKS AGENC

385 North Arrowhead Avenue • San Bernardino, CA 92415-0160 • (714) 387-4646
320 East "D" Street • Ontario, CA 91764 • (714) 391-7570
15505 Civic Drive • Victorville, CA 92392 • (619) 243-8141

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Big Bear Lake	Rancho Cucamonga
Chino	Redlands
Colton	Rialto
Fontana	San Bernardino
Grand Terrace	Twentynine Palms
Highland	Upland
Loma Linda	Victorville
Montclair	

May 10, 1989

Campus Crusade for Christ, Inc.
Arrowhead Springs.Dept 51-00
San Bernardino, Ca 92414

Att: **Mr. Rodney Garton, Technical Services Dept.**

SUBJECT: **SITE ASSESSMENT FOR IN-PLACE CLOSURE OF UNDERGROUND BUNKERS OIL TANK LOCATED AT THE ARROWHEAD SPRINGS HOTEL SAN BERNARDINO, CA**

The Department has reviewed the information submitted by Alm Services, Inc on the soil boring and sample analysis required to close the tank in-place. The analysis indicate that residual hydrocarbon contamination in the soil around the tank is not at a level to warrant further investigation at this time. However, the California Code of Regulation requires that this type of investigation be conducted under the supervision of qualified individuals. While it was indicated in the letter from Alm Services, Inc. that Geo-Sec performed the boring and collected the samples, the Business and Professions Code requires that worked performed by the certified individual bear their signature.

Therefore, the Department cannot grant permission to proceed with the in-place closure until it receives verification that the assessment was conducted under the supervision of an appropriately qualified individual. Please submit the required verification within 30 days.

If you have any questions, please call me at (714) 387-3044

Ronald A Ripley

Ronald A. Ripley, REHS
Environmental Specialist IV
Emergency Response/Enforcement

cc: Robert Alm, President, Alm Services, Inc

TABLE 2 Recommendations		
Site and Description	**Comments**	**Recommended Mitigation**
	Isolated artifact	
CA-SBR-6869H oven/chimney & trash	Evaluated by Greenwood and Associates 1997	None required
CA-SBR-6870H concrete road bridge	Recorded by Greenwood and Associates Same as recorded	None required
CA-SBR-7019H holding tanks, gutter	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; and results incorporated in a report
CA-SBR-7020H retaining wall, steps, no foundation	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; backhoe trench excavation to determine if subsurface features are present; and results incorporated in a report
CA-SBR-7021H Possible remains of 1885 Del Rosa Water Company trench	Recorded by Shinn Impacted by construction activities	None required
CA-SBR-7022H retaining walls.	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; backhoe trench excavation to determine if subsurface features are present; and results incorporated in a report \
CA-SBR-7049H Rim of the World Highway	Recorded by McCarthy and Goodman; they state on site form that it is a Significant Road in Southern California history No apparent change.	Avoidance if possible or: Photographic and additional historic documentation
CA-SBR-7702H Eight structural features	Evaluated by Greenwood and Associates 1997. Further damage by flooding, construction	None required
CA-SBR-8248H Retaining walls, trash, historic features	Evaluated by Greenwood 1997 Heavily damaged by Inland feeder project	None required
CA-SBR-10795H 1940's to 1060's trash	Only a portion evaluated	None required

File

ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNARDINO
ENVIRONMENTAL
PUBLIC WORKS AGENCY

RICHARD L. ROBERTS, R.S., M.P.I
Director

☐ 385 North Arrowhead Avenue • San Bernardino, CA 92415-0160 • (714) 387-4608
☐ 320 East "D" Street • Ontario, CA 91764 • (714) 988-1137
☐ 15505 Civic Drive • Victorville, CA 92392 • (619) 243-8141
☐

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Colton	Rialto
Fontana	San Bernardino
Grand Terrace	Upland
Loma Linda	Victorville
Montclair	

July 25, 1989

Campus Crusade for Christ, Inc
Arrowhead Springs, Dept. 51-00
San Bernardino, CA 92414

Attn: **Mr. Rodney Garton, Technical Services Dept**

SUBJECT: IN-PLACE CLOSURE OF UNDERGROUND BUNKER OIL TANK LOCATED AT THE ARROWHEAD SPRINGS HOTEL, SAN BERNARDINO, CA.

The Department has received the information requested in our correspondence dated May 10, 1989 and approves the closure in-place provided the following conditions are met.

1. All residual liquids,solids, or sludges must be removed.

2. All piping associated with the underground storage tank must be removed and disposed of appropriately unless removal might damage structures or other pipes that are being used, in which case the piping to be closed must be emptied of all contents and capped.

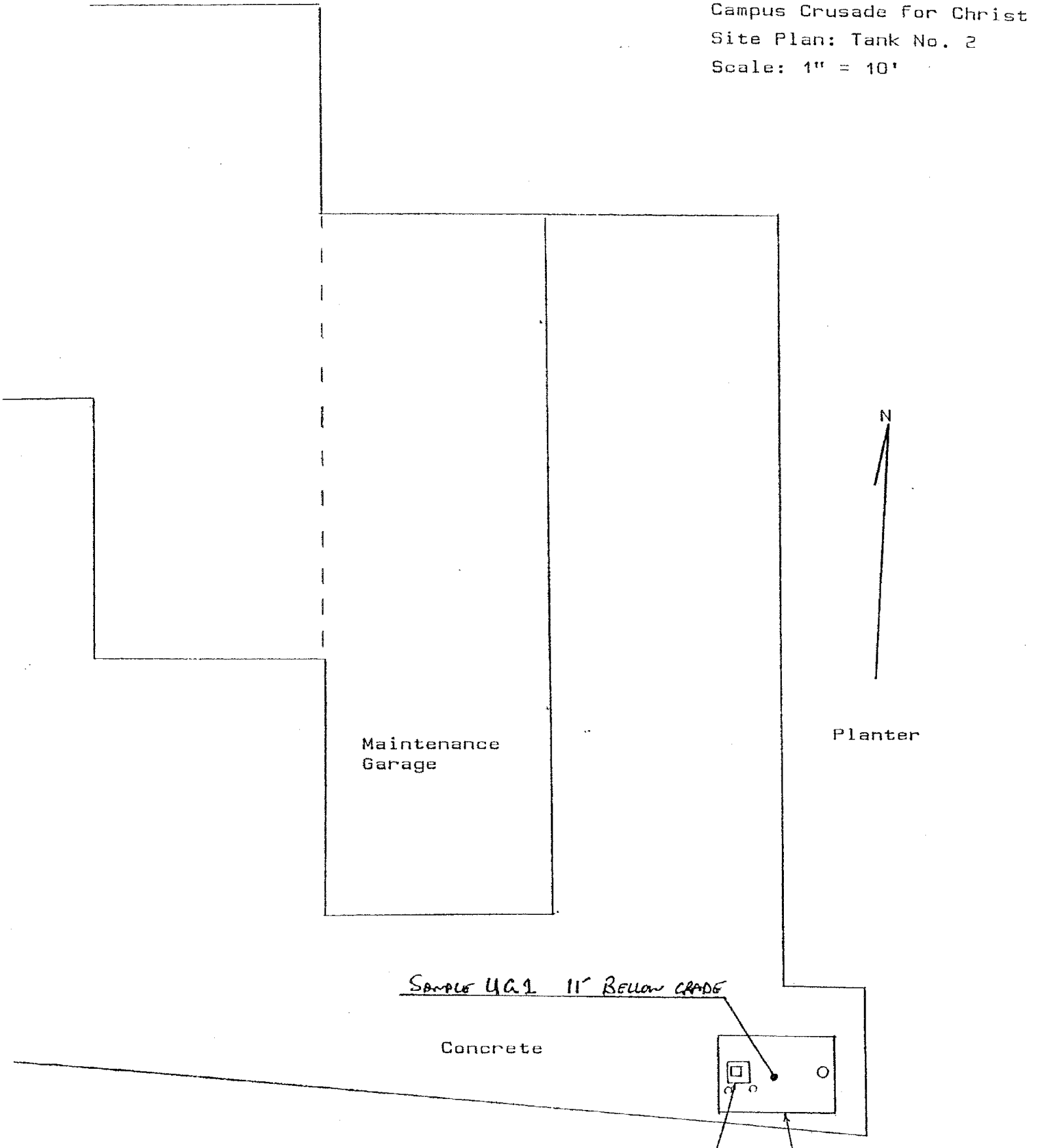
3. The underground storage tank, except for the piping closed pursuant to condition 2, must be completely filled with an inert solid.

4. A notice shall be placed in the deed to the property. The notice shall describe the exact vertical and areal location of the closed underground storage tank, the hazardous substances it contained, and the closure method.

5. In-place closure also requires approval from the local fire jurisdiction.

6. This office must be notified 48 hour in advance of removing any piping and filling the tanks so a Department representative can be scheduled to inspect the closure.

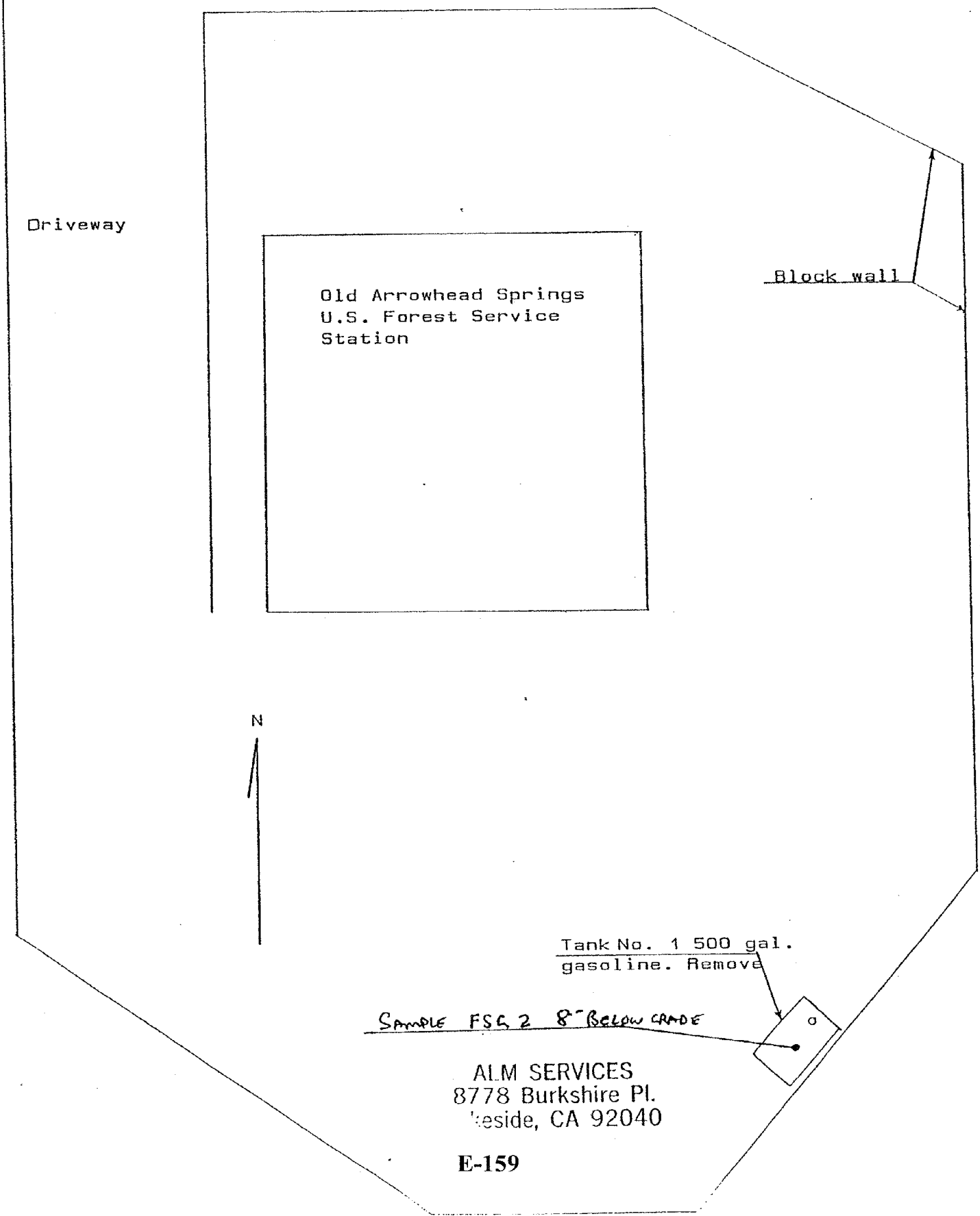
Campus Crusade for Christ
Site Plan: Tank No. 2
Scale: 1" = 10'



ALM SERVICES
8778 Burkshire Pl.
Lakeside, CA 92040

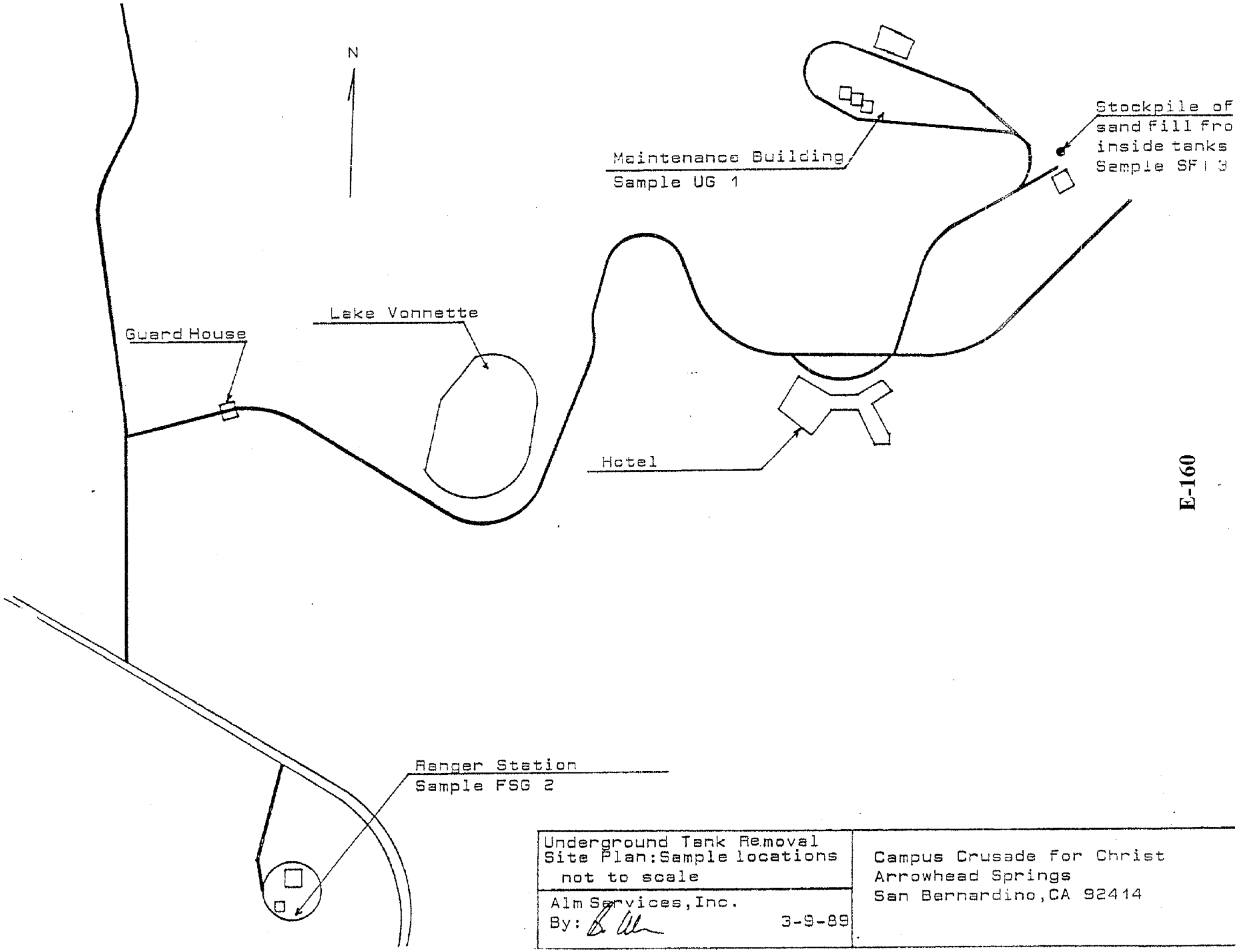
2

Campus Crusade For Christ
Site Plan: Tank No. 1
Scale: 1" = 10'



ALM SERVICES
8778 Burkshire Pl.
Riverside, CA 92040

E-159



E-160

Underground Tank Removal Site Plan: Sample locations not to scale	Campus Crusade for Christ Arrowhead Springs San Bernardino, CA 92414
Alm Services, Inc. By: 3-9-89	

QUALITY ASSURANCE LABORATORY

ALM SERVICES
ATT: BOB ALM
8778 BURKSHIRE PL.
LAKESIDE, CA 92040

DATE OF REPORT	FEBRUARY 27, 1989
DATE RECEIVED	FEBRUARY 16, 1989
DATE OF SAMPLE	FEBRUARY 15, 1989
DATE COMPLETED	FEBRUARY 25, 1989
ANALYZED BY	MS CC MH
SAMPLE TYPE	3 SOIL
PROJECT NAME	CAMPUS CRUSADE FOR CHRIST

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS * UNITS: MG/KG	BENZENE EPA 8020 MG/KG	TOLUENE EPA 8020 MG/KG	XYLENE EPA 8020 MG/KG	ETHYLBENZENE EPA 8020 MG/KG	LEAD 6010 MG/KG
1488-89	UG 1	MAINT. BLDG	<0.5	<0.5	<0.5	<0.5	<0.5	4.15
1489-89	FSG 2	RANGER STATION	0.7	<0.5	<0.5	<0.5	<0.5	4.71
1490-89	SFT 3	SAND FILL IN TANKS	2,360					

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

Alm Services, Inc.
Service Station
Contractor
LIC. NO. 541283

March 9, 1989

County of San Bernardino
Department of Environmental Health Services
Hazardous Materials Field Services
Attn: Greg Beach
385 North Arrowhead Avenue
San Bernardino, CA 92415-0160

Subject: Campus Crusade for Christ, Arrowhead Springs;
Log # 020189-01.

Dear Mr. Beach:

As you know from your inspection, we removed 5 underground tanks on February 15, 1989.

Per your request we gathered 2 soil samples for analysis. The soil was placed in glass jars with teflon lids. The jars were transported in a cooler to San Diego. They were in cool storage over night. The next day they were taken to Quality Assurance Laboratory. Refer to chain of custody.

At our discretion we sampled the sand fill from inside the two 2,000 gallon tanks. This sample is SFT 3. The tanks were not completely filled with sand. The volume of sand is approximately 1½ cubic yds.

Please review the analyses results and site plans.

We would like to install a new gasoline tank where sample UG 1 was taken as soon as possible.

Please contact me as well as Campus Crusade for Christ with your direction.

Sincerely,

Robert Alm
President

RA:dp

enclosures

County of San Bernardino — Environmental Public Works Agency
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS WASTE SECTION

SUPPLEMENTAL GENERATOR INSPECTION REPORT

TIME: 0845

INSPECTOR: GB

FACILITY NAME: ARROWHEAD SPRINGS

FACILITY LOCATION:

(2 tanks)

Tanks #4 - partially filled ~ sand (~⅓ full)
Site

no samples

rinse manifest - 88180276

site #5 (1) Concrete ~3000 Gal Oil Storage
had to be broken up to remove

small oil stains → no sign of gross contamination

— 1 sample 2000K gas (had PB in it originally)

11 ft down

8015 8020 7420

1 sample 7½ ft down 8015, 8020, 7420

County of S... Bernardino
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 North Arrowhead Avenue, San Bernardino, CA 92415-0160 • (714) 387-3080.

Log #020189-01 **JOB CARD No. 1777**

CONSTRUCTION AND/OR ABANDONMENT OF UNDERGROUND STORAGE FACILITY
POST THIS CARD AT JOB SITE

Site Address: Arrowhead Springs, San Bernardino
~~Campus Crusade for Christ, Inc~~

Contractor: Alm Services, Inc

Address/Phone No.: P O Box 2354, Lakeside 619 / 561-6048

	Inspection Record	Approved By	Date
Inspection	Excavation Clean, Approved Slope	M Kraft	3/21/89
	Liner in Place, Tight Seams	N/A	
	Bedding Materials/Depth Sand 12"	M Kraft	3/21/89
	Holiday Test, Tanks Set N/A - Tanks	M Kraft	3/21/89
	Additional Requirements:		
	Do Not Backfill Until Above Approved		
Inspection	Tank Air Test 5 PSI/30 Minutes X2	G Beard	24 Mar 89
	Product Lines 75 PSI/30 Minutes	/	/
	Product Line Containment		
	Metal Piping Wrapped		
	Additional Requirements: NA		
Final	Approved Fill Boxes		
	Concrete or AC Paving 12" Beyond Excavation	M Kraft	4/4/89
	Leak Detectors Tested, Monitors Installed	M Kraft	4/4/89
	Lockable Fluid-Tight Access for Monitoring Points	M Kraft	4/4/89
	Operating Permit Applied for		
	Additional Requirments:		
	Do Not Place In-Service Until Approved		
Tank Abandonment	Tank Removed X 5	G Beard	15 Feb 89
	Soil Samples Taken By: Alms	/	/
	Test Boring By:	N/A	—
	Additional Test Requirements:		
	Final — Approved for Backfill OK'd - upon test results		

Additional Requirements by Local Fire Authority:

Final Approved by Local Fire Authority:

Name: Title: Date:

FAILURE TO PROTECT AND MAINTAIN THIS CARD MAY RESULT IN JOB DELAY.
PRESERVE THIS RECORD OF INSPECTIONS.

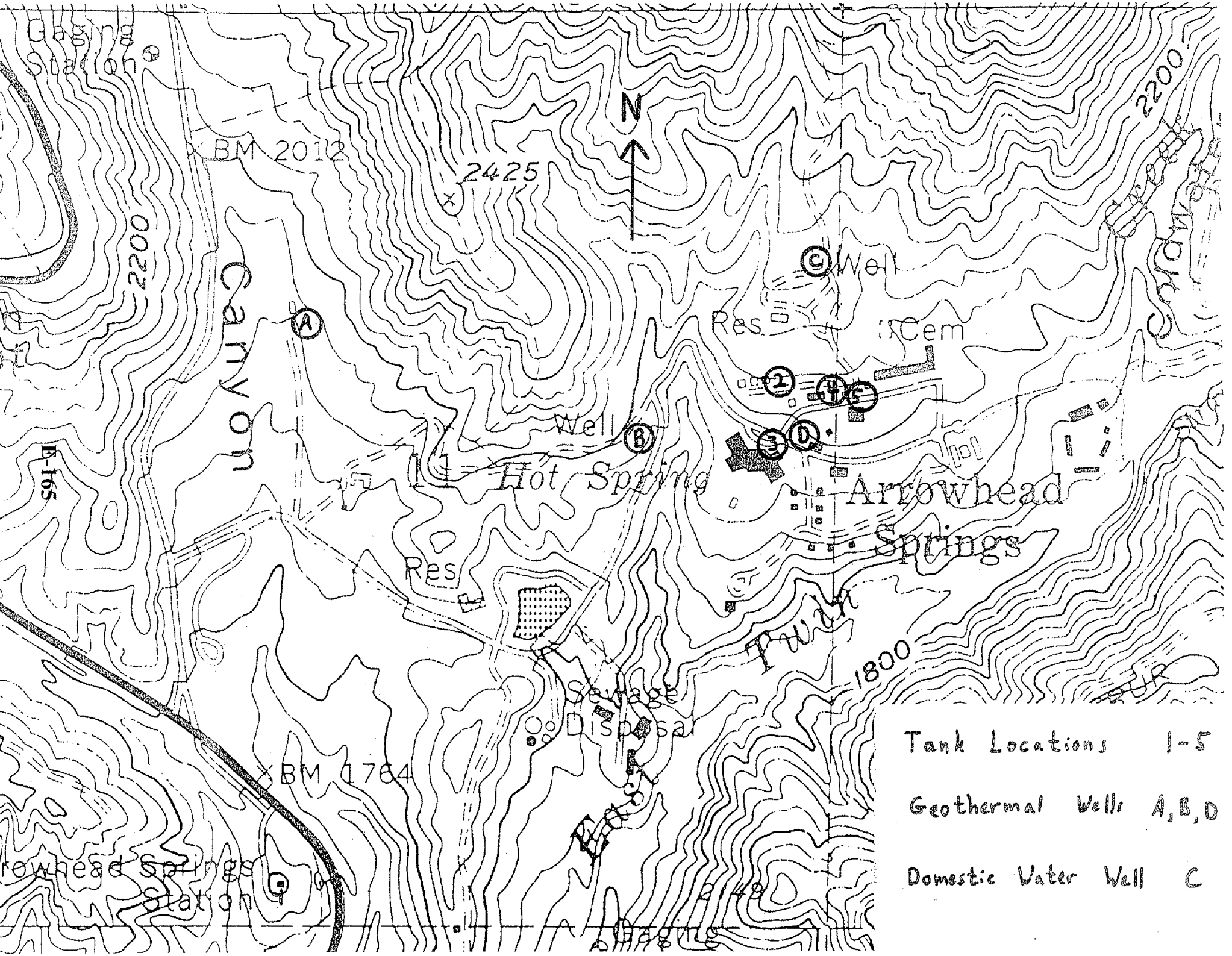
FOR INSPECTION CALL 48 HOURS IN ADVANCE AT (714) 387-3080

THIS PERMIT EXPIRES 6 MONTHS FROM DATE OF ISSUANCE

DISTRIBUTION: White — DEHS Copy
Yellow — APCD Copy
Green — Owner's Copy

4 No fill E-164 present on 4/4/89.

14-16867-631 Rev. 12/87


Gaging Station
BM 2012
2425
N
2200
Canyon
A
Well
B
Hot Spring
Res
Cem
C
Well
2
4
5
3
D
Arrowhead Springs
Res
Twin
1800
Sewage Disposal
BM 1764
rowhead Springs Station
Gaging
2200
Tank Locations 1-5
Geothermal Wells A, B, D
Domestic Water Well C

County of San Bernardino
FORESTRY AND FIRE WARDEN DEPARTMENT

PERMIT

Permit No. SB-73-88 Date 12-21-88

This Permit is granted to Bob Alm, Alm Services, 8778 Burkshire Place, Lakeside 92040 (719)561-6048

Location Campus Crusade, Arrowhead Springs off Old Waterman Canyon Road.

Purpose Remove five underground storage tanks, flammable liquid: one 3,000-gal., one 1,000-gal., three 2,000-gal. One 2,000 gal. tank to remain in ground, concrete tank and requires 10% cement/sand slurry mix.

Special conditions Abide by 1985 Uniform Fire Code Standards, Article 79, 15 lbs. of dry ice per 1,000 gallons to inert tanks to be removed. Call 48 hours prior to set up inspection.

This permit is subject to all applicable provisions of the San Bernardino County Fire Code and/or State requirements.

Permit valid until January 31, 1989

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

San Bernardino County Fire Warden

By Bruce B. Brown

BRUCE B. BROWN

Title Fire Captain Specialist

Date December 21, 1988

[illegible] ON THE ABOVE PREMISES

SBP-29

C of Contractor's license
to be taped.
2/1/89
Pat

Sewage Treatment Facility

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STATE WATER RESOURCES CONTROL BOARD

INVOICE

Annual Fee for Waste Discharge Requirements
Required by SECTION 13260 of the California Water Code

Facility ID (WDID): 8 361003001
Facility Name: STP, ARROWHEAD SPRINGS
SAN BERNARDINO, CA

Invoice No: 0209564
Billing Period: 07/01/02-06/30/03
Invoice Date: 10/31/02

☞ **Total Amount Due by 11/30/02 ..... $2,700**

CAMPUS CRUSADE FOR CHRIST
ATTN: ROD GARTON
24600 ARROWHEAD SPRINGS ROAD
SAN BERNARDINO, CA 92414

Invoice details are shown on the back

STATE WATER RESOURCES CONTROL BOARD
Annual Fee for Waste Discharge Requirements
Required by SECTION 13260 of the California Water Code

Facility ID: 8 361003001 Billing Period: 07/01/02-06/30/03

Invoice No 0209564 Amount Due: $2,700 Due By: Saturday, November 30 2002

PLEASE REMIT YOUR PAYMENT ON OR BEFORE THE DUE DATE SHOWN ABOVE. LATE PAYMENT COULD RESULT IN PENALTIES UNDER PROVISIONS OF THE WATER CODE SECTION 13261. THESE ACTIONS COULD INCLUDE DAILY PENALTIES IN ADDITION TO YOUR FEE, OR OTHER ACTIONS DEEMED APPROPRIATE BY THE REGIONAL BOARD.

☞ Make your check payable to SWRCB FEES

If you have any questions about this invoice, please call your Regional Water Quality Control Board at (909) 782-4902

Retain this portion for your records
Please detach and return this portion with your payment

☐ CHECK HERE FOR ADDRESS CORRECTION ON THE BACK

CAMPUS CRUSADE FOR CHRIST
ATTN: ROD GARTON
24600 ARROWHEAD SPRINGS ROAD
SAN BERNARDINO, CA 92414
(909) 886-5000

Invoice No: 0209564
☞ PLEASE PRINT THIS NUMBER ON CHECK OR MONEY ORDER

SWRCB ACCOUNTING OFFICE
ATTN: AFRS
P. O. Box 100
SACRAMENTO, CA 95812-0100

AMOUNT DUE: $2,700
BILLING PERIOD: 07/01/02-06/30/03
DUE BY: 11/30/02
FACILITY ID (WDID): 8 361003001
FACILITY NAME: STP, ARROWHEAD SPRINGS
SAN BERNARDINO, CA

California Regional Water Quality Control Board
Santa Ana Region

Order No. 86-100
Waste Discharge Requirements
for
Campus Crusade for Christ, International
San Bernardino County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Board), finds that:

1. Campus Crusade for Christ, International (hereinafter discharger) discharges domestic wastes from its wastewater treatment plant under Order No. 76-16, adopted by the Board on February 27, 1976.

2. The discharger operates a 300,000 gallon (1140 cubic meters) per day treatment facility. Present wastewater flow averages approximately 53,000 gallons (200 cubic meters) per day. The effluent is discharged to either evaporation-percolation ponds for storage and disposal or to greenbelt irrigation. These disposal sites are located in the SE ¼ of Section 11, Township 1N, Range 4W, SBB&M.

3. A Water Quality Control Plan was adopted by the Board on May 13, 1986. The Plan contains water quality objectives and beneficial uses of waters in the Santa Ana Region.

4. Order No. 76-16 must be updated to reflect changes resulting from the revised Water Quality Control Plan and other State and Regional Board policies developed since 1976.

5. The waste discharge overlies the Bunker Hill Pressure Groundwater Subbasin, the beneficial uses of which include:

   a. Domestic and municipal supply;
   b. Agricultural supply;
   c. Industrial process supply; and
   d. Industrial service supply.

6. This project involves the continued discharge of waste from an existing facility and, as such, is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301, Chapter 3, Title 14, California Administrative Code.

7. The State Department of Health has established statewide reclamation criteria for the use of reclaimed wastewater.

8. The Board has consulted with the State Department of Health Services and has received its recommendations.

9. The Board has notified the discharger and interested agencies of its intent to prescribe waste discharge requirements.

10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharge shall comply with the following:

A. Discharge Specifications:

1. a. The discharge of wastes to evaporation-percolation ponds or to irrigation areas shall not contain constituent concentrations which exceed the following limits:

Constituent	Average Concentration Limit	
Filtrable Residue	350	mg/l
Total Hardness	120	"
Sodium	70	"
Chloride	50	"
Sulfate	60	"
Fluoride	1.0	"
Boron	0.5	"

b. The discharge of wastes containing an average filtrable residue concentration which exceeds the average filtrable residue concentration in the water supply by more than 250 mg/l is prohibited.

2. Wastewater used for landscape irrigation shall be at all times an adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected if at some location in the treatment process, the median number of coliform organisms does not exceed 23 per 100 milliliters, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed.

3. All wastes shall be contained on property owned or controlled by the discharger.

4. There shall be no discharge to any pond that has less than 18 inches (0.5 meters) of freeboard.

5. There shall be no irrigation or disposal of reclaimed wastewater within 500 feet of any irrigation well unless it can be demonstrated that special circumstances justify lesser distances to be acceptable.

6. Discharge of wastes to West Twin Creek (Waterman Canyon or East Twin Creek (Coldwater Canyon) is prohibited.

B. Provisions

1. The discharger shall comply with Monitoring and Reporting Program No. 86-100.

2. Neither the treatment nor discharge of wastes shall cause a nuisance or pollution, as defined in the California Water Code.

3. Operation of the irrigation system shall not occur during rainy weather, when the soil is saturated, or when it is covered with snow.

4. Compliance with Discharge Specifications A.1.a. and A.1.b. shall be based on the last three (3) consecutive samples weighted according to flow.

5. The discharger shall submit an Engineering Report to the Board pursuant to Title 22, Division 4, Section 60323 of the California Administrative Code within ninety (90) days from adoption of this Order.

6. Signs shall be posted around the area to be irrigated stating that reclaimed wastewater is being used and that it is unsafe for drinking or contact.

7. This order rescinds Order No. 76-16, the previous waste discharge requirements for this facility.

I, James R. Bennett, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on June 13, 1986.

JAMES R. BENNETT
Executive Officer

California Regional Water Quality Control Board
Santa Ana Region

Monitoring and Reporting Program No. 86-100
for
Campus Crusade for Christ, International
San Bernardino County

Effluent Monitoring

1. Unless otherwise noted, all sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

2. All analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health.

3. All samples shall be representative of the waste discharge under the conditions of peak load.

4. A sampling station shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. The following shall constitute the effluent monitoring program:

Constituent	Units	Type of Sample	Minimum Frequency of Analysis
Total Hardness	mg/l	Composite	Bi-monthly
Sodium	"	"	"
Chloride	"	"	"
Sulfate	"	"	"
Boron	"	"	"
Fluoride	"	"	"
Filtrable Residue	"	"	"

5. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The compositing period shall equal the specific sampling period, or 24 hours, if no period is specified.

6. Bi-monthly samples shall be collected on the 10th working day of January, March, May, July, September, and November.

7. The total daily flow of effluent from the treatment plant shall be determined for each bi-monthly period and shall show the respective quantities of wastes discharged to irrigation and to the evaporation-percolation ponds.

8. During periods of greenbelt irrigation, a grab sample shall be collected on a weekly basis and analyzed for coliform organisms. The chlorine residual, chlorine dose, and instantaneous flow shall be recorded at the time of sampling.

9. Once per week, the freeboard in each pond shall be measured and entered in a log.

Water Supply Monitoring

1. At least once a year, in July, the following constituents of the water supplied to the sewered area shall be determined for each source:

Electrical Conductivity	Sodium	Chloride
Filtrable Residue	Potassium	Nitrate
Calcium	Bicarbonate	Fluoride
Magnesium	Carbonate	Boron
Total Hardness	Sulfate	pH

2. All of the above constituents shall be expressed in "mg/l" except electrical conductivity and pH, which shall be expressed in "micromhos/cm" and "pH units", respectively.

3. Bi-monthly reports shall be submitted stating the amount (in percentage or acre-feet) supplied to the sewered area from each source of water and the resulting flow weighted water supply quality for Filtrable Residue, Chloride, Sulfate, Sodium, and Total Hardness.

Reporting

1. Monitoring reports shall be submitted by the dates specified in the following schedule:

Constituents	Monitoring Period	Report Due
Effluent mineral constituents and freeboard log	Bi-monthly	Second Monday of month following sampling period
Coliform organisms, Chlorine residual	Weekly	Within 10 days following end of sampling period
Water supply	Bi-monthly	Second Monday of each month following sampling period

2. For every item where the requirements are not met, the discharge shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

3. The above report shall be signed by a responsible officer of the Campus Crusade for Christ, International, and shall be submitted under penalty of perjury.

JAMES R. BENNETT
Executive Officer

June 13, 1986

SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD

INSPECTION REPORT

OFFICE NO: 8
INSPECTOR: WMN

PCA SYSTEM TASK NO.: 121

8 361003001 WDS No.	Campus Crusade For Christ NAME OF AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE	STP TYPE OF FACILITY
 NPDES No.	24600 Arrowhead Springs Road AGENCY STREET ADDRESS	San Bernardino, CA AGENCY CITY & ZIP
00 00 00 B1 YY DD MM TYPE	Same FACILITY STREET ADDRESS	Same FACILITY CITY & ZIP
08/12/03 Actual Inspection Date (MMDDYY)	Dennis Sather AGENCY CONTACT	Rod Garton FACILITY CONTACT
	(909) 379-1442 AGENCY PHONE NO.	Same FACILITY PHONE NO.

S Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

N If this inspection is a compliance inspection on an NPDES facility, send a copy of this report to SWRCB's Division of Water Quality, Program Support Unit

INSPECTION TYPE (Check One)

A1 ___ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)

B1 X "B" type compliance--A routine nonsampling inspection. (EPA Type C)

02 ___ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.

03 ___ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.

04 ___ Complaint--Inspection made in response to a complaint.

05 ___ Pre-requirement--Inspection made to gather info. relative to preparing, modifying, or rescinding requirements.

06 ___ Miscellaneous--Any inspection type not mentioned above. If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

N Were violations noted during this inspection? (Yes/No/Pending Sample Results)

N Was this a Quality Assurance-Based inspection?

N Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.

INSPECTION SUMMARY (REQUIRED) (100-character limit)

There are still only 10 employees at the facility during the day (property still for sale). Very low flow conditions. Permit will not be rescinded at this time at the request of the operator.

INITIALS: WMN SIGNATURE: William Norton DATE: August 22, 2003

For Internal Use: Reviewed by: (1) _____ (2) _____ (3) _____
Regional WDS Coordinator

WDS Data Entry Date: ____ -- ____ -- ____ Regional Board File Number:

VIOLATION (IF APPLICABLE)

VIOLATION TYPE? (A-G) NA (See Pages IK05.0 and IK05.1 of the Micro Waste Discharger System Users Manual)

DATE OF VIOLATION (YYMMDD): _____

DATE OF VIOLATION DETERMINATION (YYMMDD): _____

DESCRIPTION OF VIOLATION (200 Character Limit):

EPA SUGGESTED INSPECTION CHECKLIST

	Satisfactory	Marginal	Unsatisfactory	Not Evaluated	Not Applicable
Permit	X				
Flow Measurement	X				
Pretreatment	X				
Operations and Maintenance	X				
Records/Reports	X				
Laboratories	X				
Compliance Schedules	X				
Sludge Disposal	X				
Facility Site Review	X				
Effluent/Receiving Waters	X				
Self-Monitoring	X				

Overall Facility Operation Evaluation
(5=Very Reliable; 3=Satisfactory; 1=Unreliable): 3

HISTORICAL INFORMATION:

MOST RECENT:

Order No.	Adopted Date	Permit Type	Inspect Date	Inspection Type	Inspection Violations	Inspection Violation Type	Violation Date
86-100		WDR					

SEE ATTACHED INSPECTION NOTES.

SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD 3

ADDITIONAL INFORMATION

Report Date: **August 22, 2003**

Location & County: San Bernardino, CA

Contact(s): Dennis Sather

Inspection Date: 8/12/03

Inspected By: **William Norton**

Site(s): STP

Observations and Comments:

I met Dennis Sather (Maint. Mechanic), who has been running the plant since mid-2002. Dennis was trained by Dan Westrick in 2000, before he left the organization. Dennis oversees all plant activities, including quarterly sampling.

The facility was effectively shut down in September 1999, while the owner attempted to sell the property. The plant is still operating at extremely low flow levels right now (less than estimated 1500 gpd), with only about ten daytime staff, and no overnight residents at the present time.

Sale of the property to the San Manuel band of indians fell through this past April. There are still a few parties interested in purchasing the property, but no deal is pending at the present time. Dennis said it would take a minimum of three months to close a brand new deal with somebody, and another 6 months to ready the property for a significant number of people by the new owner. That means we would have plenty of lead time to begin the process of issuing a permit to the new owner.

I informed Dennis that we were considering rescinding the current permit because there was such a minimal threat to water quality that costs of monitoring by them and inspection by us was probably not justified. Dennis thought that it might be a good idea to leave the current permit in their own file with a note to the new owner to contact us about a new one. I agreed. He also said they would probably continue to monitor quarterly regardless, in which case I asked him to continue to send me a copy.

The plant does not have enough solids to operate properly, but must continue to be used both to process the wastes that do occur, and also to keep it maintained and running. The effluent on the day of my visit was extremely clear. The influent tank is manually skimmed on an as needed basis.

There were no equipment breakdowns this year. Sewer lines were cleaned out in July of this year. The propellers to the trickling filter are still operating properly. Dennis wastes sludge every four to six weeks for one to two minutes. Corrosion exists at the plant, but it is not presently severe enough to cause any primary components to collapse or breakdown, or cause a release of effluent. Dennis supplements the low flows with irrigation water when necessary to keep the plant going.

All 10 of the sprinklers work, and Dennis inspects them and their lines every two weeks when they turn on (automatically based on water level in clarifier). There is virtually no access to the sprinkler area by anybody except maintenance staff. Dennis visits the plant every morning and monitors the water level in the clarifier and flow from the trickling filter to the clarifier. He back flushes the sand filters every two to four weeks to eliminate algae buildup. He also cleans the trickling filter weir weekly with chlorine solution to eliminate algae. They used to add chlorine to the effluent in the sand filters, but they usually over chlorinated, and I told Dennis they could stop chlorinating completely if he wishes.

There is presently no electrical backup immediately available, but none is presently needed because of the huge amount of excess capacity, which buys plenty of response time. Also, they have mobile generators available, which can be easily taken up to the plant.

In 2002 Rod Garton (gen. Mgr.) stated that the TDS limits in the permits were based on the use of surface waters in 1986 which were very low in TDS. In subsequent years they were compelled to use well water, which had higher TDS, but the permit never reflected the change in source water.

There are large numbers of workers at the facility building the tunnels for the Metropolitan Water District, but none of their wastes are entering the system at Arrowhead Springs.

Based on this inspection, and review of recent monitoring reports for the past few years, we were going to recommend rescission of the waste discharge requirements until either the present owner, or a new owner, began generating enough solid waste to justify a new permit.

On August 19, 2003, I spoke to Rod Garton, the facility manager, about whether he would be willing to allow us to rescind the permit for the STP. Rod said he would prefer to leave the permit in place, both to allow them to more easily increase the number of people staying at the conference center at any time, as well as to make the property more marketable to a prospective buyer. We will not rescind the permit at this time based on this request.

Report Prepared by: William Norton

SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD

ADDITIONAL INFORMATION

Report Date: **August 29, 2000**

Location & County: San Bernardino, CA

Contact(s): Dan Westrick

Inspection Date: 8/24/00

Inspected By: **William Norton**

Site(s):

Observations and Comments:

On August 24, 2000, I met Dan Westrick, the assistant facilities manager, at the facility. The present plant was constructed prior to the present hotel (built in 1939), and was used to serve a previous hotel which burned down in 1938. An engineering report conducted in 1984 considered the plant to be well thought out and of excellent quality, which goes without saying based on the fact that it is still functional. According to that report, this facility can treat up to 240,000 gpd, based on its current configuration. The plant is operating at extremely low flow levels right now (less than 3,000 gpd, based on staff estimate), with only eight residents and twelve daytime staff. It is important that the plant be maintained in order that a prospective new owner can meet the needs of the property in the future without having to build a new treatment facility.

Influent from the facility enters a two story Imhoff tank, which is a device which has rarely been built since the 1940's as a result of better designs for digester tanks. The structure has no roof, since the wooden former roof was destroyed in a fire. In spite of assurances to our staff in 1995 that an aluminum replacement would be added, this has not as yet occurred. In the Imhoff tank, primary sedimentation occurs in the upper portion, where solids settle out, and floating material is skimmed off. Detention time is about one to two hours. The lower portion of the tank is used for sludge reception from the upper tank, storage and digestion. The lower tank also receives solids from the final clarifier tank, and backwash from the sand filters, as well as liquid drainage from the sludge drying bed. Final sludge is discharged to the sludge drying bed, on the south side of the plant. When the plant was running at normal flow (12,000 – 25,000 gpd) with up to 1,000 residents, sludge was pumped by staff to the drying beds every 4 to 6 weeks. There is probably not enough flow to warrant pumping the sludge out of the tank on a regular basis at this time.

Following the Imhoff tank, the effluent enters a dosing chamber in order to control the head of sewage over the orifice of the trickling filter. The sewage is intermittantly discharged, thus eliminating sluggish operation and poor distribution, especially during low flow periods, such as the present one. The effluent next enters the trickling filter, which is a forty foot diameter tank with a bottom covered by smooth stones about five feet deep. Effuent is distributed in a spray over the stones using a rotary distributor. The stones become coated with zooglea (bacteria and other biota), which absorb and utilize suspended, colloidal, and dissolved organic matter from the sewage, which passes in a thin film over the stones' surface. When a population

equilibrium is reached by the organisms, they begin to die, and in combination with decomposed organic matter, are eventually discharged from the filter media.

The final clarifier tank is a settling tank to retain these settleable materials received from the trickling filter that were washed off of the stones. These solids are collected in a hopper located at the bottom of the cone shaped tank and are periodically pumped back to the digestor tank (bottom level of Imhoff tank). Flow from the trickling filter goes into the center ring in the clarifier, and goes out radially to the perimeter of the tank, and then over a weir into a trough which discharges to the sand filters.

The rapid sand filter removes nonsettleable floc impurities and most bacteria which still remain after sedimentation in the clarifier. As the water passes downward through the sand, it experiences straining, flocculation, and sedimentation. The sand is cleansed by "backwashing" or reversing the flow, which expands the sand density, and washes out the sand, depositing the "rinse" water to a settling tank, from which it is finally pumped back to the clarifier. This water is finally treated with chlorine via a pulse system.

The final treated effluent is discharged either via sprinklers on the western slope overlooking the plant, or to three ponds at the bottom of the east slope adjacent to the plant. The sprinklers apply the treated effluent to native vegetation on the slope. In the ponds, the effluent undergoes exposure to UV sunlight, evaporation, percolation, sedimentation, and oxidation, which produces a stabilized effluent which should be free from odor. The three ponds have a combined surface area of about .65 acres. They are currently dry, and overgrown with vegetation. Before the plant can resume normal operations again, the ponds will need to be scarified and clear of vegetation to allow future discharge.

The site currently has no effluent or influent flow meters. There also is no reliability apparatus or metering for the chlorine additive system. Therefore the amount of chlorine being added may be insufficient to treat the effluent for bacteriological agents. This is not an issue for the pond, as much as the sprinkler system, in terms of adequate disinfection to prevent a person who gets sprayed from becoming ill. This will need to be addressed when the facility is back up to regular flow levels.

Several piles of sludge appear to be piled up on the west side of the sludge drying bed. I told Dan when they decide on what they want to do with the sludge (land application etc.) to contact me so we can discuss options. Dennis Sather (small engine mechanic) presently checks the plant on a daily basis, especially the pumps and lines for outages, blockages, leaks etc. Rod Garton is the operations director, but presently resides in Florida, which is not great for communication and decision making. Dan believes the plant will be properly maintained until it is sold to a new owner.

Report Prepared by: William Norton

AN INSPECTION OF THE CAMPUS CRUSADE FOR CHRIST, ARROWHEAD SPRINGS WWTP (WWTP), WAS CONDUCTED ON APRIL 16, 1998 BY REGIONAL BOARD STAFF MARK ADELSON, SUSAN BEESON, AND WANDA SMITH. THE INSPECTION WAS COORDINATED WITH STEVE SMITH, THE RESORT'S OPERATIONS MANAGER. THE INSPECTION WAS A "B" TYPE COMPLIANCE INSPECTION WITH NO SAMPLES TAKEN.

THE WWTP SYSTEM CONSISTS OF AN IMHOFF TANK, A TRICKLING FILTER FURNISHING ADDITIONAL TREATMENT CAPABILITY, AND A CHLORINATION UNIT. THE PLANT HAS A MAXIMUM DESIGN CAPACITY OF 300,000 GAL/DAY, CURRENTLY TREATING AN ESTIMATED AVERAGE OF 12,000-25,000 GAL/DAY. THE IMHOFF TANK DESIGN PROVIDES PRIMARY SEDIMENTATION IN ITS UPPER COMPARTMENT, WHICH ALLOWS SOLIDS TO SETTLE AND PASS THROUGH INTO A LOWER COMPARTMENT. THE DETENTION TIME FOR PRIMARY TREATMENT IS APPROXIMATELY TWO HOURS, WHICH ALLOWS COMPLETE SETTLING. THE LOWER COMPARTMENT USES AN ANAEROBIC DIGESTION PROCESS TO CONVERT SOLIDS INTO SLUDGE THROUGH DECOMPOSITION. THE SLUDGE IS THEN DISCHARGED TO DRYING BEDS. CAMPUS CRUSADE STAFF INDICATED THE SLUDGE IS DRAWN OFF AT INTERVALS OF BETWEEN FOUR TO SIX WEEKS.

THE CLARIFIED PRIMARY LIQUID PASSES INTO A CIRCULAR TRICKLING FILTER VIA THE FILTER ARMS TO UNDERGO SECONDARY TREATMENT. THE PROCESS ENTAILS THE USE SAND MEDIA TO FURTHER CLARIFY AND REMOVE THE MINUTE-SIZED SUSPENDED SOLIDS FROM THE FLOW.

DISINFECTION IS ACCOMPLISHED WITH DILUTED LIQUID CHLORINE. THE CHLORINATED EFFLUENT IS DISPOSED OF THROUGH SPRAY IRRIGATION UNTO AN ADJACENT HILLSIDE. THE FACILITY ALSO HAS PERCOLATION PONDS, ALTHOUGH THEY ARE GENERALLY USED ONLY DURING WET WEATHER (WHEN IRRIGATION IS NOT FEASIBLE). THE PLANT, THOUGH OLD, APPEARS TO BE RUNNING WELL. THERE WERE NO ODOR PROBLEMS.

POTENTIAL CONCERNS RB STAFF IDENTIFIED DURING THE INSPECTION INCLUDE THAT THE LEVEL OF CHLORINE USED TO DISINFECT SECONDARY EFFLUENT IS NOT METERED. WWTP STAFF INSTEAD SAMPLE THE EFFLUENT PRIOR TO SPRAY IRRIGATION TO INSURE ADEQUATE DISINFECTION. THEREFORE, THE STAFF MAY BE CHLORINATING MORE OR LESS THAN NECESSARY. ALSO, THE FACILITY DOES NOT HAVE INFLUENT OR EFFLUENT FLOW METERS, SUCH THAT THE EFFLUENT NOR IS IRRIGATION WATER FLOWRATE IS NOT BEING DIRECTLY MEASURED, BUT INSTEAD ESTIMATED. THERE IS NO BACKUP PUMP FOR SPRINKLER DISPOSAL. THE PERCOLATION PONDS WERE SOMEWHAT MAINTAINED BUT SOME LOCATIONS WERE OVERGROWN WITH VEGETATION. IN ADDITION, THE DISCHARGER INDICATED THAT THEY STILL NEED TO DETERMINE WHERE TO ULTIMATELY DISPOSE OF THE DRIED SLUDGE.

FINALLY, THE DISCHARGER'S FILES SHOWED THAT SINCE 1990 APPARENTLY THE DISCHARGER HAS NOT SUBMITTED THE MONITORING REPORTS IN ACCORDANCE WITH THE REPORTING REQUIREMENTS ESTABLISHED IN THEIR MONITORING AND REPORTING PROGRAM. AS OF 1990, ROUTINE MONITORING REPORTS WERE NOT IN THE DISCHARGER'S TECHNICAL FILE. RB STAFF DISCUSSED WITH THE CAMPUS CRUSADE STAFF THEIR NEED TO FOLLOW THE PRESCRIBED TIME SCHEDULE IN SUBMITTING THEIR MONITORING REPORTS.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-SANTA ANA REGION
FACILITIES INSPECTION REPORT

OFFICE NO: 8
INSPECTOR: TME

PCA SYSTEM TASK NO. 121 ✓

8 361003001	CAMPUS CRUSADE FOR CHRIST	CAMPUS CRUSADE FOR CHRIST
WDS NUMBER	NAME OF AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE	NAME OF FACILITY
NPDES NUMBER	24600 ARROEHEAD SPRINGS ROAD,	24600 ARROWHEAD SPRINGS ROAD
	AGENCY STREET	FACILITY STREET
97 09 A2	SAN BERNARDINO, CA 92414	SAN BERNARDINO, CA 92414
YY MM TYPE SHEDULED INSPECTION	AGENCY CITY AND STATE	FACILITY CITY AND STATE
	STEVE SMITH	STEVE SMITH
	AGENCY CONTACT	FACILITY CONTACT PERSON
97 86- 09-18	(909) 886-7979	(909) 886-7979
ACTUAL INSPECTION DATE (YYMMDD)	AGENCY PNONE NO.	FACILITY PHONE NO.

S — Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

N — If this inspection is a compliance inspection on an NPDES facility, send a copy of this report to SWRCB's Division of Water Quality, Program Support Unit

INSPECTION TYPE (Check One)

A1 ____ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)

B1 X "B" type compliance--A routine nonsampling inspection. (EPA Type C)

02 ____ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.

03 ____ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.

04 ____ Complaint--Inspection made in response to a complaint.

05 ____ Pre-requirement--Inspection made to gather info. relative to preparing, modifying, or rescinding requirements.

06 ____ Miscellaneous--Any inspection type not mentioned above.
If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

_____
(Type)

N — Were violations noted during this inspection? (Yes/No/Pending Sample Results)

N — Was this a Quality Assurance-Based inspection?

N — Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.

INSPECTION SUMMARY (REQUIRED) (100 character limit)

THIS FACLITY WAS OPERATIONAL. NO VISUAL VIOLATION WAS NOTED.

INSPECTORS DATA:

INITIALS: TME SIGNATURE: [signature] DATE: SEPT. 22, 1997

For Internal Use: Reviewed by: (2) MCA 10-21-97 (3) GDS
Regional WDS Coordinator

WDS Data Entry Date: 11.13.97 Regional Board File Number: _____

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-SANTA ANA REGION
FACILITIES INSPECTION REPORT
(Page 2)

VIOLATION (IF APPLICABLE)

VIOLATION TYPE? (A-G) *N.A.* (See Pages IK05.0 and IK05.1 of the Micro Waste Discharger System Users Manual)

DATE OF VIOLATION (YYMMDD):_____ DATE OF VIOLATION DETERMINATION (YYMMDD):_____

DESCRIPTION (200 Character Limit):

EPA SUGGESTED INSPECTION CHECKLIST

(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Evaluated)

S Permit	*N* FLow Measurement	*N* Pretreatment	*S* Operations and Maintenance
S Records/Reports	*N* Laboratories	*N* Compliance Schedules	*N* Sludge Disposal
S Facility Site Review	*S* Eff./Receiving Waters	*S* Self-Monitoring	*N* Other

5 Overall Facility Operation Evaluation (5=Very Reliable, 3=Satisfactory, 1=Unrelaiable)

HISTORICAL INFORMATION:

MOST RECENT ORDERS:			MOST RECENT INSPECTIONS			MOST RECENT VIOLATIONS	
ODRER NO.	DATE ADOPTED	TYPE	DATE	INSP.TYPE	VIOLATIONS?	VIOL. TYPE	DATE

ADDITIONAL COMMENTS, SPECIAL INSTRUCTIONS, ITEMS FOR FOLLOWUP ON FUTURE INSPECTIONS, NOTES, ETC. (On following pages, if necessary)

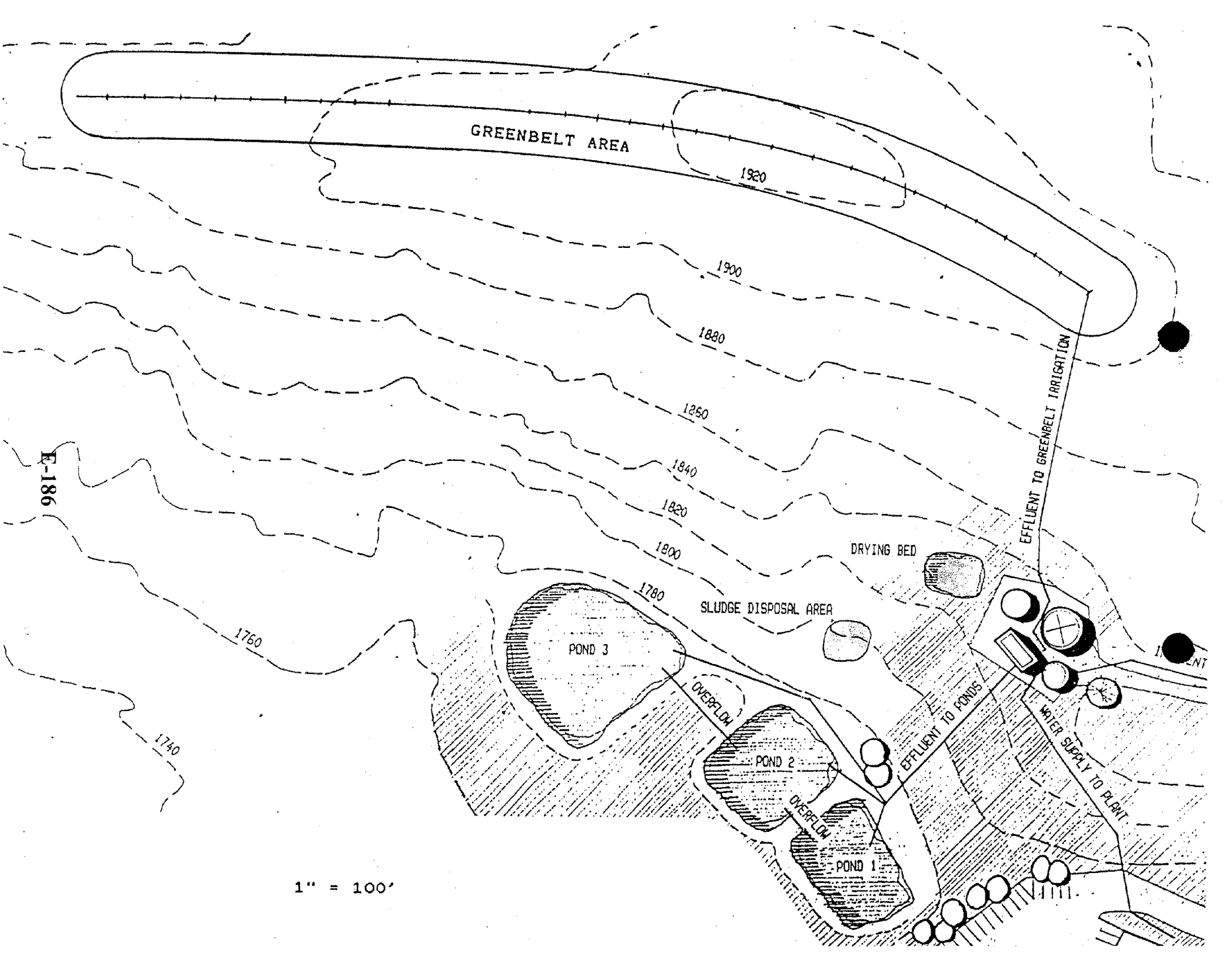
I AND GLENN ROBERTSON MET WITH STEVE SMITH WHO SAID HE HAS ONLY BEEN SIX WEEKS ON THE JOB AS THE FACILITY MANAGER. HE OVERSEES THE DAY TO DAY OPERATIONS OF THE EVERYTHING INCLUDING THE TREATMENT PLANT. THE PLANT HAS A NEW OPERATOR TOO WHO REPLACED PHIL PANOS WHO LEFT OVER SIX MONTHS AGO. BEFORE LEAVING FOR INSPECTION, A PRELIMINARY CHECK IN THE FILE REVEALED THAT SINCE 1990, NO MOITORING REPORT HAS BEEN RECIEVED IN THIS OFFFICE.

THE TREATMENT PLANT OPERATIONS CONSISTS OF TWO IMHOFF TANKS, TRICKLING FILTER, CHLORINATION AND FILTERATION UNITS. SEDIMENTATION IS SAID TO BE ACCOMPLISHED IN THE UPPER COMPARTMENT OF THE IMHOFF TANK WHILE DIGESTION IS ACHIEVED IN THE LOWER COMPARTMENT. SETTLING SOLIDS PASS THROUGH TRAPPED SLOTS INTO THE UNHEATED LOWER COMPARTMENT FOR DIGESTION. THE RETENTION TIME IN THE UPPER CHAMBER IS RELATIVELY SHORT, USUALLY ABOUT TWO HOURS. THE COMPLETELY DECOMPOSED SLUDGE IS DRAWN OFF AT INTERVAL OF ONE MONTH TO SIX WEEKS.

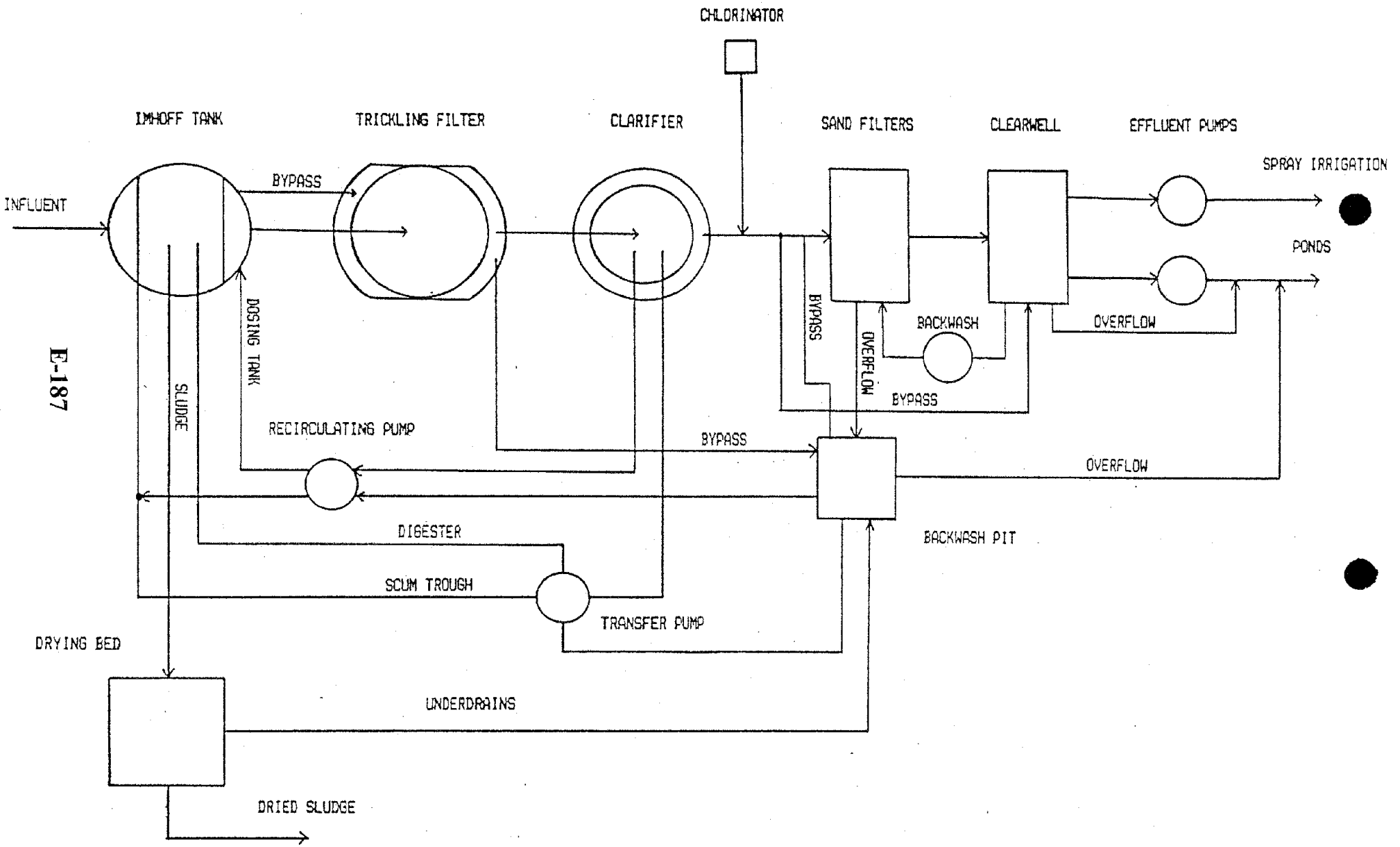
DISINFECTION IS ACCOMPLISHED WITH THE USE OF DILUTED CHLORINE IN THE FILTRATION CHAMBER. THE FINAL EFFLUENT IS DISCHARGED TO THE HILL WHERE IT IS USED TO IRRIGATE THE HILLSIDE. THE FACILITY HAS PERCOLATION PONDS WHICH ARE RARELY USED. THE CHLORINATION IS CONTROLLED THROUGH AMBIENT SOLUBILITY AND NATURAL HYDAULIC FLOW THROUGH A LIQUID DISPENSER. THE FACILITY HAS NO WAY OF MEASURING ITS FLOWRATE. THE ONLY FLOWRATE MEASURED IS THAT OF THE DISCHARGE FOR IRRIGATION THROUGH SPRINKLERS. BEFORE THE NEW OPERATOR, DRIED SLUDGE WAS SAID TO BE MIXED WITH SAW DUST AND USED IN THE NEARBY FIELD. HOWEVER, WITH THE NEW TREATMENT PLANT OPERATOR, MUCH OF THE DRIED SLUDGE CONTINUE TO ACCUMULATE IN THE

DRYING BEDS. THE NEW OPERATOR HAS NO IDEA WHAT TO DO WITH THE SLUDGE AS HE HAD NO DIRECTIVE ON WHAT TO DO WITH IT.

THE PERCOLATION PONDS, THOUGH LARGELY UN-USED, HAVE BEEN OVERGROWNED WITH WEEDS. THE PLANT, THOUGH OLD, APPEARED TO BE RUNNING WELL. THERE WAS NO ODOR PROBLEMS. THE EFFLUENT LOOKED CLEAR. HOWEVER, IN SPITE OF THE EFFLUENT CLARITY, BECAUSE OF DELINQUENCY IN SUBMITTING MOTORING REPORTS, IT WAS NOT CERTAIN IF THE EFFLUENT MEETS THE PERMIT LIMITS. THIS PROBLEM WAS BROUGHT TO THE ATTENTION OF BOTH STEVE SMITH AND THE OPERATOR. I REFERRED BOTH TO PERTINENT PORTION OF THE PERMIT THAT CALLS FOR BIMONTHLY MONITORING. THEY ASSURED ME THAT ALL FUTURE MONITORING REPORTS WOULD BE PROMPTLY SUBMITTED. I ASKED THEM TO ARRANGE TO TAKE A SET OF SAMPLES RIGHT AWAY.


GREENBELT AREA
1920
1900
1880
1850
1840
1820
1800
1780
1760
1740
DRYING BED
EFFLUENT TO GREENBELT IRRIGATION
SLUDGE DISPOSAL AREA
POND 3
OVERFLOW
POND 2
OVERFLOW
POND 1
EFFLUENT TO PONDS
WATER SUPPLY TO PLANT
1" = 100'

ARROWHEAD SPRINGS WASTEWATER TREATMENT PLANT



Asbestos Containing Material

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ARROWHEAD SPRINGS VOLUNTEERS

_____
(Please print name!)
Volunteer

Re: Notice of Asbestos Containing Materials in Building

Dear Volunteer,

In our efforts to maintain a safe and healthy work environment here at Arrowhead Springs, we have taken the precaution of conducting tests on certain areas of the older building materials used as insulation. The test results reveal that at least some of the insulation materials located in several Arrowhead Springs buildings contain asbestos. Although the presence of asbestos in buildings built before 1979 is probably not unusual and should not cause anyone to panic, until 1991 we were not aware that we had any here at Arrowhead Springs. Now that we know about it, we wanted to make sure you are fully informed and made aware of the risks.

This notice is posted for employees or staff, that either work in a building containing asbestos, or, as part of their normal job duties, have access to areas in which asbestos is present. As a safety precaution, we want to let them know specifically where the asbestos is located, what the potential health risks of exposure to asbestos are, how they can avoid these health risks, and what Campus Crusade for Christ, Inc. is doing to take care of this situation. Please read through this information carefully and call if you have any questions.

1. Specific Location of Asbestos. We understand that you work in or around, or normally have access to the following buildings: 1) ***Hotel Building***; 2) ***Bungalow #1***; 3) ***Spring House***; 4) ***Bungalow #10***; 5) ***Village Auditorium***; and 5) ***Hacienda***. According to the tests, in the buildings referred to above, asbestos is located in the following areas: **(See attached Exhibit "A" in the Risk Management Manual).** If this description is not clear, please call the Safety Marshall, Leon Phelps, who can answer your questions and give you a personal inspection of the specific areas where the asbestos is located. Also, please note that the test results are available in the Safety Marshall's office for your review. The test is known as a "Bulk Asbestos Analysis Summary" and was conducted by Forensic Analytical Specialties, Inc.

2. Potential Health Risks. If you are exposed to or come in contact with asbestos fibers, and if the fibers are inhaled into the lungs, there is an increased danger of lung disease and cancer. In particular, moving, drilling, boring, cutting or otherwise disturbing materials containing asbestos will likely release asbestos fibers into the air and create a greater hazard that the fibers will be inhaled into the lungs. Repeated or long term exposure further increases the risks.

3. Safety Precautions. If proper precautions are taken, the health risks can be avoided or greatly minimized. For your safety, please carefully observe the following safety procedures at all times:

(a) Do not attempt to move, drill, bore, cut or otherwise disturb any asbestos containing construction materials. This type of work should only be attempted by persons who are specifically qualified to handle asbestos–containing construction materials.

(b) Do not attempt to work on, or disturb, any insulated or covered pipes or air ducts without prior consent of the Safety Marshall.

(c) Obey all posted warning signs.

(d) Do not move, touch or otherwise disturb any containers marked with an asbestos label.

4. Campus Crusade's Plan of Action. Campus Crusade for Christ is in the process of having an asbestos management plan designed by an accredited expert. This plan will be implemented as soon as it has been completed and approved by management. The asbestos management plan will be designed to minimize the potential for release of asbestos fibers and will outline a schedule of actions (*i.e.* a timetable for removal or other action) with respect to the asbestos. The plan will also provide for ongoing safety procedures, maintenance, periodic reinspections, training programs, etc. This plan will be available for your review, when it is completed, in the Safety Marshall's office.

If you have any questions or concerns, please call Leon Phelps at X3310. Thank you.

Very truly yours,

Leon Phelps
Safety Marshall

I acknowledge receipt of this letter:

_____ Date:_____

Volunteer Signature

Hazardous Waste Disposal/Removal

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Safety-Kleen Systems, Inc
5400 Legacy Drive
Plano, TX 75024

DUNS NO: 05-397-6551
FED ID NO: 39-6090019

ORIGINAL INVOICE

SK SERVICE FACILITY:	TAX STATUS/NUMBER	INVOICE DATE	Invoice Number
BR Highland		09/16/2004	0027124893
FACILITY PHONE NUMBER:	VENDOR NUMBER:	TERMS:	
909 862-8300		Net 30	

P1 4726
ARROW H.D. SPRINGS
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO CA 92414-0001

SERVICE LOCATION

ARROW H.D. SPRINGS
24600 ARROWHEAD SPRINGS RD
SAN BERNARDINO , CA 92414-0001

ACCOUNT NUMBER:	SERVICE NUMBER:	LOCATION NUMBER:	SPECIAL BILLING CODE:
0002671153	0002671153	717201	003 52

Department: 00 Department Name:
Service Date: 09/15/2004 Service Doc Number: 0027124893 PO Number:
Release Number: Transporter: Manifest Number: 23702394

QUANTITY	DESC./REFERENCE NUMBER	PRICE PER	SALES TAX	ITEM TOTAL
1.000	MODEL 94 W/2370/6317 000094830-12-094004300-0000000	178.2500 EA	13.81	192.06
1.000	FUEL FEE SURCHARGE 000100009-00-000000000-0000000	8.1500 EA	0.00	8.15
			INVOICE TOTAL	$200.21

Comments:

PLEASE RETURN THIS PORTION WITH PAYMENT. MAKE ANY ADDRESS CORRECTIONS BELOW

ARROW H.D. SPRINGS, 24600 ARROWHEAD SPRINGS RD, SAN BERNARDINO, CA 92414-0001

ACCOUNT NUMBER	INVOICE NUMBER	INVOICE DATE	SERVICE NUMBER	AMOUNT PAID
0002671153	0027124893	09/16/2004	0002671153	

00027124893000267115320000020021 2

PO Box 7170
Pasadena, CA 91109-7170

E-195

AMOUNT DUE
$200.21

Inter-Valley Pool Supply

6226 Santos Diaz Street • Azusa, California 91702
626-969-5657 • 800-252-2702 • Fax 626-969-0237

PAGE NO.	INVOICE NO	APPLY TO	INVOICE DATE	CUST. NO.
1	41544		12/07/04	ARR10

INVOICE

53010 0

WORK ORDER NO. B.O.

ARROWHEAD SPRINGS
CHRISTIAN CENTER
24600 ARROWHEAD SPRINGS ROAD
SAN BERNARDINO, CA 92414

SHIP TO

CAMPUS CRUSADE FOR CHRIST

ATE SHIPPED	PURCHASE ORDER NO.	SHIP VIA	F.O.B.	TERMS
11/29/04	9687	I.V.P.S. TRUCK	ON CALL	NET 30

UYER	DATE REQUESTED	LOCATION	SALESPERSON	TERRITORY
	11/23/04	AZUSA		SAN BERNARDINO

ITEM NO.	DESCRIPTION	QUANTITY ORDERED	QUANTITY BACK ORD.	QUANTITY SHIPPED	UNIT PRICE	EXTENSION	TAX
5-1	BULK CHLORINE, GALLON	300		300	1.20	360.00	T
45-14	4X1 CASE CHLORINE	10		10	6.80	68.00	T
45-24	4X1 CASE ACID	6		6	8.52	51.12	T
45-805	CASE DEPOSIT CHARGE	2		2	5.00	10.00	

SUBTOTAL

489.12 STATE & CO 37.13

THANK YOU FOR YOUR PATRONAGE

E-196

INVOICE NO. 41544

526.25

PLEASE REMIT THIS AMOUNT

ORIGINAL

Safety-Kleen
5400 Legacy Dr.
Cluster II, Building 3
Plano, Texas 75024
909 862-8300

CUSTOMER# 2671153 ARROW H.D. SPRINGS
SERVICE TAX: 0.07750 CAMPUS CRUSADE FOR CHRIST
COMS TAX: 0.00000 24600 ARROWHEAD SPRINGS RD
PRODUCT TAX: 0.07750 SAN BERNARDINO
PHONE 909-379-1442
PURCHASE ORDER#

REFERENCE NBR 0027124893
SRVC WEEK: 04-37
SRVC DATE: 09/15/04 12:08
CA 92414

TAX EXEMPTION NBR.

PRODUCT/SERVICES

SERVICE/ PRODUCT SERIAL#		QTY	UNIT PRICE	TAX	TOTAL CHARGE
100009	FUEL FEE SURCHARGE	1	8.1500	0.00	8.15
94830	MODEL 94 W/2370/6317	1	178.2500	13.81	192.06
94004300	CLEAN 2 SPENT 0				
	SERVICE TERM 12				
	TOTAL SERVICE/PRODUCTS		186.4000	13.81	200.21

USEPA TRANSPORTER 1 TXR000050930 GENERATOR USEPA CAL000001926
USEPA TRANSPORTER 2 GENERATOR STATE
MANIFEST DOC # 23702394 FORM CODE 1D

US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID
USED CLEANING COMPOUNDS, N.O.I.B.N.
LIQUID (NOT USDOT OR USEPA REGULATED)
AQUEOUS PARTS WASHER SOLUTION (8.3#GAL)
TOTAL CONT 1 TYPE DM TTL QTY 15 UNIT WT/VOL G SKDOT 941
CONTAINER# 40826078225 QTY 15 WASTE CODE CA 134

DESIGNATED FACILITY NAME/ADDRESS:
SAFETY-KLEEN SYSTEMS, INC.
7979 PALM AVE-UNIT A
HIGHLAND, CA 92346

USEPA ID NO CAT000613927
STATE ID NO CAT000613927

TOTAL CHARGE	200.21
WASTE MIN	0.00
TOTAL DUE	200.21

UNPAID BALANCE THIS RECEIPT 200.21

Machine clean and good condition? Yes
Decals in place and legible? Yes
Fusible link installed? Yes
Emergency closing of lid unobstructed? Yes
Machine properly grounded? Yes
Spent solvent meets acceptance criteria? Yes

GENERATOR STATUS 0 - 220 lbs/month

The generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree, as determined by the generator, to be economically practicable.

Customer certifies that (i) the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and (ii) no material change has occurred either in the characteristics of the waste materials or in the process generating the waste materials. Customer agrees to pay the above charges and to be bound by the terms and conditions (1) set forth in (a) the General Terms and Conditions provided separately to Customer or (b) any SK agreement signed by Customer and SK, and (2) incorporated herein by reference. Unless otherwise indicated in the payment received section, SK is authorized to charge Customer's account for this transaction. Customer certifies that the individual signing this Service Acknowledgement is duly authorized to sign and bind Customer
IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

SIGNATURE NAME: DENNIS SATHER

TRANSPORTER NAME: SNYDER, JOHN

FAXED 9/21/04

The Underground Service Alert Information

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Arrowhead Springs Resort.

Design Ticket Lookup

X

Lookup | Exit

County SAN BERNARDINO

Place SAN BERNARDINO

Grids 0547J04 0547A04

Street not mandatory, not used for lookup.

County: **SAN BERNARDINO** Place: **SAN BERNARDINO**
Grids: **0547J04 0547A04**

MWD08
METROPOLITAN WATER DISTRICT - DVL
(Information not provided)

SBW01
C/OF SAN BERNARDINO WTR
LOUIE TORBITT
P O BOX 1630
SAN BERNARDINO, CA 92402
(909)384-5001
torbitt_Lo@sbcitywater.org

SBW02
C/OF SAN BERNARDINO PBL SERVICE
ENGINEERING
195 NORTH D STREET
SAN BERNARDINO, CA 92402
(909)384-5111

SCG1N8
SC GAS
ROGELIO RAWLINS
P O BOX 3003
REDLANDS, CA 92373-0306
(909)335-3928

USCE31
UTI FOR SC EDISON - REDLANDS DIST
EDISON OPERATOR

(626)302-1212

UVZRDLNDS
UTI FOR VERIZON - REDLANDS
ENGINEERING

UVZVICT
UTI FOR VERIZON - VICTORVILLE

10182 I AVENUE SUITE F
HESPERIA, CA 92345
(760)244-3800

Appendix D. Previous Reports

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CAMPUS CRUSADE FOR CHRIST, INC.

ARROWHEAD SPRINGS
SAN BERNARDINO, CA 92414

2400V PRIMARY ELECTRICAL DISTRIBUTION SYSTEM

E-205
2781 Saturn Street, Unit K • Brea, California 92621 • (714) 524-9100 and 524-9101

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1.2 OFC for Technical Services / Hacienda / Quonsets

1.3 Transformer Bushings

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1.5 OFC in Cabana Pool Vault

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1.7 Fuse Data

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2.2 Coordination Study

2.3 Comments

2.4 System Maintenance Recommendations

2.5 System Protection Recommendations

2.6 System Single Line Diagram

January 25, 1984
PES No. 66-83

I. 2400V EQUIPMENT FIELD EVALUATION AND INVENTORY

Visual inspection of the 2400V Primary Distribution System components was conducted on October 26, 1983. Due to the age of some devices, nameplate data was not obtainable. Energized components or devices could not be thoroughly inspected due to personnel safety restrictions. The following observations are made in addition to comments shown on the Inspection and Maintenance Reports.

1.0 GENERAL CONDITION OF EQUIPMENT

1.1 In the Main Vault, the Hotel 220V, three phase (3Ø) power, oil fuse cutout (OFC) cable lead/terminations are oil soaked and contaminated.

1.1.1 The termination should be remade and the OFC's inspected and refurbished.

1.1.2 Defective oil fuse cutouts should be replaced, where necessary.

1.2 The Technical Services/Hacienda feeder is AWG No. 2 cable connected to the OFC in the Hotel Main Vault. The cable is oil soaked and deteriorated. The cable lead splice should be replaced and the oil leak eliminated. OFC surfaces are dirty and contaminated with oil and dust, which creates a condition for flashover and surface tracking.

1.2.1 Clean all equipment surfaces and porcelains.

1.2.2 Phase identify each circuit phase by color coded tape on cable leads.

2.3.10 Analysis

a. The three-phase short-circuit duties imposed for the low-voltage equipment in the system are also listed in the above tables. These tables can be used to evaluate the application of the low-voltage equipment. It is beyond the scope of this report to make this evaluation.

b. The following comments are deemed appropriate for capacitor installations.

(1) The individual capacitors making up the bank are filled with Polychlorinated Biphenyls (PCB) and should be replaced with non-PCB filled units.

(2) Capacitors are subject to explosions and tank wall ruptures. The safety of personnel working in or near the vault area and the costly clean-up expenses associated with the repair and replacement of failed units is the basis of this recommendation. It is worth noting that all utilities in the area have instituted replacement programs for PCB-filled capacitors.

(3) Non-PCB-filled capacitors are available from General Electric, McGraw-Edison, or Westinghouse Electric.

Crawford
RISK CONTROL SERVICES
The FPE Group

DALE KOPRINIK
BRANCH MANAGER

BUILDING INSPECTION AND BULK SAMPLING REPORT

PREPARED FOR:

Campus Crusade for Christ, International
Arrowhead Springs, 46-00
San Bernardino, CA 92414

PREPARED BY:

Crawford & Co./FPE
3868 Carson Street, Suite 218
Torrance, CA 90503

June 12, 1991

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A	Tables 1 and 2
B	Laboratory Results
C	Field Data Sheets
D	Photographs of Sample Locations
E	Area Diagram
F	Personal Sample Data

Building Inspection and Bulk Sampling Report

CLIENT:	Campus Crusade for Christ, International Assignment Number: 002436
CONTACT:	Leon Phelps, Safety Marshal
FACILITY:	Arrowhead Springs, 46-00 San Bernardino, CA 92414
SURVEY DATES:	May 20-24, 1991
REPORT BY:	Sylvia Shiner, CIH, Project Manager
REPORT DATE:	June 10, 1991

1.0 INTRODUCTION

Campus Crusade for Christ, International (Campus Crusade) is implementing an asbestos management program at their Arrowhead Springs, California facility. Their goal is to ensure health and safety for building occupants and visitors and comply with relevant regulations.

During May 20-24 1991, Crawford & Co./FPE conducted a building inspection and bulk sampling of suspected asbestos containing building materials (ACBM) in property owned by Campus Crusade at Arrowhead Springs. Suspect ACBM was identified by visual inspection and characterized as to friability, current condition and exposure potential. Suspect ACBM was sampled and analyzed to determine asbestos content.

This report presents the survey procedures, results of all bulk sampling conducted by Crawford & Co./FPE and recommendations.

2.0 SURVEY PROCEDURES

The survey procedures followed during the building inspection and suspect ACBM sampling are presented in this section. Bulk sampling was conducted in five buildings.

- Hotel;
- Village Auditorium;
- Hacienda;
- Springhouse; and
- Bungalow.

The survey of the hotel included the maintenance areas. Hotel rooms and other areas occupied by guests were not included in the survey.

Suspect ACBM was identified by visual inspection and characterized as friable or nonfriable. The current condition and exposure potential were also evaluated. Friable material is described by the Environmental Protection Agency (EPA) as material that when dry can be crumbled or reduced to a powder by hand pressure. There are three types of building materials which may contain asbestos:

- Surfacing materials;
- Thermal system insulation; and
- Miscellaneous materials.

Surfacing materials are sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members.

Thermal system insulation is material applied to pipes, fittings, boilers, breaching, tanks, ducts, or other interior structural components primarily to prevent heat loss or gain, or water condensation.

Miscellaneous materials are interior building materials on structural components, structural members or fixtures, such as floor and ceiling tiles, and do not include surfacing material or thermal system insulation. Miscellaneous materials are normally considered nonfriable unless damaged.

Thermal system insulation was sampled during this building inspection. Surfacing and miscellaneous materials were excluded.

Thermal system insulation in the restrooms was not sampled. It was determined that material in these rooms was homogeneous with material sampled in other rooms.

Bulk samples from the buildings listed above were collected of suspect ACBM in the specified areas. The samples were analyzed to determine asbestos content. Bulk sampling was performed in a manner consistent with the EPA sampling protocol. Analysis was performed by a laboratory accredited by National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos testing. Polarized light microscopy (PLM) with dispersion staining was followed for the analysis as recommended by the EPA.

A minimum of three samples of each homogeneous material were collected. Samples were placed in a plastic zip-lock bag and assigned a sample number.

photographs of each sample location were taken. These photographs were labelled with the corresponding sample numbers. Copies of these photographs are presented in Appendix D.

One personal sample was also collected at the request of Mr. Leon Phelps. The sample was analyzed by phase contrast microscopy.

3.0 RESULTS

This section presents the results of the building inspection. All suspect ACBM sampled during the survey is presented in Table 1. Results from the outlying buildings are presented in Table 2. These tables are included in Appendix A.

The laboratory data sheets and field data sheets used during the survey are presented in Appendices B and C, respectively. Photographs of sample locations are presented in Appendix D. An area diagram and personal sampling data are included in Appendix E and F, respectively.

Sample numbers were assigned based on the following scheme: Industrial hygienist's initials-date (y/m/d)-functional area-sample number.

JCI900905-ch-1A
JCI900905-ch-1B
JCI900905-ch-1C

A functional space is a spatially distinct unit within a building which contains identifiable populations of building occupants. A minimum of three samples were collected from each suspect homogeneous material and are represented as A, B, and C in the sample number above.

Tables 1 and 2 provide a list of the buildings and locations inspected and assessed during the building inspection and bulk sampling. Presented are the locations and materials assessed and the general information gathered during the survey. Sample numbers are provided. The Materials column indicates the specific materials assessed in each location.

The "Quantity Present" column shows approximate quantities, in square feet, of each material. Pipe insulation quantities are shown in linear feet.

The "Asbestos %" column indicates sample analysis results. The results show the percent of asbestos found in that material. A breakdown of the type and percent of each type of asbestos found in each sample is provided on the laboratory data sheets in Appendix B. If asbestos was not detected, "ND" is shown.

The next three columns, "Friable", "Damage" and "Condition", present information used to assess each material suspected of containing asbestos.

The "Friable" column indicates whether or not the material is friable.

The extent of damage of each material was assessed.

"No" damage was indicated when the material was found to be intact and no physical damage was visible.

"Minor" damage was indicated where the material was found to have nicks and scratches. "Significant" damage is indicated for a material with damage which is extensive or severe; water damage, broken, loose debris, large rips or tears.

The overall condition, based on the size of the area and amount of material was assessed. The condition of the material was described as Poor, Fair or Good. In this assessment the entire amount of material in that area was considered.

A material judged to be in "poor" condition indicates it appears worn or damaged and has potential for fiber release if disturbed. These materials are considered to have lost their structural integrity in whole or in part, to be water-damaged to the point that the materials have lost cohesion or adhesion to the substrate, or to be missing or not intact such that they are not able to contain fibers. The description, "poor", is related to the condition of the material and is not necessarily a predictor of health risk.

A material judged to be "fair" has minor nicks or scratches and accessibility to the material is moderate.

A material is judged to be "good" if the structural integrity or its physical condition appears intact and shows little or no potential for release of material fibers, providing that the material is used as intended.

Four materials are listed as "ND" in Table; KKC910523-1-3A, KKC910523-7-21A, KKC910523-7-23A, KKC910524-10-41A. Two additional samples from each of these materials should be analyzed before these materials are designated as asbestos free.

A personal air sample was collected as Susan Jodoian. The result for sample "KKC910523-01P" is 0.019 fibers per cubic meter (f/cc). This is below the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) of 0.2 f/cc.

4.0 DISCUSSION

This section presents a discussion and assessment of several of the areas sampled.

There were several types of thermal insulation identified during the survey. Aircell insulation (corrugated cardboard layers and non-corrugated flat cardboard layers) was identified throughout the facility. White (plaster-like) preformed pipe insulation was found on the larger steam lines. The material found on pipe elbows, tees and joints was white, light and fibrous. All of these materials tested positive for asbestos content.

Most of the damage seen during the survey was the result of previous pipe repair. Sections of the insulation had been cut to repair a line or install a valve. Damaged material was left exposed. Damage also appeared to occur due to impacts. (i.e. objects hitting the insulation, vibration).

Hotel: The kitchen and upper level storeroom (pictures 1,2, and 3) have approximately 160 feet of 4 inch aircell running into the crawl space area and old fan room with 12 elbows and Tees. Most pipes run horizontally, one runs vertically. All insulation has localized damage. TSI in the fan room is subject to air erosion.

Main corridor contains three types of ACM; aircell, mud elbows, and white preformed insulation. Each of these have been damaged as the result of being hit by objects carried by employees. These pipes are 7 feet above the ground.

There is noticeable air movement in the laundry which may cause a release of fibers from the significantly damaged ACM.

There is ACM falling onto the air handling machines in the basement HVAC room. Debris was also noted in the floor. The pipes are within the reach of workers.

Damaged insulation was found within reach of workers in the 7th Floor HVAC Room. In one area, the insulation had been rubbed off by workers climbing a ladder.

Bungalow #1: Crawl space under the house has damaged ACM.

5.0 RECOMMENDATIONS

This section presents the recommendations based on the scope of work and results of the bulk sampling and prior building inspection.

1. The California Health and Safety Code (Chapter 10.4 Section 25915) requires timely notification of affected personnel and building users, such as contract workers and tenants of the presence of and potential health risks, if any, due to asbestos containing material (ACM) in the building or work area. Notify within 15 days of receipt of this report.

2. Restrict access where appropriate (i.e. those areas which contain damaged ACM).

3. Post warning signs on all material which contains asbestos.

4. Develop detailed contract specifications for all abatement projects. These specifications should include the contractor's required performance for meeting OSHA, EPA, and local regulations. The specification serves to protect the client's interest and maintain a safe environment for workers, tenants, and the public. These specifications should be provided to the contractor during the bidding process.

5. Remove or repair all damaged asbestos containing material. All material which is significantly damaged should be removed as a first priority, while material with minor damage is a second priority.

   Most of the ACM sampled during this survey is accessible to employees. This factor must be considered when prioritizing ACM removal.

   The first priority areas include, but are not limited to:

   - Kitchen Storeroom;
   - Security Office;
   - Boiler Room;
   - HVAC Basement;
   - Village Auditorium;
   - Hacienda Basement (restrict access); and
   - Springhouse Basement.

6. Development of an Operations and Maintenance Plan. The O&M plan will provide general procedures and handling restrictions necessary to prevent or minimize disturbance and exposure.

7. Maintain accurate and complete records of asbestos removal projects including air monitoring results for personnel exposure and clearance air sampling.

SWCA
ENVIRONMENTAL CONSULTANTS

ARCHAEOLOGICAL SURVEY FOR THE ARROWHEAD SPRINGS PROJECT, SAN BERNARDINO COUNTY, CALIFORNIA

Prepared for

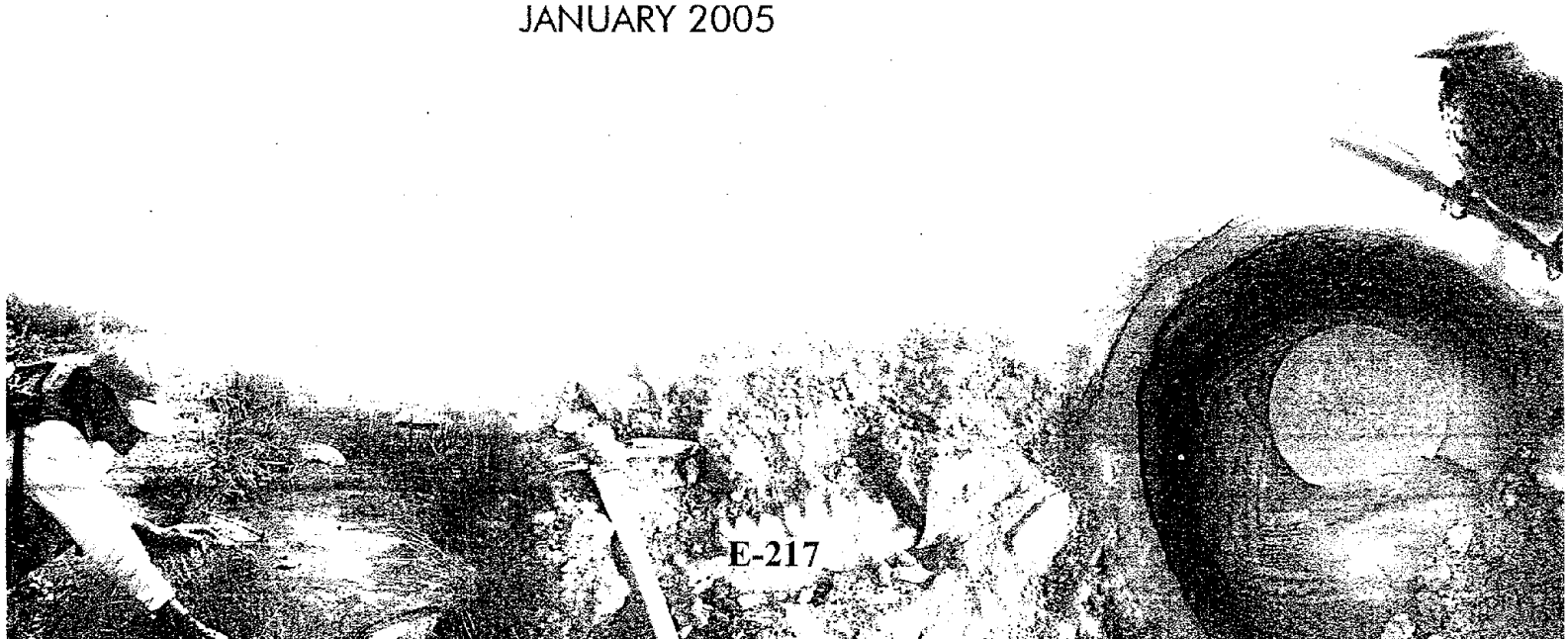
The Planning Center

Prepared by

Joan C. Brown and Michael Tuma
SWCA Orange County Office

SWCA Cultural Resources Report No. 2005-30

JANUARY 2005



ARCHAEOLOGICAL SURVEY FOR THE ARROWHEAD SPRINGS PROJECT, SAN BERNARDINO COUNTY, CALIFORNIA

Prepared for

THE PLANNING CENTER

1580 Metro Drive

Costa Mesa, California, 92626

Prepared by

Joan C. Brown, M.A., RPA
and
Michael W. Tuma, M.S., RPA

SWCA® ENVIRONMENTAL CONSULTANTS
23392 Madero, Suite L
Mission Viejo, California 92691
(949) 770-8042
www.swca.com

USGS 7.5' Quadrangle
San Bernardino North, CA 1967, Photorevised 1988

SWCA Project No. 8749-111

SWCA Cultural Resources Report Database No 2005-30

January 20, 2005

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San Bernardino County Water District and the City of San Bernardino have acquired most of the stock.

In addition to the diversion ditches built at East Twin Creek, a "stone ditch tunnel" had been constructed in 1890. The tunnel was 300 feet long and was located a short distance downstream from the intake to the Del Rosa Water Company's ditch. A pipeline carried the water from the lower end of the tunnel and along the west bank of the creek. The pipeline had a single owner. In 1912 and 1919 the Del Rosa Water company sank a shaft and extended it through bedrock in order to intercept underflow in the East Twin Creek channel. The deepening of the shaft and addition of a lateral shaft in 1919 resulted in stopping the flow of water through the stone ditch tunnel. A suit was filed by the tunnel owner against the Del Rosa Water Company. The court decision merely required that the water company give the tunnel owner advanced notice prior to any pumping.

In 1929, the flow of East Twin Creek was supplemented by water pumped from two wells. In 1965, a valve was installed in the line east of Mountain Avenue. Since that time, the San Bernardino County Water District has supplied the area east of the valve from its domestic and agricultural water supply system. However, this area can still be served from the Del Rosa system in an emergency. A third well was added in 1967; however, by then only around 100 acres were irrigated. Olive groves, Christmas tree groves, deciduous fruit orchards, and pastures occupied most of the 100 acres. In recent years East Twin Creek water not used for irrigation is used in the East Twin Creek spreading grounds below 40th street to recharge the ground water basin.

Before the West Twin Creek Water Company became incorporated in 1891, the water distribution system probably consisted only of open ditches. Since incorporation, all ditches have been replaced by closed conduit. In recent years Waterman Canyon Creek water that is not used for irrigation is spread in the percolation basin in Waterman Canyon Creek, in order to recharge the ground water basin.

PRIOR RESEARCH

The San Bernardino Information Center located at the San Bernardino County Museum, conducted a review of its records on November 1, 2004 to determine if cultural resources were previously recorded within the Arrowhead Springs study area. Information regarding archaeological sites and investigations within the study area was compiled. A check was also made of historic maps, the National Register of Historic Places, the California State Historic Resources Inventory, and the listing of California Historical Landmarks.

The record search revealed that eight cultural resources studies have been completed within the study area. There are five area overview reports that pertain to the general area.

The studies are:

#1062462 Shinn examined 89 acres in southern portion of the property in 1991. As a result of her reconnaissance four historic sites, CA-SBR-7019H, CA-SBR-7020H, CA-SBR-7021H, and CA-SBR-1922H were recorded. Those sites are discussed in the following section.

#1062474 is an addendum to above (Shinn 1991) report. Additional archival research showed that the adobe structure (P1071-27) was constructed in 1948 and was once owned by J. Putnam Henck. Mr. Henck was a general contractor who worked in several mountain communities from the late 1950s through the 1970s. The structure was found to be not historically significant because of the alterations it had under gone in 1968 and because J. Putnam Henck was not considered to be a significant historic figure.

#1062853 Describes Greenwood and Associates Inland Feeder Project (Foster et al. 1991). Their survey within the Arrowhead Springs portion of the project covered approximately 80 acres within and adjacent to Waterman Canyon. Three historic archaeological sites, CA-SBR-6869H, CA-SBR-7702H, and CA-SBR-8248H, were recorded. Those sites are discussed in the following section.

#1063117 is a report describing an archival record search by Bruce Love in 1996.

#1063307 describes the results of the evaluation of the three historic archaeological sites, CA-SBR-6869H, CA-SBR-7702H, and CA-SBR-8248H along Waterman Canyon. Those results are discussed in the following section.

#106364 describes the emergency evaluation of a portion of CA-SBR-10795H that was discovered within the working limits of the Inland Feeder Project (Horne 2004).

#1064074 describes the results of the evaluation of four historic era culverts along Waterman Canyon Road (Livingstone 2004). One of the culverts is within the Arrowhead Springs study area.

#1064077 is a cultural resources reconnaissance for three proposed alignments of Arrowhead Parkway (Brown 2003). The road will provide access from the City of San Bernardino to Arrowhead Springs by way of the southern extent of the current project area.

According to the cultural resources files at the San Bernardino Information Center, one prehistoric archaeological site, nine historic archaeological sites, three "pending" historic archaeological sites, four historic structures, and four (plus) possible historic structures are recorded within the study area. The following prehistoric and historic archaeological sites are located within the study area:

CA-SBR-2268/H is described as a large area containing many springs. The Gabrieliño referred to the site as *Nilengla* where their ancestors had camped naked and cold at the beginning of the world. This area has also been the location of hotels and spas since 1858 and is registered as a County Point of Historic Interest (Haenzel 1977). A natural geologic phenomenon shaped as an arrowhead is located on the mountainside directly above the site. The arrowhead is the emblem for San Bernardino County. The Serrano's refer to this area as *Jubuval.* In addition to the Native American population, the springs were said to have been used by the padres (circa 1820) associated with the San Gabriel Mission and, by 1858, a Mormon named John Brown Sr. began to make "a few improvements" at the springs. (Point of Historic Interest 1972).

CA-SBR-6869H was recorded by Greenwood and Associates in 1990. The site was described as consisting of an oven/chimney feature and associated trash pit (Schmidt 1997:19). Over 600

historic items were recovered and identified as representing deposition between 1930 and 1945. Many of the items consisted of hotel wares, beverage containers, condiment jars, and serving pieces and would have been consistent with the daily operation of Arrowhead Springs Hotel. The historic trash was apparently unrelated to the hog farm and slaughterhouse that once occupied this area and provided pork for the hotels kitchen (Schmidt 1997:43). As a result of a phase II site evaluation, it was found that CA-SBR-6869H did "not constitute an important *archaeological* deposit " under CEQA definition (Schmidt 1997:45).

CA-SBR-6870H was recorded by Greenwood and Associates in 1990. The site was described as consisting of a 1929 concrete road bridge. The bridge was still in use and showed evidence of having "sustained past repairs and possible modifications" (Romani, Head and Kaptain. 1990)

CA-SBR-7019H was recorded by RMW Paleo Associates in 1991. The site was described as consisting of three holding tanks for water with a "stretch of gutter used for irrigation" surrounded by an olive orchard (Shinn 1991:15).

CA-SBR-7020H was recorded by RMW Paleo Associates in 1991. The site consisted of a concrete retaining wall with three column supports and stairs. The stairs led to a flattened area. Although it appears that the feature could represent a front porch to a house, no evidence of a foundation was seen. The groundskeeper had informed the archaeologists that it was rumored that the home had belonged to Henry E. Huntington; but no evidence of that occupation was uncovered during research at the Huntington Estate or the San Bernardino County Records archive (Shinn 1991:15-16).

CA-SBR-7021H was recorded by RMW Paleo Associates in 1991. The site consisted of a metal pipe in the hillside said to be the possible remnants of an 1885 trench constructed by the Del Rosa Water Company (Shinn 1991:16).

CA-SBR-7022H was recorded by RMW Paleo Associates in 1991. The site consisted of two native rock retaining walls against "platforms stacked on top of another" (Shinn 1991:16). A large amount of building material consisting of brick and concrete was spread over the area. Associated with the building material were two glass and one chine fragment. Two additional retaining walls were present next to the adjacent creek and another behind a modern structure (Shinn 1991:17).

CA-SBR-7049H is also known as the Rim of the World Highway. The circa 1915-1916 highway (as described on the site recording form) extended for 101 miles and consisted of a series of earlier roads dating from the turn off the century (McCarthy and Goodman 2001). The portion of the road closest to Arrowhead Springs began at Waterman Canyon and extended into the mountains.

CA-SBR-7702H contained eight structural features including remnants of the resort's former stables. The additional features represented a mortared stone foundation (probably associated with the Waterman home), foundations of the bathhouses, steams caves, and pool, a concrete cistern, and two artificial terraces. A subsurface test excavation was undertaken within four of the feature areas. The additional features were only examined from the surface because they were located within sensitive habitat areas. Those features include remains that were believed to

represent the original Waterman house; and three features thought to be remains of circa 1925 structures at the end of the access road leading to the Waterman Canyon Hot Springs: Those remains included a slab foundation that could have been a bathhouse; a circular concrete structure that was perhaps an outdoor bathing pool; and three reinforced concrete structures set into the hillside, probably remnants of the steam caves (Schmitd 1997:23-30). As a result of a Phase II site evaluation, it was found that CA-SBR-7702H did "not constitute an important *archaeological* deposit " under CEQA definition (Schmidt 1997:45).

CA-SBR-8248H consisted of a linear brick and concrete structure, a massive stone retaining wall, a brick pier, and two concentrations of refuse (Schmidt 1997:30). Approximately 500 historic era artifacts were recovered during the site evaluation; the items were representative of household refuse ascribed to a short-term or single depositional episode around 1920 to 1925. As a result of a phase II site evaluation, it was found that CA-SBR-8248H did "not constitute an important *archaeological* deposit " under CEQA definition (Schmidt 1997:45).

CA-SBR-10795H contained a circa 1940's to 1960's trash deposit. An "Emergency Phase-2 testing" of only the portion of the site determined to be within the Metropolitan Inland Feeder Project Working Limits (Williams and Hamilton 1998). The area was intended to be used as a topsoil stockpile or permanent sediment disposal area for the project. The portion of the site evaluated only contained materials manufactured between 1940 and 1960, did not contain an older buried component, and provided limited information. A denser concentration of trash appeared to be present outside of, and to the south of, the area tested (Horne 1998:2).

P1071-21-H represents a portion of the Stone Ditch Tunnel constructed in 1890. A pipeline picked up water from the lower end of the 300 foot long tunnel and carried it along the west bank of the East Twin Creek (Shinn 1991)

P1071-27-H was described as an abandoned adobe house that was later added on to. The original house appeared to have five or six rooms; the altered house contained ten rooms. Archival research conducted at the San Bernardino County Records office failed to determine when and who constructed the house (Shinn 1991).

P36-017732 is recorded as a rock and concrete flume several feet in length that was the only existing remnant of the extreme western portion of the circa 1850 to 1860 West Twin Creek Water Company system (Shinn 1991)

P36-020267 is an historic era box culvert located along Old Waterman Canyon Road (Livingstone 2004).

METHODS

SURVEY

Archaeological survey techniques included reconnaissance of previously recorded archaeological sites and previously surveyed parcels, and intensive pedestrian survey of other parcels within the project area. Joan Brown, Michael Tuma, Michael Cruz, and Luis Burgos surveyed the project

TABLE 1 CEQA Environmental Checklist For Arrowhead Springs Archaeological Sites			
Site and Description	**Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5**	**Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?**	**Would the project disturb any human remains, including those interred outside of formal cemeteries**
CA-SBR-2268 Hotel complex/ prehistoric village	Less then significant with mitigation	Less then significant with mitigation	Potentially Significant Impact: Historic gravesite and potential Native American burials.
Gazebo		Less then significant with mitigation	
Bathing Area		Less then significant with mitigation	
Barbeque and historic era trash		Less then significant with mitigation	
Historic era trash and possible foundation remains		Less then significant with mitigation	
Mano		No adverse effect	
CA-SBR6869H oven/chimney & trash		No adverse effect	
CA-SBR-6870H concrete road bridge	Less then significant with mitigation	Less then significant with mitigation	
CA-SBR-7019H holding tanks, gutter		Less then significant with mitigation	
CA-SBR-7020H retaining wall, steps, no foundation	Less then significant with mitigation	Less then significant with mitigation	
CA-SBR-7021H Possible remains of 1885 Del Rosa Water Company trench		No adverse effect	
CA-SBR-7022H retaining walls, some trash		Less then significant with mitigation	
CA-SBR-7049H Rim of the World Highway	Less then significant with mitigation	Less then significant with mitigation	

TABLE 1 CEQA Environmental Checklist For Arrowhead Springs Archaeological Sites			
Site and Description	**Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5**	**Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?**	**Would the project disturb any human remains, including those interred outside of formal cemeteries**
CA-SBR-7702H Eight structural features		No adverse effect	
CA-SBR-8248H Retaining walls, trash, historic features		No adverse effect	
CA-SBR-10795H 1940's to 1060's trash		No adverse effect	
P1071-21 1890 Stone Ditch tunnel		Less then significant with mitigation	
P1071-27 Adobe house with add-on's		No adverse effect	
P36-017732 1850-1860 rock and concrete flume		Less then significant with mitigation	
P36-020267 Historic era culvert		No adverse effect	

RECOMMENDATIONS

Prior to issuance of the first preliminary or precise grading permit, CA-SBR-2268/H (including the four newly recorded loci), CA-SBR-7019H, CA-SBR-7020H, CA-SBR-7022H, CA-SBR-7049H, P1071-21, and P36-017732 must be evaluated to determine if the sites are a "historical resource" as defined under Section 15064.5 of the CEQA Guidelines.

Evaluation for CA-SBR-2268/H (including the loci containing the barbeque and historic trash and the historic era trash and possible foundation remains located to the north of the hotel) may include, but are not limited to: archival research, photo-documentation, mapping, and surface collection of any exposed artifacts. The artifacts will be marked with a pin flag as they are encountered and the location and elevation of each measured using a transit and stadia. Each artifact will be placed in a bag and returned to the laboratory for further processing. Subsurface excavation would consist of a combination of hand auger testing to determine if subsurface artifacts are present, systematic hand excavation of units, and backhoe trenching. Excavated dirt would be screened through $1/8^{th}$ inch mesh and recovered artifacts would be labeled with the

appropriate information and returned to the laboratory for processing. Upon completion of the analysis, all of the information will be incorporated into a report.

Evaluation for CA-SBR-7019H would include but not be limited to; archival research, photographic documentation, line drawing documentation, and all of the information incorporated into a report.

The evaluations for CA-SBR-7020H and CA-SBR-7022H would include but not be limited to; archival research, photographic documentation, line drawing documentation, and backhoe trenching to determine if subsurface features or historic era trash are present. The trenching would be accomplished by a backhoe and operator under the guidance of a qualified archaeologist; the dirt would be screened through $1/8^{th}$ inch mesh; and all artifacts collected, labeled with the appropriate locational information, and returned to the laboratory for analysis. All of the resulting information would be incorporated into a report.

Evaluations for CA-SBR-7049H, P1071-21, and P36-017732 would include but not belimited to; archival research, photographic documentation, line drawing documentation, and all of the information incorporated into a report.

If upon completion of the test level investigations, the sites are determined to be "historical resources," the archaeologist shall submit their recommendations to the landowner or subsequent project applicant and the Director of Community Development on the measures that shall be implemented to protect the sites. Appropriate mitigation measures for "historical resources" could include preservation of the site through avoidance or capping, incorporation of the site in greenspace, parks or open space, data recovery excavations of the finds, or compliance with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings (1995). To the extent these sites are not preserved in place, the archaeologist shall conduct a data recovery program which includes:

> (1) Preparation of a research design for those sites determined to be "historical resources" that cannot be avoided that describes the recommended field investigations, and makes provisions for adequately recovering the scientifically consequential information from and about the "historical resource."
>
> (2) Conducting site excavations in accordance with the research design with an emphasis on obtaining an adequate sample for analysis within the limits of the research questions being addressed. Special studies such as pollen analyses, soil analyses, radiocarbon dating, and obsidian hydration dating should be conducted as appropriate.
>
> (3) Preparation of a final report of the Phase III work and submittal of the research design and final report to the South Central Coast Information Center (SCCIC), and other agencies, as appropriate.

(4) Any archaeological or historical artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Director of Community Development where they would be afforded long term preservation to allow future scientific study.

These recommendations shall have been reviewed and approved by the Director of Community Development prior to issuance of the grading permit and prior to any surface disturbance on the project site.

The recommendation for the study area are presented in the following table:

TABLE 2
Recommendations

Site and Description	Comments	Recommended Mitigation
CA-SBR-2268 Hotel complex/ prehistoric village	Registered as a County Point of Historic Interest	Avoidance if possible or: Archival research; photographic and line drawing documentation, clearance of vegetation; surface collection of any visible artifacts, backhoe trenching, hand auger testing, shovel test pits, systematic hand excavation of, laboratory analysis of artifacts; and results incorporated in a report
Gazebo	Element of CA-SBR-2268	Avoidance if possible or: Archival research; photographic and line drawing documentation; additional exploratory excavation to determine extent of features; and results incorporated in a report.
Bathing Area	Element of CA-SBR-2268	Avoidance if possible or: Archival research; photographic and line drawing documentation, additional exploratory excavation to determine extent of feature; and results incorporated in a report.
Barbeque and historic era trash	Element of CA-SBR-2268	Avoidance if possible or: Archival research; photographic and line drawing documentation, clearance of vegetation; surface collection of visible artifacts, hand auger testing, shovel test pits, systematic hand excavation of units within trash deposit, laboratory analysis of artifacts; and results incorporated in a report.
Historic era trash and possible foundation remains	Element of CA-SBR-2268	Avoidance if possible or; Surface collection of visible artifacts, backhoe trench excavation to determine if subsurface features are present, hand auger testing, shovel test pits, systematic hand excavation of units within trash deposit, laboratory analysis of artifacts; and results incorporated in a report
Mano	Element of CA-SBR-2268	None required

TABLE 2 Recommendations		
Site and Description	**Comments**	**Recommended Mitigation**
	Isolated artifact	
CA-SBR-6869H oven/chimney & trash	Evaluated by Greenwood and Associates 1997	None required
CA-SBR-6870H concrete road bridge	Recorded by Greenwood and Associates Same as recorded	None required
CA-SBR-7019H holding tanks, gutter	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; and results incorporated in a report
CA-SBR-7020H retaining wall, steps, no foundation	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; backhoe trench excavation to determine if subsurface features are present; and results incorporated in a report
CA-SBR-7021H Possible remains of 1885 Del Rosa Water Company trench	Recorded by Shinn Impacted by construction activities	None required
CA-SBR-7022H retaining walls.	Recorded by Shinn Same as recorded	Avoidance if possible or: Archival research, photographic and line drawing documentation; backhoe trench excavation to determine if subsurface features are present; and results incorporated in a report \
CA-SBR-7049H Rim of the World Highway	Recorded by McCarthy and Goodman; they state on site form that it is a Significant Road in Southern California history No apparent change.	Avoidance if possible or: Photographic and additional historic documentation
CA-SBR-7702H Eight structural features	Evaluated by Greenwood and Associates 1997. Further damage by flooding, construction	None required
CA-SBR-8248H Retaining walls, trash, historic features	Evaluated by Greenwood 1997 Heavily damaged by Inland feeder project	None required
CA-SBR-10795H 1940's to 1060's trash	Only a portion evaluated	None required

TABLE 2 Recommendations		
Site and Description	**Comments**	**Recommended Mitigation**
	Completely destroyed	
P1071-21 1890 Stone Ditch tunnel	Same as recorded	Avoidance if possible or: Photographic and additional historic documentation
P1071-27 Adobe house with add-on's	Evaluated by Shinn Fire destroyed most off add-on's and left adobe walls standing	None required
P36-017732 1850-1860 rock and concrete flume	Same as recorded	Avoidance if possible or: Photographic and additional historic documentation
P36-020267 Historic era culvert	Architectural survey found not eligible for inclusion in NRHP Same as recorded	None required

Due to the archaeological sensitivity of the area indicated by the many cultural resources, it is recommended that a qualified archaeologist monitor any ground disturbing activity during all ground disturbing activities. The monitoring archaeologist must be empowered to temporarily divert grading equipment in the event of a discovery and allow for sufficient time to evaluate and potentially remove the find.

Joan C. Brown, M.A., RPA
Senior Project Manager – Cultural Resources

Michael Tuma, M.S., RPA
Scientist – Cultural Resources

Appendix E. Site Photographs

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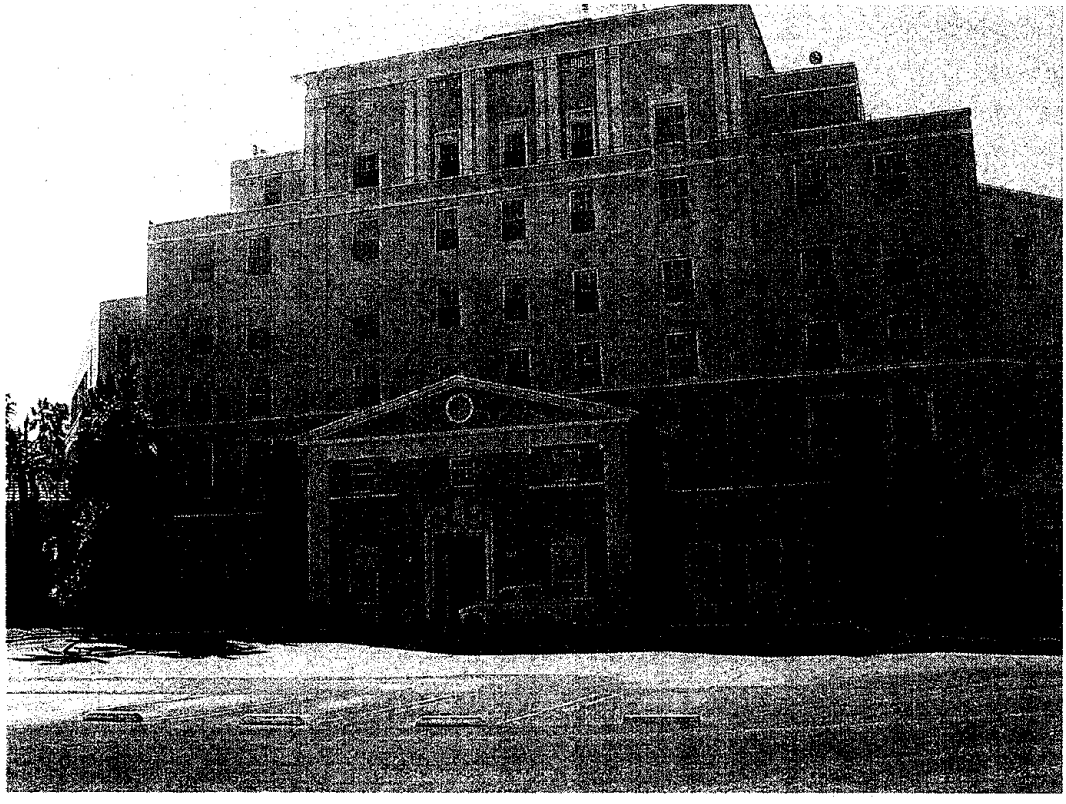
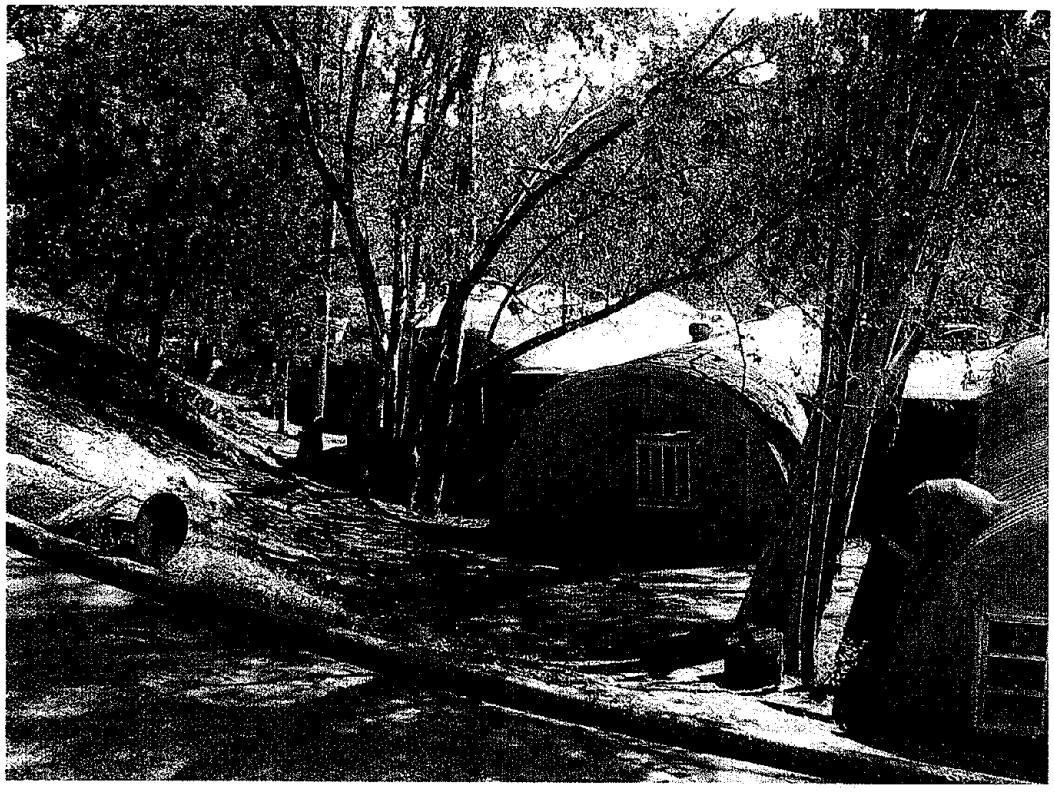
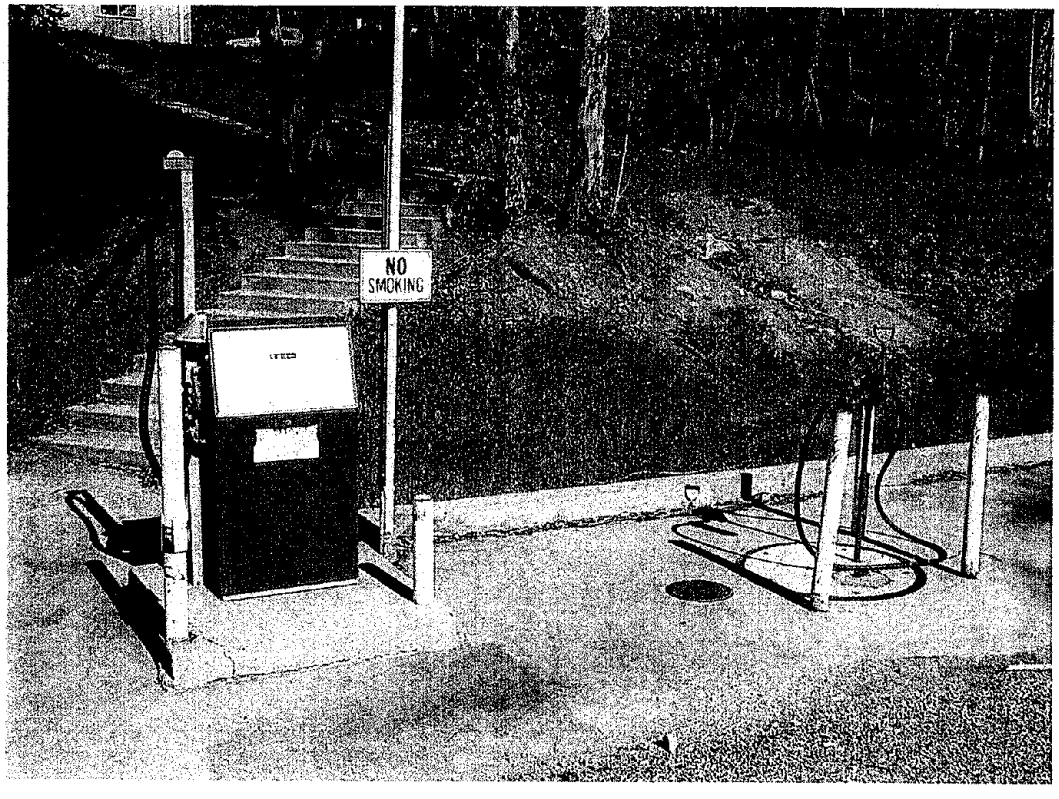


View of the hotel building located at the subject site.

View of the subject site looking toward the northeast.



View of maintenance buildings located at the subject site.

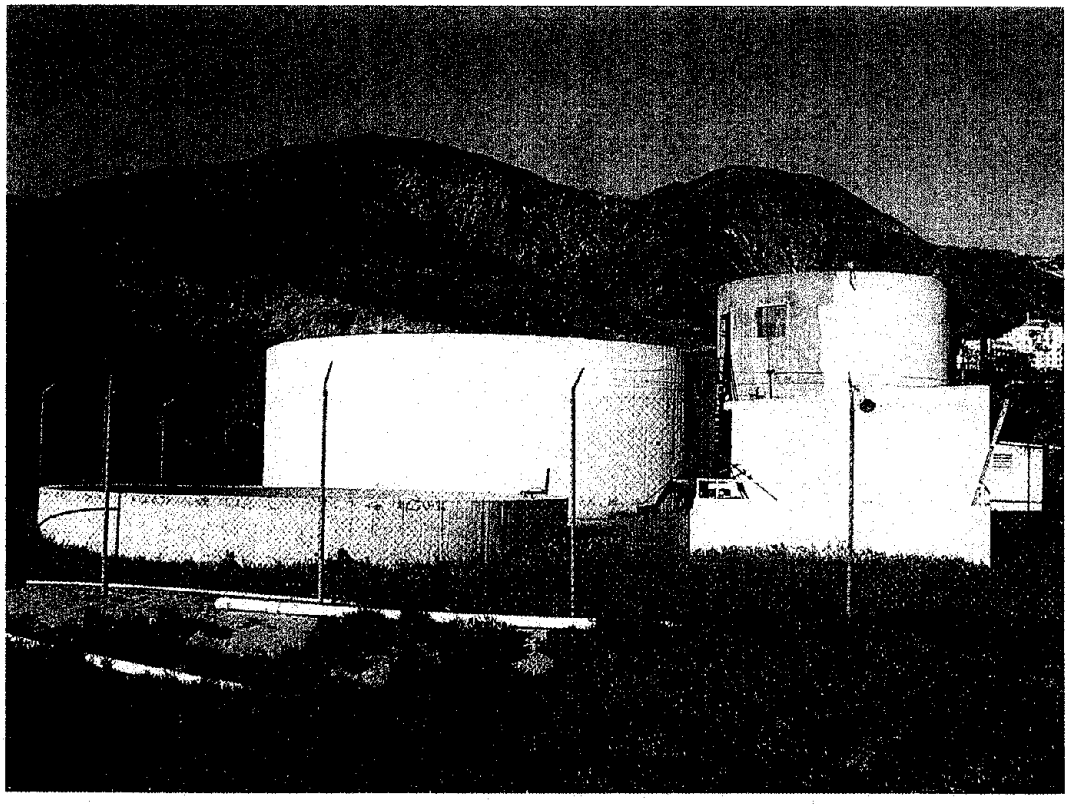


View of fueling dispensing station located at the subject site.

View of empty 55-gallon drums located near the maintenance area.

View of paint cans located near the maintenance area.

View staining and leaking near stored waste oil.



View of the sewage treatment facility located at the subject site.

Appendix F. Qualifications of Environmental Professionals

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DENISE CLENDENING, Ph.D., REA II
Director of Risk Assessment Services

Qualifications

Dr. Clendening has over 22 years of experience providing technical oversight and performing human health risk assessments, site assessments and investigations of chemical waste at Resource Conservation & Recovery Act (RCRA), Superfund, and other sites in California. Denise is adept at applying alternative methods, when possible, to identify soil, water, and air cleanup levels that are economical yet protective of human health and the environment. She applies her expertise in conducting more realistic site-specific risk assessments and calculating target soil and groundwater cleanup levels based on site-specific exposure scenarios. Her work has involved pesticides heavy metals, solvents, and petroleum contaminated soils.

Denise's experience base is wide, with experience in the development and testing of risk assessment software for the American Petroleum Institute and teaching training courses in risk assessment including the use of different risk assessment software programs. Moreover, she has established a very good reputation in working with regulatory agencies and negotiating risk-related issues on behalf of her clients. Denise is a member of the Los Angeles Regional Water Quality Control Board Underground Storage Tank Advisory Board and has extensive experience with site closure activities with the Department of Toxic Substance Control (DTSC), Environmental Protection Agency (EPA), Regional Water Quality Control Boards (RWQCB), and local oversight agencies throughout California.

Denise is a Registered Environmental Assessor II (REA II) with the State of California, which indicates that she has been certified by the State as a project manager fully capable of performing the fundamental site inspections of residential or commercial properties (the Phase I environmental site assessment and investigations), issue cleanup opinions, evaluate risk from contamination and manage the cleanup of contaminated sites. She has conducted numerous Phase I assessments and Preliminary Environmental Assessments in the State of California. She was also involved in numerous environmental projects for oil field operations while she was at Chevron Oil Field Research Company. She has managed large divestiture environmental due diligence projects for the electric power industry.

She continues to assist multiple school districts in the State of California with Phase I site assessments, preliminary environmental assessments (PEAs) and public relations. She has assisted over 25 school districts with the DTSC school site approval process and has secured numerous "no further action" determinations. Denise participates in public hearings and school board meetings and coordinated her projects with the California Environmental Quality Act (CEQA) process.

Highlights of Experience

Highlights of experience include:

- Xerox Corporation Preliminary Environmental Assessment and Health Risk Assessment, Santa Ana, CA.
- Oil Field Preliminary Environmental Assessment, Culver City, CA.
- Human Health Risk Evaluation, Literature Research for American Petroleum Institute.
- Cogeneration Facilities Permit Applications, Various Locations, CA.
- NRG Energy Environmental Due Diligence Investigations, CA.
- AES Environmental Due Diligence Work Plans, CA.

- City of Redlands Health Risk Assessment, Redlands, CA.
- Caltrans Risk Assessment and Groundwater Impact Analysis, CA. Risk Assessments and Indoor Air Sampling for Confidential Clients(s), Various Locations.
- Human Health and Ecological Risk Assessment – Technical Review, Various Locations.
- Landfill Risk Assessments, Various Locations.
- Risk Assessments for Pesticide Contaminated Soil, Various Locations.
- Human Health Risk Assessment for Confidential Mineral Resources Client, AZ.
- Human Health Risk Assessment at Whites Point Nike Missile Site, Los Angeles County, CA.
- Human Health Risk Assessment at Fort MacArthur, Los Angeles County, CA.
- Risk Assessment Training Courses.
- Lead-Based Paint Evaluations, Various Locations.

Education

- Ph.D., Soil Physics, 1988, University of California Riverside
- M.S., Soil Science, 1985, University of California, Riverside
- B.S., Geology, 1983, University of California, Riverside

Registrations

- Registered Environmental Assessor II, California No. 20130, March 2000
- 40 Hour Hazwoper OSHA certification per CFR 1910.120
- Oil Spill Response

Professional Affiliations

- Soil Science Society of America
- American Geophysical Union
- American Chemical Society
- Society of Risk Analysis
- Coalition of Adequate School Housing

MICHAEL J. WATSON
Geologist

Qualifications

Mike Watson has over two years of experience in the environmental consulting industry. He is proficient in providing field and office support to project managers performing site assessment and remediation, and has performed over 45 Preliminary Environmental Assessments (PEAs), more than 30 Phase I Environmental Site Assessments (ESAs), and over more than 25 Geohazard Studies. In addition, Mike has experience conducting air quality and industrial hygiene assessments, groundwater investigations and remedial actions. Mike has managed materials acquisition, field equipment maintenance and subcontractor coordination on large field investigation and monitoring programs.

Mike currently assists in the site assessment services program and Department of Toxic Substances Control (DTSC) school site approval process for numerous school districts throughout California. He performs Phase I ESAs, PEAs, Geohazard Studies, Supplemental Site Investigations (SSIs), Remedial Investigation (RI) Reports, Removal Action Workplans (RAWs), Feasibility Study (FS) Reports, Title 5 Compliance Studies and Fill Testing Reports, in addition to assisting with the management and conducting field investigations, assembling the project data and arranging methodical and comprehensive procedures to attain the client's goals.

Highlights of Experience

Highlights of experience include:

- **Little Lake City School District/ City of Santa Fe Springs, Jersey Athletic Fields, Santa Fe Springs, California.** Geologist responsible for geotechnical sampling, methane sampling, air quality assessment and quarterly groundwater sampling at a temporarily closed athletic field. Specific duties included describing lithology during a monitoring well installation, equipment and material acquisition, sample collection and preparation, chain-of-custody and drum list maintenance, daily monitoring equipment calibration, preparation of waste profiles and waste manifest forms, and report-quality well completion diagrams from field records.
- **Moreno Valley Unified School District, Proposed Elementary School No. 26, Moreno Valley, California.** Geologist responsible for assisting in the research and writing of a geohazard study report, a Phase I ESA, and a Phase I Addendum. In addition, performed pre-demolition lead soil sample collection, chain-of-custody maintenance and site safety monitoring at the site. Specific duties included site visits, preparation of boring logs, and interviewing landowners.
- **San Bernardino County Superintendent of Schools, Proposed Chaffey West Community School Site, Montclair, California.** Geologist responsible for assisting in the research, field work and writing of a PEA, an SSI and a RAW. The 5.1-acre site, a former orchard with active auto repair and engine rebuilder facilities, was impacted with lead and arsenic. Specific duties included researching and ordering historical resources and documents of the site, preparing draft reports, performing site visits including personnel interviews, proper soil and soil gas sample collection and preparation, chain-of-custody maintenance, description of soil properties, and site safety monitoring.
- **Colton Joint Unified School District, New High School #3 Site, Grand Terrace, California.** Geologist responsible for utility clearance, soil and soil gas sample collection and preparation, chain-of-custody maintenance, delineation of arsenic-impacted soil using

x-ray fluorescence (XRF) technology, soil removal, confirmation sampling, preparation of waste profiles and waste manifest forms, and site safety monitoring for this 65-acre site. The site comprises an active lumber processing yard, an active lumber distribution center, an active auto repair facility, an active charter bus maintenance yard, an active tow truck maintenance yard, an active landscaping service yard, an active agricultural field with row crops, an active city park, and a former underground storage tank site.

Education

- University of California, Riverside, B.S. Geology, 2002.

Professional Certification

- 40-Hour Hazardous Waste Workers (HAZWOPER) Certification, 2002.
- 24-Hour First Responders Certification, 2002.
- 8-Hour HAZWOPER Refresher Certification, 2003-2005.
- CPR/First Aid Certification, 2005.

Publications

- Watson, M.J., and S. Jorgensen, 2001, Geologic Map of the Margarita Peak 7.5' Quadrangle, San Diego County, California: A Digital Database, Version 1.0: Mapping by S.S. Tan. California Department of Conservation Division of Mines and Geology, Preliminary Geologic Map, 2001: Scale 1:24,000.
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