APPENDIX T

Phase I and II, and Records Research Report – Former Naval Air Station and Vicinity

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA) 600 ROHNERT PARK EXPRESSWAY, ROHNERT PARK, CALIFORNIA.

PHASE I ENVIRONMENTAL SITE ASSESSMENT 600 ROHNERT PARK EXPRESSWAY ROHNERT PARK, CALIFORNIA

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PHASE I ENVIRONMENTAL SITE ASSESSMENT 600 ROHNERT PARK EXPRESSWAY ROHNERT PARK, CALIFORNIA

June 18, 2002

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A Report Prepared for:

Mr. Peter Rossick
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3690 Hilborn Road
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PHASE I ENVIRONMENTAL SITE ASSESSMENT
600 ROHNERT PARK EXPRESSWAY
ROHNERT PARK, CALIFORNIA

Kleinfelder Job No: C41-5098-01/001
June 18, 2002

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1. SUMMARY

Kleinfelder, Inc. (Kleinfelder) conducted a Phase I Environmental Site Assessment (ESA) for AG Spanos Construction at a site in Rohnert Park, California. The site is being considered for the development of eight, three-story apartment buildings. Other site improvements will include landscaping, asphalt-paved parking and driveways, and a recreation complex consisting of a recreation building, swimming pool, sport court and tot-lot. This report documents the findings of Kleinfelder's assessment. In summary:

The site is located at 600 Rohnert Park Expressway on the northwest corner of the intersection of Rohnert Park Expressway and Labath Avenue and consists of three flat parcels totaling approximately 12.3 acres (Plate 1).

The site lies within the boundaries of a former Naval Air Station and over the mid-section of a former runway. It is about 1000 feet northwest of the station's fuel and hanger areas where hazardous materials were most likely stored. There is no record of releases of hazardous chemicals at the Air Station.

The Air Station runways were used as a race course from 1958 to the early 1960s. There is no record of the use or storage of fuel or hazardous chemicals during this time; however, fueling and maintenance where likely conducted occasionally. These activities were most likely conducted off-site because the site is located over the center of one of the former runways in an area where racing likely took place.

Santa Rosa Enterprises developed the site in 1977 for use by PG&E as a materials distribution center. PG&E stored electric cable, transformers and other oil-filled electrical equipment, treated wood ties and poles, diesel and gasoline fuel, and vehicles.

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A release of petroleum hydrocarbons from an underground storage tank used by PG&E contaminated soil and groundwater at the site. The tanks were removed and contaminated soil was excavated for off-site disposal. Groundwater remediation was accomplished by placement of oxygen releasing compound into one of five groundwater-monitoring wells. These efforts satisfied the corrective action requirements of the County of Sonoma Environmental Health Division, who closed the case in February 2002. A copy of the case closure summary and a no-further-action letter are included in Appendix A. The monitoring wells have since been destroyed and the borings grouted.

Petroleum hydrocarbons were detected in near-surface soil samples collected by PG&E as part of a due diligence assessment conducted near the end of PG&E's lease to determine if their operations had impacted surface soil at the site. Hydrocarbons were detected at concentrations in excess of 400 mg/kg in soil collected from the emergency oil filled equipment storage area and at one point along the north boundary of the site. The vertical and lateral extent of was not delineated. Petroleum hydrocarbons were also detected at lower concentrations in soil samples collected from around the former above ground storage tanks and in sediment samples from the oil water separators.

Petroleum hydrocarbon odors were apparent in soil beneath the asphalt during Kleinfelder's geotechnical assessment of the site. Kleinfelder's technician noted that the odor was associated with sub-base material and that it was present in borings throughout the site. The technician suspects that the sub-base material may have been treated with road oil.

Kleinfelder's assessment of 600 Rohnert Park Expressway has revealed the following Recognized Environmental Condition:

- Petroleum hydrocarbons have been released into the soil and groundwater of the site. A release associated with an underground fuel storage tank was remediated to the satisfaction of the County of Sonoma Environmental Health Division and no further action is required. Other isolated and unrelated surface releases are indicated by the detection of petroleum hydrocarbons in near-surface soil collected from other areas of the site. The lateral and vertical extent of these releases has not been delineated.

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Kleinfelder recommends a Phase II Environmental Site Assessment to evaluate the conditions of the soil and groundwater of the site. A formal request should also be submitted to the property owner and PG&E for copies of any and all documentation relating to:

- The past or present use, storage, disposal or release of petroleum products or hazardous chemicals at the site.
- Investigations conducted to evaluate potential impacts to the soil and groundwater of the site.

These documents should be reviewed as a part of the design of the Phase II Assessment.

Kleinfelder's conclusions and a summary of our findings are discussed in detail in Chapter 7. This report is subject to the limitations in Chapter 8.

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2. INTRODUCTION

AG Spanos Construction retained Kleinfelder to conduct a Phase I ESA of 600 Rohnert Park Expressway, in Rohnert Park, California, referred to here as the "site". The purpose of this assessment is to assist the client in evaluating recognized environmental conditions regarding known or suspected releases of hazardous substances on or near the subject site. A Recognized Environmental Condition is defined by the American Society of Testing and Materials (ASTM) *Standard Practice for Phase I Environmental Site Assessments, Phase I Environmental Site Assessment Process* (E1527-00), as "the presence or likely presence of hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property." Kleinfelder performed this Phase I ESA in accordance with the scope and limitations of the ASTM standard and our authorized proposal and contract 41-YP1-762, dated October 25, 2001.

2.1 REPORT FORMAT

The following sections describe Kleinfelder's work scope:

- Section 3, **Site Setting**, is a compilation of information concerning the site's location, physical setting, and geologic and hydrogeologic conditions.
- Section 4, **History of the Site**, summarizes the history of land use at the site and on adjoining properties. The history was developed by conducting interviews, reviewing information provided to Kleinfelder by the client and by consulting various resources such as aerial photographs, city or suburban directories, and historic maps.
- Section 5, **Records Review**, is a compilation of Kleinfelder's review of several databases available from the Federal, State, and local regulatory agencies regarding hazardous substance use, storage, or disposal at the subject site; and for off-site facilities up to a one-mile radius around the site. This chapter includes interviews and telephone conversations conducted by Kleinfelder with people knowledgeable about the site and local regulatory personnel.
- Section 6, **Site Reconnaissance**, describes Kleinfelder's site observations during the site reconnaissance and observations of adjacent parcels.

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- Section 7, **Findings and Conclusions**, is a presentation of our findings and conclusions regarding the information in Chapters 3 through 6; and presents our opinion regarding the presence of Recognized Environmental Conditions of concern at the site.
- Section 8 presents our **Limitations**.

Pertinent documentation regarding the subject site is included in the Appendices of this report.

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3. SITE SETTING

This section describes the condition of the site at the time the Phase I ESA was conducted, and provides information about local geologic conditions, which can affect the migration of contaminants in soil and groundwater.

3.1 SITE DESCRIPTION

The physical location of the subject site is summarized in Table 3.1. This information was obtained from maps, public records, and interviews.

TABLE 3.1: SITE SETTING

DESIGNATION	DESCRIPTION
Address	600 Rohnert Park Expressway, Rohnert Park, California 94928.
Location	The site is located approximately 3,200 feet west of Highway 101 and approximately 1.1 miles (6000 feet) north of Highway 116.
Township & Range	Township 6 North, Range 8 West.
Assessor's Parcel Number	143-391-002, 143-391-003, and 143-391-004.
Approximate Acreage	12.3 acres.
Current Use	Former PG&E materials distribution yard, which includes a one story concrete building and asphalt paved parking and storage areas.
Potable Water Supply	City of Rohnert Park Municipal Water.
Waste Water System	City of Rohnert Park Municipal Waste Water.
USGS TOPOGRAPHIC QUADRANGLE	The site is mapped on the Cotati, California 7.5 Minute Series Quadrangle as open land at an average elevation of 90 feet above mean sea level. There is one structure mapped on the site.
MUNGER MAP BOOK	According to the Munger Map Book, Page W-17, there are no oil or gas wells mapped near the site.

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3.2 SITE SOILS

Kleinfelder conducted soil borings at the site as part of a related Geotechnical assessment of the site. Kleinfelder's field technician noted a hydrocarbon odor associated with the pavement sub-base material. This condition was observed in the majority of the borings and the odor was not associated with any one area.

According to the Soil Survey of Sonoma County, California, soils at the site are mapped as Clear Lake Clay. The Clear Lake Series consists of clays that formed under poorly drained conditions. These soils are underlain by alluvium from basic and sedimentary rock. Permeability is slow, runoff is slow, and the hazard of erosion is slight.

3.3 REGIONAL AND LOCAL GEOLOGY

The site lies within the Coast Range Geologic Province of California. This province is characterized by northwest trending mountain ranges and intervening valleys, which are a reflection of the dominant northwest structural trend in bedrock of the region. The basement rock in the northwest portion of this province is dominantly highly deformed sedimentary, metamorphic and volcanic rock of the Franciscan Complex of Upper Jurassic to Cretaceous Age. In the site vicinity, these rocks have been unconformably overlain by Tertiary age, continental and marine sedimentary and volcanic rocks. Younger alluvial, colluvial and landslide deposits have overlain these, locally.

According to Geology for Planning in Sonoma County, California, the site geology is mapped as interfluvial marsh-like basin deposits that consist mainly of poorly sorted dark clay and silty clay, both rich in organic matter.

3.4 GROUNDWATER

Kleinfelder reviewed published reports and publicly available records for information on the groundwater conditions in the vicinity of the site. Groundwater data found in these reports and

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records show that groundwater depth is seasonally variable and occurs at depths of 3 to 8 feet below surface. The gradient of the groundwater surface is very flat and the direction of groundwater flow has been toward the south, southeast, west and north.

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4. HISTORY OF THE SITE

The history of the site was researched to identify obvious uses of the site from the present to first developed use, or back to 1940, whichever is earlier. The objective was to evaluate the likelihood that past uses resulted in Recognized Environmental Conditions. Table 4.1 summarizes the information reviewed during this assessment. Kleinfelder used this information to establish the site history.

TABLE 4.1: HISTORICAL INFORMATION REVIEWED

HISTORICAL SOURCE	YEARS REVIEWED	AVAILABILITY
Aerial Photographs	1953, 1961, 1971, 1980, 1990	Sonoma County Water Agency
Topographic Maps	1968, 1973, 1980,	Environmental Data Resources, Inc.
Sanborn Fire Insurance Maps	None Available	Environmental Data Resources, Inc.
City Or Suburban	Not Searched	Environmental Data Resources, Inc.
Directories (Haines Criss Cross Directory Or Polk Directory)		
Interviews		Pam Scott, Pacific Gas & Electric.

4.1 INTERVIEWS

Kleinfelder, Inc. conducted a personal interview with Pam Scott, a PG&E employee who has worked at the site for 12 years. According to Mrs. Scott, the PG&E materials distribution yard was built in 1978 or 1979 and has been used as a warehouse facility since that time. Mrs. Scott stated that she is not aware of any maintenance of vehicles or equipment that occurred at the site. When asked about the use, storage or disposal of hazardous chemicals at the site,

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Mrs. Scott referred Kleinfelder to Mrs. Debbie Fudge of PG&E. Mrs. Fudge was contacted, and stated that any questions Kleinfelder had could be answered by a due diligence report that PG&E prepared for Codding Enterprises. Kleinfelder had the opportunity to review the document; however, a copy of the text of the Due Diligence Report was not included here because the report is marked "Privileged and Confidential Attorneys Work Product" and Kleinfelder, Inc. has not received written authorization to do so.

4.2 SUMMARY OF HISTORY

Before 1941, the site and the surrounding area were used for agriculture, primarily dry-land hay. A large tract, including the site, was developed in 1941 by the federal government for use as a naval auxiliary air station. The site is located just east of the intersection of the former air station's two runways and directly over the east-west trending runway (See Plate 3). It is over 1000 feet northwest of the air station's fuel storage facilities. The Air Station operated until 1947 and then remained inactive until 1956. The air station was sold into private ownership in 1958.

From 1956 to the early 1960s, the air station's runways were used for professional drag racing and auto endurance racing. In the late 1970's Codding Enterprises developed the site for PG&E for use as a materials distribution yard. PG&E recently relocated their materials distribution yard. At the time of this assessment, the site was vacant.

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5. RECORDS REVIEW

5.1 REGULATORY AGENCY DATABASE REVIEW

The purpose of the records review is to obtain and review records that would help to reveal recognized environmental conditions at or in the area around site.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or waste, or are known locations of a release of hazardous substances. These databases are available for review or purchase at the regulatory agencies, or they can be obtained through a commercial database service. Kleinfelder contracted with a commercial database service, Environmental Data Resources, Inc., to review the agency lists for references to the site and any listings within the appropriate ASTM minimum search distance from the site. The executive summary and maps from the database search report are included in Appendix A, Regulatory Agency Database Summary. The federal and state databases reviewed are summarized on Table 5.1.

TABLE 5.1: RECORDS REVIEWED/SEARCH DISTANCES

LIST	SEARCH RADIUS	FINDINGS
FEDERAL		
NPL	1 - mile	None Listed.
CERCLIS	½ - mile	None Listed.
CORRACTS	1 - mile	1 Listed.
RCRIS-TSD	½ - mile	None Listed.
RCRIS-GEN	¼ - mile	1 Listed.
ERNS	Target Property	None Listed.
STATE		
BEP, AWP	1 – mile	None Listed.
CAL-SITES	1 – mile	1 Listed.
CORTESE	1 – mile	21 Listed.
LUST	½ – mile	6 Listed.
UST	¼ - mile	3 Listed.
SLIC	½ – mile	None Listed.
SWIS	½ – mile	None Listed.

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A summary of facilities listed in the databases is presented in the executive summary of the EDR report, and each facility is cross-referenced with a radius map showing the location of the listed facility with respect to the subject property (Appendix A). Kleinfelder conducted a review of the EDR report to assess which listings have a significant potential to impact the subject property. Factors used to screen the listed properties include distance to the site, geology, presumed or known direction of groundwater flow, type and magnitude of hazardous material release, and nature of sensitive receptors. Those considered to have a significant potential to impact the site were then subjected to a file review at appropriate regulatory agencies (discussed in Section 5.2, below).

The site was listed in the databases reviewed. There was one facility adjacent to the site listed. Kleinfelder reviewed the files for the site and the adjacent facility at SCDEH. In summary:

600 Rohnert Park Expressway

UST Removal

According to a Sonoma County Environmental Health Division Case Closure Summary, in July 1992 a 6000-gallon underground storage tank that contained diesel fuel and a 1000-gallon underground storage tank that contained unleaded gasoline were removed from the site. The former location of the tanks is shown on Plate 1. Confirmation soil and groundwater sampling indicated the presence of diesel fuel, xylene, and ethylbenzene at concentrations of 9,000 mg/kg, 0.009 mg/kg and 0.009 mg/kg respectively.

On July 29, 1992, approximately 800 cubic yards of soil were excavated to a depth of 12 feet below ground surface. Sixteen soil samples were collected from the sidewalls of the excavation. Diesel fuel and oil and grease were detected in three of these samples, at a depth of 8-9 feet below ground surface. These areas were over-excavated on August 10, 1992 and three additional soil sidewall samples were obtained for analysis. None of the previously detected constituents were detected above the laboratory limits of detection.

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On March 24 and 29, 1993, four monitoring wells were installed at the site. Sixteen soil samples from the installation of these wells were analyzed for petroleum hydrocarbons as gasoline, diesel and benzene, toluene, ethylbenzene, and xylene. Analysis of the soil samples collected from MW-1 revealed 2.3 mg/kg gasoline, 120-mg/kg diesel and 0.0091 mg/kg xylene. None of the other soil samples from the monitoring well borings contained constituents above the laboratory limits of detection. As a result, oxygen release compound was installed in monitoring well MW-1. An additional monitoring well, MW-5, was installed in November of 1995.

The site was granted closure by SCDEH on February 11, 2002, after analytical results of the last four quarters of groundwater sampling events did not detect constituents above the laboratory limits of detection. A Case Closure Summary states that the corrective actions taken at the site protect existing and potential beneficial uses of the site as they relate to the Regional Water Quality Control Boards Basin Plan. In addition, the summary states that there are not site management requirements, and that this action should not be reviewed if the land use changes..

Due Diligence Report of Findings

In October 2001, Uribe and Associates (U&A) performed due diligence sampling at the Pacific Gas and Electric Company Materials Distribution Center in Rohnert Park, California. The findings of the due diligence investigation were published in a report titled, "Report of Findings, Due Diligence Sampling, Pacific Gas and Electric Company, Materials Distribution Center Site, Rohnert Park, California, dated February 2002. Kleinfelder was provided an opportunity to review this document but did not retain or include a copy of the report because it is marked "privileged and confidential, attorney's work product" and Kleinfelder did not have written permission to do so.

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The investigation focused on five areas, the fuel island area, the oil-filled equipment storage area, the hazardous waste storage area, the oil-water separator sumps and the asphalt lot drainage areas. The soil investigation of these areas revealed the following:

- Surface soil samples collected in the immediate area of the former above ground fuel storage tank area detected xylenes at a concentration of 0.77 mg/kg and TPH-d at a concentration of 210 mg/kg.
- Soil samples collected from approximately 1.5 to 2.0 feet below paved ground surface in the oil-filled equipment area detected TPH-d at concentrations up to 4,400 mg/kg respectively.
- Soil samples collected from approximately 1.5 to 2.0 feet below paved ground surface in the hazardous waste storage area detected toluene at a concentration of 0.013 mg/kg.
- Two water samples and two sediment samples were collected from the oil-water separator sumps. TPH-d was detected in the water at a maximum concentration of 500 ug/l and in the sediment at a maximum concentration of 35 mg/kg.
- Surface soil samples collected from the landscape areas immediately adjacent to the asphalt-paved surface water drainage points, on the north side of the site, detected TPH-d at a maximum concentration of 540 mg/kg.

6100 Labath Avenue

In May 1998 a release of unleaded gasoline was discovered at 6100 Labath Avenue, which is located approximately 50 feet east of the subject site. The facility lies up-gradient of the site relative to the reported groundwater flow direction. Groundwater was not encountered during this investigation. However, the general groundwater direction is believed to be to the west-northwest toward the Laguna de Santa Rosa.

Assessment activities conducted by Herzog and Associates, Inc. have established the extent of affected soil and groundwater. The findings indicate that unleaded gasoline was not released to the soil and therefore, groundwater has not been affected.

Based on these results, it is Kleinfelder's opinion, the suspected release of unleaded gasoline at 6100 Labath Avenue does not have the potential to affect soil and groundwater conditions at the subject site since neither soil or groundwater has been affected.

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5.2 REGULATORY AGENCY CONTACTS

Local and state regulatory agencies were contacted for reasonably ascertainable and practically reviewable information regarding recognized environmental conditions present at or adjacent to the site. The information was obtained by interviewing agency representatives or reviewing local agency records.

TABLE 5.2: AGENCY CONTACTS SUMMARY

AGENCY	CONTACT	DATE	TYPE OF INFORMATION AND RESULTS
City of Rohnert Park Building Department	Staff	1/10/01	The City of Rohnert Park Building Department has a file for the site. There was no information relating to the use, storage or disposal of hazardous materials in the file.
City of Rohnert Park Fire Department	George Brannen	11/10/01	The City of Rohnert Park Fire Department has a file for the site. The file contained information regarding the former above ground storage tanks.
Sonoma County Office of Emergency Services	Staff	11/10/01	Sonoma County Office of Emergency Services has a file for the site. The file was not reviewed however, since the Sonoma County Department of Environmental Health was the lead agency for the site.
Sonoma County Department of Environmental Health	Staff	11/10/01	Sonoma County Department of Environmental Health has a file for the site. The information contained in the file is summarized in the previous section.

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6. SITE RECONNAISSANCE

Kleinfelder representative, Toby P. Goyette, conducted a site reconnaissance on May 16, 2002 to assess and photograph present site conditions. The approximate parcel and site boundaries and color photographs of the site are shown on Plate 1, "Site Plan" and Plate 2, "Site Photographs." The site boundaries were visually estimated using the parcel map provided by the client. Site conditions discussed below are limited to readily apparent environmental conditions observed on the date of site reconnaissance.

6.1 ON-SITE OBSERVATIONS

Kleinfelder's site reconnaissance of 600 Rohnert Park Expressway indicated the past use, storage or release of hazardous chemicals. Site observations revealed:

- Five former groundwater monitoring wells.
- The former presence of above ground storage tanks.
- The location of former equipment staging area that includes two oil-water separators.

Kleinfelder located the former monitoring wells, which are not present. Surface expansions suggest that they have been destroyed and grouted. There is no evidence of a past spill or release on the asphaltic concrete surrounding the former above ground storage tanks or former equipment staging area.

Two oil-water separators on either side of the equipment staging area were nearly full at the time of the site visit. Metal plates prevented full access to the oil-water separators, and Kleinfelder could not observe the condition of the water.

Site observations are further described in Table 6.1.

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TABLE 6.1: SITE OBSERVATIONS

POTENTIAL CONCERN	OBSERVED	NOT OBSERVED	REMARKS
Hazardous substances and petroleum products	X		Hazardous chemicals were stored in above ground storage tanks and on concrete pads at the site.
Hazardous waste storage		X	
Storage tanks (above or underground)	X		Two former aboveground storage tanks existed in the southwest corner of the site.
Odors		X	
Pools of liquid		X	
Containers/Drums		X	
Electric equipment		X	
Other utilities		X	
Elevators		X	
Chemical storage or mixing areas	X		Oil filled equipment was formerly stored in two designated storage areas, See Plate 1.
Stained soil or pavement		X	
Drains, sumps, clarifiers	X		Two oil water separators were observed on either side of the former oil-filled equipment storage area.
Stressed vegetation		X	
Solid waste		X	
Waste water		X	
Wells	X		Five former monitoring wells were observed along the fence line east of gate #1.
Septic systems		X	
Buried or burned debris		X	
Pipeline markers		X	
Possible Fill Material		X	

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6.2 OFF-SITE OBSERVATIONS

Kleinfelder conducted a brief drive-by survey of the parcels adjacent to the site on the same day as the site reconnaissance. Kleinfelder did not observe evidence of the use, storage or disposal of hazardous materials at these parcels.

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7. CONCLUSIONS

Kleinfelder performed this Phase I ESA in accordance with the scope and limitations of ASTM Practice E1527-00. The purpose of this assessment was to evaluate the likelihood of recognizable environmental conditions resulting from the present or past usage, storage, or disposal of hazardous substances or petroleum hydrocarbons at the subject site and in the surrounding area. Kleinfelder's findings and conclusions are presented below.

7.1 FINDINGS

Kleinfelder's Phase I ESA of 600 Rohnert Park Expressway revealed the following:

The site lies within the boundaries of a former Naval Air Station and over the mid-section of a former runway. It is about 1000 feet northwest of the station's fuel and hanger areas where hazardous materials were most likely stored. There is no record of releases of hazardous chemicals at the Air Station.

The Air Station runways were used from 1958 to the early 1960s as an auto racing track. There is no record of the use or storage of fuel or hazardous chemicals during this time; however, fueling and maintenance were likely conducted occasionally. These activities most likely were conducted off-site because the site is located over the center of one of the former runways in an area where racing likely took place.

Santa Rosa Enterprises developed the site in 1977 for use by PG&E as a materials distribution center. PG&E stored electric cable, transformers and other oil-filled electrical equipment, treated wood ties and poles, diesel and gasoline fuel, and vehicles.

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A release of petroleum hydrocarbons from an underground storage tank used by PG&E contaminated soil and groundwater at the site. The tanks were removed and contaminated soil was excavated for off-site disposal. Groundwater remediation was accomplished by placement of oxygen releasing compound into one of five groundwater monitoring wells. These efforts satisfied the corrective action requirements of the County of Sonoma Environmental Health Division, who closed the case in February 2002. A copy of the case closure summary and a no-further-action letter are included in Appendix A. The monitoring wells have since been destroyed and the borings grouted.

Petroleum hydrocarbons were detected in near-surface soil samples collected by PG&E as part of a due diligence assessment conducted near the end of PG&E's lease to determine if their operations had impacted surface soil at the site. Hydrocarbons were detected at concentrations in excess of 400 mg/kg in soil collected from the emergency oil filled equipment storage area and at one point along the north boundary of the site. The vertical and lateral extent of these impacts were not delineated. Petroleum hydrocarbons were also detected at lower concentrations in soil samples collected from around the former above ground storage tanks and in sediment samples from the oil water separators.

Petroleum hydrocarbon odors were apparent in soil beneath the asphalt during Kleinfelder's geotechnical assessment of the site. Kleinfelder's technician noted that the odor was associated with sub-base material and that it was present in borings throughout the site. The technician suspects that the sub-base material may have been treated with road oil.

7.2 SIGNIFICANCE OF FINDINGS

Kleinfelder's assessment of 600 Rohnert Park Expressway has revealed the following Recognized Environmental Conditions:

- Petroleum Hydrocarbons have been released into the soil and groundwater of the site. A release associated with an underground fuel storage tank was remediated to the satisfaction of the County of Sonoma Environmental Health Division and no further action is required. Other isolated and unrelated surface releases are indicated by the detection of petroleum

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hydrocarbons in near-surface soil collected from other areas of the site. The lateral and vertical extent of these releases has not been delineated.

7.3 CONCLUSIONS AND RECOMMENDATIONS

Kleinfelder recommends a Phase II Environmental Site Assessment to evaluate the conditions of the soil and groundwater of the site. A formal request should also be submitted to the property owner and PG&E for copies of any and all documentation relating to:

- The past or present use, storage, disposal or release of petroleum products or hazardous chemicals at the site.
- Investigations conducted to evaluate potential impacts to the soil and groundwater of the site.

These documents should be reviewed as a part of the design of the Phase II Assessment.

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8. LIMITATIONS

Phase I ESAs are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. The attached report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help you understand and better manage your risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service that will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

The scope of work on this project was presented in our proposal 41-YP1-762 dated October 25, 2001 and subsequently approved by Mr. Peter Rossick. Please be aware our scope of work was limited to those items specifically identified in the proposal. Environmental issues not specifically addressed in the proposal or this report were beyond the scope of our work and not included in our evaluations.

Kleinfelder performed this environmental site assessment in general accordance with the guidelines set forth in the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation E-1527-00). No warranty, either express or implied is made.

Land use, site conditions (both on-site and off-site) and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings and opinions can be considered valid only as of the date of the site visit. This report should not be relied upon after 180 days from the date of its issuance (ASTM Standard E-1527-00, Section 4.5).

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Any party other than the client who would like to use this report shall notify Kleinfelder of such intended use by executing the "Application for Authorization to Use" contained in Appendix D of this document. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

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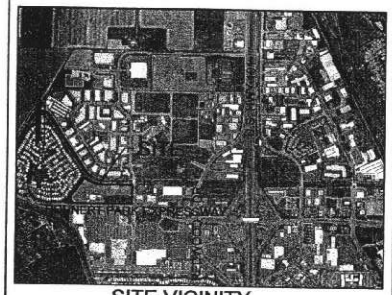
PLATES

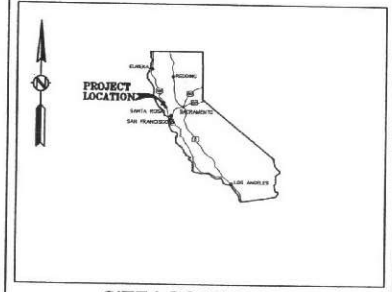
EXPLANATION

① Photo Location & View Direction

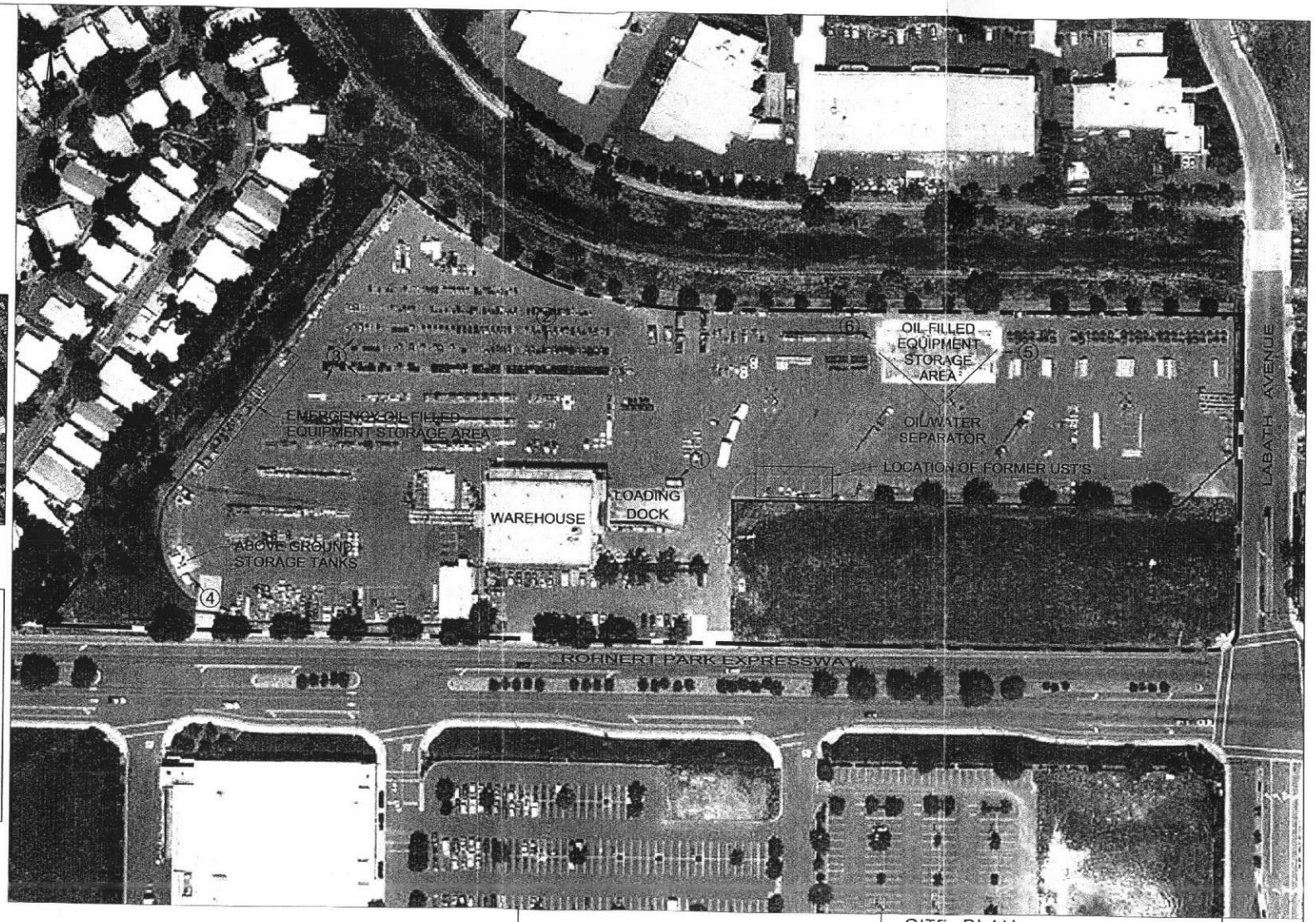
Approximate Site Boundary



SITE VICINITY
NOT TO SCALE



SITE LOCATION
NOT TO SCALE



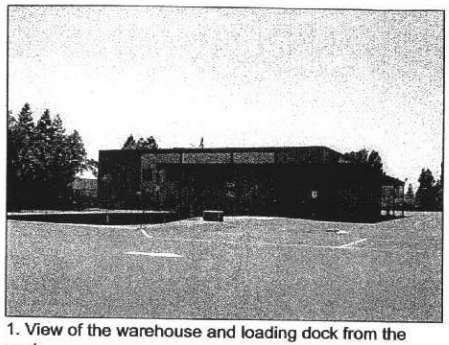
120 60 0 120
scale feet

KLEINFELDER

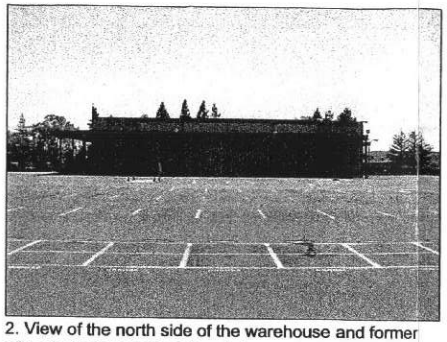
PROJECT NO. C41-5098-01/001 DATE JUN 2002

SITE PLAN
600 Rohnert Park Exressway
Rohnert Park, California

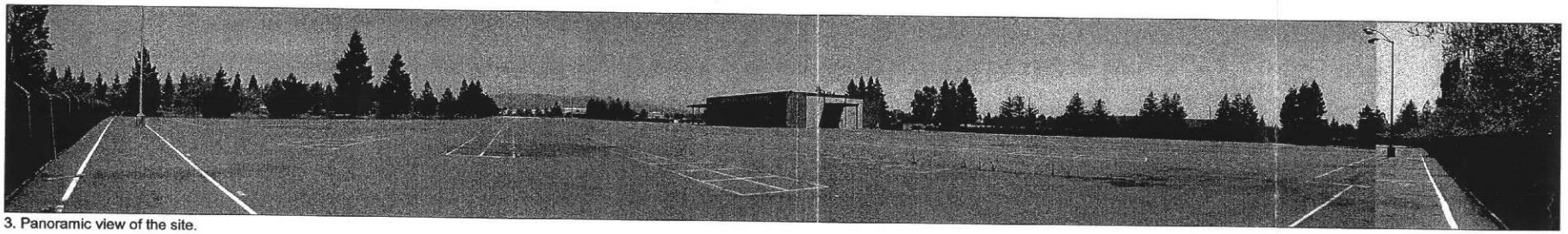
PLATE
1



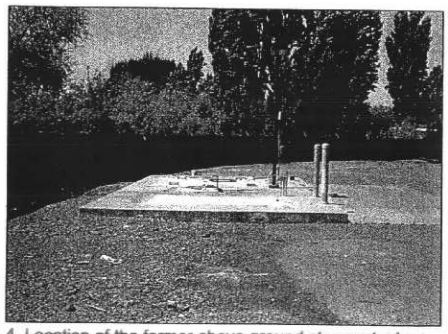
1. View of the warehouse and loading dock from the east.



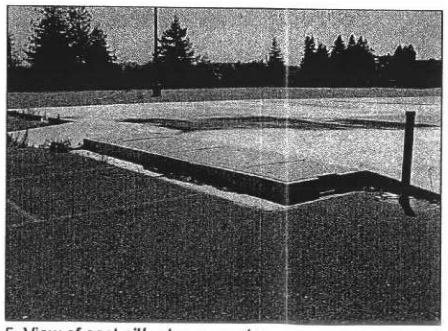
2. View of the north side of the warehouse and former wire storage area in parking lot.



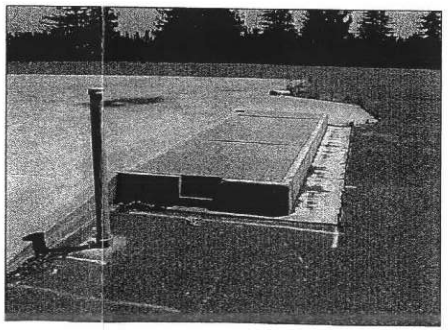
3. Panoramic view of the site.



4. Location of the former above ground storage tanks.



5. View of east oil/water separator.



6. View of west oil/water separator.

KLEINFELDER

PROJECT NO. C41-5098-01/001 DATE JUN 2002

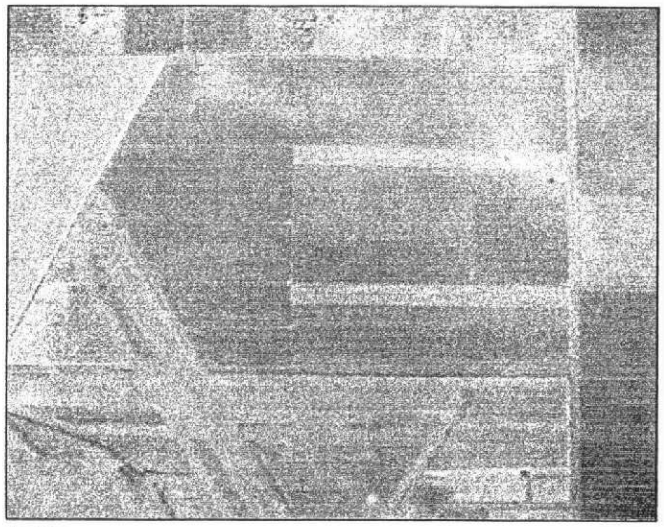
SITE PHOTOGRAPHS

600 Rohnert Park Expressway

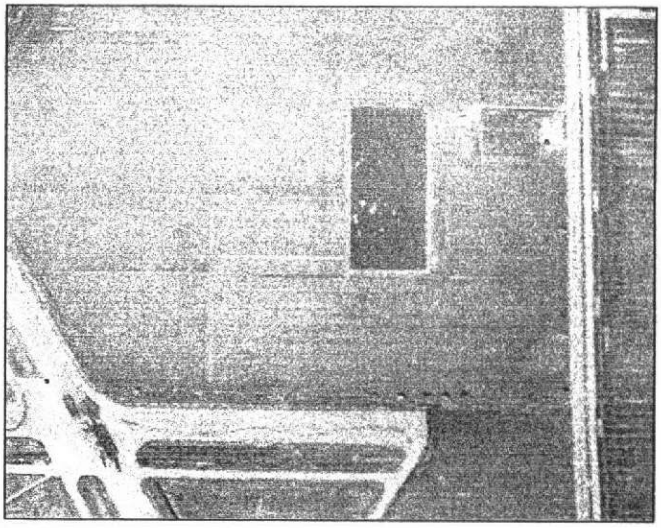
Rohnert Park, California

PLATE

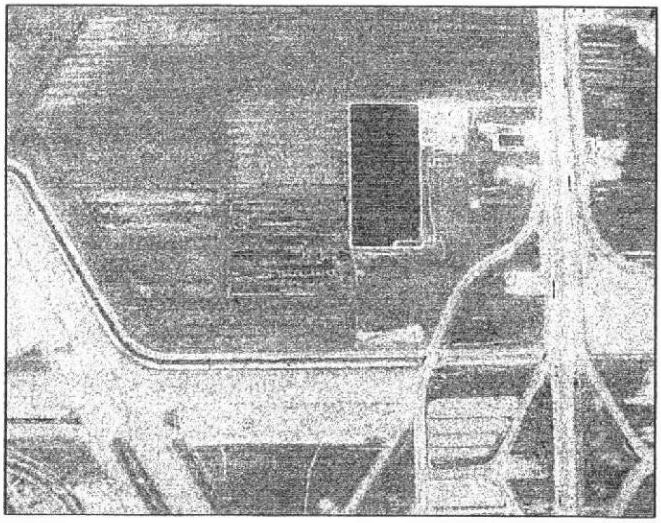
2



1953

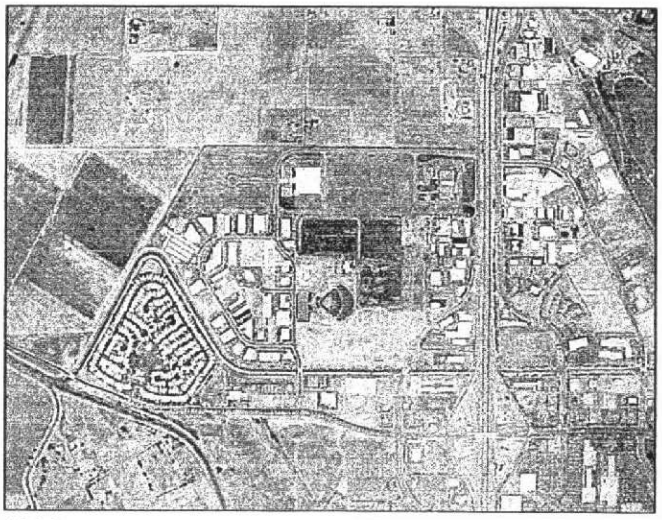


1961

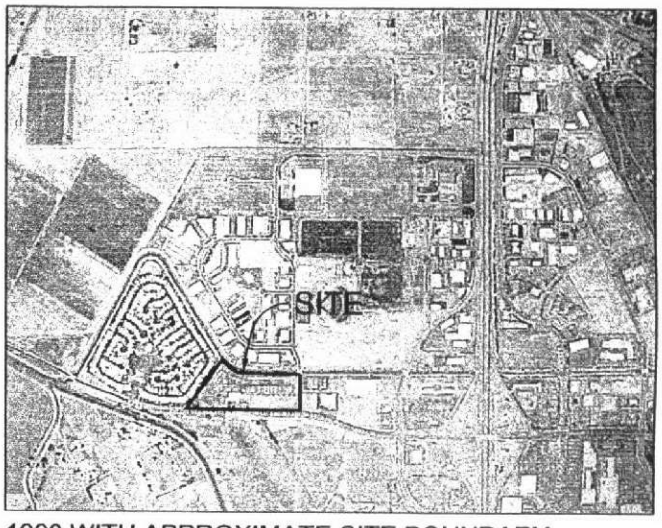


1971

1980



1990



1990 WITH APPROXIMATE SITE BOUNDARY

KLEINFELDER

PROJECT NO. C41-5098-01/001 DATE JUNE 2002

HISTORICAL AERIAL PHOTOGRAPHS

600 Rohnert Park Expressway

Rohnert Park, California

PLATE

3

APPENDIX A

COUNTY of SONOMA
DEPARTMENT OF HEALTH SERVICES
Mark A. Kostielney - Director

Environmental Health Division
Jonathan J. Krug - Director

February 11, 2002

PG &E
111 Stony Point Circle
Santa Rosa, CA 95401-9599

Attention: Debora Fudge

Codding Enterprises
P. O. Box 6655
Santa Rosa, CA 95406

Attention: Mr. Reginald Bayley

Re: 600 Rohnert Park Expressway, W., Rohnert Park, California
Site #00001351, NCRWQCB #1TSO513

Dear Ms. Fudge and Mr. Bayley:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

JONATHAN J. KRUG, R.E.H.S.
Director of Environmental Health

Case Closure Summary

Leaking Underground Fuel Storage Tank Program

COPY

I. Agency Information Date: 07/19/01

Agency name:	Sonoma County Dept. Health Services	Address:	3273 Airway Drive., Suite D
City/State/Zip:	Santa Rosa, CA 95403	Phone:	(707) 565-6574
Responsible staff person:	Cliff Ives	Title:	Senior Environmental Health Specialist

DEPARTMENT OF HEALTH SERVICES
SEP 24 2001
ENVIRONMENTAL HEALTH DIVISION

II. Case Information

Site facility name: PG&E Materials Yard				
Site facility address: 600 Rohnert Park Expressway W., Rohnert Park, CA				
RB LUSTIS # 1TS0513	SWEEPS # NA	LOP #00001351	URF filing date: 07/09/92	Local # NA

Responsible party	Address	Phone number
PG&E, Attention Debora Fudge	111 Stony Point Circle, Santa Rosa, CA 95401-9599	
Codding Enterprises	P.O. Box 6665, Santa Rosa, CA 95406	(707) 584-7550

Original in Conf. Env.

Tank #	Size in gal.	Contents	Closed-in-place/removed
1	6,000	Diesel	Removed
1	1,000	Unleaded gasoline	Removed

III. Release and Site Characterization Information

Cause and type of release: Piping leak		
Site characterization complete? Yes		Date approved by oversight agency: 07/17/01
MW installed? Yes	Number: 5	Proper screened interval: Yes. MWs-1, 2,3,4,5 screened from 5- 20 ft.
Highest GW depth BGS: 2.89 ft	Lowest depth: 7.91 ft	Flow direction: Reported south, southeast, west and, most recently, north.
Most sensitive current use: MUN (Water basin). No supply wells are located within 1/4 mi. of the release.		
Are drinking water wells affected? No.		Aquifer name: Laguna de Santa Rosa
Is surface water affected? No		Nearest SW name: Laguna de Santa Rosa Flood Control Channel is located approx. 500 ft south of the site.
Off-site beneficial use impacts (addresses/locations): None		
Report(s) on file? Yes	Where is report(s) filed: Sonoma County Department of Health Services	

Treatment and Disposal of Affected Material

Material	Amount (include units)	Action (treatment or disposal w/ destination)	Date
Tank	2 each	West Coast Metals	07-09-92
Piping	Unknown		
Free product	N/A		
Soil	800+ cu yds	Disposed at Vasco Rd Sanitary Landfill, Livermore, CA	09-23-92
Groundwater	42,000 gal	Discharged to City of Santa Rosa sanitary sewer	09-23-92 (Authorized)
GW Purge	2, 080 gal	Disposed at Evergreen Oil, Inc., Newark, CA	02-02-93 to 05-11-01
Barrels	Unknown		

COPY

Case Closure Summary (07/19/01 p.2)

III. Release and Site Characterization Information (continued) **Site Address: 800 Rohnert Park Expressway W., Rohnert Park**

Maximum Documented Contaminant Concentrations–Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (gas)	ND*	2.3****	0.07***	<0.05	Xylene	0.009*	0.0091****	0.001*	<0.0005
TPH (diesel)	9,000*	120****	130*	<0.05	Ethylbenzene	0.009*	ND**	<0.0005*	<0.0005
Benzene	ND*	<0.005**	ND*	<0.0005	Oil & grease	51**	ND***	ND***	NS
Toluene	ND*	<0.005**	ND*	<0.0005	Heavy metals	NS	NS	NS	NS
Lead	NS	NS	NS	NS	MTBE	NS	NS	NS	<0.005

Comments (depth of remediation, etc.): NS = Not Sampled ND = Non-Detect

* Soil samples taken 07/09/92 from side walls of tank pit during tank removal and water samples taken from the tank pit.

** Sidewall samples taken 07/29/92 following overexcavation of approx. 800 cu yds of soil to a depth of 12 ft.

Samples taken 08/20/92 following additional excavation. * Samples taken 03/24/93 during MW installation.

Other Water (ppm); Kerosene 0.270 (4-2-93), 0.160 (7-28-93) (No further testing), PAHs ND (4-9-98), Motor oil, B/A <0.05/<0.05

IV. Closure

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site management requirements: None

Should corrective action be reviewed if land use changes? No

Monitoring wells decommissioned? No	Number decommissioned: 0	Number retained: 5

List enforcement actions taken: None

List enforcement actions rescinded: Not Applicable

V. Local Agency Representative Data

Name: Jonathan J. Krug	Title: Director of Environmental Health
Signature: Jonathan J. Krug	Date: 7-19-01

VI. RWQCB Notification

Date submitted to RB: 8/19/01	RB Response: Concur	
RWQCB staff name: Barm Lamb	Title: ASE	Date: 9/21/01

VII. Additional Comments, Data, etc.

The tanks were removed on 07/09/92. Soil and water sampling indicated the presence of TPHd, Xylene, and Ethylbenzenn (see above). On 07/29/92, approx. 800 cu yds of soil were excavated to a depth of 12 ft. Sixteen soil samples were collected from the sidewalls of the excavation. TPHd and Oil and Grease were detected in three of these samples at a depth of 8-9ft. These areas were then overexcavated on 08-10-92. Three additional soil sidewall samples were taken and were ND. No bottom samples were taken. On March 24 and 29, 1993, four MWs were drilled. Sixteen soil samples from 4 borings were analyzed for TPHg TPHd and BTEX. Soil samples from BH-A (MW-1) had 2.3ppm TPHg, 120ppm TPHd and .0091 ppm Xylene. All other soil samples were ND. ORC was installed in MW-1. MW-5 was installed on 11/30/95. Results from the last four quarter groundwater sampling events have been ND for all constituents tested. MTBE was ND in MW-1 on 01/07/00.

P.05

THE FUEL OIL POLISHING COMPANY – BAY AREA

19338 SOLANO COURT • SONOMA, CA 95476 • (707) 935-1700

CA Cont. Lic. #683645
Trademark (TM) Registration Pending for ENHANCE, REVIVE, REMOVING & RESTORE

RECEIVED
AUG 25 1992
HAZARDOUS MATERIALS

Attention: Linda Pool
MPH
P. O. Box 1921
Santa Rosa, CA 95402

TO WHOM IT MAY CONCERN

THE UST STORAGE TANK LISTED BELOW TO BE DESTROYED FOR SCRAP

NON-D.O.T. REGULATED MATERIAL, NON-HAZARDOUS, GAS FREE

Tank I.D. No.: Diesel Size: 6,000 Gallons

FROM THE JOB SITE LOCATED AT:

Owners Name: P. G. & E.

Location: 600 Rohnert Park Expressway
Rohnert Park, CA 95428

Telephone: (707) 577-7254

Tank was de-gassed and triple pressure washed on-site on July 8, 1992. Tank to be destroyed and recycled as scrap metal.

LEL: Less Than 0.1 % OXY More than 20 % Safe for Fire Yes 24 hr 7-8-92
Test method - Visual and Gas Tech 1314

For additional information - FOPCO-BA (707) 935-1700,

Washed/Certified by: FOPCO-BA Technician

Hauled By: FOPCO BA

Destination: West Coast Metals
10439 Old Redwood Highway
Windsor, CA 95492

Received By: [signature] Date: 7/8/92

RECEIVED

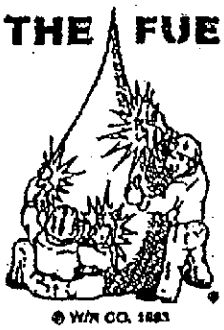
AUG 25 1992

HAZARDOUS MATERIALS

THE FUEL OIL POLISHING COMPANY – BAY AREA

19338 SOLANO COURT • SONOMA, CA 95476 • (707) 935-1700

CA Cont. Lic. 568043
Trademark (TM) Registration:
Pending for ENHANCE, REVIVE,
PETRO-VIVE & RESTORE



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Washed/Certified by: FOPCO-BA Technician

Hauled By: FOPCO BA

Destination: West Coast Metals
10439 Old Redwood Highway
Windsor, CA 95492

Received By: [signature] Date: 7/8/92

Prop 65

CONTINUATION OF OFFICIAL INSPECTION REPORT

PAGE: ___ OF ___
DATE: 8 July 92
PROGRAM:
SITE COMPUTER#

SITE NAME: PG&E

SITE ADDRESS: 600 Rohnert Park Expressway

onsite 1:00

MTH FOPCO & PG&E onsite
Linda Abo' & Debbie Fudge
respectively. Pulling 2 USTs
1-6000 diesel and 1-1000 gal gas
Both tanks have been cleaned &
& washed with resulting LEL of 0.
6K diesel has no obvious holes but
tar wrap has dissolved from upper
portion of the tank with trench pit
and water impacted/instr. with RECVA
wants to pump the water and sample
recharge water if any. 1K gas has no
obvious holes tar wrap was degrading
however. Trace of water in gas pit
No piping samples required. 2 so. 1
samples per pit Hydraulic line broke
on crane leg & sprayed gas tank pit
(coating sand & S) and possible diesel pit.
TPH D BTEX diesel TPH G BTEX gas
1 water sample of diesel pit recharge
Side wall samples in unsaturated zone or the
bottom unsaturated zone samples. Hydraulic
sprayed sand/asphalt stored separate
from overburden and sampled for ...
Pit will be barricaded off (in locked fence
enclosure). Stockpile on & covered V. Squire

INSPECTOR ... RECEIVED BY: ...

APPENDIX B

The EDR Radius Map
with GeoCheck®

[redacted]

[redacted]

[redacted]

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

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

FORM.SMO

TABLE OF CONTENTS

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

600 ROHNERT PARK EXPRESSWAY
ROHNERT PARK, CA 94928

COORDINATES

Latitude (North):	38.349900 - 38° 20' 59.6"
Longitude (West):	122.724400 - 122° 43' 27.8"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	524082.2
UTM Y (Meters):	4244467.5

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2438122-C6 COTATI, 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
P G & E 600 ROHNERT PARK EXPY W ROHNERT PARK, CA 94928	LUST	N/A
ROHNERT PARK MATERIALS CTR. 600 ROHNERT PARK EXPRESSWAY WE ROHNERT PARK, CA 94928	HIST UST	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
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

STATE ASTM STANDARD

AWP..... Annual Workplan Sites
Toxic Pits..... Toxic Pits Cleanup Act Sites
SWF/LF..... Solid Waste Information System
WMUDS/SWAT..... Waste Management Unit Database
CA BOND EXP. PLAN..... Bond Expenditure Plan

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
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
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
CLEANERS..... Drycleaner Facilities
CA WDS..... Waste Discharge System
CA SLIC..... Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

EDR PROPRIETARY DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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

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

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

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/27/2001 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SAFETY- KLEEN CORP 7-178-03	*5750 COMMERCE BLVD*	*1/2 - 1 NE*	*J41*	*41*

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

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
INTERIOR FINISHING	*619 MARTIN AVE UNIT 4*	*0 - 1/8 NE*	*8*	*10*

STATE ASTM STANDARD

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

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

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SAFETY- KLEEN CORP 7-178-03	*5750 COMMERCE BLVD*	*1/2 - 1 NE*	*J41*	*41*

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

A review of the CHMIRS list, as provided by EDR, and dated 12/31/1994 has revealed that there are 2 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	6145 COMMERCE BLVD.	1/2 - 1 ENE	31	33
Not reported	ROHNERT PARK EXPHY /	1/2 - 1 E	H33	34

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

A review of the Cortese list, as provided by EDR, has revealed that there are 21 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DISALVO TRUCKING	*CARLSON COURT 650*	*1/8 - 1/4 NE*	*E14*	*15*
JC PENNY, FORMER TBA FACI	*539 MARTIN*	*1/4 - 1/2 N*	*23*	*23*
ALVARADO BAKERY	*MARTIN AVENUE 500*	*1/4 - 1/2 N*	*24*	*23*
PG&E ROHNERT PARK MATERIALS	*ROHNERT PARK EXPRESS 60*	*1/4 - 1/2 ESE*	*25*	*24*
101 INTERNATIONAL, INC.	*6100 REDWOOD*	*1/4 - 1/2 E*	*26*	*26*
DISCOVERY OFFICE SYSTEMS	*5800 REDWOOD DR*	*1/2 - 1 ENE*	*27*	*29*
ST. VINCENT DE PAUL	5676 REDWOOD	1/2 - 1 ENE	G28	31
ROHNERT PARK TREATMENT PLANT	*REDWOOD DRIVE 5661*	*1/2 - 1 NE*	*G29*	*31*
~~*COLONIAL PARK, INC.*~~	~~*REDWOOD HIGHWAY, OLD 56*~~	~~*1/2 - 1 NE*~~	~~*30*~~	~~*32*~~
TEXACO (COMMERCE, 6301)	6301 COMMERCE	1/2 - 1 E	H32	34
CODDING ENTERPRISES	100 ENTERPRISE	1/2 - 1 ESE	34	34
WILLOW TREE STABLES	*6067 GILMORE AVE*	*1/2 - 1 SW*	*35*	*34*
ROHNERT PARK TOWING	*STATE FARM DRIVE 5500*	*1/2 - 1 NE*	*I36*	*35*
DUNN'S DIESEL SERVICE	*STATE FARM DRIVE 5531*	*1/2 - 1 NE*	*I37*	*36*
YOUNG AMERICA HOMES	*COMMERCE BOULEVARD 5800*	*1/2 - 1 NE*	*J38*	*38*
FORMER BMC WEST (YARDBIRDS)	*5300 COMMERCE BLVD*	*1/2 - 1 NE*	*39*	*39*
WEYERHAEUSER-COMMERCIAL DOOR	*STATE FARM DRIVE 5600*	*1/2 - 1 NE*	*40*	*40*
SAFETY- KLEEN CORP 7-178-03	*5750 COMMERCE BLVD*	*1/2 - 1 NE*	*J41*	*41*
BIG 4 RENTS ROHNERT PARK	*5500 COMMERCE BLVD*	*1/2 - 1 NE*	*42*	*47*
PACIFIC BELL	*6000 STATE FARM DR*	*1/2 - 1 ENE*	*44*	*50*
EMPIRE EQUIPMENT CO LP	*5380 COMMERCE BLVD*	*1/2 - 1 NE*	*45*	*52*

NOTIFY 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FORMER BMC WEST (YARDBIRDS)	*5300 COMMERCE BLVD*	*1/2 - 1 NE*	*39*	*39*
ARCHITECTURAL DOOR DIVISION	5600 STATE FARM DRIVE	1/2 - 1 ENE	43	49

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

A review of the LUST list, as provided by EDR, and dated 08/07/2001 has revealed that there are ~~8~~ 5 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CALIFORNIA HIGHWAY PATROL	*6100 LABATH AVE*	*1/8 - 1/4 E*	*C10*	*12*
DI SALVO TRUCKING	~~650 CARLSON CT~~	1/8 - 1/4 NE	E13	15
DISALVO TRUCKING	*CARLSON COURT 650*	*1/8 - 1/4 NE*	*E14*	*15*

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ALVARADO BAKERY	*MARTIN AVENUE 500*	*1/4 - 1/2 N*	*24*	*23*
PG&E ROHNERT PARK MATERIALS	*ROHNERT PARK EXPRESS 60*	*1/4 - 1/2 ESE*	*25*	*24*
101 INTERNATIONAL, INC.	*6100 REDWOOD*	*1/4 - 1/2 E*	*26*	*26*

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

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

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CALIFORNIA HIGHWAY PATROL	6100 LABATH AVE	1/8 - 1/4 E	C9	12

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

A review of the CA FID UST list, as provided by EDR, has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CALIFORNIA HIGHWAY PATROL	*6100 LABATH AVE*	*1/8 - 1/4 E*	*C10*	*12*
DISALVO TRUCKING	650 CARLSON	1/8 - 1/4 NE	E15	17

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DI SALVO TRUCKING CO.	650 CARLSON COURT, LAGU	1/8 - 1/4 NE	E16	17

STATE OR LOCAL ASTM SUPPLEMENTAL

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

A review of the HAZNET list, as provided by EDR, has revealed that there are 15 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HARLAN PRINTING	643 MARTIN AVE. #1	0 - 1/8 N	B3	6
SALINAS PRINTING	643 MARTIN AVE #1	0 - 1/8 N	B4	7

EXECUTIVE SUMMARY

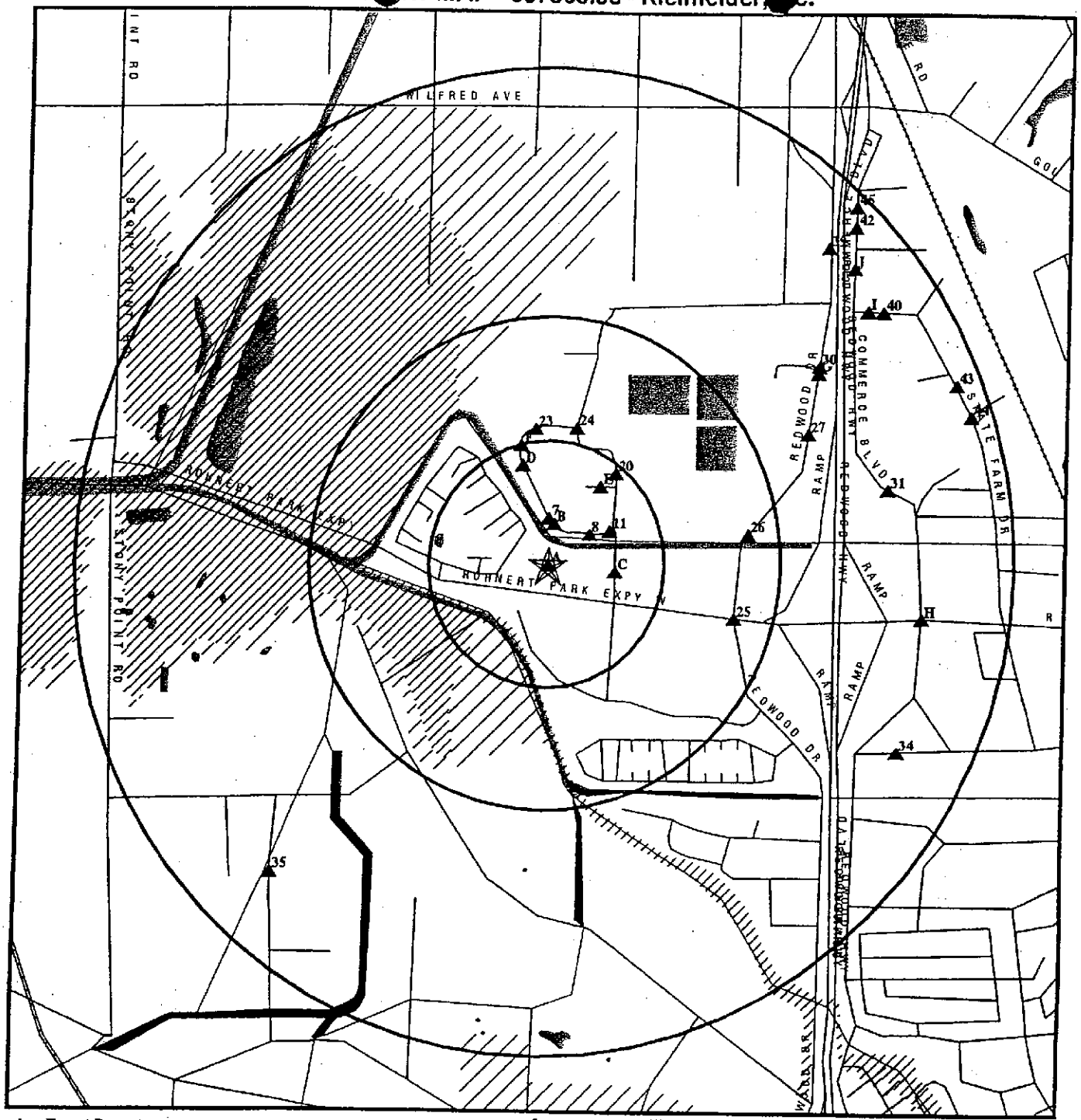
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
TAYLOR FINE HOMES	642 MARTIN AVE #1	0 - 1/8 N	B5	8
ALED AUTO/TRUCK REPAIR INC.	538A MARTIN AVE	0 - 1/8 N	B6	9
MASTERWORK ELECTRONICS, INC.	630 MARTIN AVENUE	0 - 1/8 N	7	10
INTERIOR FINISHING	***619 MARTIN AVE UNIT 4***	***0 - 1/8 NE***	***8***	***10***
CALIFORNIA HIGHWAY PATROL	***6100 LABATH AVE***	***1/8 - 1/4 E***	***C10***	***12***
SONOMA WOOD FINISHING	637 MARTIN AVE STE 1	1/8 - 1/4 ENE	11	13
GREATER WORKS PRINTING & GRAPH	586 MARTIN AVE,#1	1/8 - 1/4 NNW	D12	14
TRINITY ENGINEERING INC	583 MARTIN AVE	1/8 - 1/4 NNW	D17	18
SERAPHIM ROSE PRESS INC	621 CARLSON CT #6	1/8 - 1/4 NE	E18	19
AUTOCRAFT EMPORIUM	578 MARTIN AVE	1/8 - 1/4 NNW	D19	19
SONOMA COUNTY WASTE MANAGEMENT	5900 LABATH ROAD	1/8 - 1/4 NE	20	20
RPM ENGINES & MACHINE	560 MARTIN ST	1/8 - 1/4 NNW	F21	21
RPM MACHINE AND SUPPLY	560 MARTIN AVE	1/8 - 1/4 NNW	F22	22

EXECUTIVE SUMMARY

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

Site Name	Database(s)
[redacted]	[redacted]
COTATI BEER GARD/LASKER KNOLLS	LUST, Cortese
[redacted]	[redacted]
HINES SIGNS	CA FID UST, LUST
SHELL	LUST
[redacted]	[redacted]
CHEVRON #9-1912	LUST
ARCO AM-PM MINI-MART/FAC #1341	UST
ROHNERT PARK MATERIALS FAC.	AST
GOODE PRINTING & MAILING	HAZNET
EMPIRE MAGNETICS INC	HAZNET
LIFEFORMS INTERNATIONAL INC.	HAZNET
AM PRINTING	HAZNET
GAMBIT CORPORATION	HAZNET
RANCHO COTATI HIGH SCHOOL	HAZNET
PRICE CLUB #144	HAZNET
SONOMA COUNTY WASTE MANAGEMENT AGENCY	HAZNET
ECLIPSE DIGITAL PRINTING & FREE PRESS	HAZNET
EXPRESS STOP PHOTO (TARGET #0352)	HAZNET
VETSMART PET HOSPITAL & HEALTH CTR #47	HAZNET
SERVICEMASTER	HAZNET
CLASSIC SCREEN PRINTING	HAZNET
SABEK INC	HAZNET
PARKING LOT AT US HWY 101 PARK AND RIDE	ERNS
ROHNERT PARK AT RANCHO VERDE MHP	ERNS

OVERVIEW MAP - 697363.3s - Kleinfelder, Inc.



★ Target Property

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

◆ Sites at elevations lower than the target property

▲ Coal Gasification Sites (if requested)

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

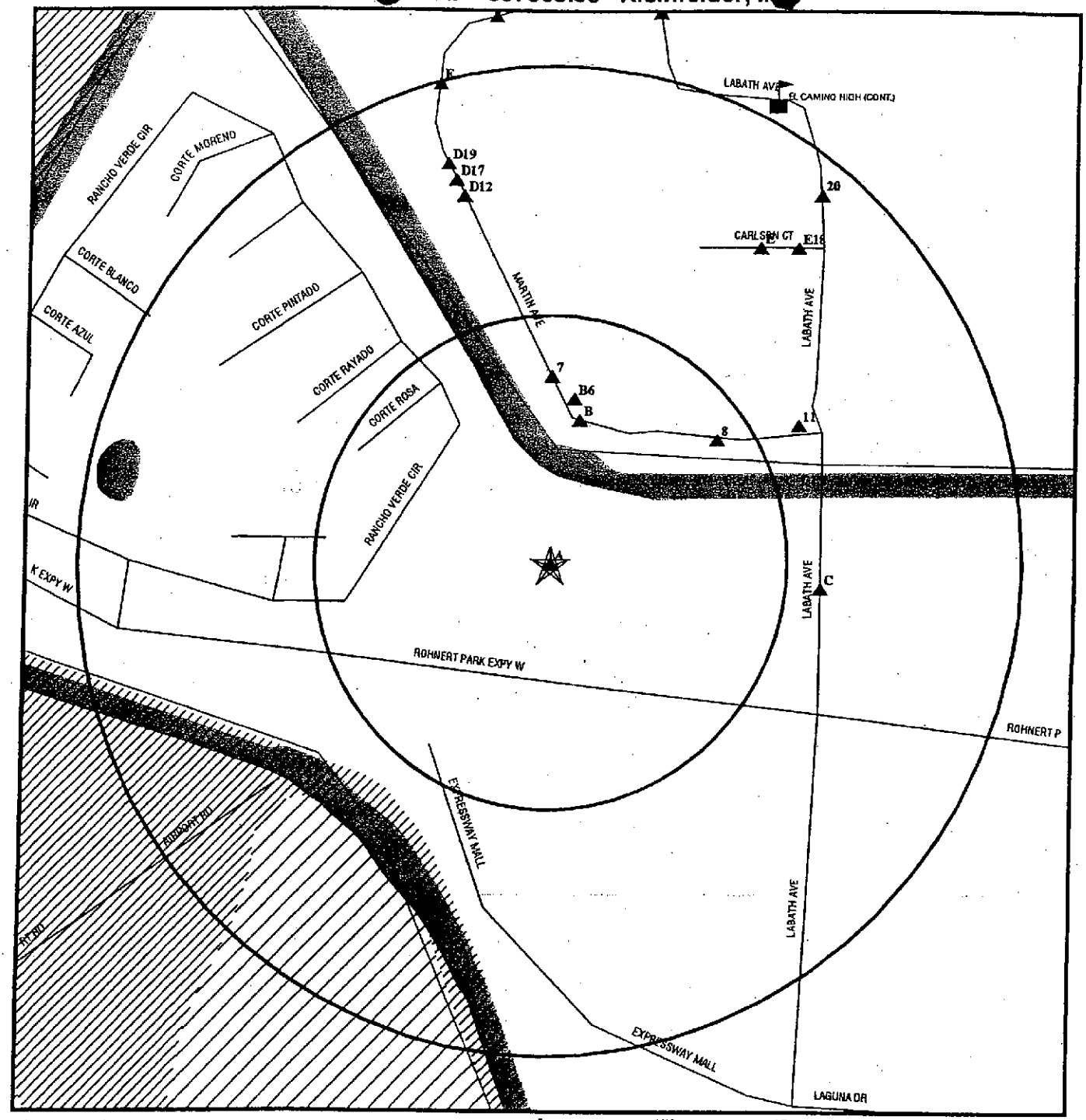
500-year flood zone

Wetlands

Areas of Concern

TARGET PROPERTY:	600 Rohnert Park Expressway	CUSTOMER:	Kleinfelder, Inc.
ADDRESS:	600 Rohnert Park Expressway	CONTACT:	Toby Goyette
CITY/STATE/ZIP:	Rohnert Park CA 94928	INQUIRY #:	697363.3s
LAT/LONG:	38.3499 / 122.7244	DATE:	October 30, 2001 7:12 am

DET[illegible]L MAP - 697363.3s - Kleinfelder, I[illegible]



★ Target Property

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

◆ Sites at elevations lower than the target property

Coal Gasification Sites (if requested)

Sensitive Receptors

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Wetlands

Areas of Concern

TARGET PROPERTY:	600 Rohnert Park Expressway	CUSTOMER:	Kleinfelder, Inc.
ADDRESS:	600 Rohnert Park Expressway	CONTACT:	Toby Goyette
CITY/STATE/ZIP:	Rohnert Park CA 94928	INQUIRY #:	697363.3s
LAT/LONG:	38.3499 / 122.7244	DATE:	October 30, 2001 7:12 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	0	NR	NR	NR	1
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	1	NR	1
CHMIRS		1.000	0	0	0	2	NR	2
Cortese		1.000	0	1	4	16	NR	21
Notify 65		1.000	0	0	0	2	NR	2
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	3	3	NR	NR	6
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	1	NR	NR	NR	1
CA FID UST		0.250	0	2	NR	NR	NR	2
HIST UST	X	0.250	0	1	NR	NR	NR	1
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CLEANERS		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA WDS		TP	NR	NR	NR	NR	NR	0
CA SLIC		0.500	0	0	0	NR	NR	0
HAZNET		0.250	6	9	NR	NR	NR	15
EDR PROPRIETARY DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

APPENDIX C

APPLICATION FOR AUTHORIZATION TO USE
PHASE I ENVIRONMENTAL SITE ASSESSMENT
600 ROHNERT PARK EXPRESSWAY
ROHNERT PARK, CALIFORNIA

Kleinfelder Project Number C41-5098-01/001
June 18, 2002

TO: Kleinfelder, Inc.
2240 Northpoint Parkway
Santa Rosa, California 95407

FROM: (Please clearly identify name and address of person/entity applying for permission to use or copy this document)

Applicant _____ hereby applies for permission to:
(State here the uses(s) contemplated)

for the purpose(s) of:
(State here why you wish to do what is contemplated as set forth above)

Applicant understands and agrees that the "Phase I Environmental Site Assessment, 600 Rohnert Park Expressway, Rohnert Park, California" is a copyrighted document, that Kleinfelder, Inc. is the copyright owner and that unauthorized use or copying of this Report is strictly prohibited without the express written permission of Kleinfelder, Inc. Applicant understands that Kleinfelder, Inc. may withhold such permission at its sole discretion, or grant such permission upon such terms and conditions as it deems acceptable such as the payment of a re-use fee.

Dated: _____ _____
Applicant

_____ _____
Name

_____ _____
Title

Copyright 2002, Kleinfelder, Inc.

PHASE II ESA 600 ROHNERT PARK EXPRESSWAY, ROHNERT PARK, CALIFORNIA.

Environmental Site Assessment
600 Rohnert Park Expressway
Rohnert Park, California

RECEIVED
OCT 17 2002
CITY OF
ROHNERT PARK

KLEINFELDER
An employee owned company

Environmental Site Assessment
600 Rohnert Park Expressway
Rohnert Park, California

September 19, 2002

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A Report Prepared for:

Mr. Peter Rossick
AG Spanos Construction
3690 Hilborn Road
Fairfield, California 94533

PHASE II ENVIRONMENTAL SITE ASSESSMENT
600 ROHNERT PARK EXPRESSWAY
ROHNERT PARK, CALIFORNIA

Kleinfelder Job No.: C41-5098-01/002

Prepared by:

221

Peter Dellavalle
Senior Project Manager

Bradley Erskine
Environmental Group Manager

KLEINFELDER, INC.
2240 Northpoint Parkway
Santa Rosa, California 95407
(707) 571-7531

September 19, 2002

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TABLE OF CONTENTS

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1.0 INTRODUCTION

Kleinfelder Inc. (Kleinfelder) was retained by AG Spanos Construction to assess if soil and groundwater beneath 600 Rohnert Park Expressway (site) in Rohnert Park, California (Plate 1) has been impacted by historic site uses and to evaluate if development activities will involve the handling of potentially contaminated soil. AG Spanos Construction is considering purchase of the property and is planning on developing eight, three-story apartment buildings at the site.

Kleinfelder's assessment of soil and groundwater conditions at the site included the following:

- Obtaining necessary permits and utility location clearance for drilling.
- Advancing 18 borings on-site to 9 feet below ground surface (bgs).
- Collecting representative soil samples from each boring and groundwater from selected borings.
- Analyzing the soil and groundwater samples for hydrocarbon constituents, common solvents, and PCBs.
- Reviewing data collected during the investigation to assess if the site had been impacted by a past release of hazardous substances.

This report documents the fieldwork performed at the site, presents the results of the laboratory analysis, and evaluates the significance of the findings.

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2.0 BACKGROUND

The following sections provide a description and history of the site.

2.1 SITE DESCRIPTION

The approximately 10.2-acre site is located at 600 Rohnert Park Expressway just west of Labath Avenue and south of Hinebaugh Creek Channel, in Rohnert Park, California. A former PG&E equipment yard covers the majority of the site. The perimeter of the equipment yard is completely fenced and structures on-site include a one-story, concrete building with associated below-grade concrete loading area and dock. The remainder of the yard is primarily covered with asphalt concrete pavement and has been graded to maintain positive flow to an underground subsurface drainage system. A large concrete slab-on-grade containment structure with oil separators is located in the northeast corner of the site. The extreme southeast corner of the site is currently an undeveloped open field. Vegetation on the site consists of a moderate growth of native and volunteer annuals in the open field and mature redwood trees in planters around the site.

2.2 SITE HISTORY

Prior to the 1940s, the site was used for agriculture. In 1941, the site was developed for use as a naval auxiliary air station. The east-west trending runway of the former Air Station passed directly through the site. The runway intersected with a north-south trending runway located just east of the site. Fuel storage facilities associated with the Air Station were located over 1000 feet from the site. The Air Station was closed in 1947 and remained inactive until 1956 when use of the runways was changed to auto racing. The Air Station was sold into private ownership in 1958 and continued to operate as a racing facility into the early 1960s.

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In the late 1970s, the site was developed by Codding Enterprises for use by PG&E as a materials distribution yard. PG&E recently relocated their activities and the site became vacant.

2.3 PREVIOUS INVESTIGATIONS

In 2001 PG&E conducted an investigation of the site to document conditions at the termination of their lease. Uribe and Associates conducted the investigation and documented the findings in a February 2002 report titled: *Due Diligence Report PG&E Rohnert Park Materials Distribution Center Site*. Uribe sampled soil in areas where hazardous chemicals were handled and around the down-gradient edges of the site. Uribe's sample locations are shown on a plate included in Appendix A. The results of analysis are summarized in a table that is also included in Appendix A.

The Uribe investigation found petroleum hydrocarbons in shallow soil samples at several locations in concentrations in excess of 400 mg/kg (the remediation goal used locally). The investigation did not establish the vertical or horizontal extent of the petroleum hydrocarbons. However, Uribe performed chromatographic profile analysis of the hydrocarbons and found that they were not similar to the products used at the site by PG&E. They concluded that the presence of the hydrocarbons was not the result of a release by PG&E and conducted no further investigation.

In 2002, Kleinfelder conducted Geotechnical and Phase I Environmental Site Assessments of the site as well as this investigation. Petroleum hydrocarbon odors were apparent in soil beneath the asphalt during Kleinfelder's geotechnical assessment of the site. Kleinfelder's technician noted that the odor appeared to be associated with sub-base material and that it was present in borings throughout the site. The technician suspected that the sub-base material may have been treated with road oil prior to placement of asphalt.

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2.4 SITE GEOLOGY

The site is located within the Coast Range Geologic Province of California, characterized by northwest trending mountain ranges and intervening valleys. The basement rock in the northwest portion of this province is dominantly highly deformed sedimentary, metamorphic, and volcanic rock of the Franciscan Complex of Upper Jurassic to Cretaceous age. In the site vicinity these rocks have been unconformably overlain by Tertiary age, continental, and marine sedimentary and volcanic rocks. Younger alluvial, colluvial and landslide deposits have overlain these, locally.

According to the Soil Survey of Sonoma County, California, soils at the site are mapped as Clear Lake Clays, which consist of clays that are formed under poorly drained conditions. These soils are underlain by alluvium from basic and sedimentary rock.

Fill consisting of stiff to hard silt and clay with variable amounts of sand and gravel was encountered in the borings drilled for the geotechnical study. Fill thickness varied from one to three feet. Native materials encountered at the site typically consisted of one to four feet of residual clay soil with varied amounts of sand.

2.5 SITE HYDROLOGY

Kleinfelder reviewed published reports and publicly available records for information on the groundwater conditions in the vicinity of the site. Groundwater data found in these reports and records show that groundwater depth is seasonally variable and occurs at depths of 3 to 8 feet below ground surface (bgs). The direction of groundwater flow has been toward the south, southeast, west, and north.

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3.0 FIELD INVESTIGATION

On July 18 and 19, 2002, Kleinfelder conducted a field investigation at the site. The following sections describe Kleinfelder's field investigation methods and observations. Analytical results and their interpretation are summarized in Sections 4 and 5 of this report.

3.1 LOCATION SELECTION

Kleinfelder used three objectives to select locations for soil borings: *confirmation*, *targeted* and *survey grid* locations. Seven *confirmation* locations were selected in areas where the Uribe investigation detected hydrocarbons and additional samples or analyses were necessary to evaluate the extent of impact. Eight *targeted* locations were proposed in areas where potential contamination may exist but no borings had been advanced previously. Three *survey grid* locations were selected by overlaying an approximately 325 square foot grid and placing one boring location in each quadrant where there were no other borings.

3.2 UTILITY CLEARANCE

Prior to drilling, Kleinfelder contacted Underground Service Alert (USA) and member utility companies marked utility lines in and around the drilling area.

3.3 DRILLING AND SAMPLING OF SOIL BORINGS

A subsurface soil and groundwater investigation was conducted at the site on July 18 and 19, 2002. The following sections describe the drilling, sampling, decontamination, and site restoration procedures followed during this investigation.

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3.3.1 Drilling and Sampling Methodology

Under the direction of Kleinfelder, Precision Sampling of Richmond, California advanced 18 borings up to 10 feet bgs at the site on July 18 and July 19, 2002. The borings were advanced by direct push technology using a 2-inch inside diameter split-spoon sampler lined with buterate sleeves. Upon recovery of the drill interval, the soil was logged under the supervision of Kleinfelder's Registered Geologist using the Unified Soil Classification System (USCS). Boring logs are provided in Appendix B.

Kleinfelder collected four soil samples from each boring by selecting the buterate sleeves terminating at the following sampling intervals: 0.5, 1.5, 3.5, and 6.5 feet bgs. The sleeves were then sealed at each end with Teflon wrap and plastic caps. Additionally, grab groundwater samples were collected from 10 of the 18 borings. Following the completion of the boreholes selected for groundwater collection, a temporary PVC casing was inserted in the borehole and grab groundwater samples were collected with disposable bailers and transferred into sampling containers. The temporary casing was removed upon completion of the sampling and the borehole was grouted. Immediately following their collection, the soil and groundwater samples were labeled with a unique sample identification number including the date and time of sample collection. This information, along with the sample matrix and selected analyses, was also recorded on the chain-of-custody record. The soil and groundwater samples were then sealed in a plastic bag, stored in an iced cooler for shipment, and transported to McCampbell Analytical Laboratory in Pacheco, California standard using chain-of-custody protocols.

3.3.2 Equipment Decontamination

Sampling equipment used during the advancement of each borehole was cleaned prior to drilling and between locations using a pressure washer. Soil and decontamination water were retained in 55-gallon drums on site pending laboratory results for proper disposal.

3.3.3 Site Restoration

Following completion of each boring, the boreholes were backfilled with grout.

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3.4 LABORATORY ANALYSIS

McCampbell Analytical analyzed the soil and groundwater samples on a standard seven-day turn around basis. The analyses performed at the locations were selected to evaluate the presence of petroleum products or hazardous chemical that were used at that location and that, if released, could have affected the soil and groundwater of the site. The analyses requested for each sample is shown on the sample schedule matrix in Appendix B and may have included any of the following:

- Total petroleum hydrocarbons (TPH) as diesel (TPH-d) and TPH as motor-oil (TPH-mo) using modified EPA Test Method 8015.
- TPH as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert butyl ether (MTBE) using EPA Test Method 8015.
- Halogenated volatile organic compounds (VOCs) using EPA Test Method 8260.
- Semi-volatile organic compounds (SVOCs) using EPA Test Method 8270.
- Poly-chlorinated biphenols (PCBs) using EPA Test Method 8080.

McCampbell Analytical is certified by the State of California to perform these tests.

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4.0 RESULTS OF FIELD INVESTIGATION

The results of the soil and groundwater chemical analyses are included in Appendix C and are summarized in Tables 1 and 2, respectively. The results were compared to the Regional Water Quality Control Board's Risk-Based Screening Levels (RBSL), which are intended to be protective of human health and surface and groundwater quality. RBSLs are not regulatory standards, but are screening or guidance levels intended to assist with further evaluation of sites within the risk-based corrective action approach.

4.1 SOIL SAMPLING ANALYTICAL RESULTS

TPH-g was detected in six soil samples collected from six borings at a maximum concentration of 480 mg/kg (Boring B-5N-1). TPH-g was only detected in the 0.5-foot bgs sample intervals. One sample, collected at Boring B-5N-1, exceeded the RBSL for TPH-g of 100 mg/kg. TPH-d was detected in 33 samples collected from 17 borings at a maximum concentration of 2,300 mg/kg (Boring B5N-1). Seven of the samples collected exceeded the RBSL of 100 mg/kg for TPH-d. These exceedances were detected in the 0.5-foot bgs sampling intervals. TPH-mo was detected in 30 samples collected from 16 borings at a maximum concentration of 3,300 mg/kg (Boring B5N-1). Ten of the samples collected exceeded the RBSL of 500 mg/kg for TPH-mo. These exceedances were detected in the 0.5-foot bgs sample with the exception of one sample collected at the 1.5-feet bgs sample interval at location C-10N-2.

BTEX compounds were reported above laboratory reporting limits in the 0.5-foot bgs sampling interval only. Toluene was detected in three samples at a maximum concentration of 0.32 mg/kg (location B-5N-1), ethylbenzene was detected in three samples at a maximum concentration of 0.59 mg/kg (location B-5N-1), and xylenes were detected in four samples at a maximum concentration of 0.8 mg/kg (location B-5N-1). Benzene was not detected in the soil samples

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submitted for analysis. None of the reported concentrations exceeded the RBSLs developed for BTEX.

Several VOCs were detected in samples submitted for analysis (see Table 1). None of the concentrations exceeded their respective RBSLs.

SVOCs, MTBE, and PCBs were not detected in the soil samples submitted for analysis.

4.2 GROUNDWATER SAMPLING ANALYTICAL RESULTS

TPH-d was detected in three of the grab groundwater samples collected at a maximum concentration of 0.094 mg/l (location C-8W). TPH-mo was detected in six of the samples collected at a maximum concentration of 0.72 mg/l (location B-5S). TPH-g was not detected in the grab groundwater samples collected.

Toluene, MEK, and Bromomethane were detected in grab groundwater samples collected at the site. Toluene was detected in two grab groundwater samples at concentrations of 0.00051 and 0.00052 mg/l from locations B-2 and B-9, respectively. MEK was detected in two grab groundwater samples at concentrations of 0.0013 and 0.001 mg/l from locations B-2 and C-6, respectively. Bromomethane was detected in two grab groundwater samples at concentrations of 0.00054 and 0.00056 mg/l from locations B-5S and C-4, respectively.

No MTBE, PCBs, or BTEX compounds were detected in grab groundwater samples submitted for analysis.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

On July 18 and 19, 2002, Kleinfelder advanced eighteen borings at the site to depths of up to 10 feet bgs. Four soil samples were collected from designated sampling intervals during the advancement of the borings. At 10 locations, temporary PVC casing was installed following the completion of the borehole and grab groundwater samples were collected. Subsequently, the boreholes were grouted and the soil and groundwater samples were submitted to the laboratory for analysis. Chemical analyses were selected from among the following constituents based on the location and depth of the sample being collected: petroleum hydrocarbons as diesel, gasoline, and motor oil, BTEX, MTBE, SVOCs, VOCs, and PCBs. Summaries of the analytical results for the soil and groundwater samples are provided on Tables 1 and 2, respectively.

Petroleum hydrocarbons quantified as gasoline, diesel, and motor oil were the only contaminants found almost exclusively in the upper 6-inches of the soil profile. Kleinfelder's assessment found these hydrocarbons in elevated concentrations. This is where Kleinfelder's geotechnical engineer observed hydrocarbon odors and noted the presence of asphaltic concrete sub-base materials. In all but one case, the concentrations dropped to very low values or were not detectable in underlying native soil at about 1 foot below ground surface.

Given these findings, Kleinfelder makes the following conclusions and recommendations:

- TPH was the only constituent detected above RBSLs in soil and was primarily found in the top 6 inches of soil in association with treated pavement sub-base. Because the hydrocarbon constituents occur with the asphalt sub-base, it is Kleinfelder's opinion that their presence is due to the pretreatment of the sub-base with road oil and not the result of an accidental release. Sub-base is an integral component of the pavement system and Kleinfelder recommends handling the top six inches of soil in the same manner as the overlying asphalt.
- Grab groundwater samples collected at the site were not impacted by significant levels of contaminants. Therefore, groundwater at the site does not appear to be impacted by historic site uses.

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- Due to low concentrations of contaminants detected at the site, development activities are not expected to involve handling potentially contaminated soil.

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6.0 LIMITATIONS

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Northern California at this time and the approved scope of work. It should be recognized that evaluation of environmental conditions is a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the present subsurface conditions and are based upon a limited number of samples and knowledge of historic land uses. More extensive studies, including additional subsurface investigations, may be performed to reduce these inherent uncertainties. If AG Spanos wishes to further reduce the uncertainties of this investigation, Kleinfelder should be notified for additional consultation. No warranty, expressed or implied, is made.

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7.0 REFERENCES

Kleinfelder, 2002. Geotechnical Investigation Report, Proposed Rohnert Park Expressway Apartments. June 14.

Kleinfelder, 2002. Phase I Environmental Site Assessment, 600 Rohnert Park Expressway, Rohnert Park, California. June 18.

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Uribe & Associates, 2002. Due Diligence Report, PG&E Rohnert Park Materials Distribution Center Site. February.

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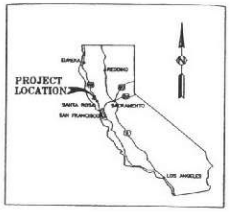
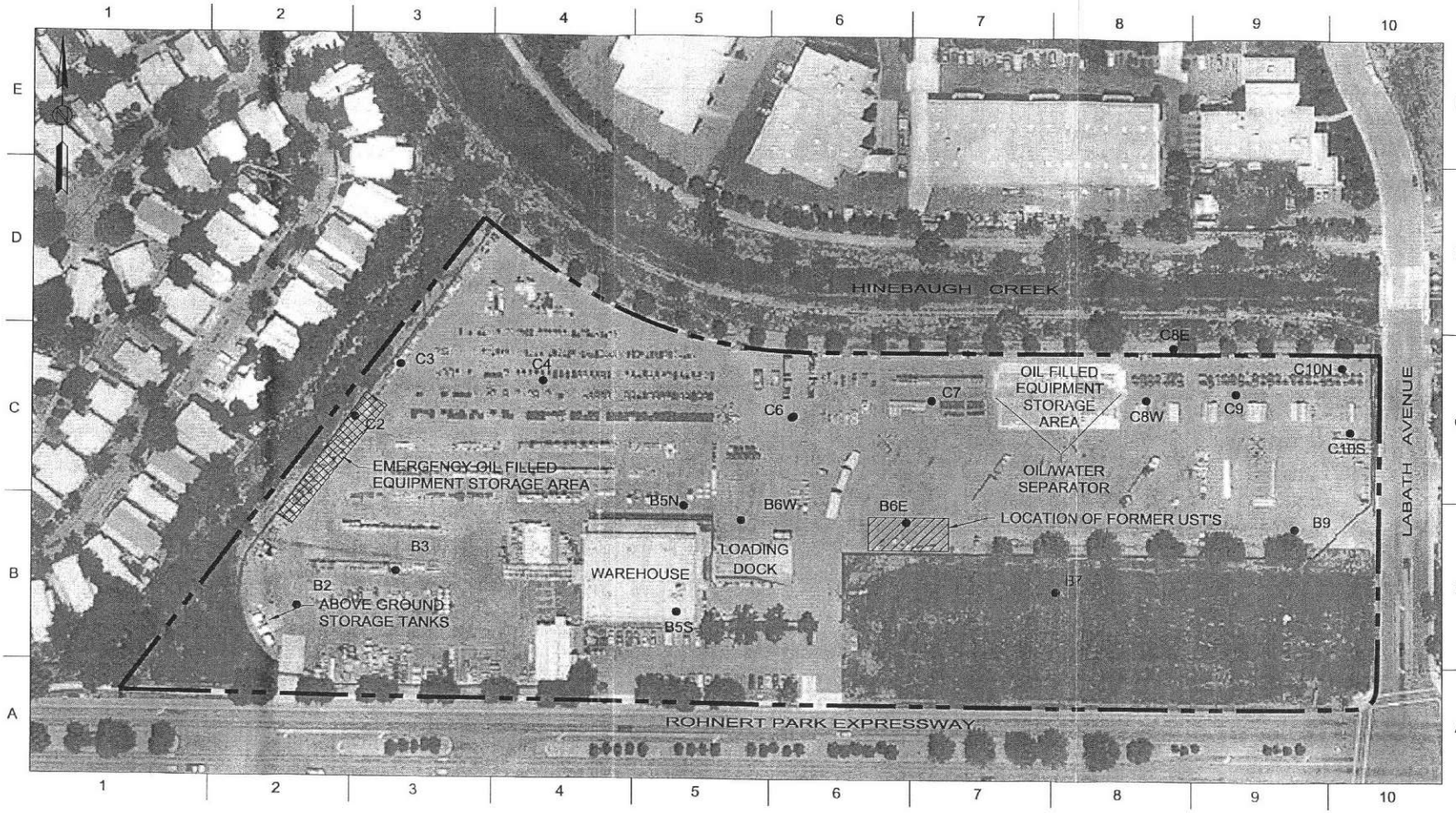
PLATES



SITE LOCATION
NOT TO SCALE



EXPLANATION

C10N Boring Location and Number

Approximate Site Boundary

120 60 0 120
scale feet

KLEINFELDER

PROJECT NO. C41-5098-01/001 DATE SEP 2002

SITE PLAN
600 Rohnert Park Exressway
Rohnert Park, California

PLATE
1

TABLE 1
SOIL ANALYTICAL RESULTS
600 ROHNERT PARK EXPRESSWAY

Sample Location	Sample Depth[a]	Concentrations in mg/kg Petroleum Hydrocarbons TPH-mo	TPH-d	TPH-g	B	T	E	X	MTBE
B-2-1	0.5	68	17	NA	NA	NA	NA	NA	NA
B-2-2	1.5	NA	NA	NA	NA	NA	NA	NA	NA
B-2-3	3.5	ND	ND	ND	ND	ND	ND	ND	ND
B-3-1	0.5	300	22	ND	ND	ND	ND	ND	ND
B-3-2	1.5	ND	ND	ND	ND	ND	ND	ND	ND
B-5N-1	0.5	3300	2300	480	ND	0.32	0.59	0.8	ND
B-5N-2	1.5	18	20	NA	NA	NA	NA	NA	NA
B-5N-3	3.5	6.1	2.5	NA	NA	NA	NA	NA	NA
B-5S-1	0.5	1500	190	NA	NA	NA	NA	NA	NA
B-5S-2	1.5	31	3.4	NA	NA	NA	NA	NA	NA
B-6E-4	6.5	8.6	2.0	ND	ND	ND	ND	ND	ND
B-6W-1	0.5	1860	ND	ND	ND	ND	ND	ND	ND
B-6W-2	1.5	29	3.0	NA	NA	NA	NA	NA	NA
B-6W-3	3.5	ND	1.1	NA	NA	NA	NA	NA	NA
B-7-3	3.5	ND	ND	NA	NA	NA	NA	NA	NA
B-9-1	0.5	5.5	4.4	NA	NA	NA	NA	NA	NA
B-9-2	1.5	10.0	4.0	NA	NA	NA	NA	NA	NA
B-9-3	3.5	ND	ND	NA	NA	NA	NA	NA	NA
C-2-1	0.5	470	76	6.3	ND	ND	0.0089	0.025	ND
C-2-2	1.5	ND	ND	NA	NA	NA	NA	NA	NA
C-2-3	3.5	8.7	3.4	NA	NA	NA	NA	NA	NA
C-3-1	0.5	580	38	1.9	ND	0.0095	0.018	0.15	ND
C-3-2	1.5	6	4.3	NA	NA	NA	NA	NA	NA
C-3-3	3.5	350	48	NA	NA	NA	NA	NA	NA
C-4-1	0.5	1800	230	1.6	ND	0.0051	ND	0.049	ND
C-4-2	1.5	9.3	1.4	NA	NA	NA	NA	NA	NA
C-4-3	3.5	5.1	1.3	NA	NA	NA	NA	NA	NA
C-6-1	0.5	580	420	NA	NA	NA	NA	NA	NA
C-6-2	1.5	16	3.3	NA	NA	NA	NA	NA	NA
C-6-3	3.5	28	5.2	NA	NA	NA	NA	NA	NA
C-7-3	3.5	16	2.9	ND	ND	ND	ND	ND	ND
C-7-4	6.5	ND	1.4	ND	ND	ND	ND	ND	ND
C-8E-1	0.5	ND	1.4	ND	ND	ND	ND	ND	ND
C-8E-2	1.5	ND	ND	NA	NA	NA	NA	NA	NA
C-8E-3	3.5	ND	ND	NA	NA	NA	NA	NA	NA
C-8W-3	3.5	ND	ND	ND	ND	ND	ND	ND	ND
C-8W-4	6.5	7.2	1.2	ND	ND	ND	ND	ND	ND
C-9-1	0.5	540	260	6.1	ND	ND	ND	ND	ND
C-9-2	1.5	ND	45	NA	NA	NA	NA	NA	NA
C-9-3	3.5	ND	ND	NA	NA	NA	NA	NA	NA
C-10N-1	0.5	720	140	ND	ND	ND	ND	ND	ND
C-10N-2	1.5	650	ND	NA	NA	NA	NA	NA	NA
C-10N-3	3.5	38	4.1	NA	NA	NA	NA	NA	NA
C-10S-1	0.5	3100	1100	9.3	ND	ND	ND	ND	ND
C-10S-2	1.5	ND	1.3	NA	NA	NA	NA	NA	NA
C-10S-3	3.5	ND	ND	NA	NA	NA	NA	NA	NA
RBSL	*	500	100	100	0.045	2.6	2.5	1.0	0.028

NOTES:

TPH-mo - Total Petroleum Hydrocarbons as Motor Oil
TPH-d - Total Petroleum Hydrocarbons as Diesel
TPH-g - Total Petroleum Hydrocarbons as Gasoline

* - Not Applicable
a - depth in feet below ground surface
ND - Not Detected
NA - Not Analyzed

RBSL- Risk Based Screening Level for surface soil less than or equal to 3 meter below ground surface where groundwater is a current of potential source of drinking water.

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TABLE 1 CONTINUED
SOIL ANALYTICAL RESULTS
600 ROHNERT PARK EXPRESSWAY

		Concentrations in mg/kg														
		VOCs														
Sample Location	Sample Depth[a]	Carbon Disulfide	MEK	Methyl Iodide	Napthalene	Xylenes	4-Chloro-toluene	1,2-Dibromo-3-chloropropane	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,1,2,2-Tetrachloro-ethane	1,2,4-Trichloro benzene	Trichloro-ethene	1,1,2-Trichloro ethane	Ethylbenzene	1,1,1-Trichloroethane
B-2-1	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-2-2	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-2-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-3-1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3-2	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-5N-1	0.5	ND	**0.16**	**0.26**	**0.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5N-2	1.5	ND	**0.011**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5N-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-5S-1	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-5S-2	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-6E-4	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-6W-1	0.5	ND	ND	ND	ND	**0.005**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6W-2	1.5	ND	ND	ND	ND	**0.016**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6W-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-7-3	3.5	ND	ND	ND	ND	**0.052**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-9-1	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-9-2	1.5	ND	ND	ND	ND	**0.021**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-9-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-2-1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0068**	**0.013**	ND	ND
C-2-2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-2-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-3-1	0.5	ND	ND	ND	ND	**0.12**	ND	ND	ND	ND	ND	ND	**0.0057**	ND	**0.013**	ND
C-3-2	1.5	**0.0066**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-3-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-4-1	0.5	ND	ND	ND	ND	**0.07**	ND	ND	ND	ND	ND	ND	**0.0064**	ND	**0.0069**	**0.0089**
C-4-2	1.5	ND	**0.014**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-4-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-6-1	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-6-2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-6-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-7-3	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-7-4	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-8E-1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-8E-2	1.5	**0.02**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-8E-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-8W-3	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-8W-4	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-9-1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-9-2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-9-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-10N-1	0.5	ND	**0.036**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-10N-2	1.5	ND	**0.028**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-10N-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C-10S-1	0.5	ND	**0.031**	ND	ND	ND	**0.01**	**0.0061**	**0.0054**	**0.005**	**0.005**	**0.0083**	ND	ND	ND	ND
C-10S-2	1.5	ND	**0.017**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-10S-3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RBSL	*	*	1.7	*	4.0	1.0	*	*	*	*	0.015	15	*	0.055	2.5	8

NOTES:
RBSL- Risk Based Screening Level for surface soil less than or equal to 3 meter below ground surface where groundwater is a current of potential source of drinking water.

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TABLE 2
WATER ANALYTICAL RESULTS
600 ROHNERT PARK EXPRESSWAY

Concentrations in mg/l

Sample Location	Petroleum Hydrocarbons								VOCs		
	TPH-mo	TPH-d	TPH-g	B	T	E	X	MTBE	Toluene	MEK	Bromomethane
B-2	ND	ND	ND	ND	ND	ND	ND	ND	**0.00051**	**0.0013**	ND
B-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5S	**0.72**	**0.056**	ND	ND	ND	ND	ND	ND	ND	ND	**0.00054**
B-7	**0.52**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-9	**0.4**	ND	ND	ND	ND	ND	ND	ND	**0.00057**	ND	ND
C-4	**0.29**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.00056**
C-6	**0.37**	ND	ND	ND	ND	ND	ND	ND	ND	**0.001**	ND
C-7	ND	**0.054**	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-8W	ND	**0.094**	ND	ND	ND	ND	ND	ND	ND	ND	ND
C-10S	**0.32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

TPH-mo - Total Petroleum Hydrocarbons as Motor Oil
TPH-d - Total Petroleum Hydrocarbons as Diesel
TPH-g - Total Petroleum Hydrocarbons as Gasoline
ND - Not Detected
MTBE - methyl tert butyl ether

B - Benzene
T - Toluene
E - Ethylbenzene
X - Xylene

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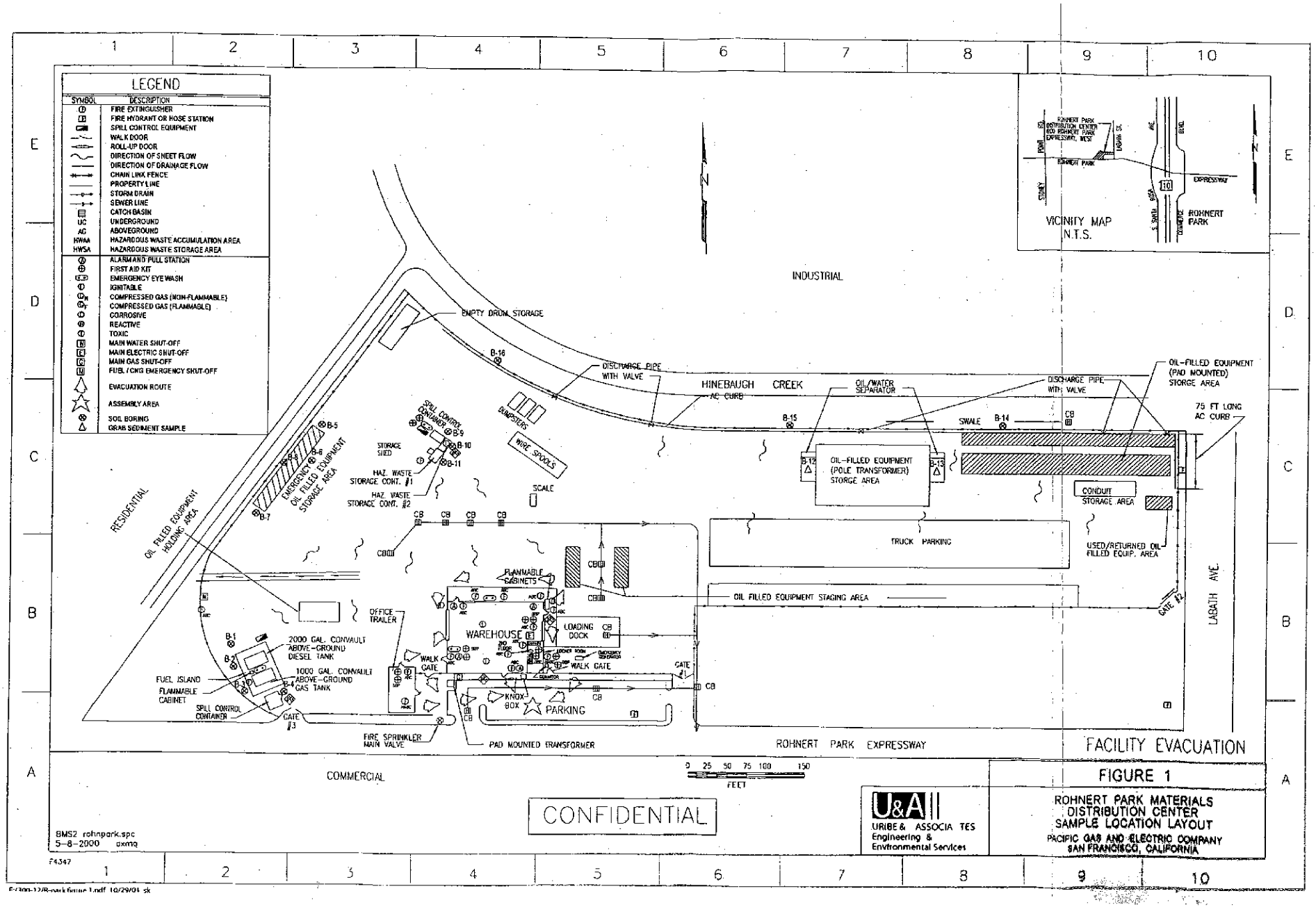
APPENDIX A


LEGEND
SYMBOL DESCRIPTION
FIRE EXTINGUISHER
FIRE HYDRANT OR HOSE STATION
SPILL CONTROL EQUIPMENT
WALK DOOR
ROLL-UP DOOR
DIRECTION OF SHEET FLOW
DIRECTION OF DRAINAGE FLOW
CHAIN LINK FENCE
PROPERTY LINE
STORM DRAIN
SEWER LINE
CATCH BASIN
UG UNDERGROUND
AG ABOVEGROUND
HWAA HAZARDOUS WASTE ACCUMULATION AREA
HWSA HAZARDOUS WASTE STORAGE AREA
ALARM AND PULL STATION
FIRST AID KIT
EMERGENCY EYE WASH
IGNITABLE
COMPRESSED GAS (NON-FLAMMABLE)
COMPRESSED GAS (FLAMMABLE)
CORROSIVE
REACTIVE
TOXIC
MAIN WATER SHUT-OFF
MAIN ELECTRIC SHUT-OFF
MAIN GAS SHUT-OFF
FUEL / CNG EMERGENCY SHUT-OFF
EVACUATION ROUTE
ASSEMBLY AREA
SOIL BORING
GRAB SEDIMENT SAMPLE
VICINITY MAP
N.T.S.
ROHNERT PARK
EXPRESSWAY
INDUSTRIAL
EMPTY DRUM STORAGE
DISCHARGE PIPE WITH VALVE
HINEBAUGH CREEK
AC CURB
OIL/WATER SEPARATOR
OIL-FILLED EQUIPMENT (PAD MOUNTED) STORGE AREA
75 FT LONG AC CURB
SWALE
CB
OIL-FILLED EQUIPMENT (POLE TRANSFORMER) STORGE AREA
CONDUIT STORAGE AREA
USED/RETURNED OIL FILLED EQUIP. AREA
TRUCK PARKING
OIL FILLED EQUIPMENT STAGING AREA
LABATH AVE.
GATE #2
SPILL CONTROL CONTAINER
DUMPSTERS
WIRE SPOOLS
STORAGE SHED
HAZ. WASTE STORAGE CONT. #1
HAZ. WASTE STORAGE CONT. #2
SCALE
RESIDENTIAL
OIL FILLED EQUIPMENT HOLDING AREA
EMERGENCY OIL FILLED EQUIPMENT STORAGE AREA
FLAMMABLE CABINETS
OFFICE TRAILER
WAREHOUSE
LOADING DOCK
WALK GATE
2000 GAL. CONVAULT ABOVE-GROUND DIESEL TANK
1000 GAL. CONVAULT ABOVE-GROUND GAS TANK
FUEL ISLAND
FLAMMABLE CABINET
SPILL CONTROL CONTAINER
GATE #3
KNOX BOX
PARKING
FIRE SPRINKLER MAIN VALVE
PAD MOUNTED TRANSFORMER
ROHNERT PARK EXPRESSWAY
COMMERCIAL
0 25 50 75 100 150
FEET
FACILITY EVACUATION
CONFIDENTIAL
BMS2 rohnpark.spc
5-8-2000 dxmg
F4347
U&A
URIBE & ASSOCIATES
Engineering & Environmental Services
FIGURE 1
ROHNERT PARK MATERIALS DISTRIBUTION CENTER
SAMPLE LOCATION LAYOUT
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

Attorney's Work Product

Summary of Analytical Results - Due Diligence Sampling
PG&E's Rohnert Park Materials Distribution Center

Analyte/EPA Method	Boring ID and Analytical Results (see Note 2)																		Residential PRG
	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	Sump West Water	/ B-12 Sediment	Sump East Water	/ B-13 Sediment	B-14	B-15	B-16	
TPH-d/8015M (mg/kg)	210	5.4	2.5	13	1,400	47	1.7	4,400	1.4	110	< 1.0		35		9.1	540	25	4.3	NA
TPH-d/8015M (ug/L)												500		54					NA
TPH-g/8015M (mg/kg)	< 1.0	< 1.0	< 1.0	< 1.0															NA
VOCs/8260 (mg/kg)									Tol=0.013	< 0.0050	Tol=0.0051								Tol = 520
SVOCs/8270 (mg/kg)																		Phen < 0.34	NA
Benzene/8021B (mg/kg)	< 0.0050	< 0.0050	< 0.0050	< 0.0050															0.65
Toluene/8021B (mg/kg)	< 0.0050	0.017	0.014	0.045															520
Ethylbenzene/8021B (mg/kg)	< 0.0050	< 0.0050	< 0.0050	0.0092															230
Xylene/8021B (mg/kg)	0.77	0.012	0.011	0.054															210
MTBE/8021 (mg/kg)	< 0.0050	< 0.0050	< 0.0050	< 0.0050															17
PCBs/8082 (ug/L)												< 0.5		< 0.5					0.034
PCBs/8082 (mg/kg)									< 0.05	< 0.05	< 0.05		< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	0.22

Notes:

1. Abbreviations:
   - Tol = Toluene
   - Phen = Phenol
   - EPA = Environmental Protection Agency
   - TPH-d = Total Petroleum Hydrocarbons- diesel
   - TPH-g = Total Petroleum Hydrocarbons- gasoline
   - VOCs = Volatile Organic Compounds
   - SVOCs = Semi Volatile Organic compounds
   - BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
   - MTBE = Methyl tert-butyl ether
   - PCBs = Polychlorinated Biphenyls
   - PRG = Preliminary Remediation Goal (residential) as established by EPA Region 9
   - NA: No PRG available

2. Concentrations listed as "< x" were Non-Detect at the reporting limit of x.

APPENDIX B

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
6"	B-2-1		0		CL	SILTY CLAY WITH GRAVEL - brown, dry, medium stiff, fine gravel to 1/2"
1'	B-2-2		1			SILTY CLAY - brown, moist, medium stiff
			2			
			3		CL	
			4			trace sand, fine sand
2-1/2'	B-2-3		5			
			6			SILTY SAND WITH GRAVEL - brown, wet, dense (medium), fine sand, subangular gravel to 1/2"
1-1/2'	B-2-4		7			
			8			
			9		SM	
			10			
			11			
			12			BOTTOM OF PROBE @ 12 FEET
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

FIELD

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 12.0 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 6.0 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-2

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT CONCRETE
6"	B-3-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine gravel
6"	B-3-2					
			2			SILTY CLAY WITH SAND - dark gray, moist, medium stiff, fine sand
			3		CL	
2-1/2'	B-3-3		4			fine sand
			5			
					SC	▼CLAYEY SAND - brown, wet to moist, loose, fine sand
2'	B-3-4		6			
						BOTTOM OF PROBE @ 6.5 FEET
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 5.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-3

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	B-5N-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine gravel (subangular to 1/4")
6"	B-5N-2		2		CL	SILTY CLAY - gray, moist, stiff
			3			
3'	B-5N-3		4		CL	SILTY CLAY WITH TRACE SAND - light gray, moist, medium stiff, fine sand
			5			
2'	B-5N-4		6		SM	▼ SILTY SAND - gray, wet, loose, fine sand
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 6.0 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway

Rohnert Park, California

B-5N

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT CONCRETE
	B-5S-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand and fine gravel
	B-5S-2		2		CL	SILTY CLAY WITH SAND - gray, moist, medium stiff, fine sand
			3			▼
2-1/2'	B-5S-3		4		SM	SILTY SAND WITH GRAVEL - brown, wet, medium dense, fine sand, fine to medium subangular gravel to 1/2"
			5			
2'	B-5S-4		6			
			7			
			8			
			9			
			10			BOTTOM OF PROBE @ 10 FEET
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 10.0 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 3.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-5S

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
					AC	ASPHALT
6"	B-6W-1		0		GW	SANDY GRAVEL - brown, moist, loose, fine
6"	B-6W-2		1			sand, fine subangular gravel to 1/4"
			2			SILTY CLAY - gray to dark gray, moist, stiff
			3		CL	
3'	B-6W-3		4			light gray, trace sand, fine sand
			5			
			6		CL	SILTY CLAY - light gray, moist, soft
2'	B-6W-4					
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

FIELD

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-6W

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
6"	B-7-1		0			
1'	B-7-2		1		CL	SANDY CLAY - brown, dry, fine sand, medium stiff
			2			
			3			
1-1/2'	B-7-3		4		CL	SILTY CLAY WITH TRACE SAND - brown, dry to moist, medium stiff, fine sand
			5			moist to wet
1-1/2'	B-7-4		6			
			7		SM	▼SILTY SAND - brown, wet, loose, fine sand
			8			
			9			▽
			10			
			11			
			12			BOTTOM OF PROBE @ 12 FEET
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 12.0 feet
GROUND WATER DEPTH: ▽ 9.5 feet at time of drilling
▼ 6.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-7

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	B-9-1		1			SANDY CLAY - brown, moist, medium stiff, fine sand
6"	B-9-2		2		CL	
			3			
			4			SILTY CLAY WITH TRACE SAND - gray, moist, medium stiff, fine sand
3'	B-9-3		5		CL	
			6			CLAYEY SAND - gray, moist, medium dense, fine sand
2'	B-9-4		7			
			8		SC	
			9			
			10			
			11			BOTTOM OF PROBE @ 10.5 FEET
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

FIELD

* Existing ground surface

SURFACE ELEVATION: feet *
TOTAL DEPTH: 10.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B-9

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	B-6E-1		1			SANDY GRAVEL - brown, moist, loose, fine
6"	B-6E-2				GW	sand, fine subangular gravel to 1/2"
			2			
			3			
			4			SILTY CLAY - gray, moist, medium stiff
1-1/2'	B-6E-3		5		CL	
			6			
	B-6E-4				SM	▼SILTY SAND - wet, loose, fine sand
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 6.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

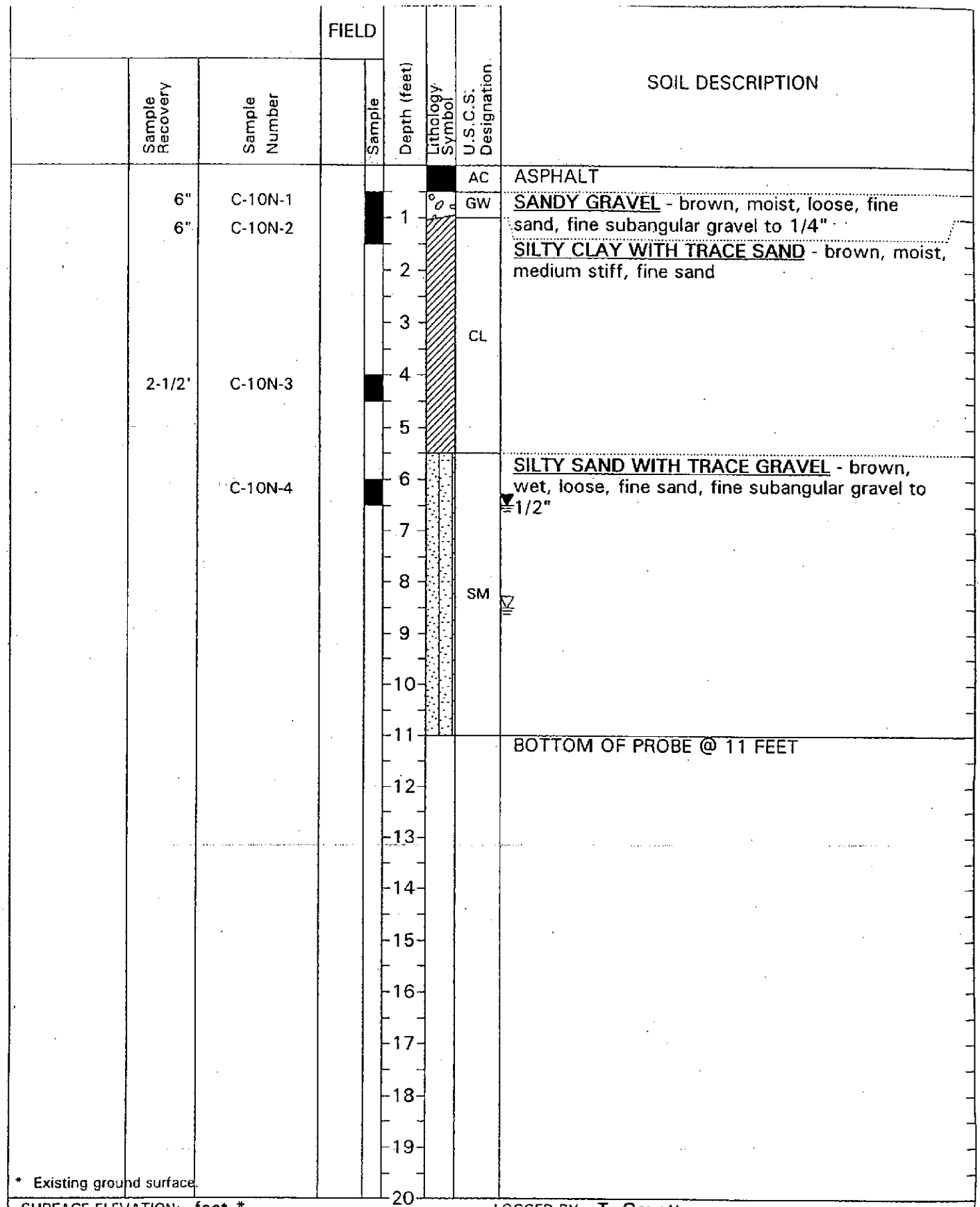
KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

B6-E

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002



* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 11.0 feet
GROUND WATER DEPTH: ▽ 8.5 feet at time of drilling
▼ 6.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-10N

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
					AC	ASPHALT
6"	C-10S-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine subangular sand & fine subangular gravel to 1/4"
6"	C-10S-1					SILTY CLAY WITH SAND - gray, moist, medium stiff, fine sand, ac odor
			2			
			3		CL	
						dark gray
3'	C-10S-1		4			
			5			CLAYEY SAND - gray, moist, loose, fine sand
					SC	
2'	C-10S-1		6			
					SM	▼SILTY SAND - gray, wet, loose, fine sand
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 6.5 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-10S

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-2-1		0.5		GW	SANDY GRAVEL - brown, moist, loose, fine sand
6"	C-2-2		1			
			2			SILTY CLAY WITH TRACE SAND - dark brown, moist, medium stiff, fine sand
			3			
			4		CL	
2-1/2'	C-2-3		5			gray
			6			stiff, increasing sand
2'	C-2-4		6.5			BOTTOM OF PROBE @ 6.5 FEET
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-2

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-3-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine gravel
6"	C-3-2					
			2			SILTY CLAY WITH TRACE SAND - brown, moist, medium stiff, fine sand
			3			
2-1/2'	C-3-3		4		CL	gray
			5			
1-1/2'	C-3-4		6			
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-3

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-4-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine gravel
6"	C-4-2					SILTY CLAY - brown, moist, medium stiff
			2			
			3		CL	
			4			trace sand, gray
3'	C-4-3					
			5			CLAYEY SAND - moist, medium dense to loose, fine sand
					SC	
2'	C-4-4		6			
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway

Rohnert Park, California

C-4

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-6-1		0		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine subangular gravels to 1/4"
6"	C-6-2		1			SILTY CLAY WITH TRACE SAND - gray, moist, medium stiff, fine sand
			2			
			3			
3'	C-6-3		4			
			5			brown
2'	C-6-4		6			
			7			
			8			
			9		CL	
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			BOTTOM OF PROBE @ 18 FEET
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 18.0 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-6

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-7-1				GW	SANDY GRAVEL - brown, moist, loose, fine sand and gravel
6"	C-7-2		1			
			2		CL	SILTY CLAY WITH TRACE SAND - gray, moist, stiff, fine sand
			3			
			4			SILTY CLAY - light gray, moist, medium stiff
3'	C-7-3		5			
			6			
2'	C-7-4		7		CL	stiff, trace sand
			8			
			9			
			10			
			11			BOTTOM OF PROBE @ 10.5 FEET
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

FIELD

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 10.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway

Rohnert Park, California

C-7

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
6"	C-8E-1		0			
1'	C-8E-2		1		CL	SILTY CLAY WITH SAND AND GRAVEL - brown, dry, fine sand, fine gravel
			2			
			3		CL	SILTY CLAY WITH TRACE SAND - brown, dry to moist, stiff, fine sand
3'	C-8E-3		4			
			5		SC	CLAYEY SAND WITH TRACE GRAVEL - brown, moist, loose, fine sand, fine subangular gravel to 1/2"
	C-8E-4		6			
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-8E

Sample Recovery	Sample Number	FIELD Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
			0		AC	ASPHALT
6"	C-8W-1		1		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine subangular gravel to 1/4"
6"	C-8W-2					
			2		CL	SILTY CLAY WITH TRACE SAND - brown, moist, stiff, fine sand
			3			
3'	C-8W-3		4		SC	CLAYEY SAND - gray, moist, medium dense, fine sand
			5			brown
2'	C-8W-4		6			SANDY CLAY - brown, moist, medium stiff, fine sand
			7			
			8			
			9			
			10			
			11			
			12		CL	
			13			
			14			
			15			
			16			
			17			
			18			
			19			BOTTOM OF PROBE @ 19 FEET
			20			

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 19.0 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-8W

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002

Sample Recovery	Sample Number	Sample	Depth (feet)	Lithology Symbol	U.S.C.S. Designation	SOIL DESCRIPTION
6"	C-9-1		0		GW	SANDY GRAVEL - brown, moist, loose, fine sand, fine gravel
6"	C-9-2		1		CL	SILTY CLAY WITH SAND - brown, moist, medium stiff, fine sand
			2			
			3		CL	SILTY CLAY - gray, moist, stiff
3'	C-9-3		4			lighter gray
			5		SC	CLAYEY SAND - brown, moist, medium dense, fine sand
2'	C-9-4		6		SM	SILTY SAND - brown, wet, loose, fine sand
			7			BOTTOM OF PROBE @ 6.5 FEET
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			

FIELD

* Existing ground surface.

SURFACE ELEVATION: feet *
TOTAL DEPTH: 6.5 feet
GROUND WATER DEPTH: ▽ feet at time of drilling
▼ 6.0 feet

LOGGED BY: T. Goyette
EQUIPMENT: Direct Push
DIAMETER of BORING: -inch
DATE DRILLED: 7-18-02

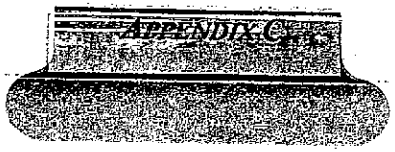
KLEINFELDER

LOG OF PROBE

600 Rohnert Park Expressway
Rohnert Park, California

C-9

PROJECT NUMBER 41-5098-01/001 DATE AUG 2002


APPENDIX C

APPENDIX C
SAMPLING ANALYTICAL SCHEDULE
600 ROHNERT PARK EXPRESSWAY

Sampling Schedule

		Depth: 0.5	1.5	3.5	6.5						gw
B2	1	D	H	B	H						A
C2	2	A	C	D	H						
B3	3	A	B	H	H						A
C3	4	A	C	D	H						
C4	5	A	C	D	H						A
B5S	6	D	D	H	H						A
B5N	7	A	C	D	H						
B6W	8	A	C	D	H						
B6E	9	H	H	H	B						
C6	10	D	C	D	H						A
B7	11	H	H	C	H						A
C7	12	H	H	A	A						A
C8W	13	H	H	A	A						A
C8E	14	A	C	D	H						
B9	15	D	C	D	H						A
C9	16	A	C	D	H						
C10S	17	A	C	D	H						A
C10N	18	A	C	D	H						
A		10		2	2						10
B			1	1	1						
C			11	1							
D		4	1	11							
E											
F											

H = Hold pending review of findings of shallow samples

Analyts limited to those most likely present at that location

For example PCBs only in areas where oil filled equipment was stored

Analytical Schedule

	Organics		A	B	C	D	E	F	Total
27	TPH(g) - BTEX + - MTBE	mod. 8015 (5030) - 8020	1	1					27
55	TPH(d/mo/k)	mod. 8015 (DI)	1	1	1	1			55
0	Petroleum Oil & Grease	5520 E&F or B&F							0
0	TRPH	418.1							0
0	EDB	EPA 8010/601							0
0	Purgeable halocarbons	EPA 8010/601							0
0	Purgeable aromatics & halocarbons	EPA 601 - 602/8010 - 8020							0
12	PCBs	EPA 8080 (modified)	0.5						12
0	Organo Chlorine Pesticides & PCBs	EPA 8080/608							0
24	Volatile Organics	EPA 8240/8260/624/524.32	0.5		1				24
0	Oxygenates/MTBE Confirmation	EPA 8260 (modified)							0
0	PAHs	EPA 8270/625/525.1/8310							0
0	Phenols	EPA 8270/625/525.1							0
24	Semi-Volatile Organics	EPA 8270/625/525.2	0.5		1				24
	Metals, Inorganics & Miscellaneous								
	Title 22 (CAM 17 metals, TTLC)	EPA 6010 & 7000 series							
	Priority Pollutants	EPA 6010 & 7000 series							
	Forward 10 Metals	EPA 6010 & 7000 series							
	LUFT Metals (Cd, Cr, Ni, Pb, Zn)	EPA 6010 & 7000 series							
	Individual Metals	EPA 6010 & 7000 series							
	Mercury	EPA 7471/7470							
	Organic Lead	Luft & Title 22							
24	RCI (Reactivity, Ignitability, & Corrosivity)	CA Title 22, EPA 1010, 9045/9040							
3	Ignitability	EPA 1010							
12	pH	EPA 9045/9040							
16	Cyanide	EPA 9010							
0	Cr (VI)	EPA 7196							
0	Conductivity	EPA 120.1							
	TSS, TDS, TS	EPA 160.1, 160.2, 160.3							
55	**Extractions**								
	STLC	CA Title 22							
	TCLP	EPA 1311							
	Zero Headspace TCLP	EPA 1311							

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APPENDIX D

McCampbell Analytical Inc.
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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/23/02-07/25/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0207293

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
003A	B-2-3	S	ND	ND	ND	ND	ND	ND	1	109
005A	B-3-1	S	ND	ND	ND	ND	ND	ND	1	115
006A	B-3-2	S	ND	ND	ND	ND	ND	ND	1	109
013A	C-2-1	S	6.3,g	ND	ND	ND	0.0089	0.025	1	---#
017A	C-3-1	S	1.9,b	ND	ND	0.0095	0.018	0.15	1	---#
021A	C-4-1	S	1.6,b	ND	ND	0.0051	ND	0.049	1	---#
029A	B2	W	ND,i	ND	ND	ND	ND	ND	1	106
030A	B3	W	ND,i	ND	ND	ND	ND	ND	1	98.4
031A	B5S	W	ND,i	ND	ND	ND	ND	ND	1	98.3
032A	C4	W	ND	ND	ND	ND	ND	ND	1	97.6
033A	C-6	W	ND,i	ND	ND	ND	ND	ND	1	97.6
034A	B-9	W	ND	ND	ND	ND	ND	ND	1	98.4
035A	C10s	W	ND,i	ND	ND	ND	ND	ND	1	101
036A	B-7	W	ND,i	ND	ND	ND	ND	ND	1	102
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	ug/L	
		S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg	

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/29/02
	Client P.O.:	Date Analyzed: 07/23/02-07/30/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0207293

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0207293-001A	B-2-1	S	17,g	68	10	91.2
0207293-003A	B-2-3	S	ND	ND	1	103
0207293-005A	B-3-1	S	22,g	300	20	89.6
0207293-006A	B-3-2	S	ND	ND	1	102
0207293-009A	B-55-1	S	190,g	1500	100	93.6
0207293-010A	B-55-2	S	3.4,g	31	1	98.9
0207293-013A	C-2-1	S	76,g	470	20	87.1
0207293-014A	C-2-2	S	ND	ND	1	100
0207293-015A	C-2-3	S	3.4,b,g	8.7	1	103
0207293-017A	C-3-1	S	38,g	580	20	82.6
0207293-018A	C-3-2	S	4.3,b,g	6.0	1	93.2
0207293-019A	C-3-3	S	48,g	350	20	88.3
0207293-021A	C-4-1	S	230,g	1800	100	94.5
0207293-022A	C-4-2	S	1.4,g	9.3	1	98.6
0207293-023A	C-4-3	S	1.3,g	5.1	1	94.6
0207293-025A	C-6-1	S	420,g,b	580	100	101
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	250	µg/L	
		S	1.0	5.0	mg/Kg	

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/29/02
	Client P.O.:	Date Analyzed: 07/23/02-07/30/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0207293

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0207293-026A	C-6-2	S	3.3,g,b	16	2	100
0207293-027A	C-6-3	S	5.2,g	28	2	98.7
0207293-029E	B2	W	ND,i	ND	1	94.6
0207293-030E	B3	W	ND,i	ND	1	91.8
0207293-031E	B55	W	56,g,i	720	1	103
0207293-032E	C4	W	ND,g	290	1	130
0207293-033E	C-6	W	ND,g,i	370	1	105
0207293-034E	B-9	W	ND,g	400	1	102
0207293-035E	C10s	W	ND,g,i	320	1	100
0207293-036E	B-7	W	ND,g,i	520	1	94.7
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	250	µg/L	
		S	1.0	5.0	mg/Kg	

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-005A
Client ID	B-3-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<16	50	0.33	Acenaphthylene	ND<16	50	0.33
Anthracene	ND<16	50	0.33	Benzidine	ND<80	50	1.6
Benzoic Acid	ND<80	50	1.6	Benz(a)anthracene	ND<16	50	0.33
Benzo(b)fluoranthene	ND<16	50	0.33	Benzo(k)fluoranthene	ND<16	50	0.33
Benzo(g,h,i)perylene	ND<16	50	0.33	Benzo(a)pyrene	ND<16	50	0.33
Benzyl Alcohol	ND<33	50	0.66	Bis (2-chloroethoxy) Methane	ND<16	50	0.33
Bis (2-chloroethyl) Ether	ND<16	50	0.33	Bis (2-chloroisopropyl) Ether	ND<16	50	0.33
Bis (2-ethylhexyl) Phthalate	ND<16	50	0.33	4-Bromophenyl Phenyl Ether	ND<16	50	0.33
Butylbenzyl Phthalate	ND<16	50	0.33	4-Chloroaniline	ND<33	50	0.66
4-Chloro-3-methylphenol	ND<16	50	0.33	2-Chloronaphthalene	ND<16	50	0.33
2-Chlorophenol	ND<16	50	0.33	4-Chlorophenyl Phenyl Ether	ND<16	50	0.33
Chrysene	ND<16	50	0.33	Dibenzo(a,h)anthracene	ND<16	50	0.33
Dibenzofuran	ND<16	50	0.33	Di-n-butyl Phthalate	ND<16	50	0.33
1,2-Dichlorobenzene	ND<16	50	0.33	1,3-Dichlorobenzene	ND<16	50	0.33
1,4-Dichlorobenzene	ND<16	50	0.33	3,3-Dichlorobenzidine	ND<33	50	0.66
2,4-Dichlorophenol	ND<16	50	0.33	Diethyl Phthalate	ND<16	50	0.33
2,4-Dimethylphenol	ND<16	50	0.33	Dimethyl Phthalate	ND<16	50	0.33
4,6-Dinitro-2-methylphenol	ND<80	50	1.6	2,4-Dinitrophenol	ND<80	50	1.6
2,4-Dinitrotoluene	ND<16	50	0.33	2,6-Dinitrotoluene	ND<16	50	0.33
Di-n-octyl Phthalate	ND<16	50	0.33	1,2-Diphenylhydrazine	ND<16	50	0.33
Fluoranthene	ND<16	50	0.33	Fluorene	ND<16	50	0.33
Hexachlorobenzene	ND<16	50	0.33	Hexachlorobutadiene	ND<16	50	0.33
Hexachlorocyclopentadiene	ND<80	50	1.6	Hexachloroethane	ND<16	50	0.33
Indeno (1,2,3-cd) pyrene	ND<16	50	0.33	Isophorone	ND<16	50	0.33
2-Methylnaphthalene	ND<16	50	0.33	2-Methylphenol (o-Cresol)	ND<16	50	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<16	50	0.33	Naphthalene	ND<16	50	0.33
2-Nitroaniline	ND<80	50	1.6	3-Nitroaniline	ND<80	50	1.6
4-Nitroaniline	ND<80	50	1.6	2-Nitrophenol	ND<80	50	1.6
4-Nitrophenol	ND<80	50	1.6	Nitrobenzene	ND<16	50	0.33
N-Nitrosodiphenylamine	ND<16	50	0.33	N-Nitrosodi-n-propylamine	ND<16	50	0.33
Pentachlorophenol	ND<80	50	1.6	Phenanthrene	ND<16	50	0.33
Phenol	ND<16	50	0.33	Pyrene	ND<16	50	0.33
1,2,4-Trichlorobenzene	ND<16	50	0.33	2,4,5-Trichlorophenol	ND<16	50	0.33
2,4,6-Trichlorophenol	ND<16	50	0.33				

Surrogate Recoveries (%)

%SS1:	---#	%SS2:	96.5
%SS3:	102	%SS4:	119
%SS5:	—#	%SS6:	117

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-013A
Client ID	C-2-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<330	1000	0.33	Acenaphthylene	ND<330	1000	0.33
Anthracene	ND<330	1000	0.33	Benzidine	ND<1600	1000	1.6
Benzoic Acid	ND<1600	1000	1.6	Benz(a)anthracene	ND<330	1000	0.33
Benzo(b)fluoranthene	ND<330	1000	0.33	Benzo(k)fluoranthene	ND<330	1000	0.33
Benzo(g,h,i)perylene	ND<330	1000	0.33	Benzo(a)pyrene	ND<330	1000	0.33
Benzyl Alcohol	ND<660	1000	0.66	Bis (2-chloroethoxy) Methane	ND<330	1000	0.33
Bis (2-chloroethyl) Ether	ND<330	1000	0.33	Bis (2-chloroisopropyl) Ether	ND<330	1000	0.33
Bis (2-ethylhexyl) Phthalate	ND<330	1000	0.33	4-Bromophenyl Phenyl Ether	ND<330	1000	0.33
Butylbenzyl Phthalate	ND<330	1000	0.33	4-Chloroaniline	ND<660	1000	0.66
4-Chloro-3-methylphenol	ND<330	1000	0.33	2-Chloronaphthalene	ND<330	1000	0.33
2-Chlorophenol	ND<330	1000	0.33	4-Chlorophenyl Phenyl Ether	ND<330	1000	0.33
Chrysene	ND<330	1000	0.33	Dibenzo(a,h)anthracene	ND<330	1000	0.33
Dibenzofuran	ND<330	1000	0.33	Di-n-butyl Phthalate	ND<330	1000	0.33
1,2-Dichlorobenzene	ND<330	1000	0.33	1,3-Dichlorobenzene	ND<330	1000	0.33
1,4-Dichlorobenzene	ND<330	1000	0.33	3,3-Dichlorobenzidine	ND<660	1000	0.66
2,4-Dichlorophenol	ND<330	1000	0.33	Diethyl Phthalate	ND<330	1000	0.33
2,4-Dimethylphenol	ND<330	1000	0.33	Dimethyl Phthalate	ND<330	1000	0.33
4,6-Dinitro-2-methylphenol	ND<1600	1000	1.6	2,4-Dinitrophenol	ND<1600	1000	1.6
2,4-Dinitrotoluene	ND<330	1000	0.33	2,6-Dinitrotoluene	ND<330	1000	0.33
Di-n-octyl Phthalate	ND<330	1000	0.33	1,2-Diphenylhydrazine	ND<330	1000	0.33
Fluoranthene	ND<330	1000	0.33	Fluorene	ND<330	1000	0.33
Hexachlorobenzene	ND<330	1000	0.33	Hexachlorobutadiene	ND<330	1000	0.33
Hexachlorocyclopentadiene	ND<1600	1000	1.6	Hexachloroethane	ND<330	1000	0.33
Indeno (1,2,3-cd) pyrene	ND<330	1000	0.33	Isophorone	ND<330	1000	0.33
2-Methylnaphthalene	ND<330	1000	0.33	2-Methylphenol (o-Cresol)	ND<330	1000	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<330	1000	0.33	Naphthalene	ND<330	1000	0.33
2-Nitroaniline	ND<1600	1000	1.6	3-Nitroaniline	ND<1600	1000	1.6
4-Nitroaniline	ND<1600	1000	1.6	2-Nitrophenol	ND<1600	1000	1.6
4-Nitrophenol	ND<1600	1000	1.6	Nitrobenzene	ND<330	1000	0.33
N-Nitrosodiphenylamine	ND<330	1000	0.33	N-Nitrosodi-n-propylamine	ND<330	1000	0.33
Pentachlorophenol	ND<1600	1000	1.6	Phenanthrene	ND<330	1000	0.33
Phenol	ND<330	1000	0.33	Pyrene	ND<330	1000	0.33
1,2,4-Trichlorobenzene	ND<330	1000	0.33	2,4,5-Trichlorophenol	ND<330	1000	0.33
2,4,6-Trichlorophenol	ND<330	1000	0.33				

Surrogate Recoveries (%)

%SS1:	---#	%SS2:	---#
%SS3:	87.1	%SS4:	130
%SS5:	---#	%SS6:	120

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-014A
Client ID	C-2-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<1.6	5.0	0.33	Acenaphthylene	ND<1.6	5.0	0.33
Anthracene	ND<1.6	5.0	0.33	Benzidine	ND<8.0	5.0	1.6
Benzoic Acid	ND<8.0	5.0	1.6	Benz(a)anthracene	ND<1.6	5.0	0.33
Benzo(b)fluoranthene	ND<1.6	5.0	0.33	Benzo(k)fluoranthene	ND<1.6	5.0	0.33
Benzo(g,h,i)perylene	ND<1.6	5.0	0.33	Benzo(a)pyrene	ND<1.6	5.0	0.33
Benzyl Alcohol	ND<3.3	5.0	0.66	Bis (2-chloroethoxy) Methane	ND<1.6	5.0	0.33
Bis (2-chloroethyl) Ether	ND<1.6	5.0	0.33	Bis (2-chloroisopropyl) Ether	ND<1.6	5.0	0.33
Bis (2-ethylhexyl) Phthalate	ND<1.6	5.0	0.33	4-Bromophenyl Phenyl Ether	ND<1.6	5.0	0.33
Butylbenzyl Phthalate	ND<1.6	5.0	0.33	4-Chloroaniline	ND<3.3	5.0	0.66
4-Chloro-3-methylphenol	ND<1.6	5.0	0.33	2-Chloronaphthalene	ND<1.6	5.0	0.33
2-Chlorophenol	ND<1.6	5.0	0.33	4-Chlorophenyl Phenyl Ether	ND<1.6	5.0	0.33
Chrysene	ND<1.6	5.0	0.33	Dibenzo(a,h)anthracene	ND<1.6	5.0	0.33
Dibenzofuran	ND<1.6	5.0	0.33	Di-n-butyl Phthalate	ND<1.6	5.0	0.33
1,2-Dichlorobenzene	ND<1.6	5.0	0.33	1,3-Dichlorobenzene	ND<1.6	5.0	0.33
1,4-Dichlorobenzene	ND<1.6	5.0	0.33	3,3-Dichlorobenzidine	ND<3.3	5.0	0.66
2,4-Dichlorophenol	ND<1.6	5.0	0.33	Diethyl Phthalate	ND<1.6	5.0	0.33
2,4-Dimethylphenol	ND<1.6	5.0	0.33	Dimethyl Phthalate	ND<1.6	5.0	0.33
4,6-Dinitro-2-methylphenol	ND<8.0	5.0	1.6	2,4-Dinitrophenol	ND<8.0	5.0	1.6
2,4-Dinitrotoluene	ND<1.6	5.0	0.33	2,6-Dinitrotoluene	ND<1.6	5.0	0.33
Di-n-octyl Phthalate	ND<1.6	5.0	0.33	1,2-Diphenylhydrazine	ND<1.6	5.0	0.33
Fluoranthene	ND<1.6	5.0	0.33	Fluorene	ND<1.6	5.0	0.33
Hexachlorobenzene	ND<1.6	5.0	0.33	Hexachlorobutadiene	ND<1.6	5.0	0.33
Hexachlorocyclopentadiene	ND<8.0	5.0	1.6	Hexachloroethane	ND<1.6	5.0	0.33
Indeno (1,2,3-cd) pyrene	ND<1.6	5.0	0.33	Isophorone	ND<1.6	5.0	0.33
2-Methylnaphthalene	ND<1.6	5.0	0.33	2-Methylphenol (o-Cresol)	ND<1.6	5.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.6	5.0	0.33	Naphthalene	ND<1.6	5.0	0.33
2-Nitroaniline	ND<8.0	5.0	1.6	3-Nitroaniline	ND<8.0	5.0	1.6
4-Nitroaniline	ND<8.0	5.0	1.6	2-Nitrophenol	ND<8.0	5.0	1.6
4-Nitrophenol	ND<8.0	5.0	1.6	Nitrobenzene	ND<1.6	5.0	0.33
N-Nitrosodiphenylamine	ND<1.6	5.0	0.33	N-Nitrosodi-n-propylamine	ND<1.6	5.0	0.33
Pentachlorophenol	ND<8.0	5.0	1.6	Phenanthrene	ND<1.6	5.0	0.33
Phenol	ND<1.6	5.0	0.33	Pyrene	ND<1.6	5.0	0.33
1,2,4-Trichlorobenzene	ND<1.6	5.0	0.33	2,4,5-Trichlorophenol	ND<1.6	5.0	0.33
2,4,6-Trichlorophenol	ND<1.6	5.0	0.33				

Surrogate Recoveries (%)

%SS1:	86.5	%SS2:	83.3
%SS3:	113	%SS4:	119
%SS5:	74.0	%SS6:	118

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-017A
Client ID	C-3-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<330	1000	0.33	Acenaphthylene	ND<330	1000	0.33
Anthracene	ND<330	1000	0.33	Benzidine	ND<1600	1000	1.6
Benzoic Acid	ND<1600	1000	1.6	Benz(a)anthracene	ND<330	1000	0.33
Benzo(b)fluoranthene	ND<330	1000	0.33	Benzo(k)fluoranthene	ND<330	1000	0.33
Benzo(g,h,i)perylene	ND<330	1000	0.33	Benzo(a)pyrene	ND<330	1000	0.33
Benzyl Alcohol	ND<660	1000	0.66	Bis (2-chloroethoxy) Methane	ND<330	1000	0.33
Bis (2-chloroethyl) Ether	ND<330	1000	0.33	Bis (2-chloroisopropyl) Ether	ND<330	1000	0.33
Bis (2-ethylhexyl) Phthalate	ND<330	1000	0.33	4-Bromophenyl Phenyl Ether	ND<330	1000	0.33
Butylbenzyl Phthalate	ND<330	1000	0.33	4-Chloroaniline	ND<660	1000	0.66
4-Chloro-3-methylphenol	ND<330	1000	0.33	2-Chloronaphthalene	ND<330	1000	0.33
2-Chlorophenol	ND<330	1000	0.33	4-Chlorophenyl Phenyl Ether	ND<330	1000	0.33
Chrysene	ND<330	1000	0.33	Dibenzo(a,h)anthracene	ND<330	1000	0.33
Dibenzofuran	ND<330	1000	0.33	Di-n-butyl Phthalate	ND<330	1000	0.33
1,2-Dichlorobenzene	ND<330	1000	0.33	1,3-Dichlorobenzene	ND<330	1000	0.33
1,4-Dichlorobenzene	ND<330	1000	0.33	3,3-Dichlorobenzidine	ND<660	1000	0.66
2,4-Dichlorophenol	ND<330	1000	0.33	Diethyl Phthalate	ND<330	1000	0.33
2,4-Dimethylphenol	ND<330	1000	0.33	Dimethyl Phthalate	ND<330	1000	0.33
4,6-Dinitro-2-methylphenol	ND<1600	1000	1.6	2,4-Dinitrophenol	ND<1600	1000	1.6
2,4-Dinitrotoluene	ND<330	1000	0.33	2,6-Dinitrotoluene	ND<330	1000	0.33
Di-n-octyl Phthalate	ND<330	1000	0.33	1,2-Diphenylhydrazine	ND<330	1000	0.33
Fluoranthene	ND<330	1000	0.33	Fluorene	ND<330	1000	0.33
Hexachlorobenzene	ND<330	1000	0.33	Hexachlorobutadiene	ND<330	1000	0.33
Hexachlorocyclopentadiene	ND<1600	1000	1.6	Hexachloroethane	ND<330	1000	0.33
Indeno (1,2,3-cd) pyrene	ND<330	1000	0.33	Isophorone	ND<330	1000	0.33
2-Methylnaphthalene	ND<330	1000	0.33	2-Methylphenol (o-Cresol)	ND<330	1000	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<330	1000	0.33	Naphthalene	ND<330	1000	0.33
2-Nitroaniline	ND<1600	1000	1.6	3-Nitroaniline	ND<1600	1000	1.6
4-Nitroaniline	ND<1600	1000	1.6	2-Nitrophenol	ND<1600	1000	1.6
4-Nitrophenol	ND<1600	1000	1.6	Nitrobenzene	ND<330	1000	0.33
N-Nitrosodiphenylamine	ND<330	1000	0.33	N-Nitrosodi-n-propylamine	ND<330	1000	0.33
Pentachlorophenol	ND<1600	1000	1.6	Phenanthrene	ND<330	1000	0.33
Phenol	ND<330	1000	0.33	Pyrene	ND<330	1000	0.33
1,2,4-Trichlorobenzene	ND<330	1000	0.33	2,4,5-Trichlorophenol	ND<330	1000	0.33
2,4,6-Trichlorophenol	ND<330	1000	0.33				

Surrogate Recoveries (%)

%SS1:	---#	%SS2:	---#
%SS3:	83.2	%SS4:	115
%SS5:	---#	%SS6:	110

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-018A
Client ID	C-3-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<6.6	20	0.33	Acenaphthylene	ND<6.6	20	0.33
Anthracene	ND<6.6	20	0.33	Benzidine	ND<32	20	1.6
Benzoic Acid	ND<32	20	1.6	Benz(a)anthracene	ND<6.6	20	0.33
Benzo(b)fluoranthene	ND<6.6	20	0.33	Benzo(k)fluoranthene	ND<6.6	20	0.33
Benzo(g,h,i)perylene	ND<6.6	20	0.33	Benzo(a)pyrene	ND<6.6	20	0.33
Benzyl Alcohol	ND<13	20	0.66	Bis (2-chloroethoxy) Methane	ND<6.6	20	0.33
Bis (2-chloroethyl) Ether	ND<6.6	20	0.33	Bis (2-chloroisopropyl) Ether	ND<6.6	20	0.33
Bis (2-ethylhexyl) Phthalate	ND<6.6	20	0.33	4-Bromophenyl Phenyl Ether	ND<6.6	20	0.33
Butylbenzyl Phthalate	ND<6.6	20	0.33	4-Chloroaniline	ND<13	20	0.66
4-Chloro-3-methylphenol	ND<6.6	20	0.33	2-Chloronaphthalene	ND<6.6	20	0.33
2-Chlorophenol	ND<6.6	20	0.33	4-Chlorophenyl Phenyl Ether	ND<6.6	20	0.33
Chrysene	ND<6.6	20	0.33	Dibenzo(a,h)anthracene	ND<6.6	20	0.33
Dibenzofuran	ND<6.6	20	0.33	Di-n-butyl Phthalate	ND<6.6	20	0.33
1,2-Dichlorobenzene	ND<6.6	20	0.33	1,3-Dichlorobenzene	ND<6.6	20	0.33
1,4-Dichlorobenzene	ND<6.6	20	0.33	3,3-Dichlorobenzidine	ND<13	20	0.66
2,4-Dichlorophenol	ND<6.6	20	0.33	Diethyl Phthalate	ND<6.6	20	0.33
2,4-Dimethylphenol	ND<6.6	20	0.33	Dimethyl Phthalate	ND<6.6	20	0.33
4,6-Dinitro-2-methylphenol	ND<32	20	1.6	2,4-Dinitrophenol	ND<32	20	1.6
2,4-Dinitrotoluene	ND<6.6	20	0.33	2,6-Dinitrotoluene	ND<6.6	20	0.33
Di-n-octyl Phthalate	ND<6.6	20	0.33	1,2-Diphenylhydrazine	ND<6.6	20	0.33
Fluoranthene	ND<6.6	20	0.33	Fluorene	ND<6.6	20	0.33
Hexachlorobenzene	ND<6.6	20	0.33	Hexachlorobutadiene	ND<6.6	20	0.33
Hexachlorocyclopentadiene	ND<32	20	1.6	Hexachloroethane	ND<6.6	20	0.33
Indeno (1,2,3-cd) pyrene	ND<6.6	20	0.33	Isophorone	ND<6.6	20	0.33
2-Methylnaphthalene	ND<6.6	20	0.33	2-Methylphenol (o-Cresol)	ND<6.6	20	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<6.6	20	0.33	Naphthalene	ND<6.6	20	0.33
2-Nitroaniline	ND<32	20	1.6	3-Nitroaniline	ND<32	20	1.6
4-Nitroaniline	ND<32	20	1.6	2-Nitrophenol	ND<32	20	1.6
4-Nitrophenol	ND<32	20	1.6	Nitrobenzene	ND<6.6	20	0.33
N-Nitrosodiphenylamine	ND<6.6	20	0.33	N-Nitrosodi-n-propylamine	ND<6.6	20	0.33
Pentachlorophenol	ND<32	20	1.6	Phenanthrene	ND<6.6	20	0.33
Phenol	ND<6.6	20	0.33	Pyrene	ND<6.6	20	0.33
1,2,4-Trichlorobenzene	ND<6.6	20	0.33	2,4,5-Trichlorophenol	ND<6.6	20	0.33
2,4,6-Trichlorophenol	ND<6.6	20	0.33				

Surrogate Recoveries (%)

%SS1:	73.0	%SS2:	81.3
%SS3:	108	%SS4:	119
%SS5:	---#	%SS6:	118

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-021A
Client ID	C-4-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<330	1000	0.33	Acenaphthylene	ND<330	1000	0.33
Anthracene	ND<330	1000	0.33	Benzidine	ND<1600	1000	1.6
Benzoic Acid	ND<1600	1000	1.6	Benz(a)anthracene	ND<330	1000	0.33
Benzo(b)fluoranthene	ND<330	1000	0.33	Benzo(k)fluoranthene	ND<330	1000	0.33
Benzo(g,h,i)perylene	ND<330	1000	0.33	Benzo(a)pyrene	ND<330	1000	0.33
Benzyl Alcohol	ND<660	1000	0.66	Bis (2-chloroethoxy) Methane	ND<330	1000	0.33
Bis (2-chloroethyl) Ether	ND<330	1000	0.33	Bis (2-chloroisopropyl) Ether	ND<330	1000	0.33
Bis (2-ethylhexyl) Phthalate	ND<330	1000	0.33	4-Bromophenyl Phenyl Ether	ND<330	1000	0.33
Butylbenzyl Phthalate	ND<330	1000	0.33	4-Chloroaniline	ND<660	1000	0.66
4-Chloro-3-methylphenol	ND<330	1000	0.33	2-Chloronaphthalene	ND<330	1000	0.33
2-Chlorophenol	ND<330	1000	0.33	4-Chlorophenyl Phenyl Ether	ND<330	1000	0.33
Chrysene	ND<330	1000	0.33	Dibenzo(a,h)anthracene	ND<330	1000	0.33
Dibenzofuran	ND<330	1000	0.33	Di-n-butyl Phthalate	ND<330	1000	0.33
1,2-Dichlorobenzene	ND<330	1000	0.33	1,3-Dichlorobenzene	ND<330	1000	0.33
1,4-Dichlorobenzene	ND<330	1000	0.33	3,3-Dichlorobenzidine	ND<660	1000	0.66
2,4-Dichlorophenol	ND<330	1000	0.33	Diethyl Phthalate	ND<330	1000	0.33
2,4-Dimethylphenol	ND<330	1000	0.33	Dimethyl Phthalate	ND<330	1000	0.33
4,6-Dinitro-2-methylphenol	ND<1600	1000	1.6	2,4-Dinitrophenol	ND<1600	1000	1.6
2,4-Dinitrotoluene	ND<330	1000	0.33	2,6-Dinitrotoluene	ND<330	1000	0.33
Di-n-octyl Phthalate	ND<330	1000	0.33	1,2-Diphenylhydrazine	ND<330	1000	0.33
Fluoranthene	ND<330	1000	0.33	Fluorene	ND<330	1000	0.33
Hexachlorobenzene	ND<330	1000	0.33	Hexachlorobutadiene	ND<330	1000	0.33
Hexachlorocyclopentadiene	ND<1600	1000	1.6	Hexachloroethane	ND<330	1000	0.33
Indeno (1,2,3-cd) pyrene	ND<330	1000	0.33	Isophorone	ND<330	1000	0.33
2-Methylnaphthalene	ND<330	1000	0.33	2-Methylphenol (o-Cresol)	ND<330	1000	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<330	1000	0.33	Naphthalene	ND<330	1000	0.33
2-Nitroaniline	ND<1600	1000	1.6	3-Nitroaniline	ND<1600	1000	1.6
4-Nitroaniline	ND<1600	1000	1.6	2-Nitrophenol	ND<1600	1000	1.6
4-Nitrophenol	ND<1600	1000	1.6	Nitrobenzene	ND<330	1000	0.33
N-Nitrosodiphenylamine	ND<330	1000	0.33	N-Nitrosodi-n-propylamine	ND<330	1000	0.33
Pentachlorophenol	ND<1600	1000	1.6	Phenanthrene	ND<330	1000	0.33
Phenol	ND<330	1000	0.33	Pyrene	ND<330	1000	0.33
1,2,4-Trichlorobenzene	ND<330	1000	0.33	2,4,5-Trichlorophenol	ND<330	1000	0.33
2,4,6-Trichlorophenol	ND<330	1000	0.33				

Surrogate Recoveries (%)

%SS1:	---#	%SS2:	---#
%SS3:	---#	%SS4:	84.7
%SS5:	---#	%SS6:	103

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-022A
Client ID	C-4-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<16	50	0.33	Acenaphthylene	ND<16	50	0.33
Anthracene	ND<16	50	0.33	Benzidine	ND<80	50	1.6
Benzoic Acid	ND<80	50	1.6	Benz(a)anthracene	ND<16	50	0.33
Benzo(b)fluoranthene	ND<16	50	0.33	Benzo(k)fluoranthene	ND<16	50	0.33
Benzo(g,h,i)perylene	ND<16	50	0.33	Benzo(a)pyrene	ND<16	50	0.33
Benzyl Alcohol	ND<33	50	0.66	Bis (2-chloroethoxy) Methane	ND<16	50	0.33
Bis (2-chloroethyl) Ether	ND<16	50	0.33	Bis (2-chloroisopropyl) Ether	ND<16	50	0.33
Bis (2-ethylhexyl) Phthalate	ND<16	50	0.33	4-Bromophenyl-Phenyl Ether	ND<16	50	0.33
Butylbenzyl Phthalate	ND<16	50	0.33	4-Chloroaniline	ND<33	50	0.66
4-Chloro-3-methylphenol	ND<16	50	0.33	2-Chloronaphthalene	ND<16	50	0.33
2-Chlorophenol	ND<16	50	0.33	4-Chlorophenyl Phenyl Ether	ND<16	50	0.33
Chrysene	ND<16	50	0.33	Dibenzo(a,h)anthracene	ND<16	50	0.33
Dibenzofuran	ND<16	50	0.33	Di-n-butyl Phthalate	ND<16	50	0.33
1,2-Dichlorobenzene	ND<16	50	0.33	1,3-Dichlorobenzene	ND<16	50	0.33
1,4-Dichlorobenzene	ND<16	50	0.33	3,3-Dichlorobenzidine	ND<33	50	0.66
2,4-Dichlorophenol	ND<16	50	0.33	Diethyl Phthalate	ND<16	50	0.33
2,4-Dimethylphenol	ND<16	50	0.33	Dimethyl Phthalate	ND<16	50	0.33
4,6-Dinitro-2-methylphenol	ND<80	50	1.6	2,4-Dinitrophenol	ND<80	50	1.6
2,4-Dinitrotoluene	ND<16	50	0.33	2,6-Dinitrotoluene	ND<16	50	0.33
Di-n-octyl Phthalate	ND<16	50	0.33	1,2-Diphenylhydrazine	ND<16	50	0.33
Fluoranthene	ND<16	50	0.33	Fluorene	ND<16	50	0.33
Hexachlorobenzene	ND<16	50	0.33	Hexachlorobutadiene	ND<16	50	0.33
Hexachlorocyclopentadiene	ND<80	50	1.6	Hexachloroethane	ND<16	50	0.33
Indeno (1,2,3-cd) pyrene	ND<16	50	0.33	Isophorone	ND<16	50	0.33
2-Methylnaphthalene	ND<16	50	0.33	2-Methylphenol (o-Cresol)	ND<16	50	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND<16	50	0.33	Naphthalene	ND<16	50	0.33
2-Nitroaniline	ND<80	50	1.6	3-Nitroaniline	ND<80	50	1.6
4-Nitroaniline	ND<80	50	1.6	2-Nitrophenol	ND<80	50	1.6
4-Nitrophenol	ND<80	50	1.6	Nitrobenzene	ND<16	50	0.33
N-Nitrosodiphenylamine	ND<16	50	0.33	N-Nitrosodi-n-propylamine	ND<16	50	0.33
Pentachlorophenol	ND<80	50	1.6	Phenanthrene	ND<16	50	0.33
Phenol	ND<16	50	0.33	Pyrene	ND<16	50	0.33
1,2,4-Trichlorobenzene	ND<16	50	0.33	2,4,5-Trichlorophenol	ND<16	50	0.33
2,4,6-Trichlorophenol	ND<16	50	0.33				

Surrogate Recoveries (%)

%SS1:	31.1	%SS2:	88.9
%SS3:	100	%SS4:	114
%SS5:	---#	%SS6:	111

Comments: j

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-026A
Client ID	C-6-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	101	%SS2:	96.7
%SS3:	114	%SS4:	118
%SS5:	91.0	%SS6:	111

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-029C
Client ID	B2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<100	10	10	Acenaphthylene	ND<100	10	10
Anthracene	ND<100	10	10	Benzidine	ND<500	10	50
Benzoic Acid	ND<500	10	50	Benz(a)anthracene	ND<100	10	10
Benzo(b)fluoranthene	ND<100	10	10	Benzo(k)fluoranthene	ND<100	10	10
Benzo(g,h,i)perylene	ND<100	10	10	Benzo(a)pyrene	ND<100	10	10
Benzyl Alcohol	ND<200	10	20	Bis (2-chloroethoxy) Methane	ND<100	10	10
Bis (2-chloroethyl) Ether	ND<100	10	10	Bis (2-chloroisopropyl) Ether	ND<100	10	10
Bis (2-ethylhexyl) Phthalate	ND<100	10	10	4-Bromophenyl Phenyl Ether	ND<100	10	10
Butylbenzyl Phthalate	ND<100	10	10	4-Chloroaniline	ND<200	10	20
4-Chloro-3-methylphenol	ND<100	10	10	2-Chloronaphthalene	ND<100	10	10
2-Chlorophenol	ND<100	10	10	4-Chlorophenyl Phenyl Ether	ND<100	10	10
Chrysene	ND<100	10	10	Dibenzo(a,h)anthracene	ND<100	10	10
Dibenzofuran	ND<100	10	10	Di-n-butyl Phthalate	ND<100	10	10
1,2-Dichlorobenzene	ND<100	10	10	1,3-Dichlorobenzene	ND<100	10	10
1,4-Dichlorobenzene	ND<100	10	10	3,3-Dichlorobenzidine	ND<200	10	20
2,4-Dichlorophenol	ND<100	10	10	Diethyl Phthalate	ND<100	10	10
2,4-Dimethylphenol	ND<100	10	10	Dimethyl Phthalate	ND<100	10	10
4,6-Dinitro-2-methylphenol	ND<500	10	50	2,4-Dinitrophenol	ND<500	10	50
2,4-Dinitrotoluene	ND<100	10	10	2,6-Dinitrotoluene	ND<100	10	10
Di-n-octyl Phthalate	ND<100	10	10	1,2-Diphenylhydrazine	ND<100	10	10
Fluoranthene	ND<100	10	10	Fluorene	ND<100	10	10
Hexachlorobenzene	ND<100	10	10	Hexachlorobutadiene	ND<100	10	10
Hexachlorocyclopentadiene	ND<500	10	50	Hexachloroethane	ND<100	10	10
Indeno (1,2,3-cd) pyrene	ND<100	10	10	Isophorone	ND<100	10	10
2-Methylnaphthalene	ND<100	10	10	2-Methylphenol (o-Cresol)	ND<100	10	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND<100	10	10	Naphthalene	ND<100	10	10
2-Nitroaniline	ND<500	10	50	3-Nitroaniline	ND<500	10	50
4-Nitroaniline	ND<500	10	50	2-Nitrophenol	ND<500	10	50
4-Nitrophenol	ND<500	10	50	Nitrobenzene	ND<100	10	10
N-Nitrosodiphenylamine	ND<100	10	10	N-Nitrosodi-n-propylamine	ND<100	10	10
Pentachlorophenol	ND<500	10	50	Phenanthrene	ND<100	10	10
Phenol	ND<100	10	10	Pyrene	ND<100	10	10
1,2,4-Trichlorobenzene	ND<100	10	10	2,4,5-Trichlorophenol	ND<100	10	10
2,4,6-Trichlorophenol	ND<100	10	10				

Surrogate Recoveries (%)

%SS1:	---#	%SS2:	---#
%SS3:	48.1	%SS4:	45.4
%SS5:	---#	%SS6:	42.8

Comments: j,i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-030C
Client ID	B3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	37.5	%SS2:	35.6
%SS3:	58.5	%SS4:	54.2
%SS5:	47.2	%SS6:	48.8

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-031C
Client ID	B55
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<200	20	10	Acenaphthylene	ND<200	20	10
Anthracene	ND<200	20	10	Benzidine	ND<1000	20	50
Benzoic Acid	ND<1000	20	50	Benz(a)anthracene	ND<200	20	10
Benzo(b)fluoranthene	ND<200	20	10	Benzo(k)fluoranthene	ND<200	20	10
Benzo(g,h,i)perylene	ND<200	20	10	Benzo(a)pyrene	ND<200	20	10
Benzyl Alcohol	ND<400	20	20	Bis (2-chloroethoxy) Methane	ND<200	20	10
Bis (2-chloroethyl) Ether	ND<200	20	10	Bis (2-chloroisopropyl) Ether	ND<200	20	10
Bis (2-ethylhexyl) Phthalate	ND<200	20	10	4-Bromophenyl Phenyl Ether	ND<200	20	10
Butylbenzyl Phthalate	ND<200	20	10	4-Chloroaniline	ND<400	20	20
4-Chloro-3-methylphenol	ND<200	20	10	2-Chloronaphthalene	ND<200	20	10
2-Chlorophenol	ND<200	20	10	4-Chlorophenyl Phenyl Ether	ND<200	20	10
Chrysene	ND<200	20	10	Dibenzo(a,h)anthracene	ND<200	20	10
Dibenzofuran	ND<200	20	10	Di-n-butyl Phthalate	ND<200	20	10
1,2-Dichlorobenzene	ND<200	20	10	1,3-Dichlorobenzene	ND<200	20	10
1,4-Dichlorobenzene	ND<200	20	10	3,3-Dichlorobenzidine	ND<400	20	20
2,4-Dichlorophenol	ND<200	20	10	Diethyl Phthalate	ND<200	20	10
2,4-Dimethylphenol	ND<200	20	10	Dimethyl Phthalate	ND<200	20	10
4,6-Dinitro-2-methylphenol	ND<1000	20	50	2,4-Dinitrophenol	ND<1000	20	50
2,4-Dinitrotoluene	ND<200	20	10	2,6-Dinitrotoluene	ND<200	20	10
Di-n-octyl Phthalate	ND<200	20	10	1,2-Diphenylhydrazine	ND<200	20	10
Fluoranthene	ND<200	20	10	Fluorene	ND<200	20	10
Hexachlorobenzene	ND<200	20	10	Hexachlorobutadiene	ND<200	20	10
Hexachlorocyclopentadiene	ND<1000	20	50	Hexachloroethane	ND<200	20	10
Indeno (1,2,3-cd) pyrene	ND<200	20	10	Isophorone	ND<200	20	10
2-Methylnaphthalene	ND<200	20	10	2-Methylphenol (o-Cresol)	ND<200	20	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND<200	20	10	Naphthalene	ND<200	20	10
2-Nitroaniline	ND<1000	20	50	3-Nitroaniline	ND<1000	20	50
4-Nitroaniline	ND<1000	20	50	2-Nitrophenol	ND<1000	20	50
4-Nitrophenol	ND<1000	20	50	Nitrobenzene	ND<200	20	10
N-Nitrosodiphenylamine	ND<200	20	10	N-Nitrosodi-n-propylamine	ND<200	20	10
Pentachlorophenol	ND<1000	20	50	Phenanthrene	ND<200	20	10
Phenol	ND<200	20	10	Pyrene	ND<200	20	10
1,2,4-Trichlorobenzene	ND<200	20	10	2,4,5-Trichlorophenol	ND<200	20	10
2,4,6-Trichlorophenol	ND<200	20	10				

Surrogate Recoveries (%)

%SS1:	--#	%SS2:	--#
%SS3:	49.1	%SS4:	58.0
%SS5:	--#	%SS6:	52.0

Comments: j,i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-032C
Client ID	C4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	39.1	%SS2:	34.7
%SS3:	58.3	%SS4:	56.7
%SS5:	51.0	%SS6:	50.1

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-033C
Client ID	C-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	30.9	%SS2:	30.6
%SS3:	48.7	%SS4:	52.0
%SS5:	36.8	%SS6:	46.8

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0207293

Lab ID	0207293-034C
Client ID	B-9
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	32.4	%SS2:	31.7
%SS3:	54.4	%SS4:	55.8
%SS5:	36.0	%SS6:	51.0

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-035C
Client ID	C10s
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	35.8	%SS2:	35.0
%SS3:	55.3	%SS4:	55.8
%SS5:	44.0	%SS6:	52.7

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/27/02

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0207293

Lab ID	0207293-036C
Client ID	B-7
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Anthracene	ND	1.0	10	Benzidine	ND	1.0	50
Benzoic Acid	ND	1.0	50	Benz(a)anthracene	ND	1.0	10
Benzo(b)fluoranthene	ND	1.0	10	Benzo(k)fluoranthene	ND	1.0	10
Benzo(g,h,i)perylene	ND	1.0	10	Benzo(a)pyrene	ND	1.0	10
Benzyl Alcohol	ND	1.0	20	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	2-Nitrophenol	ND	1.0	50
4-Nitrophenol	ND	1.0	50	Nitrobenzene	ND	1.0	10
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	31.5	%SS2:	30.5
%SS3:	55.3	%SS4:	53.9
%SS5:	46.1	%SS6:	50.3

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
2240 NorthPoint Pkwy	Client Contact: Toby Goyette	Date Extracted: 07/22/02
Santa Rosa, CA 95407	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0207293

Lab ID	0207293-005A
Client ID	B-3-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	96.1	%SS2:	105
%SS3:	114		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0207293

Lab ID	0207293-013A
Client ID	C-2-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	13	1.0	5.0	Trichloroethene	6.8	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	96.9	%SS2:	100
%SS3:	112		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-014A
Client ID	C-2-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	95.6	%SS2:	106
%SS3:	117		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-017A
Client ID	C-3-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	13	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	5.7	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	120	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	96.8	%SS2:	105
%SS3:	117		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-018A
Client ID	C-3-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	6.6	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	93.7	%SS2:	107
%SS3:	121		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue [illegible], #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-021A
Client ID	C-4-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	6.9	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	8.9	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	6.4	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	70	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	92.9	%SS2:	110
%SS3:	128		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-022A
Client ID	C-4-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	14	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	92.5	%SS2:	111
%SS3:	129		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/22/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-026A
Client ID	C-6-2
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	2-Butanone (MEK)	ND	1.0	10
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	10
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	10	4-Isopropyl toluene	ND	1.0	5.0
Isopropylbenzene	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	90.8	%SS2:	112
%SS3:	128		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-029B
Client ID	B2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	1.3	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.51	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	103	%SS2:	101
%SS3:	104		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-030B
Client ID	B3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	99.8	%SS2:	102
%SS3:	105		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-031B
Client ID	B55
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	0.54	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	94.5	%SS2:	101
%SS3:	106		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-032B
Client ID	C4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	0.56	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	93.4	%SS2:	101
%SS3:	106		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-033B
Client ID	C-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	1.0	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	92.9	%SS2:	100
%SS3:	105		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-034B
Client ID	B-9
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.52	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	93.8	%SS2:	102
%SS3:	107		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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Kleinfelder Inc.	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
2240 NorthPoint Pkwy		Date Received: 07/22/02
Santa Rosa, CA 95407	Client Contact: Toby Goyette	Date Extracted: 07/24/02-07/29/02
	Client P.O.:	Date Analyzed: 07/24/02-07/29/02

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207293

Lab ID	0207293-036B
Client ID	B-7
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	1.0	5.0	Benzene	ND	1.0	0.5
Bromobenzene	ND	1.0	0.5	Bromochloromethane	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	2-Butanone (MEK)	ND	1.0	1.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	1.0	4-Isopropyl toluene	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	92.1	%SS2:	101
%SS3:	106		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

low surrogate recovery due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder Inc. 2240 NorthPoint Pkwy Santa Rosa, CA 95407	Client Project ID: #C41-5098-01/002; 600 RP Expressway	Date Sampled: 07/19/01
		Date Received: 07/22/02
	Client Contact: Toby Goyette	Date Extracted: 07/22/02-07/23/02
	Client P.O.:	Date Analyzed: 07/23/02-07/25/02

Polychlorinated Biphenyls (PCB) Aroclors Only by GC-ECD*

Extraction method: SW3550C Analytical methods: SW8082A Work Order: 0207293

Lab ID	Client ID	Matrix	PCB	DF	% SS
0207293-005A	B-3-1	S	ND<500,o,j	10	98.4
0207293-013A	C-2-1	S	ND<1000,o,j	20	88.9
0207293-017A	C-3-1	S	ND<1000,o,j	20	92.8
0207293-021A	C-4-1	S	ND<1000,o,j	20	83.1
0207293-029D	B2	W	ND,i	1	114
0207293-030D	B3	W	ND,i	1	103
0207293-031D	B55	W	ND<5.0,o,i,j	10	91.7
0207293-032D	C4	W	ND<5.0,j	10	108
0207293-033D	C-6	W	ND<10,j,i	20	108
0207293-034D	B-9	W	ND<1,j	2	97.2
0207293-035D	C10s	W	ND,i	1	95.8
0207293-036D	B-7	W	ND,i	1	92.3

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.5	µg/L
	S	50	µg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

surrogate diluted out of range or surrogate coelutes with another peak

+(a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~2 vol. % sediment; (j) sample diluted due to high organic content; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S WorkOrder: 0207293

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 3062 Spiked Sample ID: 0207279-003A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	0.60	113	111	2.28	118	109	7.94	80	120
MTBE	ND	0.10	82.4	86.9	5.28	83.1	95.1	13.4	80	120
Benzene	ND	0.10	94.5	98.9	4.55	92.9	102	9.36	80	120
Toluene	0.03662	0.10	60.8 ,F1	64.5 ,F1	3.80	95.8	105	9.47	80	120
Ethylbenzene	0.005575	0.10	97.3	99.8	2.48	102	107	4.84	80	120
Xylenes	0.0361	0.30	88	91.3	3.28	98.3	110	11.2	80	120
%SS:	113	100	105	108	2.47	103	98.2	5.09	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike dupticate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0207293

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 3088 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	116	103	12.5	80	120
MTBE	N/A	10	N/A	N/A	N/A	88.5	98.8	11.0	80	120
Benzene	N/A	10	N/A	N/A	N/A	108	110	2.22	80	120
Toluene	N/A	10	N/A	N/A	N/A	113	114	1.30	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	115	113	1.96	80	120
Xylenes	N/A	30	N/A	N/A	N/A	113	113	0	80	120
%SS:	N/A	100	N/A	N/A	N/A	104	106	1.65	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8015C

Matrix: S WorkOrder: 0207293

EPA Method: SW8015C Extraction: SW3550C BatchID: 3068 Spiked Sample ID: 0207287-001A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	150	N/A	N/A	N/A	98.4	98.5	0.139	70	130
%SS:	N/A	100	N/A	N/A	N/A	103	103	0.436	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8015C

Matrix: S WorkOrder: 0207293

EPA Method: SW8015C Extraction: SW3550C BatchID: 3091 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	150	N/A	N/A	N/A	105	92.7	0.166	70	130
%SS:	N/A	100	N/A	N/A	N/A	100	105	0.0974	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8015C

Matrix: W WorkOrder: 0207293

EPA Method: SW8015C Extraction: SW3510C BatchID: 3095 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	109	102	6.83	70	130
%SS:	N/A	100	N/A	N/A	N/A	109	101	7.73	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8260B

Matrix: S WorkOrder: 0207293

EPA Method: SW8260B Extraction: SW5030B BatchID: 3078 Spiked Sample ID: 0207284-002A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	50	116	116	0.124	115	113	2.17	70	130
Chlorobenzene	ND	50	105	107	1.37	109	107	1.65	70	130
1,1-Dichloroethene	ND	50	91.5	89.6	2.05	94.7	91.4	3.54	70	130
Methyl-t-butyl ether (MTBE)	ND	50	116	116	0.0951	128	127	0.682	70	130
Toluene	ND	50	117	117	0.115	108	105	2.40	70	130
Trichloroethene	ND	50	80.8	81.8	1.21	83.3	81.5	2.12	70	130
%SS1:	90.9	100	96.8	95.8	1.06	104	102	2.08	70	130
%SS2:	107	100	106	105	1.17	105	104	0.429	70	130
%SS3:	111	100	115	109	6.09	101	102	0.678	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0207293

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 3086	Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	N/A	10	N/A	N/A	N/A	108	110	2.00	70	130
Chlorobenzene	N/A	10	N/A	N/A	N/A	109	112	3.17	70	130
1,1-Dichloroethene	N/A	10	N/A	N/A	N/A	78.7	82.8	5.05	70	130
Methyl-t-butyl ether (MTBE)	N/A	10	N/A	N/A	N/A	103	102	0.499	70	130
Toluene	N/A	10	N/A	N/A	N/A	117	121	2.89	70	130
Trichloroethene	N/A	10	N/A	N/A	N/A	76	78.9	3.77	70	130
%SS1:	N/A	100	N/A	N/A	N/A	91	89.9	1.17	70	130
%SS2:	N/A	100	N/A	N/A	N/A	101	101	0.428	70	130
%SS3:	N/A	100	N/A	N/A	N/A	104	104	0.200	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8270D

Matrix: S WorkOrder: 0207293

EPA Method: SW8270D Extraction: SW3550C BatchID: 3052 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	N/A	2	N/A	N/A	N/A	80	82.1	2.68	30	130
4-Chloro-3-methylphenol	N/A	4	N/A	N/A	N/A	88.3	87.2	1.19	30	130
2-Chlorophenol	N/A	4	N/A	N/A	N/A	87	84.9	2.51	30	130
1,4-Dichlorobenzene	N/A	2	N/A	N/A	N/A	79.8	84	5.07	30	130
2,4-Dinitrotoluene	N/A	2	N/A	N/A	N/A	87.8	84.6	3.68	30	130
4-Nitrophenol	N/A	4	N/A	N/A	N/A	61.7	61.5	0.211	30	130
N-Nitrosodi-n-propylamine	N/A	2	N/A	N/A	N/A	92.3	90.8	1.57	30	130
Pentachlorophenol	N/A	4	N/A	N/A	N/A	61.8	62.3	0.717	30	130
Phenol	N/A	4	N/A	N/A	N/A	86	83.9	2.50	30	130
Pyrene	N/A	2	N/A	N/A	N/A	83.5	86	3.06	30	130
1,2,4-Trichlorobenzene	N/A	2	N/A	N/A	N/A	78.1	78.5	0.600	30	130
%SS4:	N/A	100	N/A	N/A	N/A	107	114	6.24	30	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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QC SUMMARY REPORT FOR SW8270D

Matrix: W WorkOrder: 0207293

EPA Method: SW8270D Extraction: SW3510C BatchID: 3198 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Acenaphthene	N/A	50	N/A	N/A	N/A	55.7	53.7	3.64	30	130
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	51.4	49.4	3.92	30	130
2-Chlorophenol	N/A	100	N/A	N/A	N/A	48.9	47.9	2.19	30	130
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	50.7	48.8	3.78	30	130
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	57.8	56.7	1.90	30	130
4-Nitrophenol	N/A	100	N/A	N/A	N/A	47	48.7	3.51	30	130
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	54.5	53	2.88	30	130
Pentachlorophenol	N/A	100	N/A	N/A	N/A	39.7	37.9	4.70	30	130
Phenol	N/A	100	N/A	N/A	N/A	35	33.7	4.03	30	130
Pyrene	N/A	50	N/A	N/A	N/A	49.4	47.5	3.86	30	130
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	55.7	53.1	4.74	30	130
%SS4:	N/A	100	N/A	N/A	N/A	71.8	68	5.50	30	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

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

QC SUMMARY REPORT FOR SW8082A

Matrix: S WorkOrder: 0207293

EPA Method: SW8082A	Extraction: SW3550C	BatchID: 3024	Spiked Sample ID: 0207271-005A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
PCB	N/A	75	N/A	N/A	N/A	102	100	2.13	70	130
%SS:	99.3	100	107	108	1.49	104	104	0.225	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

McCampbell Analytical Inc.
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http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8082A

Matrix: W WorkOrder: 0207293

EPA Method: SW8082A Extraction: SW3510C BatchID: 3035 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
PCB	N/A	3.75	N/A	N/A	N/A	103	104	0.927	70	130
%SS:	N/A	100	N/A	N/A	N/A	98	96.8	1.24	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0207293

Client:
Kleinfelder Inc.
2240 NorthPoint Pkwy
Santa Rosa, CA 95407

TEL: (707) 571-1886
FAX: (707) 571-7813
ProjectNo: C41-5098-01/00
PO:

23-Jul-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					SW8015C	8021B/8015	SW8082A	SW8260B	SW8270D		
0207293-017	C-3-1	Soil	7/19/02		A	A	A	A	A		
0207293-018	C-3-2	Soil	7/19/01		A			A	A		
0207293-019	C-3-3	Soil	7/19/02		A						
0207293-020	C-3-4	Soil	7/19/02		A						
0207293-021	C-4-1	Soil	7/19/02		A	A	A	A	A		
0207293-022	C-4-2	Soil	7/19/02			A		A	A		
0207293-023	C-4-3	Soil	7/19/02			A					
0207293-024	C-4-4	Soil	7/19/02		A						
0207293-025	C-6-1	Soil	7/19/02			A					
0207293-026	C-6-2	Soil	7/19/02			A		A	A		
0207293-027	C-6-3	Soil	7/19/02			A					
0207293-028	C-6-4	Soil	7/19/02		A						
0207293-029	B2	Water	7/19/02		E	A	D	B	C		
0207293-030	B3	Water	7/19/01		E	A	D	B	C		
0207293-031	B55	Water	7/19/02		E		D	B	C		
0207293-031	B5S	Water	7/19/02			A					

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

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

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0207293

Client:
Kleinfelder Inc.
2240 NorthPoint Pkwy
Santa Rosa, CA 95407

TEL: (707) 571-1886
FAX: (707) 571-7813
ProjectNo: C41-5098-01/00
PO:

23-Jul-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					SW8015C	8021B/8015	SW8082A	SW8260B	SW8270D		
0207293-032	C4	Water	7/19/02		E	A	D	B	C		
0207293-033	C-6	Water	7/19/02		E	A	D	B	C		
0207293-034	B-9	Water	7/19/02		E	A	D	B	C		
0207293-035	C10s	Water	7/19/02		E	A	D	B	C		
0207293-036	B-7	Water	7/19/02		E	A	D	B	C		

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

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

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

KLEINFELDER

020724

PROJECT NO.	PROJECT NAME	RECEIVING LAB:
C41-5098-01 / 002	600 RP EXPRESSWAY	McCAMPBELL
L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number)	INSTRUCTIONS/REMARKS

#	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CON-TAINERS	TYPE OF CON-TAINERS	TPH-G, BTEX, MTBE (8015)	TPH-D & MO * (8015)	SVOCs (8270)	VOCs (8260)	PCBs (8080)	HOLD	INSTRUCTIONS/REMARKS
1	7-19-02		B-2-1	SOIL	1	BUTERATE		X					
2			B-2-2									X	
3			B-2-3				X	X					
4			B-2-4									X	
5			B-3-1				X	X	X	X	X		
6			B-3-2				X	X					
7			B-3-3									X	
8			B-3-4									X	
9			B-SS-1					X					
10			B-SS-2					X					
11			B-SS-3									X	
12			B-SS-4									X	
13			C-2-1				X	X	X	X	X		
14			C-2-2					X	X	X			
15			C-2-3					X					
16			C-2-4									X	VOAS
17			C-3-1				X	X	X	X	X		ICE/t° / PRESERVATION
18			C-3-2					X	X	X			GOOD CONDITION / APPROPRIATE
19			C-3-3					X					HEAD SPACE ABSENT / CONTAINERS
20			C-3-4									X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	7-22-02 12:30PM	DAVE LEACH 433
DAVE LEACH 433	7/22/02 15:20	YACOB TEKLE
YACOB TEKLE		Received for Laboratory by: [illegible]

Instructions/Remarks:

* - WITH SILICA GEL CLEAN-UP

STANDARD TAT

Send Results To:

KLEINFELDER
2240 NORTH POINT PARKWAY
SANTA ROSA, CA 95407
(707) 571-1883

Attn: TOBY GOYETTE

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy

CHAIN OF CUSTODY

№ 700

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS	RECEIVING LAB:
C41-5098-01 / 002	600 RP EXPRESSWAY				McCAMPBELL
L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number)				INSTRUCTIONS/REMARKS

	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CONTAINERS	TYPE OF CONTAINERS	TPH-D & Mo *	TPH-G, BTEX, MTBE	5 VOCs	VOCs	PCBs						HOLD	
1	7-19-02		C-4-1	SOIL	1	BUTYRATE	X	X	X	X	X							
2			C-4-2				X		X	X								
3			C-4-3				X											
4			C-4-4														X	
5			C-6-1				X											
6			C-6-2				X		X	X								
7			C-6-3				X											
8			C-6-4														X	
9																		
10	7-19-02		B2	H_2O	**	SEE REMARKS	X	X	X	X	X							
11			B3				X	X	X	X	X							
12			B5S				X	X	X	X	X							
13			C4				X	X	X	X	X							
14			C6				X	X	X	X	X							
15			B9				X	X	X	X	X							
16			C10S				X	X	X	X	X							
17			B7				X	X	X	X	X							
18																		
19																		
20																		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	7-22-02 12:30PM	DAVE LEACH 933
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
DAVE LEACH 933	07/22/02 15:20	YACOB
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
YACOB TEKLE		

Instructions/Remarks:

* - WITH SILICA GEL CLEAN-UP

** - 1 - AMBER (1L)
6 - VOAS (40mL)

STANDARD TAT

Send Results To:

KLEINFELDER
2240 NORTH POINT PARKWAY
SANTA ROSA, CA 95407
(707) 571-1883

Attn: TOBY GOYETTE

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy

CHAIN OF CUSTODY

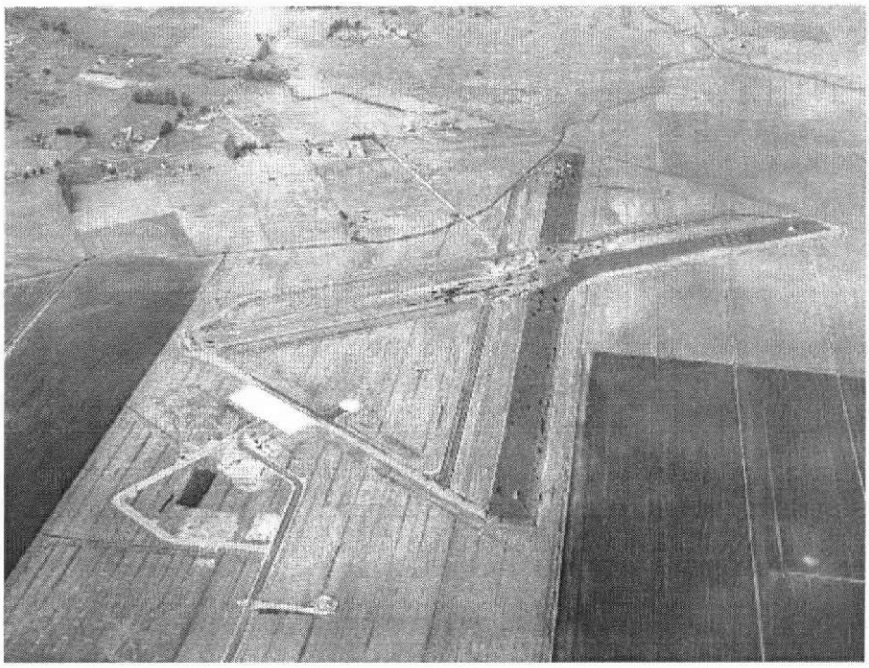
No 701

FINAL

RECORDS RESEARCH REPORT

Former Naval Auxiliary Air Station Outer Landing Field Cotati, California Formerly Used Defense Site (FUDS) #JO9CA7470

13 August 2004



US Army Corps of Engineers
Sacramento District

Prepared For:
U.S. Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, California 95814-2922

Prepared By:
Tetra Tech, Inc.
3140 Peacekeeper Way
Suite 101
McClellan, California 95652

EXECUTIVE SUMMARY

Former Naval Auxiliary Air Station Outer Landing Field Cotati California (NAAS OLF Cotati) was comprised of a 216.95-acre parcel located in Sonoma County, California, five miles south of Santa Rosa. In 1942 the United States deemed it desirable from a military standpoint to establish and maintain numerous small air fields or (auxiliary air fields) throughout several of the sovereign States for the purpose of having available at all times adequate landing fields for military planes. There were no DoD maintenance forces available at such small airfields for the maintenance and repair of the runways. The maintenance activities were generally contracted out to the various State Highway Departments. From 1942 to 1945, the U.S. Navy operated the Former Site as an auxiliary outer landing field for Alameda Naval Air Station and Santa Rosa Naval Air Station. The field was constructed on farmland acquired from the Rohnert Company and the Cotati Company. The installation consisted of approximately five buildings at the height of its use: an Operations building and control tower, a fire and crash truck building, an oil storage shed, a water pump house, and a Small Arms Storage building.

NAAS OLF Cotati became operational in 1943. The former Site was primarily used for touch and go exercises for Alameda and Santa Rosa Naval Air Stations. The former Site had two runways - one running east and west and one running northwest and southeast. The four main facilities were located on the southeast portion of the former Site. The first floor of the control tower was used for operations, consisting of a kitchen and small mess area and men's quarters. The second floor was the air traffic control portion of the building. To the east of the control tower was the oil storage shed. South of the oil storage shed was the pump house. To the west of the control tower was the fire and crash truck building. This facility housed the emergency vehicles. In 1944 the small arms storage facility was added near the eastern entrance road. An aircraft machine gun firing range, also referred to as an Airplane Target Range, and Ramp, was located along the east-west runway, at the western end of the runway. There is no known documentation that the firing range was utilized for the 2 ½ years of ownership by the U. S. Navy. In addition to the facility buildings, there were two 25,000-gallon gasoline underground storage tanks (USTs), and a fueling station. In 1945 there were several sub-base runway failures due to flood-related moisture. Documentation from the National Archives Records Administration (NARA) requested repairs for resealing the runways and was approved, but due to the extent of failures these costly repairs were never completed. After DoD ceased operations in 1945 this former Site remained idle for several years. Former NAAS OLF Cotati became surplus U.S. Navy property in 1954 and was ultimately transferred to the General Services Administration (GSA) for sale. In 1958, GSA conducted an "Appraisal of Real Estate for 216.95 acres of Improved Land known as Naval Outer Landing, West Side of Highway 101, Cotati, Sonoma County." Between the years of 1958 and 1966, the property went from public to private ownership. Title research was unable to locate the quit deed documenting this transfer. A Grant Deed indicated that Caesar-Callan Homes retained the deed for the property until they sold it in 1966 to Santa Rosa Enterprises for redevelopment. By 2004, all of the Former NAAS OLF Cotati facilities were demolished and all traces had been removed. Based on National Archives and Records Administration research, interviews, County records, aerial photographic interpretation, and newspaper reports, the following narrative summarizes the development and reuse of this former Site. The former Site is now currently developed with a combination of residential, commercial, and industrial property.

Between 1973 and 1975 several light commercial and residential sites were developed. In 1971, Redwood Drive was relocated on the eastern border of the former Site and off/on ramps constructed on the former Site. Rohnert Park Expressway also was built between 1971 and 1973. According to The Community Voice newspaper (June 10, 1997 edition), after a decade of inactivity, the Santa Rosa City Council received a permit from federal authorities to conduct drag races on the former runways and taxiways. The former Site was primary used for the annual Racing Drivers Club driver's school. In the summer of 1956, part of the east-west runway was used for quarter-mile drag racing. The track continued

to be used through much of the 1960's but saw dwindling use after Sears Point (Infineon) Raceway opened in early 1969.

Actual redevelopment of the former Site began with the State of California asking for approval of a freeway expansion easement in 1953 for US 101. Other development on the former Site includes one mobile home park - Rancho Verde Mobile Home Park, deeded March 1973, located on the northwestern portion of the former Site near the old aircraft machine gun firing range on the western portion of the east-west runway. As stated in the Environmental Impact Questionnaire (November 1972) prepared by the Civil Engineer for this project, the asphalt pavement from the former runway covering approximately 60% (27 acres) of the mobile home park site was removed, and landscaping and privacy screening installed. In a follow-up document to this questionnaire, the Planning Staff Report (File 0273 dated January 1973) stated, "*The proposed Mobile Home Park will not have a significant adverse affect on the environment*" (**Appendix K**).

In 1977, Santa Rosa Enterprises built a Pacific Gas and Electric Company (PG&E) facility as a Materials Distribution Center at 600 Rohnert Park Express Way. By 2001, PG&E relocated this facility to a new site. As part of the termination of lease activities, PG&E contracted with Kleinfelder, Inc., to complete a Phase I and Phase II Environmental Site Assessment of the site (**Appendix G**).

In 1986, Codding Enterprises began redevelopment of another portion of the former Site for retail shopping centers. In December 1990, a Phase I Environmental Site Assessment was conducted on Codding Properties Lots 2&3, Rohnert Park, California, by BACE Geotechnical, Inc., for Target Stores. The report stated there were no obvious adverse environmental problems on the site, or adjacent properties (**Appendix G**). In February 1991, a Phase II Environmental Site Assessment was conducted on Codding Properties, Lots 2 and 3 south of W. Rohnert Park Expressway at Labath Avenue, Rohnert Park, California by Certified Environmental Consulting, Inc. A phase II sampling and testing program was performed to demonstrate that the site has not suffered any identifiable or significant contamination. The sample results indicated that there was no significant contamination found on the property (**Appendix G**).

The Final Focused Environmental Impact Report for Expressway Mall was completed in March of 1991 (**Appendix H**). In a cultural resources survey performed for this environmental impact report, Archaeological Services, Inc. reported that, "*some areas are covered with fill and large pile of asphalt, possibly from a now defunct airport that was located nearby, was noted.*" However, the draft and final Environmental Impact Reports did not identify hazardous materials as a significant environmental issue.

In 1992, Target Stores had Kleinfelder, Inc. review the assessments listed above. The summary stated that the conclusion of the Phase 2 report (that there was no significant contamination found on the property, and therefore, no further work appears warranted) could not be substantiated. Kleinfelder recommended that a soil and groundwater sampling program be implemented at the site and focused on the proposed Target Stores parcel. As a result of this recommendation, Kleinfelder conducted the assessment, "Preliminary Groundwater Quality Assessment, Proposed Target Store Site, Labath Avenue and Rohnert Park Expressway" per the request of Target Stores (**Appendix G**). The assessment included six soil borings and associated soil and ground water sampling. No soil discoloration or petroleum hydrocarbon odors were noted in any of the soil samples recovered. Eight ground water samples analyzed for total petroleum hydrocarbons quantified as gasoline (TPH) and purgeable aromatic compounds benzene, toluene, xylenes, and ethylbenzene (BTEX) failed to detect any gasoline petroleum hydrocarbon compounds. The report concluded that past uses of the site and adjacent properties did not appear to have impacted the site.

In February 1992, a Phase I Environmental Assessment and Review of Property and Existing Building, Food 4 Less, 605 Rohnert Park, California was conducted by BACE Geotechnical. This report stated there was not a significant risk of soil and/or groundwater contamination by hazardous materials at the site either due to current or past uses of the property, or to off-site sources of contamination (**Appendix G**).

In September 1992, a Phase I Environmental Assessment was conducted by BACE Geotechnical for the House of Fabrics/The Craft Store, Lot 3, Rohnert Park Parcel Map, 145 Rohnert Park, California. This report stated there were no obvious adverse environmental problems on the study site, or adjacent properties (**Appendix G**).

In February 1993, "Phase I Environmental Site Assessment, Sears Homelife/Petsmart, 565 & 575 Rohnert Park, California," was prepared by BACE Geotechnical, Inc. Their report concluded that there were no adverse environmental conditions on the study site, or on adjacent properties (**Appendix G**).

The Draft Environmental Impact Report for the city of Rohnert Park General Plan Amendment and Update was completed in August of 1995 (**Appendix I**). This environmental impact report did not identify any hazardous materials, and did not conclude that hazardous materials were a significant environmental issue.

In October 1997, a report was filed on a leaking UST at Chevron #9-1912 located at 300 Rohnert Park Expressway. According to the California State Water Resources Board's Underground Storage Tank GeoTracker Program, there was a release of product containing Methyl-Tertiary-Butyl Ether (MTBE) at this address. Remedial action occurred in April 2000 by the excavation and removal of contaminated soil. According to GeoTracker this site is still being monitored. Five groundwater monitoring wells were installed. **Appendix F** contains the sampling results from the Geo Tracker program for this site.

In June 2002, "Phase I Environmental Site Assessment, 600 Rohnert Park Expressway, Rohnert Park, California," was prepared by Kleinfelder, Inc. for the lot currently occupied by the California Highway Patrol. This report states that a release of petroleum hydrocarbons from an underground storage tank used by PG&E contaminated soil and groundwater at the site. The site has been remediated to the satisfaction of the County of Sonoma Environmental Health Division, and the North Coast Regional Water Quality Control Board, and no further action was required (**Appendix G**).

Research to date has indicated that the extensive redevelopment of the Former NAAS OLF Cotati property has removed or obscured all signs of the structures, runways, underground storage tanks, and the machine gun firing range that comprised the former facility. No visible evidence of the former airfield remains.

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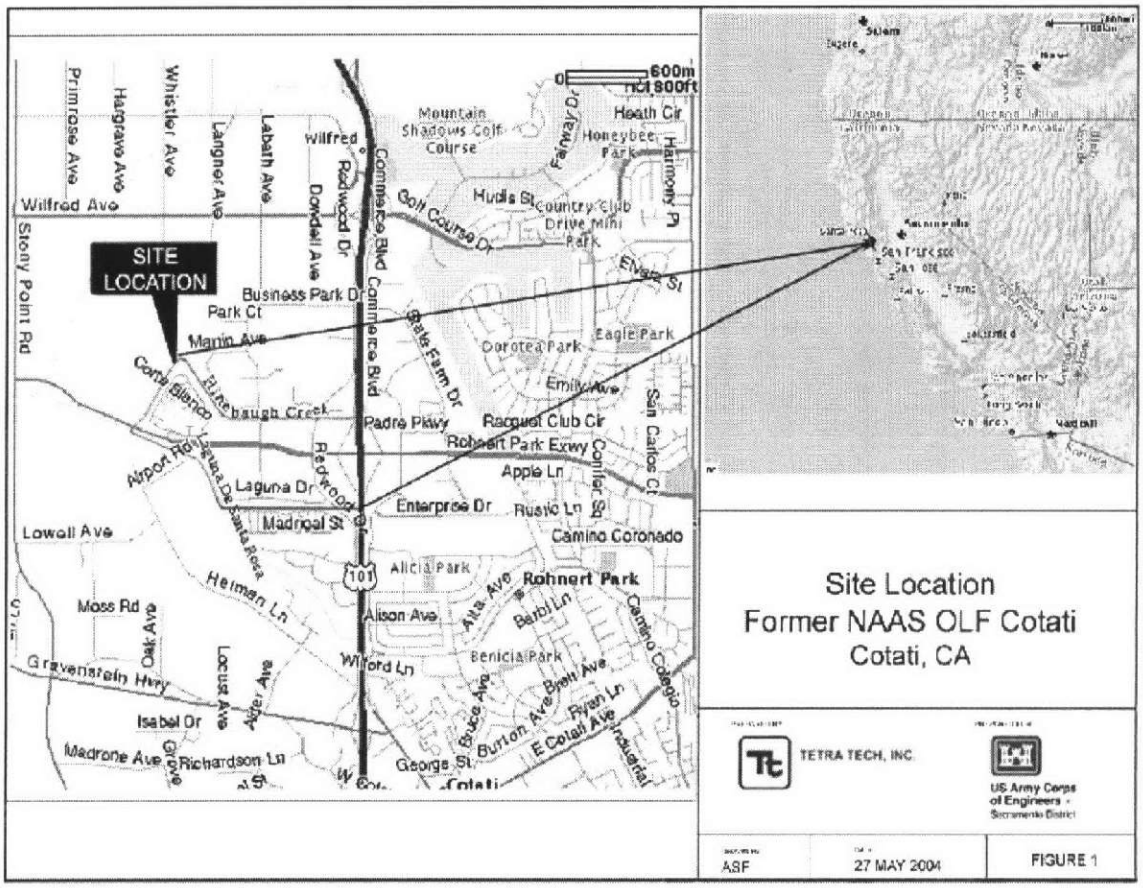
APPENDICES

1.0 INTRODUCTION

This report presents the findings of a Records Research Report prepared on behalf of the U.S. Army Corps of Engineers (USACE) in support of the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS) at the Former Naval Auxiliary Air Station Outer Landing Field Cotati, California (hereafter referred to as "Former NAAS OLF Cotati" or "Site"). The Site was also referred to as "Cotati" and "Santa Rosa Naval Auxiliary Air Station Out Lying Field Cotati." The Site is bounded by Hinebaugh Creek to the north, Hinebaugh Creek to the northwest, Laguna De Santa Rosa flood control channel to the southwest, Copeland Creek to the south and US 101 to the east (**Figure 1**). In an Inventory Project Report (TechLaw, 1999) the Site, designated No. J09CA7470, was determined to be formerly used by the Department of Defense (DoD) and eligible for the DERP for FUDS.



1.1 AUTHORITY

In 1986, Congress established the Defense Environmental Restoration Program (DERP) at 10 United States Code (USC) 2701 *et seq.* This program directed the Secretary of Defense to "*carry out a program of environmental restoration at facilities under the jurisdiction of the Secretary.*" The Department of

Defense (DoD) role in DERP is to ensure that policy and management of the overall program are consistent with the provisions of the DERP statute, and where appropriate, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (as amended by Superfund Amendments and Reauthorization Act (SARA)) and the National Oil and Hazardous Substance Pollution Contingency Plan (NCP). At a Formerly Used Defense Site (FUDS), execution of the program has been delegated by DoD to the United States Army Corps of Engineers (USACE).

The method of evaluating a FUDS property/project follows a process similar to the CERCLA process: 1) Inventory Project Report (INPR) (property eligibility document), 2) preliminary assessment (PA), 3) site inspection (SI), 4) remedial investigation/ feasibility study (RI/FS), 5) decision document, 6) remedial design/remedial action (RD/RA), and 7) long-term operation/long-term monitoring (LTO/LTM). At any point within this process, a time critical removal action can be initiated, if warranted, or a determination that no DoD action is indicated (NDAI) can be made. If a site is determined to be NDAI, a project close-out document is generated. Under the FUDS program, one of the parameters to be considered during the initiation of a project is whether the property (or specific item/site) has been beneficially used by any owner, operator, or other party that may be considered a potentially responsible party (PRP). If USACE determines the contamination was caused solely by DoD, it will be mitigated by USACE through the FUDS program. If an investigation is initiated (by any party) and DoD is determined to be only partially responsible, USACE will investigate to the extent necessary to determine DoD liability.

Consideration must also be given to the ability to identify DoD generated contaminants from contaminants introduced by other PRPs, on or off the FUDS property. If identification of separate contaminant streams cannot be achieved, or if separate remediation of DoD generated contaminants cannot be realized, the project may be ineligible for remediation under the FUDS program. If commingled contamination exists, a PRP project must be initiated and the Department of Justice will negotiate a contribution settlement with the current landowner/responsible party based on a liability analysis. Further, the DERP-FUDS policy does not allow the USACE to provide cost recovery to property owners nor does it allow USACE to recover costs from property owners for remedial work. However, the property owner may initiate an investigation and/or clean-up action and subsequently seek cost reimbursement from the Department of Justice by filing a tort claim.

For this particular site, the only prior action to have taken place to date is the development of the INPR in 1999. The USACE, Sacramento District, has determined that the INPR was insufficient to establish and initiate formal projects at Former NAAS OLF Cotati. This Records Research Report (preliminary assessment) is intended to provide the information needed to determine if any projects should be originated and proceed to the SI phase.

1.2 PURPOSE AND SCOPE

The purpose of this report is to research and evaluate operations and activities that occurred at the Former NAAS OLF Cotati. Individual sites were researched to identify, to the extent possible, the use, storage, disposal, and/or release to the environment of hazardous or potentially hazardous substances during DoD occupancy. Additionally, uses of the property prior to and after the DoD's tenure have been evaluated to determine if individual sites have been beneficially used.

The scope of services performed for this project included:

- Research and review of pertinent, readily available historic literature, newspapers, museum and historical society files, and geologic and hydrogeologic literature, as well as available historic aerial photographs and topographic maps of the Site and surrounding area;
- A reconnaissance of the Site and interviews with persons familiar with the Site;
- Review of historical chain-of-title records concerning the Site ownership;
- Evaluation of on-site hazardous substances use, storage, and/or disposal;
- Interaction with appropriate federal, state, and municipal agencies to review available records and permits;
- Acquisition and review of a regulatory agency database report; and
- Preparation and submittal of this report summarizing the results and presenting interpretations and conclusions.

1.3 METHODS OF INVESTIGATION

Literature Review. Available published and unpublished historic, geologic, hydrogeologic, and environmental reports were reviewed. A list of these references is presented in **Section 8.0** of this report.

Agency Contacts. During the course of this assessment, the following agencies and utility companies were contacted via telephone, personal interviews, and record searches for information relating to the Site area:

- National Archives Records Administration (NARA) (**Appendix A**);
- U.S. Geological Survey, National Well Inventory System (USGS NWIS);
- U.S. Fish and Wildlife Service, Ecological Services (USFWS);
- North Coast Regional Water Quality Control Board;
- Sonoma County Environmental Health Department;
- Sonoma County Recorder/Clerk;
- Sonoma County Assessor's office;
- Sonoma County Surveyor;
- Sonoma County Agricultural Inspector;
- Sonoma County Emergency Services Department;

- Rohnert Park Community Development;
- Rohnert Park Planning and Zoning;
- Rohnert Park Public Works.

Aerial Photograph Survey. Historical aerial photographs of the Site were reviewed. This review consisted of examining the photographs for evidence of previous activities that may have contributed to on-site contamination. The aerial photographs are presented in **Section 3.3**.

Topographic Map Review. Historical topographic maps obtained through Environmental Data Resources, Inc. (EDR) and NARA were reviewed to evaluate past land use and Site development. The historical topographic maps are presented in **Appendix B**.

Interviews. Interviews were conducted with county and municipal agency representatives, and other persons familiar with the Site who might have information about the history of the Site and the land surrounding it.

Regulatory Agency Database/Sanborn Map Search. EDR maintains comprehensive environmental information databases and historical information, including Sanborn Maps and City Directories, and specializes in providing such data for use in real estate and environmental documents. EDR performed a database search of specific government records within a prescribed radius of the Site in accordance with ASTM method E 1527-00 (ASTM 2000) and reviewed their Sanborn Map collection for coverage in the Site area. The EDR reports are included in **Appendix C**.

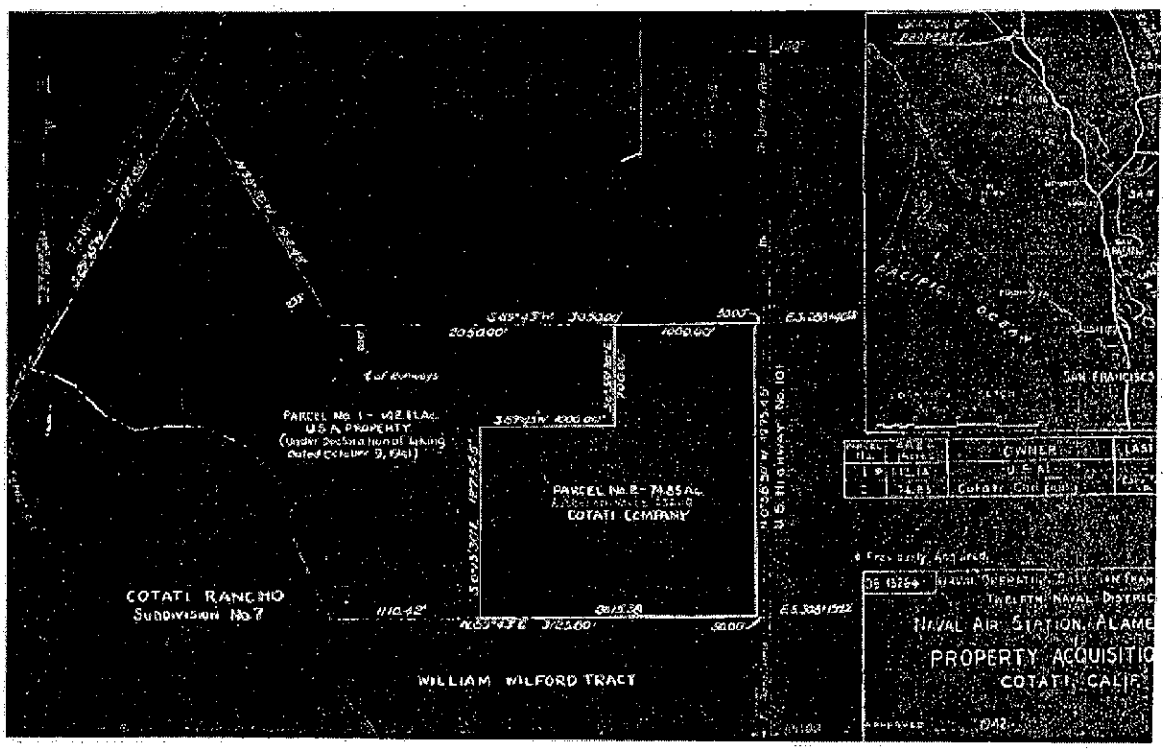
Site Reconnaissance. A site visit was conducted on 17 March 2004 by Tetra Tech. There were no obvious signs of a runway or any of the DOD structures. The area has been completely developed with ongoing construction activities. The Expressway Mall and several other businesses are located on site as well as one mobile home park and several apartment complexes.

2.0 SITE DESCRIPTION

2.1 LOCATION AND DESCRIPTION

The Former NAAS OLF Cotati was comprised of two parcels (Parcel 1 and Parcel 2) totaling 216.95 acres (see **Parcel Map** below). The Site is located west of U.S. Highway 101 in Rohnert Park, Sonoma County, California, approximately 5 miles south of Santa Rosa and 10 miles north of Petaluma (**Figure 1**). The Site currently includes strip malls housing various businesses, a trailer park, and a self-storage lot. The Site is bounded by agricultural lands to the west, commercial and residential development to the north and south, and U.S Highway 101 to the east.

Parcel Map



The legal description of the Site is as follows:

Parcel No. 1

A tract of land in the Cotati Ranch in Township 6 North, Range 8 West, M.D.B. and M., more particularly described as follows:

BEGINNING at a point in the center of the Hinebaugh Ditch and the center line of the Santa Rosa-Petaluma State Highway known as Engineer's Station 228 + 40 of the survey of said State Highway; thence S. 89° 43' W. 1050.0 feet to a point on the center line of said Hinebaugh Ditch, the real point of beginning; thence S. 0° 58 ½' E. 1275.45 feet to the north line of that certain fifty acre tract of land

conveyed to William Wilford by Deed dated July 7, 1920, and recorded in Liber 387 of Deeds, Page 306, Sonoma County Records and from which State Highway Engineer's Station 308-15.45 in the center line of said Highway bears north 89° 43' E. 2065.38 feet; thence S. 89° 43' W. 1110.42 feet more or less to the northerly line of Subdivision No. 7 Rancho Cotati (a map of said Subdivision being filed in Book 10 of maps, Page 9 Sonoma County Records); thence northwesterly along the northerly line of said Subdivision to the northwest corner of lot 182 of said Subdivision, which is on the westerly line of the Ranch Cotati; thence N. 29° 15; E. 2197.07 feet upon said westerly line of the Rancho Cotati; thence S 33° 20' E. 1931.43 feet to the center of said Hinebaugh Ditch, thence N. 89° 43' E. 2050.0 feet to the real point of the beginning containing 142.1 acres.

Parcel No. 2

A tract of land in the Cotati Rancho in Township 6 North, Range 8 West, M.D.B. and M., and more particularly described as follows:

Beginning at a point on the westerly line of the Sate Highway between Petaluma and Santa Rosa, said point bearing S. 89° 43' W., 50.00 feet from Engineer's Station 288 + 40.00 on the center line of said highway; thence S. 89° 43' W., 1000.00 feet to northeast corner of a tract of land belonging to the United States of America and referred to as Parcel No. 1 in Declaration of Taking, dated October 9, 1941; thence following the easterly boundary of said tract of land, S. 0° 58' 30" E., 700.00 feet, S. 89° 43' W., 1000.00 feet, S. 0° 13' 30" E., 1275.43 feet to the North line of that certain 50 acre tract of land conveyed to William Wilford by Deed dated July 7, 1920, and recorded in Liber 387 of Deeds, Page 306, Sonoma County Records; thence N. 89° 43; E., 2015.38 feet to a point on the westerly line of the State Highway between Petaluma and Santa Rosa, said point bearing S. 89° 45' W., 50.00 feet from the center line of said highway at Engineer's Station 308 + 15.45; thence northerly along the west line of said highway N. 0° 58' 30" W., 1975.45 feet to the point of beginning, containing 74.85 acres more or less."

2.2 NATURAL SETTING

2.2.1 Topography

Topographic maps of the former Site are presented in **Appendix B**. The site gradient is generally to the west and generally less than one-half percent based on the "Cotati, California" USGS 7.5-minute topographic quadrangle map.

2.2.2 Soils

The following summary of soil types at the Site was obtained from Environmental Data Resource's GeoCheck Physical Setting Summary (**Appendix C**), referencing the U.S.D.A Natural Resources Conservation Service's soil maps, and from NARA documents. The primary soil association at the Site is Clear Lake clay. The soil is typical of poorly drained basins and floodplains and is formed on alluvial sediments derived from the surrounding highlands. Clear Lake clay typically possesses low permeability, slow runoff characteristics, low erosion potential. This soil association does not meet the requirements for a hydric soil. The specific soil contained within the Site is classified as Dublin Adobe clay. This type of soil has a very heavy clay texture, and contains a large proportion of finer colloidal clay material which renders it exceedingly plastic and capable of absorbing large amounts of water, but when subject to long dry periods, shrinks and cracks into large blocks. This shrink/swell potential may create hazards for building foundations.

2.2.3 Geology

This site lies within the Cotati Valley in the North Coast Range geomorphic province of California. Long, narrow valleys bounded by northwest trending mountain ranges characterize the province. Cotati Valley is the southern portion of the larger Santa Rosa Valley and is bounded on the east by the Sonoma Mountains. The site is underlain by Quaternary alluvium that is several hundred feet thick. Alluvial deposits overlie rocks of the Tertiary Petaluma Formation (claystones, siltstones, and sandstones) and Tertiary volcanic rocks of the Sonoma Group. The latter lithologies also compose the portion of the Sonoma Mountains directly east of the Site (State of California Geologic Survey, formerly the Division of Mines and Geology). The presence of unconsolidated alluvium creates a potential liquefaction and/or compaction hazard. This Site is located approximately four miles southwest of the Rogers Creek fault and approximately three miles northeast of the Tolay Fault, and thus the site has potential for seismic activity and associated hazards.

2.2.4 Hydrogeology

Groundwater depth is generally 5-8 feet below ground surface at the former Site based on results listed in the California State Water Resources Control Board's GeoTracker System. The City of Rohnert Park has several water wells in the area, as depicted in **Appendix C,** Physical Setting Source Map. Groundwater is recharged through permeable soils, located along streams, rivers, and other alluvial deposits. The Sonoma Mountains are the primary source for the recharge.

2.2.5 Surface Water

This Site is located in the Russian River Drainage Basin. The Russian River is located approximately 20 miles to the north of the Site. This Site is surrounded by water features; Hinebaugh Creek flood control channel borders the Site to the North, an unnamed agricultural ditch forms the southern border, and Laguna de Santa Rosa flood control channel forms the southwest boundary. Copeland Creek is located south of Rancho Feliz Mobile Home Park. Based upon EDR's Aquiflow Information System, surface runoff generally flows to the west to the Laguna-de-Santa-Rosa Flood control channel based on the topographic maps (**Appendix C,** Physical Setting Source Map). The Site is adjacent to the 100-year and 500-year floodplains, but not within either one, according to the Flood Insurance Rate Map prepared by the Federal Emergency Management Agency (**Appendix C,** Flood Plain Map).

2.2.6 Climate

No Rohnert Park City specific climatic data were readily available; therefore, Tetra Tech, Inc. reviewed climatic data for Santa Rosa, California, which is located approximately 5 miles north of the Site. Data obtained from the National Weather Service, Western Region Climate Center (2004) indicate a mean annual temperature of 58.3 degrees Fahrenheit (F). January is typically the coldest month with an average temperature of 47.3 F, while August is typically the hottest month with average temperature of 67.6 F. Average annual precipitation is 30.3 inches a year, with December, January, and February being the wettest months with approximately 16 inches of rainfall. The driest months are June, July, and August with approximately 0.4 inches of rainfall. The mean annual wind speed is 5.5 miles per hour.

2.2.7 Natural Resources

Environmental Data Resources, Inc. provided the following biological information, primarily from a query of the California Department of Fish and Game's Natural Diversity Database - RareFind 3 (**Appendix C,** EDR's Natural Areas Map). Wildlife species that are federally listed as threatened,

endangered, or of special concern, and were reported in the region include the following: birds - bald eagle, marbled murrelet, northern spotted owl, brown pelican, California clapper rail, and western snowy plover; crustaceans and fish - California freshwater shrimp, tidewater goby, Chinook salmon, coho salmon, Sacramento splittail, Steelhead - central California population; and insects - Behren's silverspot butterfly, and Myrtle's silverspot butterfly; and mammals - Salt Marsh Harvest mouse. The following plants have also been reported in the vicinity: Sonoma Alopecurus, Burke's goldfields, yellow larkspur, clover lupine, Clara Hunt's milk-vetch, bakers stickyseed, Sonoma spineflower, white sedge, Sebastopol meadowfoam, pitkin marsh lily, yellow larkspur, vine hill clarkia, showy Indian clover, kenwood marsh checker-mallow, and pennell's bird's-beak. The California Natural Diversity Database reports two species within the Site boundaries - northwestern pond turtle (reported in the Laguna de Santa Rosa flood control channel) and western yellow-billed cuckoo, and two species within one mile of the Site - the California tiger salamander and Sebastopol meadowfoam. However, no significant wildlife or plant populations are likely to occur presently at the subject property as the Site and its general vicinity are primarily disturbed or developed and thus do not provide ideal habitat for these special status species.

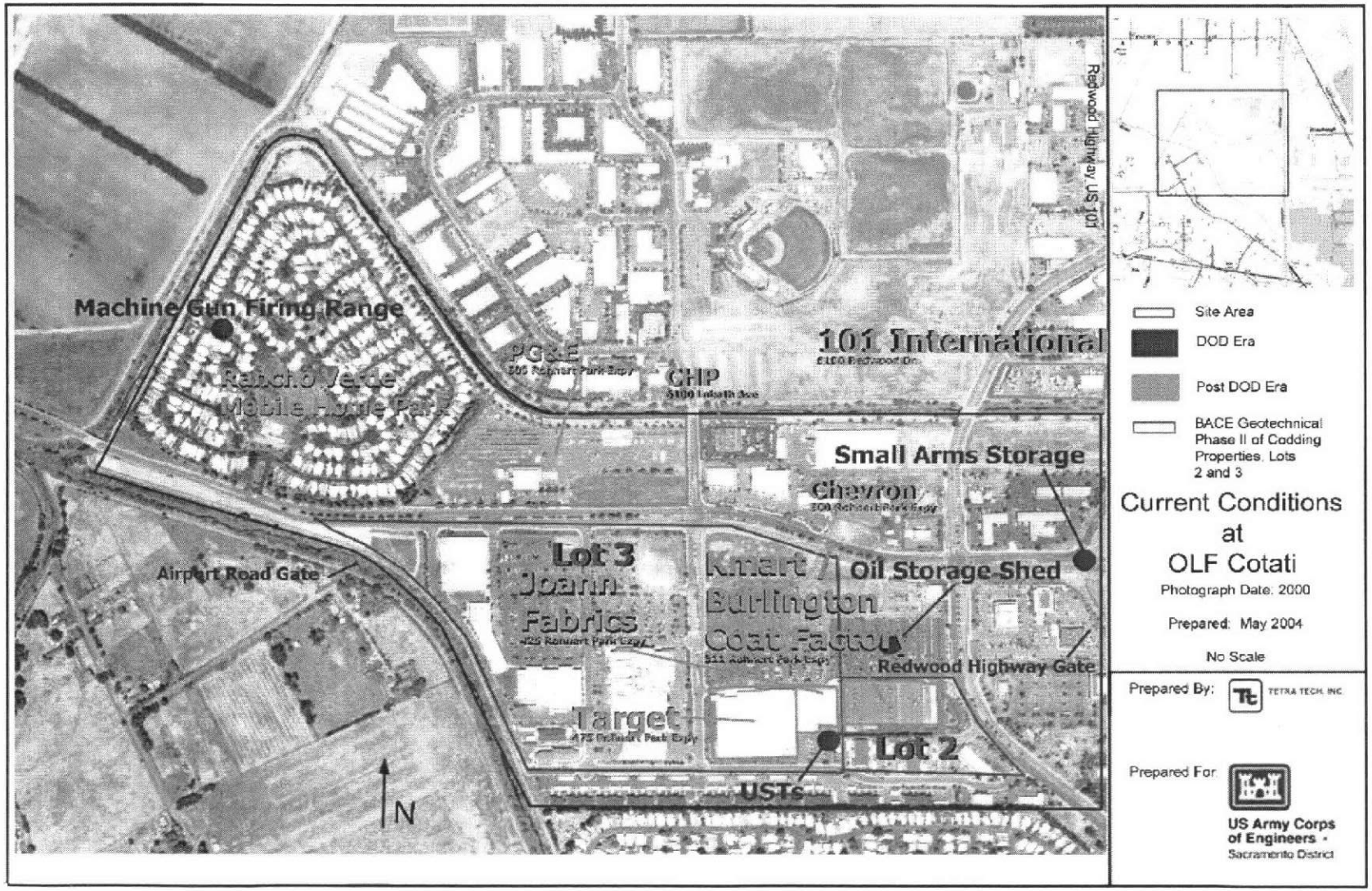
According to the US Fish and Wildlife Service's National Wetland Inventory, several jurisdictional water features exist within or adjacent to, the Former NAAS OLF Cotati: Laguna de Santa Rosa flood control channel; Hinebauh Ditch; and numerous palustrine (*i.e.*, river-associated) wetlands (**Appendix C,** EDR's National Wetlands Inventory Map).

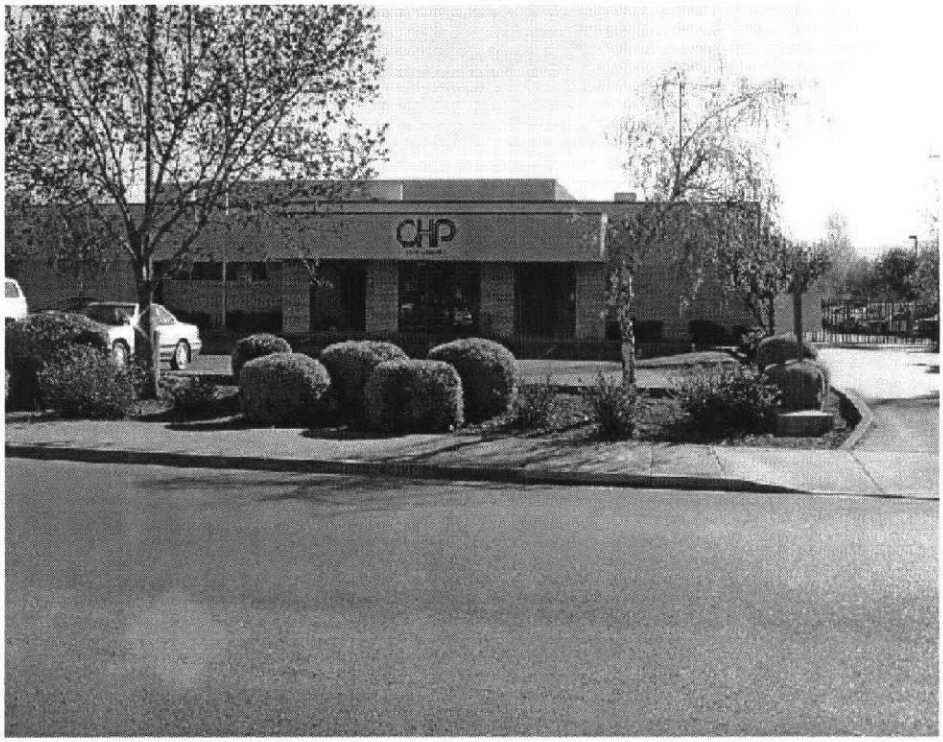
2.3 HISTORICAL/CULTURAL RESOURCES

There are no known historical or cultural resources reported or identified within the Site, according to EDR's query of the National Historic Register and California Historic Landmarks (**Appendix C,** Historic Sites Map). In the vicinity of the Site, the following recorded features occur: Cotati Downtown Plaza; Jack London State Historic Park; Petaluma Adobe building; Salvador Vallejo Adobe building, and Union Hotel and Hall. For the preparation of "Expressway Mall Final Focused Environmental Impact Report, Elgar Hill, Pinegrove, CA 94951, March 1991," a cultural resources survey was performed. This survey, prepared by Archaeological Services Inc., and entitled "Cultural Resources Survey of a Proposed Parcel Development in Rohnert Park, Sonoma County, California," did not detect any cultural resources within the project area; these findings were consistent with a previous cultural study of the same parcel performed in 1974.

2.4 CURRENT USES OF THE SITE

The Site is currently being redeveloped for mixed commercial and residential use. Several strip malls and residential dwellings are located on the site; additional development in this area is ongoing. Most of the adjacent land is used for commercial businesses and single-family housing and some agricultural use. Following is a photographic essay of current conditions; an index map of current development is provided first.

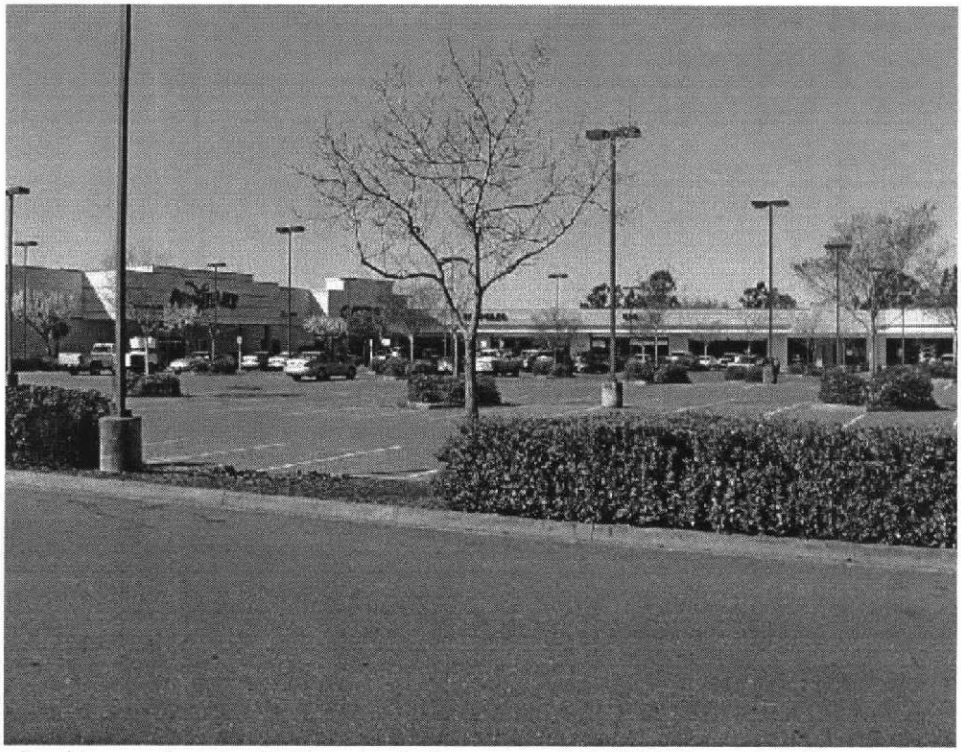

Machine Gun Firing Range
Rancho Verde
Mobile Home Park
PG&E
CHP
101 International
Redwood Highway, US 101
Small Arms Storage
Chevron
Airport Road Gate
Lot 3
Joann Fabrics
Kmart / Burlington Coat Factory
Oil Storage Shed
Redwood Highway Gate
Target
Lot 2
USTs
N
Site Area
DOD Era
Post DOD Era
BACE Geotechnical Phase II of Codding Properties, Lots 2 and 3
Current Conditions at OLF Cotati
Photograph Date: 2000
Prepared: May 2004
No Scale
Prepared By:
TETRA TECH, INC.
Prepared For:
US Army Corps of Engineers
Sacramento District



Looking east at California Highway Patrol facility (6100 Labath Ave).

Looking northeast at Rancho Verde Mobile Home Park (750 Rohnert Park Expressway).

Looking south at Furniture Store and PetSmart, 565-575 Rohnert Park Expressway

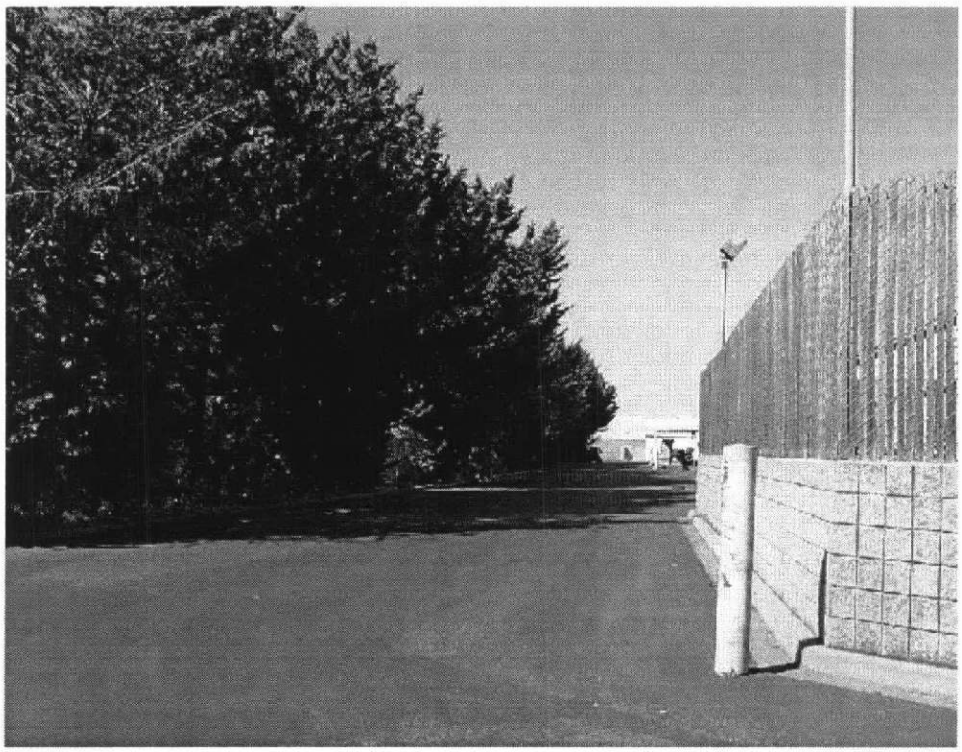


Looking southwest at PetSmart and other stores, 575-589 Rohnert Park Expressway

Looking north at a gas station at 561 Rohnert Park Expressway

Looking east at construction at 321 Rohnert Park Expressway

Looking south at Target and Joanns (475 and 425 Rohnert Park Expressway)



Looking west along the south side of Burlington Coat Factory (311 Rohnert Park Expy)

Looking west at Manor Apartments (360-458 Laguna Dr)

3.0 PAST USES OF THE SITE

3.1 SITE HISTORY SUMMARY

The Site was the location of the Former NAAS OLF Cotati from 1941 (acquired by DoD) to 1945 (last used by DoD). The tract of land upon which the airfield was built was formerly agricultural land consisting of hay farms. Between 1945 and 1947, the site sat unoccupied. The facility was closed in 1947. Starting in 1956, the Site was used for a raceway until it was sold in the early 1970s. The property was bought by a development corporation and is currently under redevelopment. The following sections detail past uses of the Site. **Table 1** and **Figure 2** provide a timeline of historical dates relating to the Site.

Table 1
General Timeline of Site History
Former NAAS OLF Cotati

Year	Event
1941	Appraisal Report for 142.1 Acres for Former NAAS OLF Cotati.
1942	Established landing strips have been completed.
1943	Acquired the remaining 74.85 Acres for the Former NAAS OLF Cotati.
1943	Construction of the facilities is under way.
1943	Construction of Taxiways, Underground Storage Tanks and Concrete Warm Up Pad, and Asphalt Tarmac is underway.
1943	Most facilities are completed, except Small Arms Storage Facility
1944	All Site facilities are in place.
1944	Elimination of runway ditches, additional property fees and easements
1945	Site construction activities are complete
1945	Runway sub-base failures due to flooding-related moisture
1948	95 Acres are Leased to M. J. Azevedo for Agricultural purposes.
1953	Approval of Freeway expansion affecting certain portions of Former NAAS OLF Cotati
1954	Navy recommends Former NAAS OLF Cotati be declared excess to the needs of naval aviation
1956	Racing Drivers Club drivers school opens; first races held on defunct runways of Former NAAS OLF Cotati

Table 1, continued
General Timeline of Site History
Former NAAS OLF Cotati

Year	Event
1958	Appraisal of Real Estate 216.95 acre parcel at Improved Land Known as Naval Outer Landing Field west side of Hwy 101, Cotati, Sonoma County for GSA
1966	Caesar-Callan Homes deeds north portion of Former NAAS OLF Cotati to Santa Rosa Enterprises (Codding Enterprises)
1971	Relocation of Redwood Hwy has begun. Freeway "On and Off" ramps are under construction.
1972	Raceway closes
1973	Codding Enterprises (Santa Rosa Enterprises) deeds north portion of Former NAAS OLF Cotati to Ranch-Verde, a limited partnership for Rancho – Verde mobile home park
1977	Santa Rosa Enterprises developed 600 Rohnert Park Expressway for PG&E Material Distribution Center. A hotel, currently Budget Inn, was constructed on the corner of Rohnert Park Expressway and Redwood Drive
1986	Construction of K-mart has been completed
1991	Codding Enterprises deeds portion of north part of Former NAAS OLF Cotati to The Price Company
1992	House of Fabric construction is completed
1993	Target Construction is completed
1993-present	Redevelopment of the Former NAAS OLF Cotati continues

Notes:
There is no documentation for the transfer of the property from the Navy department to the War Assets Administration, to the U. S. General Services Administration (GSA). Fidelity National Title Company was unable to locate the Quit Deed for this property transferring it from Public to Private ownership. There is no documentation for the actual closure of Former NAAS OLF Cotati. Runway sub-base failures in 1945 made maintaining the runways too costly for the Navy. A complete runway overhaul was requested but never funded and the Navy stopped using the facility.

Former NAAS OLF Cotati

Timeline of Events

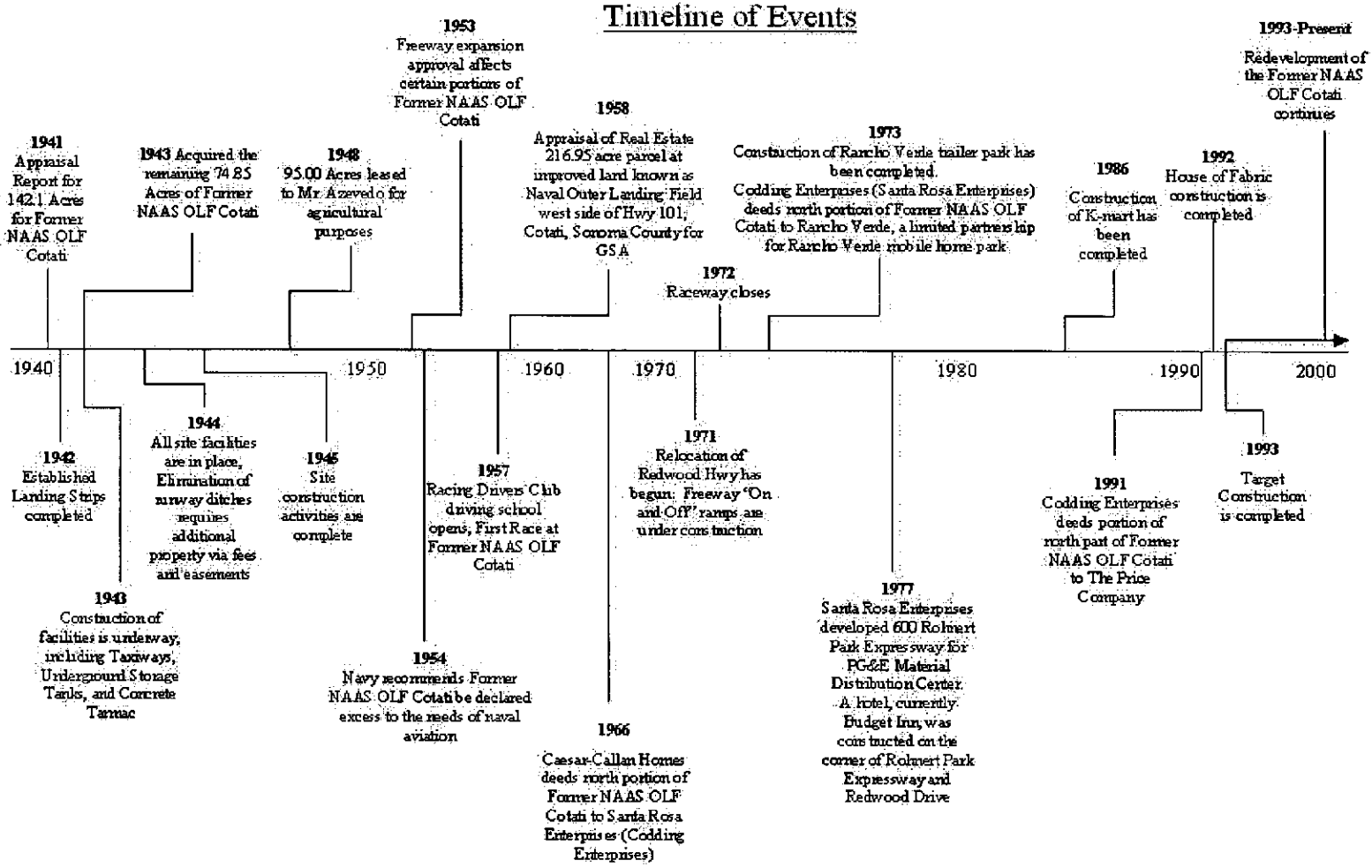


FIGURE 2

3.1.1 Cotati Outer Landing Field

The DoD acquired the Site in 1941. By 1942, two runways had been constructed: one running east and west the other northwest and southeast (**Figure 3**). NAAS OLF Cotati started operations 30 June 1943. The Site was primarily used for takeoff and landing exercises for Alameda and Santa Rosa Naval Air stations. The airfield was constructed on agricultural land adjacent to the corporate limits of Cotati City, which later became Rohnert Park. Several pre-existing farm residences remained near the property after the landing field was constructed. The June 10, 1997 Community Voice newspaper article entitled, "Short wartime saga of the Cotati Naval Outlying Field," gives a detailed history of the Site (**Appendix D**). The installation consisted of approximately five buildings: Operations and Control Tower, Crash Truck building, Oil Storage Shed, Pump house, and Small Arms Storage (**Table 2** and **Figure 4**). There are no traces of these facilities currently at the Site.

Table 2
Building Inventory
Former NAAS OLF Cotati

Building	Former NAAS OLF Cotati	Comment/Concerns
1	Operations and Control Tower	N/A
2	Fire and Crash Truck Garage	N/A
3	2 Gasoline Tanks (25,000 gal. each)	UST
4	Oil Storage Shed	POL
5	Well, Tank, Pump House	N/A
6	Small Arms Magazine	ORD

Notes:

UST - underground storage tank
N/A - not applicable or unknown
ORD - ordinance
POL - petroleum/oil/lubricant

Source: War Assets Administration, Real Property Division, Plot Plan and Building Layout, Outer Landing Field, Cotati, California, June 1943

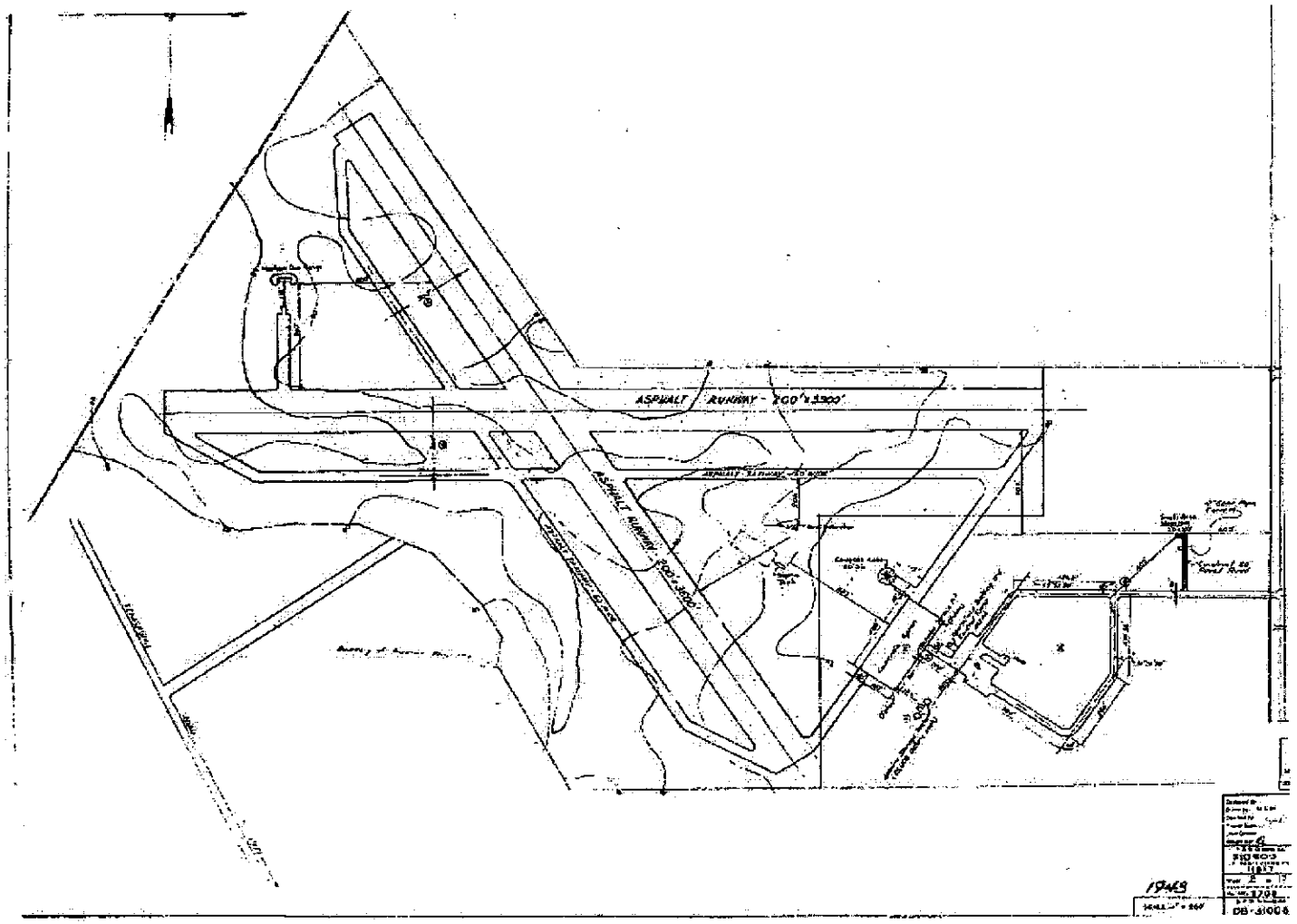


Figure 3. Conditions of Former NAAS OLF Cotati as of 1943 (NARA document); see Appendix for enlargement.

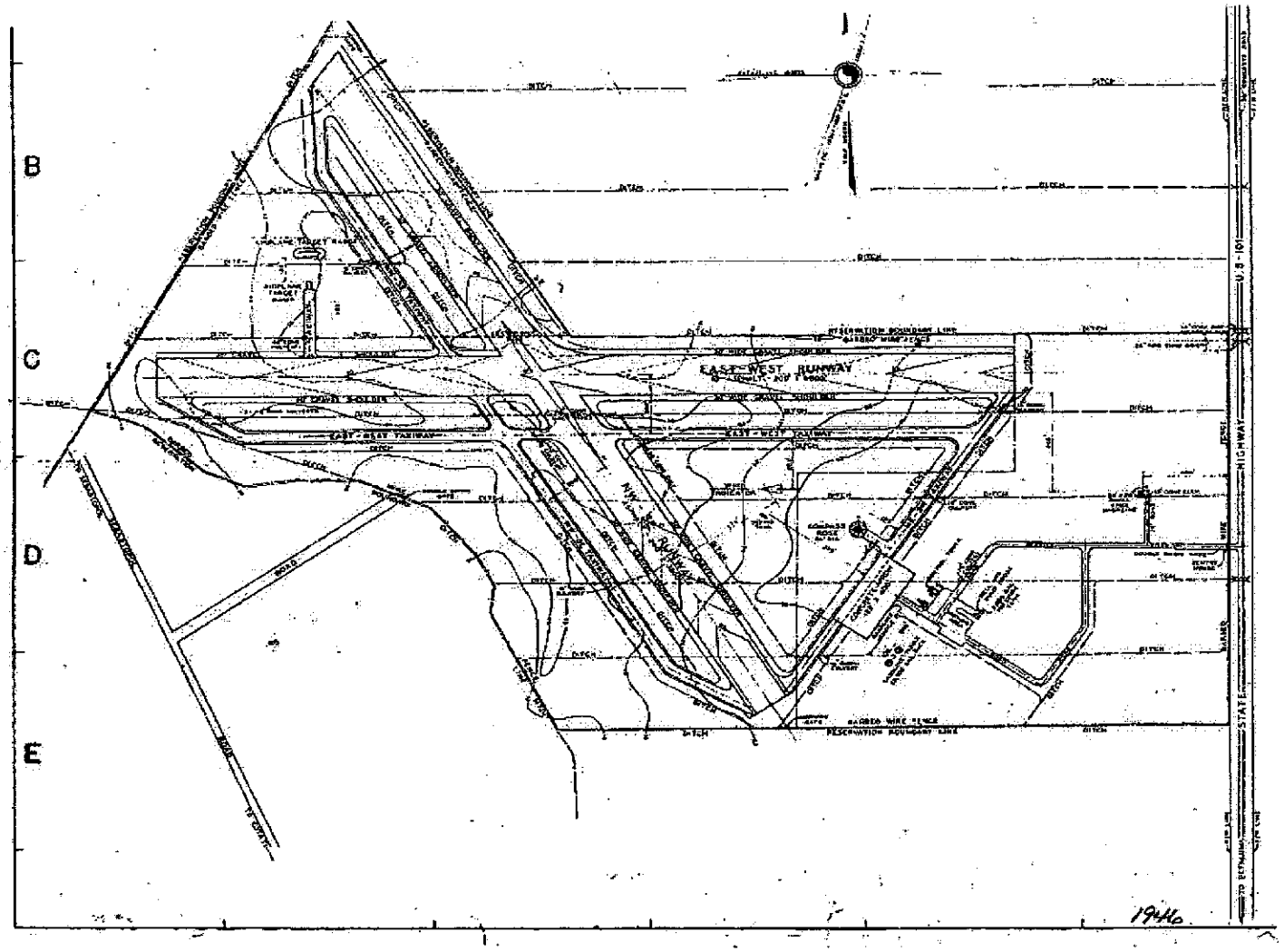
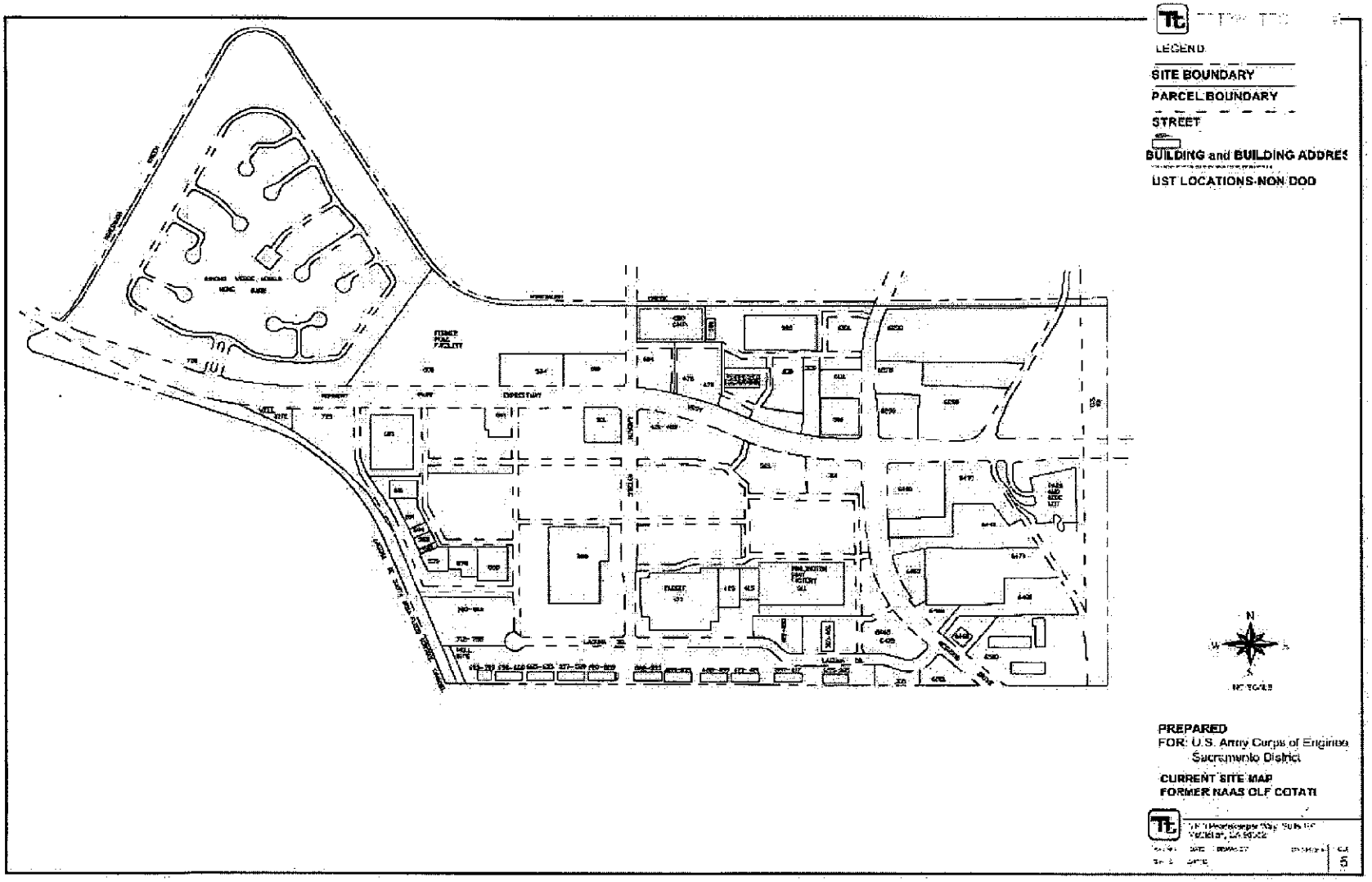


Figure 4. Conditions of Former NAAS OLF Cotati as of 1946 (NARA document); see Appendix for enlargement.

The operations and control tower were permanent buildings located in the southeastern portion of the Site. This area also contained the oil storage shed and the fire and crash truck building. The buildings had concrete foundations, wood siding, wooden floors, and composition shingle roofing. The Small Arms Magazine facility was a 20 x 20 foot concrete bunker located just west of the Redwood Highway. Water was provided by well, 25,000-gallon tank, and pump house. In addition to these structures, the Site had two 25,000-gallon gasoline underground storage tanks (USTs), and a fueling pit. There was a central sanitary septic tank near the prevailing wind indicator. There was also an aircraft machine gun firing range also known as a Aircraft Target Range located at the west end of the east-west runway. An appraisal report dated May 26, 1958, states that electricity and gas were provided by Pacific Gas and Electric Company (PG&E) and the water provided by a municipal utility district. The airfield was closed due to the high maintenance costs associated with runway repairs from flood-related damage.

3.1.2 Redevelopment

Redevelopment of the site began with freeway expansion in the 1950s. The former Site was used as a racetrack, with its first official race in May 1957; the site was closed to racing in 1972. Between 1973 and 1975 Codding Enterprises and Rancho-Verde developed several light commercial and residential sites. The Rancho Verde Mobile Home Park was developed on the northwest side of the former Site encompassing the former aircraft machine gun firing range. Rohnert Park expressway also was built. Santa Rosa Enterprises (Codding Enterprises) built a PG&E materials distribution center in 1977 according to a Phase I assessment by Kleinfelder, Inc. (June 2002); a hotel and K-Mart were constructed later. Over the years, there has been steady development of the Site. **Figure 5** shows the current site plan and **Figure 6** shows recent (1993) site development.


LEGEND
SITE BOUNDARY
PARCEL BOUNDARY
STREET
BUILDING and BUILDING ADDRES
UST LOCATIONS-NON DOD
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PREPARED
FOR: U.S. Army Corps of Engineers
Sacramento District
CURRENT SITE MAP
FORMER NAAS OLF COTATI
5

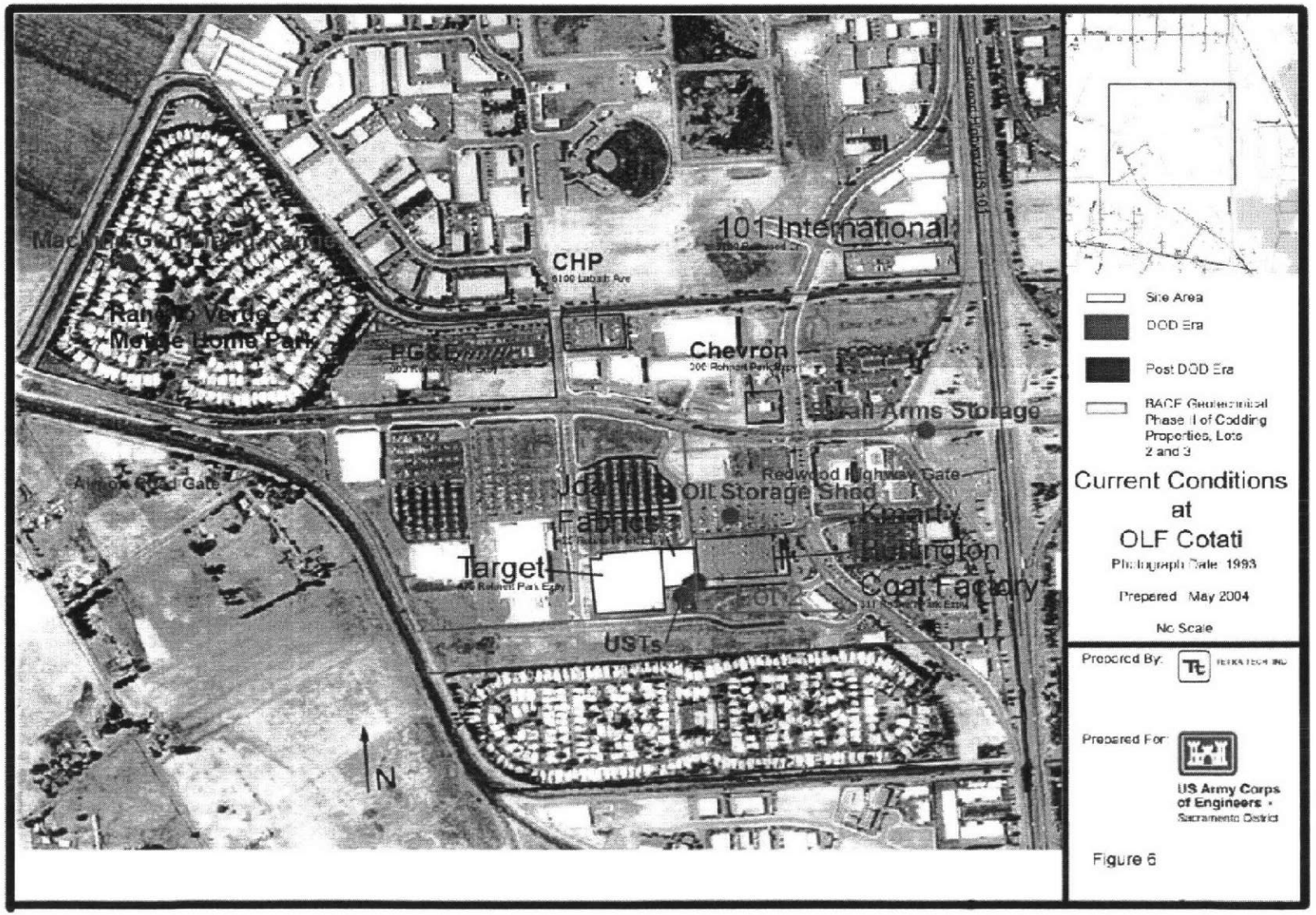
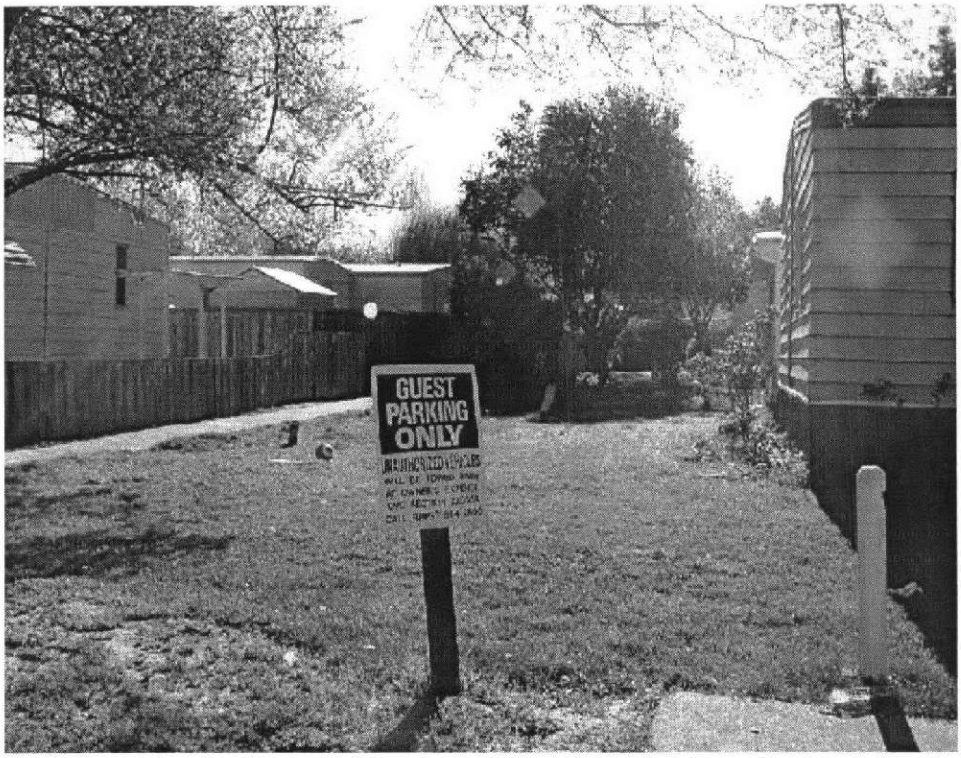

101 International
CHP
6100 Labath Ave
Chevron
200 Rohnert Park Expy
Redwood Highway Gate
Oil Storage Shed
Target
USTs
N
Site Area
DOD Era
Post DOD Era
BACE Geotechnical Phase I of Codding Properties, Lots 2 and 3
Current Conditions at OLF Cotati
Photograph Date: 1993
Prepared: May 2004
No Scale
Prepared By:
Prepared For:
US Army Corps of Engineers
Sacramento District

Figure 6

Following is a photographic essay showing former areas of interest and their current condition.



Looking southeast at Rancho Verde Mobile Home Park at the approximate location of the berm of the airplane target range.

Looking west at construction on former PG&E site (600 Rohnert Park Expressway).

Looking west at construction at former PG&E Facility (600 Rohnert Park Expressway)

3.2 NATIONAL ARCHIVES RECORDS ADMINISTRATION

The National Archives and Records Administration (NARA) is an independent Federal agency that preserves and manages all Federal records for public viewing. The NARA has 30 locations nationwide. Offices visited for Former NAAS OLF Cotati research include:

College Park
8601 Adelphi Road
College Park, Maryland 20740-6001

Pacific Region (San Francisco)
1000 Commodore Drive
San Bruno, California 94066-2350

NARA archives various forms of media, historical data, real property records, official correspondence, photographs, maps and architectural drawings, etc. Record Groups (RG) accessed for this study include:

RG 38– Records of the Office of the Chief of Naval Operations

Advises the President, Secretary of the Navy, and Chief of Naval Operations (CNO) on the administration of the navy and on naval warfare. Administers naval programs to support manpower, materiel, weapons, and logistical needs; research and development activities; strategic planning; and the organization, training, and readiness of forces.

- Box 428 War Diaries Twelfth Naval District.
- Box 445 War Diaries Twelfth Naval District.

RG 71 – Records of the Bureau of Yards and Docks:

Designed, constructed, and maintained all naval facilities and utilities. Obtained real estate for navy use.

- Box 28-42 Naval Property Case Files

RG 72 – Records of the Bureau of Aeronautics:

Advised the Secretary of the Navy, the Chief of Naval Operations, and the Department of the Navy on matters relating to naval aviation. Directed testing and procurement activities for aircraft and components. Maintained and supplied shore stations and installations and the fleet air arm. Supervised the maintenance, repair, and salvage of naval aircraft.

- Box 139 General Correspondence 1959
- Box 146 General Correspondence 1959
- Box 148 General Correspondence 1958
- Box 163 General Correspondence 1952
- Box 180-181 General Correspondence 1951
- Box 186-187 General Correspondence 1954
- Box 186-187 General Correspondence 1952

- Box 193-194 General Correspondence 1951
- Box 195-196 General Correspondence 1955
- Box 206 General Correspondence 1955
- Box 215-216 Naval Air Station Alameda 1940-44
- Box 256 General Correspondence 1953
- Box 269 General Correspondence
- Box 394 General Correspondence 1945

RG 74– Records of the Bureau of Ordnance:

Procured, stored, and issued all ordinance and ordinance equipment used by the navy. Operated ordnance production and storage facilities.

- Box 30 General Correspondence 1915-1944
- Box 60 General Correspondence 1907-1949
- Box 190-191 Construction and Procurement 1947
- Box 256 Construction and Procurement 1946
- Box 269 Construction and Procurement 1946

RG 77 – Records of the Office of the Chief of Engineers:

Supervises the activities of the Corps of Engineers. Provides advice and assistance to the Secretary of the Army, the Chief of Staff and other members of the Army Staff, and other Department of the Army organizations. Provides general and specialized engineering services for the army, the Department of Defense, and other government agencies. Administers the civil works program, a comprehensive federal program for water resources development, including river and harbor improvements, flood control, and hydroelectric power.

- Box 1-24 Airfields and related facilities
- Box 51-57 Airfields

RG 291 – Records of the Federal Property Resources Service:

Administers utilization and disposal of surplus federal real property. Administered personal property disposal, 1978-82 (to FSS, July 1982). Administered critical stockpile disposal, 1978-88 (to Defense Logistics Agency, July 1988).

- Box 19 Real Property Disposal case files
- Box 51-57 Airfields

RG 145 – Records of the Agricultural Stabilization and Conservation Service:

Administers agricultural price support, production adjustment, and conservation assistance programs; and international commodity agreements.

- Map Sonoma County 1953
- Box 51-57 Airfields

RG 95 – Records of the Forest Service:

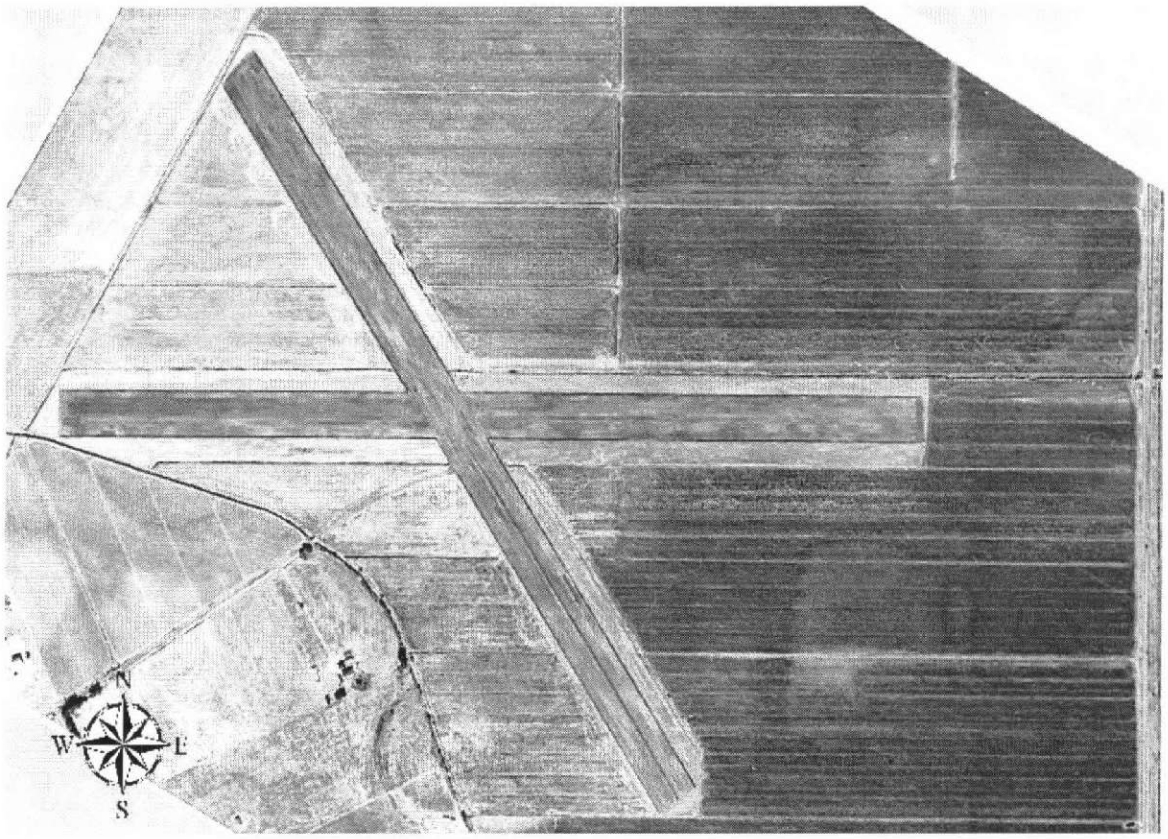
Administers the national forest system. Promotes conservation and use of national forests and grasslands. Conducts forest and range research. Assists and cooperates with administrators of state and private forests.

- Map Sonoma County 1947P

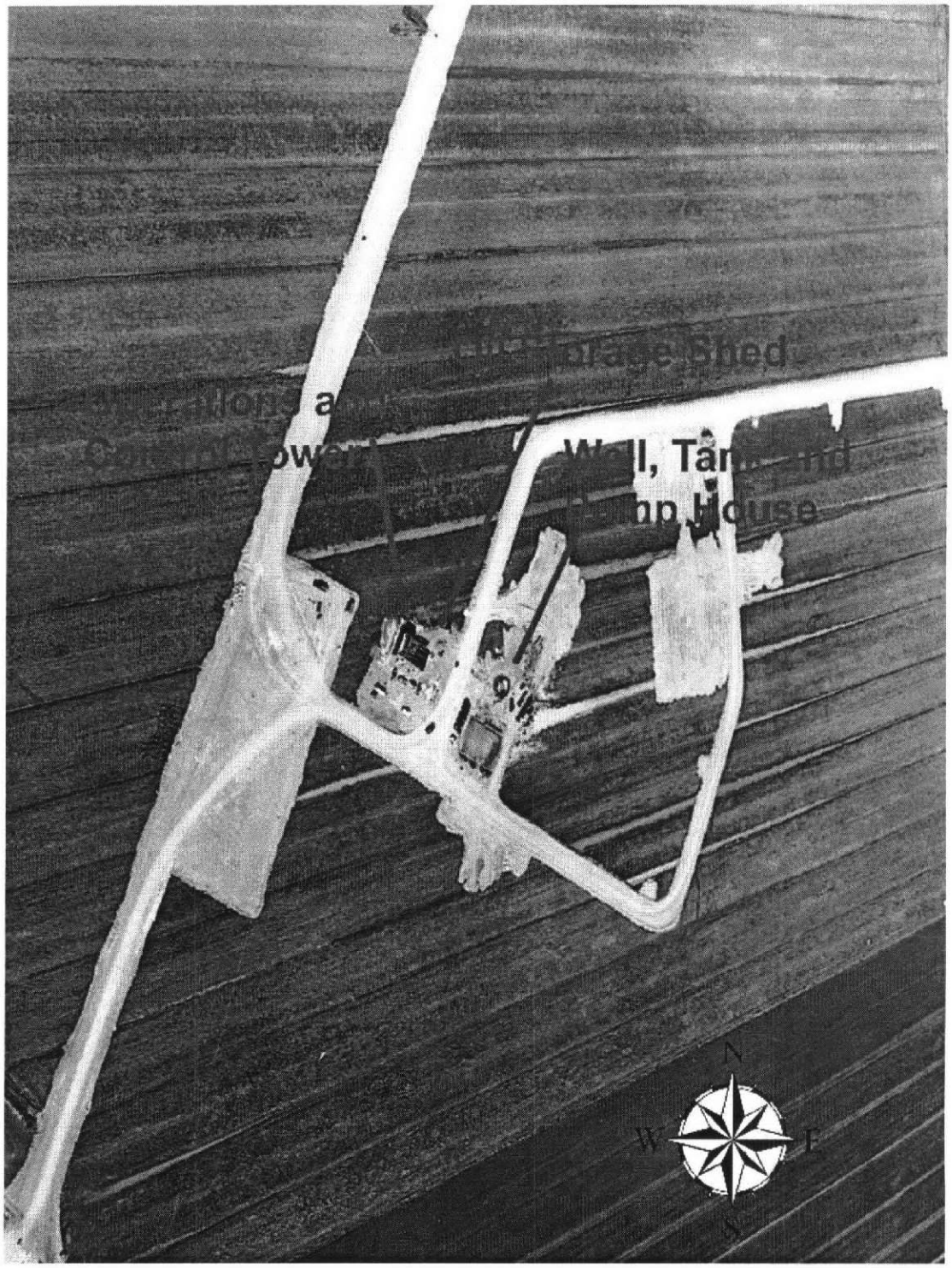
3.3 HISTORICAL AERIAL PHOTOGRAPHS

Tetra Tech obtained all available historical aerial photographs of Former NAAS OLF Cotati from four sources. Photographs dated 1942, 1943, 1944, and 1945 were obtained from the NARA in College Park, Maryland. Photographs dated 1953, 1965, 1982 and 1993 were obtained from EDR-Aerial Photography Print Service. Photographs dated 1965, 1982, and 1993 were obtained from the USDA Aerial Photography Field Office. Photographs dated November 1977 and March 1987 were obtained from the City of Rohnert Park, in Rohnert Park, California. Following is a discussion of each aerial photograph in relation to site history.

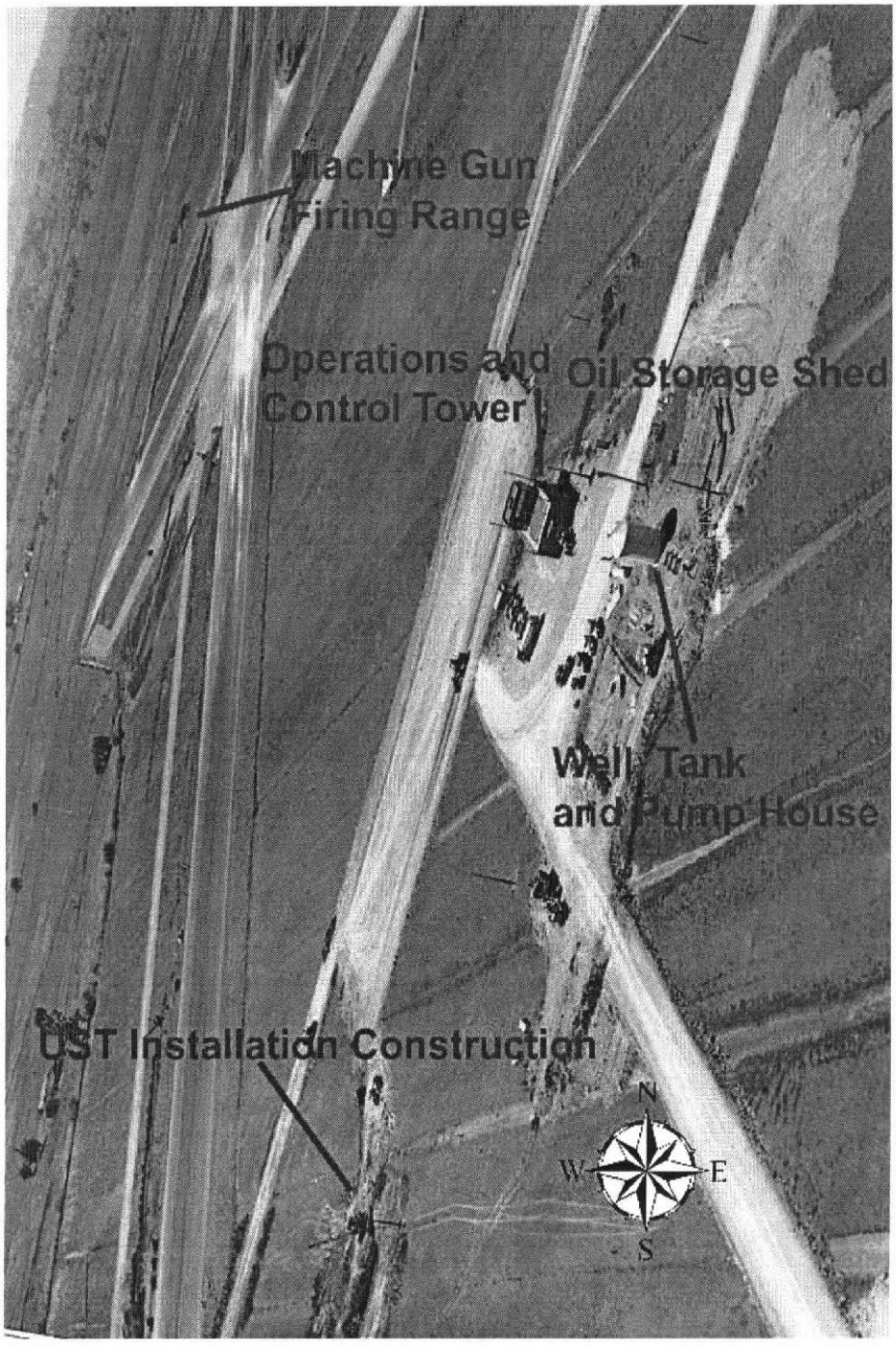
Aerial Photograph Dated 1942. This photograph was taken prior to the construction of any buildings or tanks. The runway layout is visible, but the concrete apron has not yet been constructed. Lands in agricultural production (primarily hay fields) border the site on the northeast and southeast, and rural residences border the site on the southwest border of the facility along with a drainage ditch, used possibly for flood control purposes.



Aerial Photograph Dated 3 October 1942. This aerial photograph shows that the runways are established, although the concrete apron has not yet been constructed. No building facilities are present.

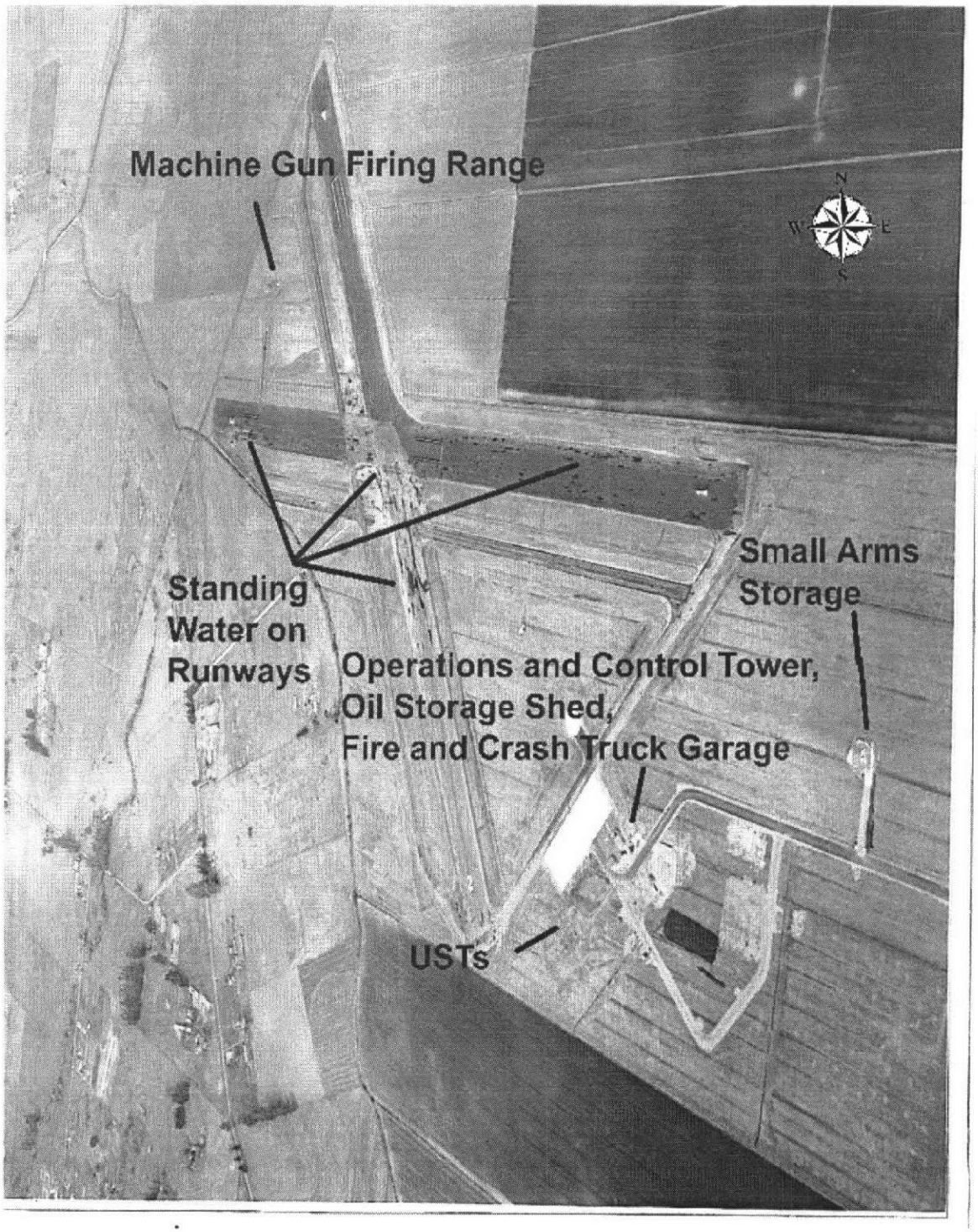


Aerial Photograph Dated 9 April 1943. In this aerial photograph, the site facilities are well under construction. The Control Tower/Operations building has been constructed. The concrete apron, water tank, and parking lot appear to be under construction. The two underground storage tanks have not yet been installed. Construction equipment is visible on taxiways and building sties.

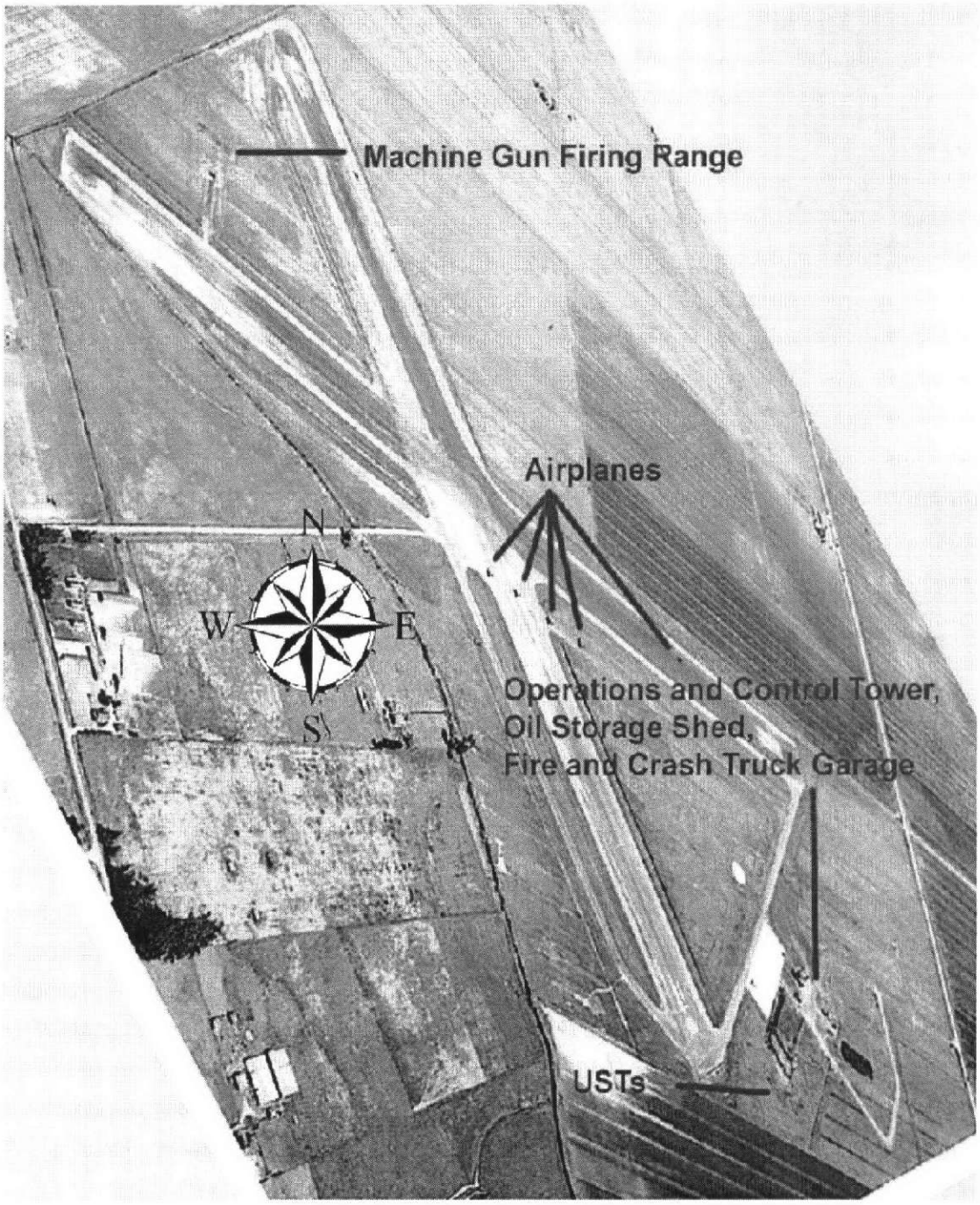


Aerial Photograph Dated 7 May 1943. This aerial photograph shows that the operations building / control tower has been built, as well as the water tank, and wind indicator. The original site plans indicate that a septic system was installed adjacent to the wind indicator; however, there is no visible indication of this system in any of the available aerial photographs. The concrete apron, parking lot, and runways and taxiways are still under construction or in the process of being paved. Concrete piping for drainage improvements is also visible. On the far left of the photograph, crane excavation for the gasoline storage tanks is visible. In the distance, the aircraft machine gun firing range is visible.

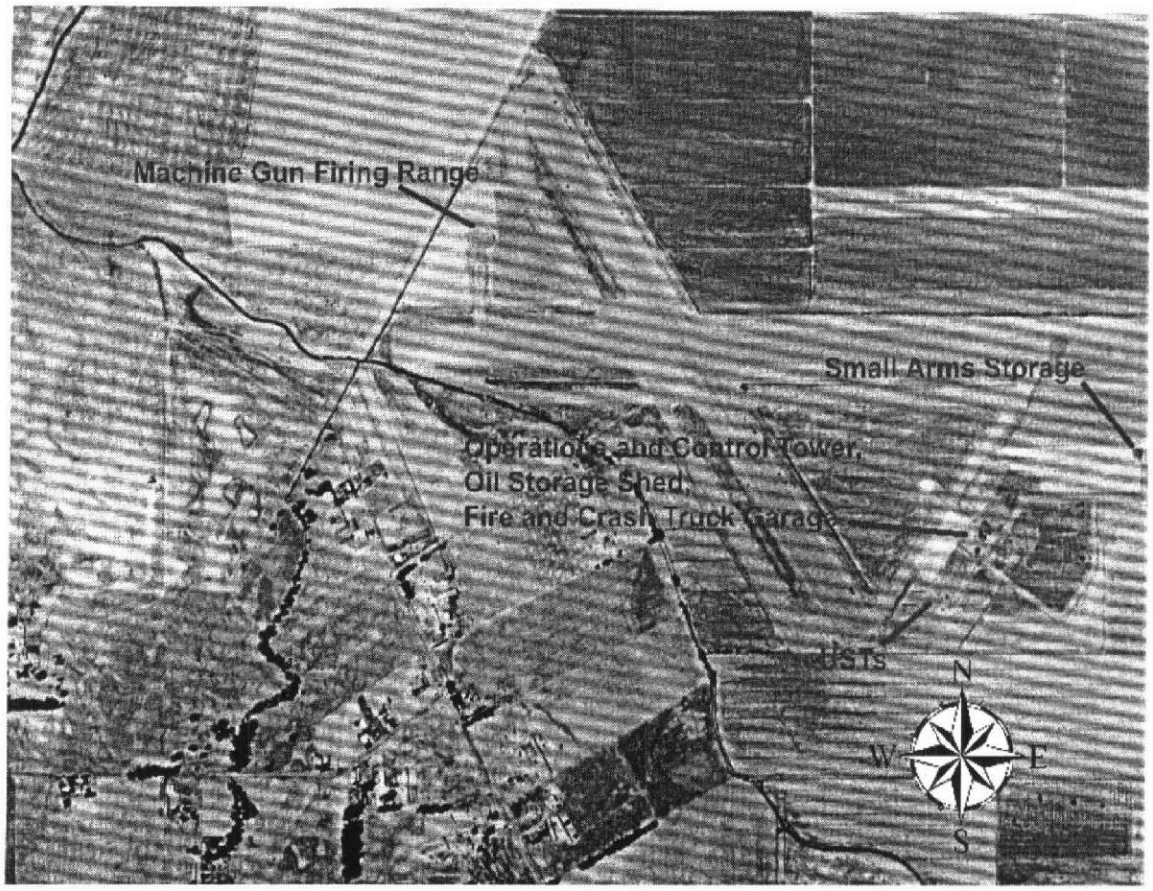
Aerial Photograph Dated 1 November 1943. This photograph shows the facility to be completely installed except for the small arms storage facility that is not yet constructed. Visible are the operations building / control tower, water tank, fuel storage tanks, concrete apron, compass rosette, wind indicator, runways and taxiways. The aircraft machine gun firing range is also clearly visible and there are no obvious signs of use.



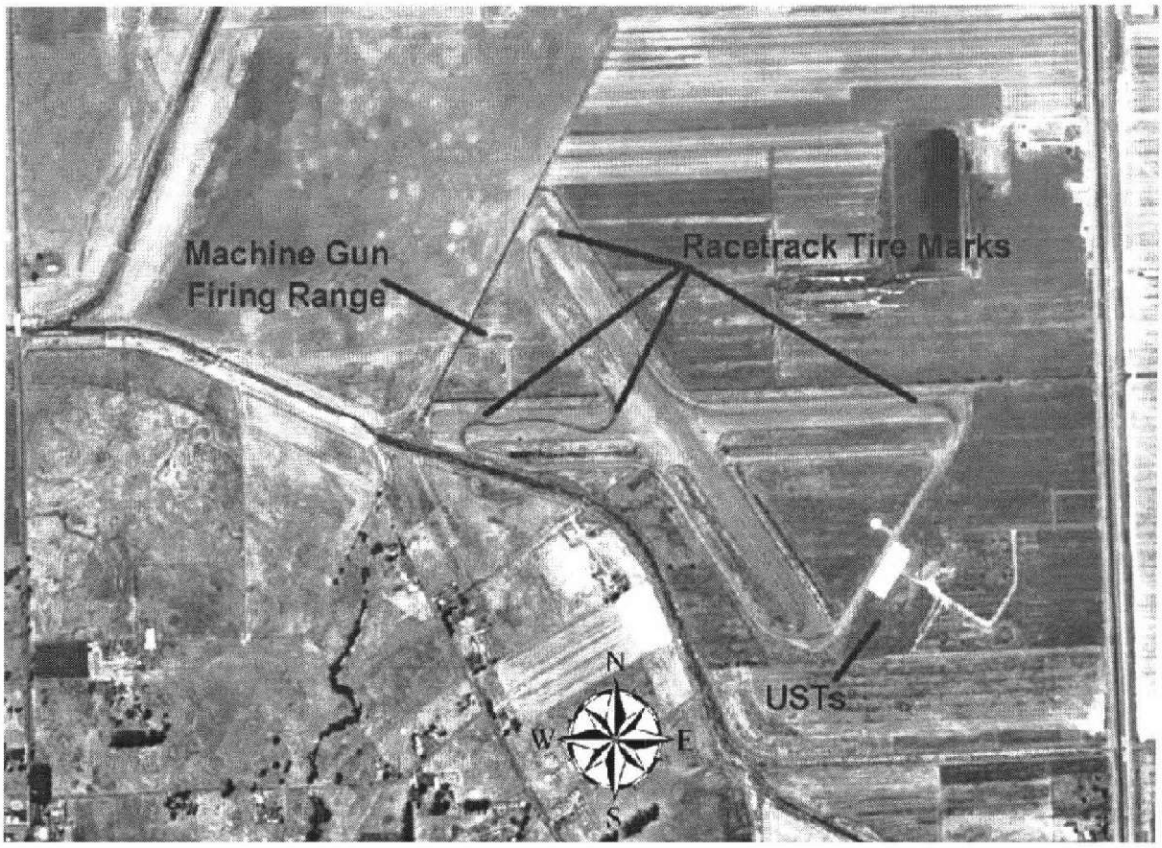
Aerial Photograph Dated 20 April 1944. This photograph shows the completed facility, including the small arms storage building. There are no further signs of construction. Poor drainage has resulted in ponded water that is noticeable on the runways.



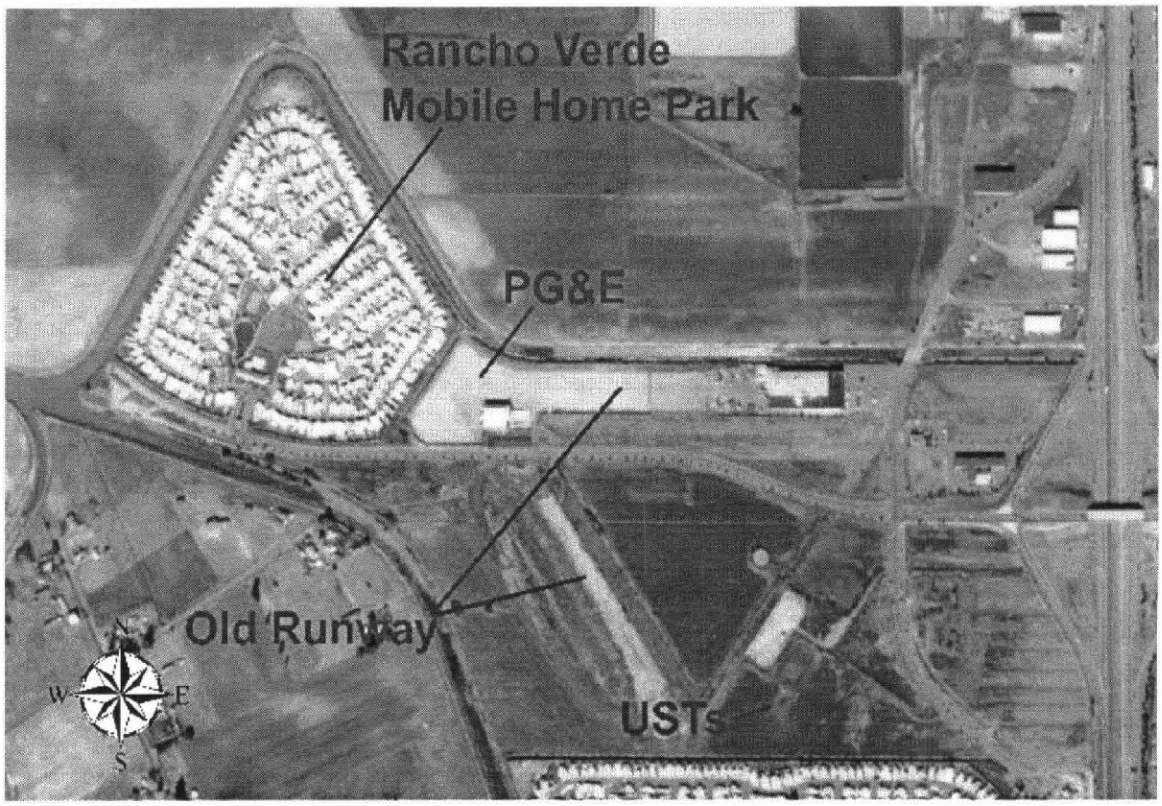
Aerial Photograph Dated 17 April 1945. This photograph shows the former facility in operation with aircraft visible on the runways and taxiways. The facilities are completed and there are no further signs of construction noticeable. At this point in time, there were significant runway sub-base failures due to moisture; the adobe soils and heavy rains often flooded this area.



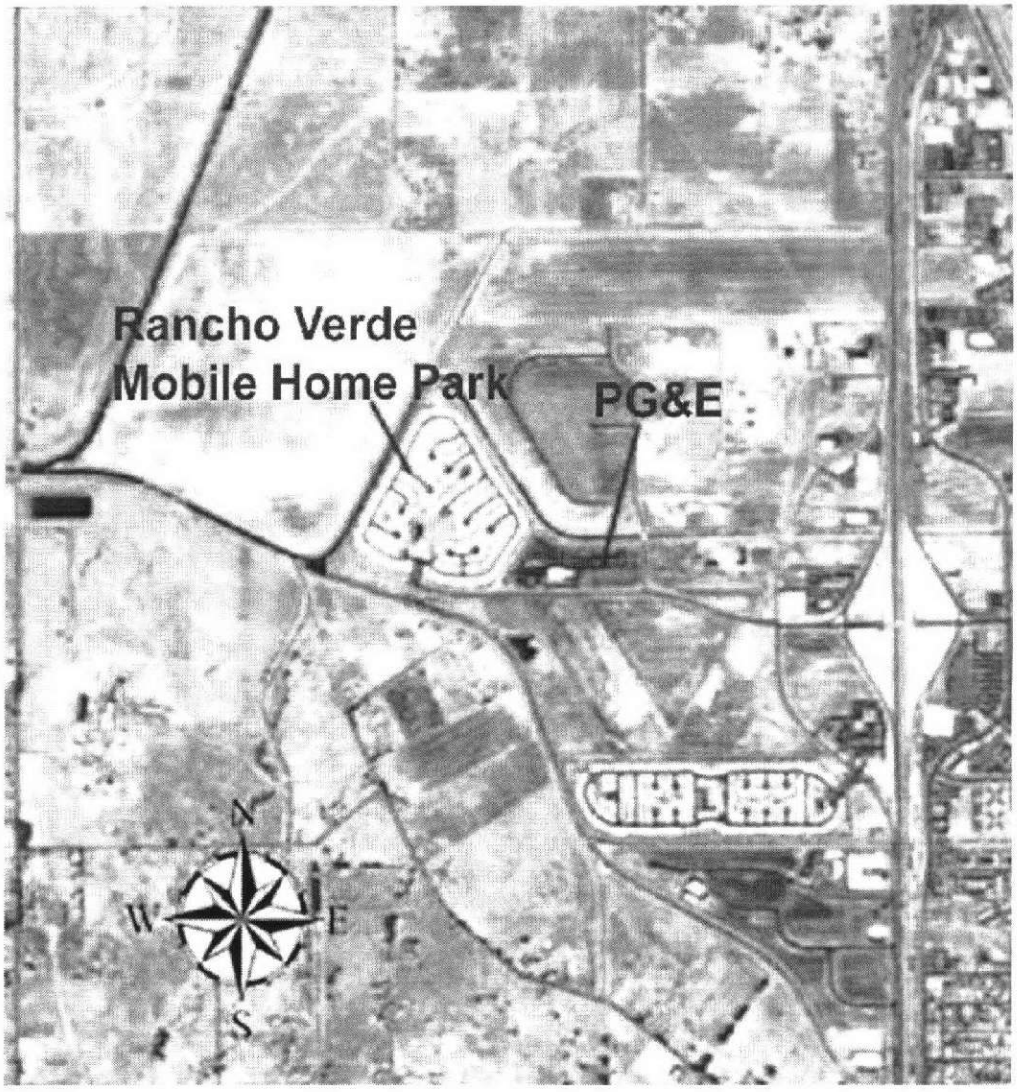
Aerial Photograph Dated 1953. This photograph shows the facilities still present but no signs of DoD use.



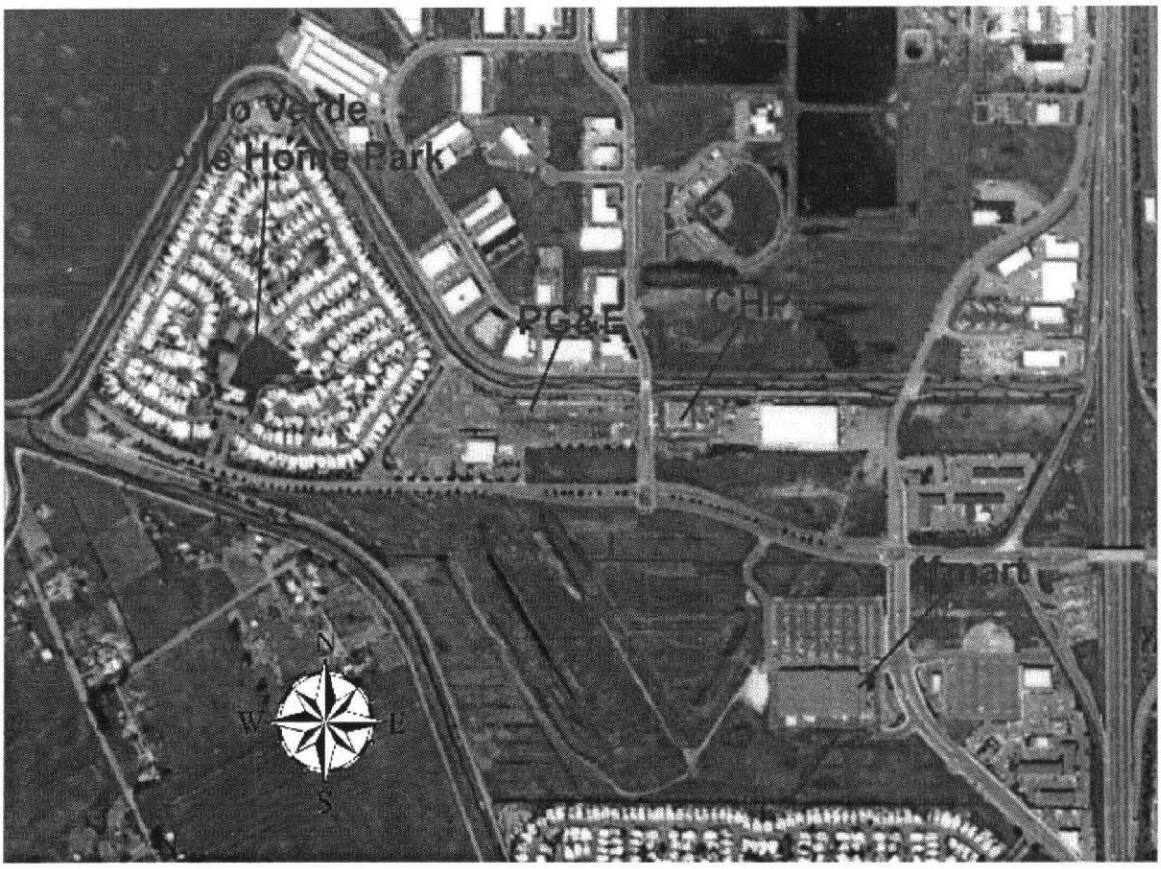
Aerial Photograph Dated 1965. This photograph shows obvious signs of tire tracks on the runways during the former Site's use as a racetrack facility; racing facilities were present along the northwest/southeast runway. The tank location looks undisturbed; structures are still in place over the tanks. No other buildings from the Former NAAS OLF Cotati facility are present except for those previously mentioned.



Aerial Photograph Dated November 1977. This photograph shows significant residential redevelopment of the former Site. Rancho Verde Mobile Home Park has been constructed. On-ramps and off-ramps for US 101 have been added. A hotel has been constructed. Redwood Drive has been constructed, as well as Rohnert Park Express way. The concrete apron, the compass marker, and remnants of the runway are still visible. Another commercial building at 380 Rohnert Park Express Way can be seen in the photograph.



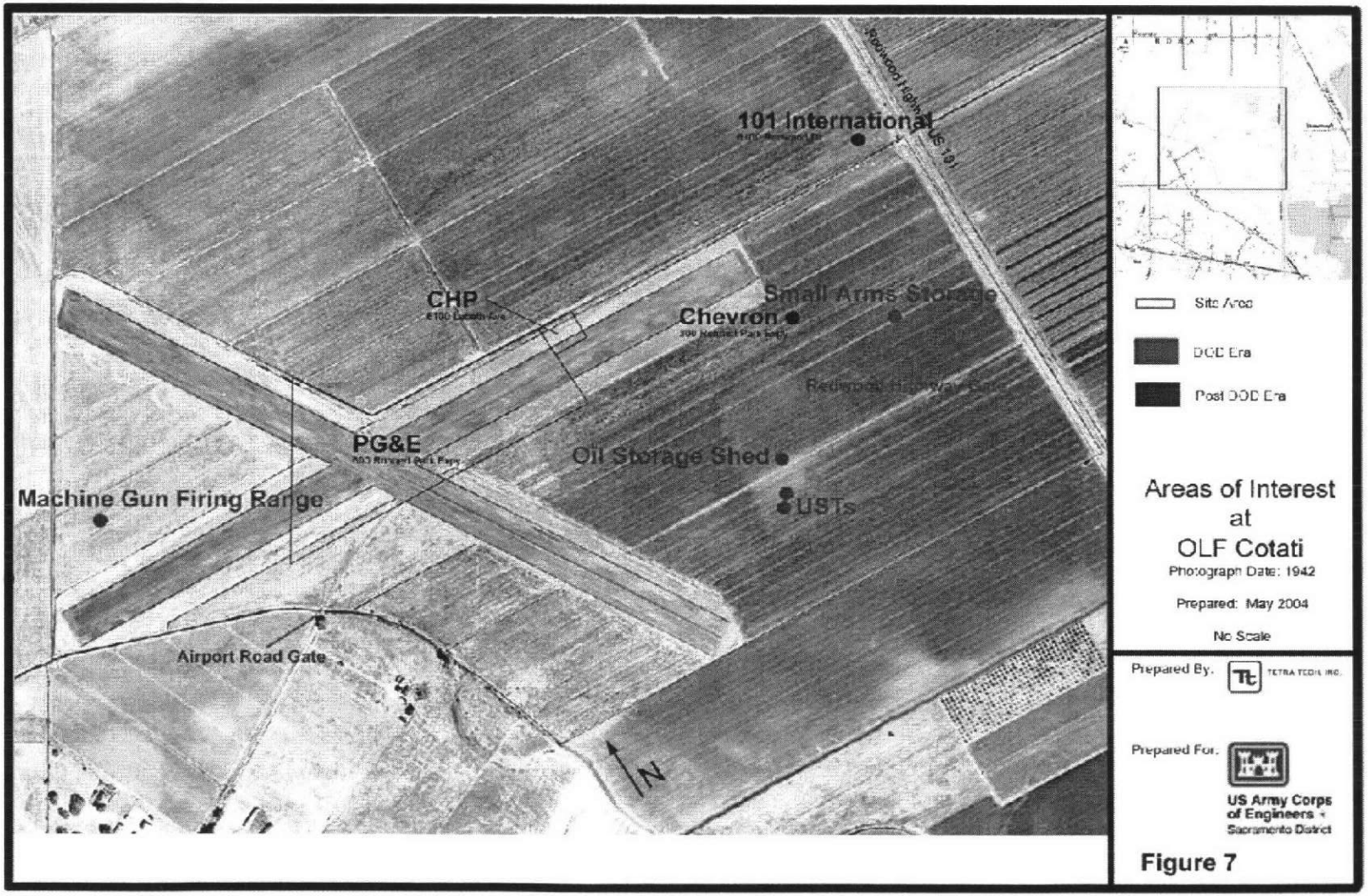
Aerial Photograph Dated 1982 This photograph shows the former Site beginning to be commercially developed, including the Rancho Verde Mobile Home park, the PG&E facility, and several small businesses.

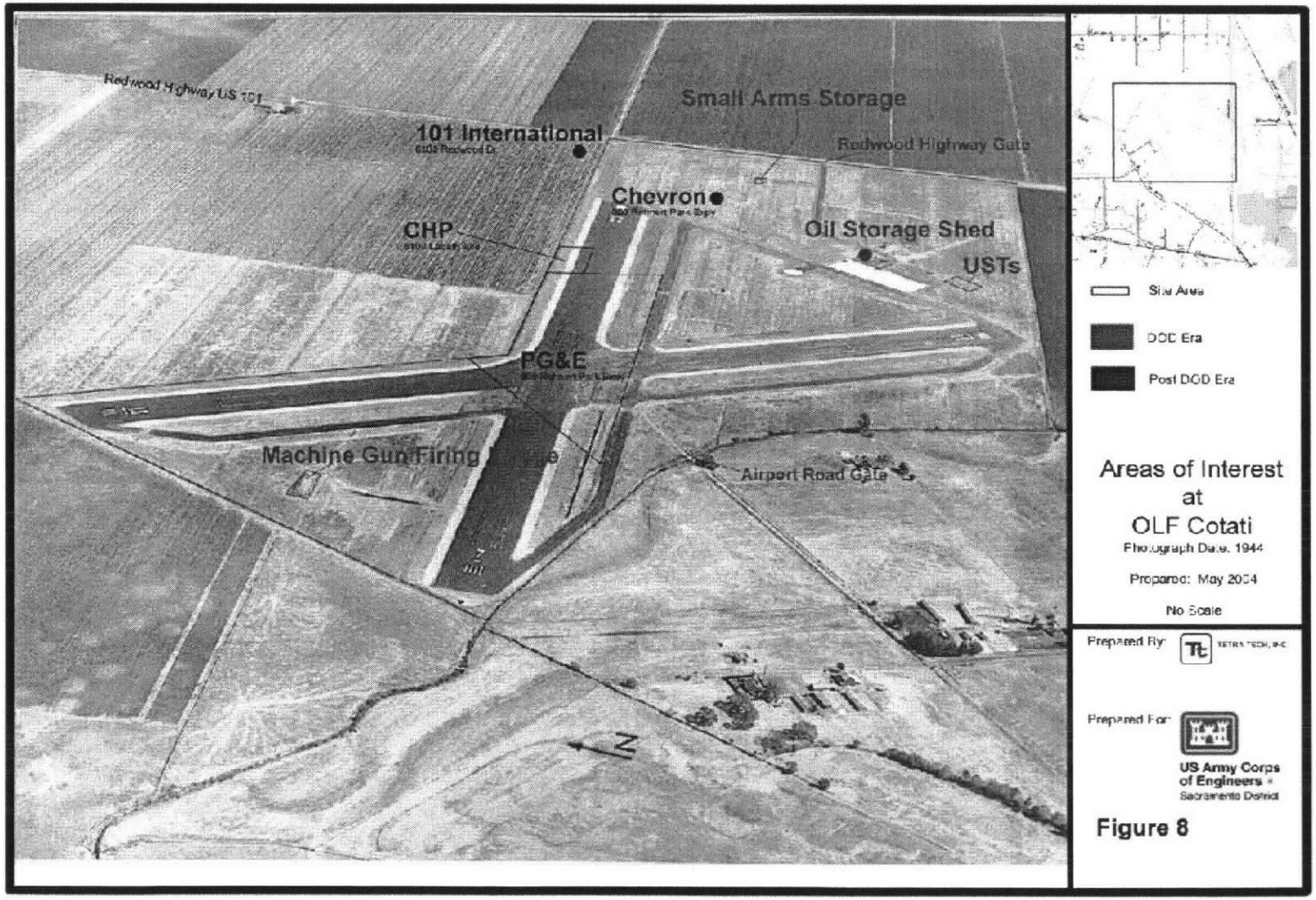


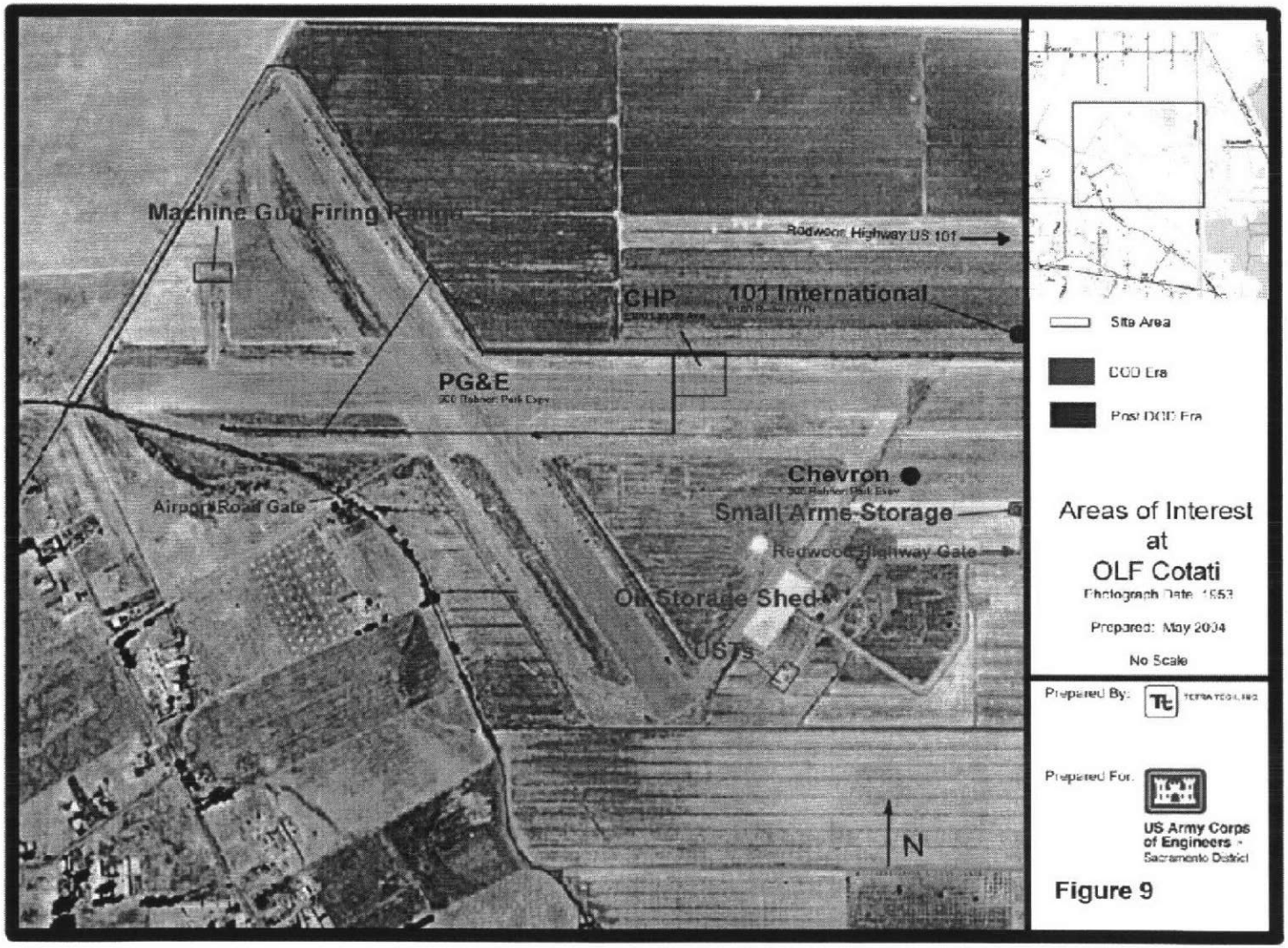
Aerial Photograph Dated March 1987 In this photograph, additional development has taken place. The photo shows that the PG&E building is on the former Site. A K-Mart store has been constructed; additional hotels and a mini mall have been constructed as well. Very few traces of the Former NAAS OLF Cotati facilities are visible.

Aerial Photograph Dated 1993 This Photograph shows the former Site with substantial development; there are very little signs of Former NAAS OLF Cotati facilities. Additional shopping centers and roads have been developed.

Overlays of Historical Aerial Photographs The following **Figures 7** through **13** depict areas of interest throughout the photographed years and track the changes over time. By 1993, all of the areas of interest are no longer visible and the areas appear to be commercially developed.


101 International
CHP
Chevron
Small Arms Storage
PG&E
Oil Storage Shed
USTs
Machine Gun Firing Range
Airport Road Gate
N
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1942
Prepared: May 2004
No Scale
Prepared By:
TETRA TECH INC.
Prepared For:
US Army Corps
of Engineers
Sacramento District
Figure 7


Redwood Highway US 101
101 International
Small Arms Storage
Redwood Highway Gate
Chevron
CHP
Oil Storage Shed
USTs
PG&E
Machine Gun Firing
Airport Road Gate
N
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1944
Prepared: May 2004
No Scale
Prepared By:
Prepared For:
US Army Corps
of Engineers
Sacramento District
Figure 8


Machine Gun Firing Range
Redwood Highway US 101
CHP
101 International
PG&E
Chevron
Airport Road Gate
Small Arms Storage
Redwood Highway Gate
Oil Storage Shed
USTs
N
Site Area
DOD Era
Post DOD Era
Areas of Interest at OLF Cotati
Photograph Date: 1953
Prepared: May 2004
No Scale
Prepared By:
Prepared For:
US Army Corps of Engineers - Sacramento District
Figure 9

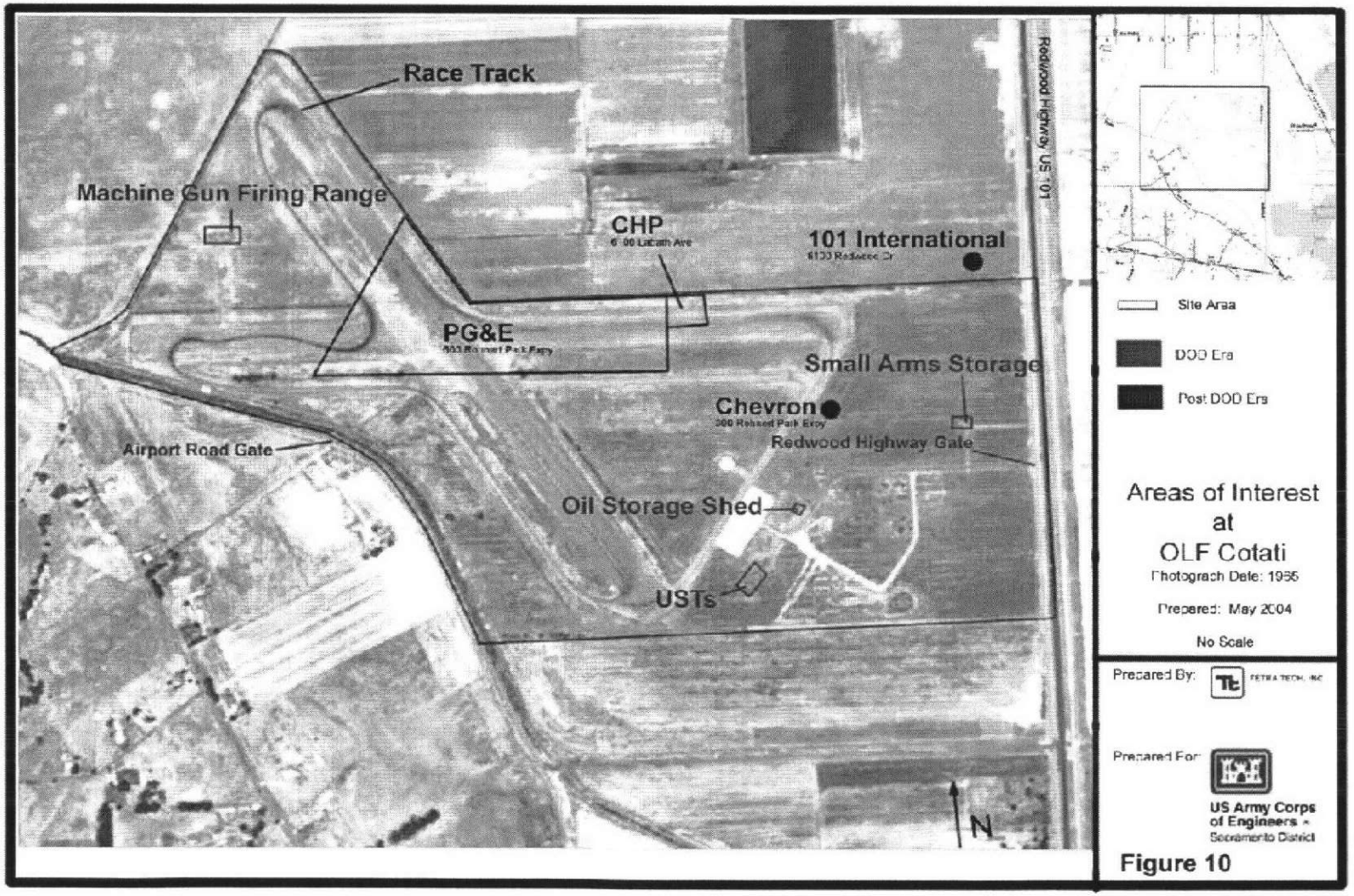
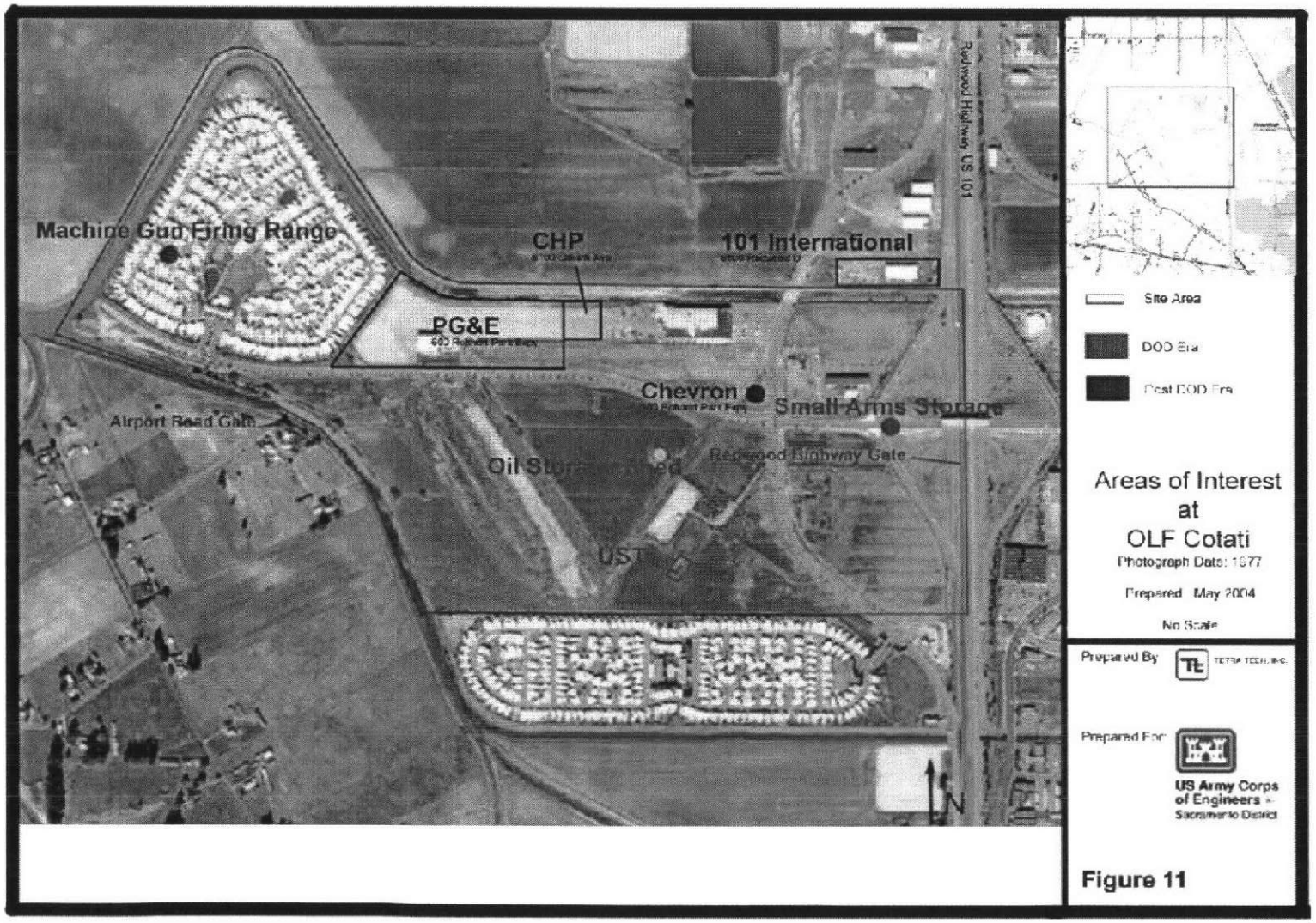
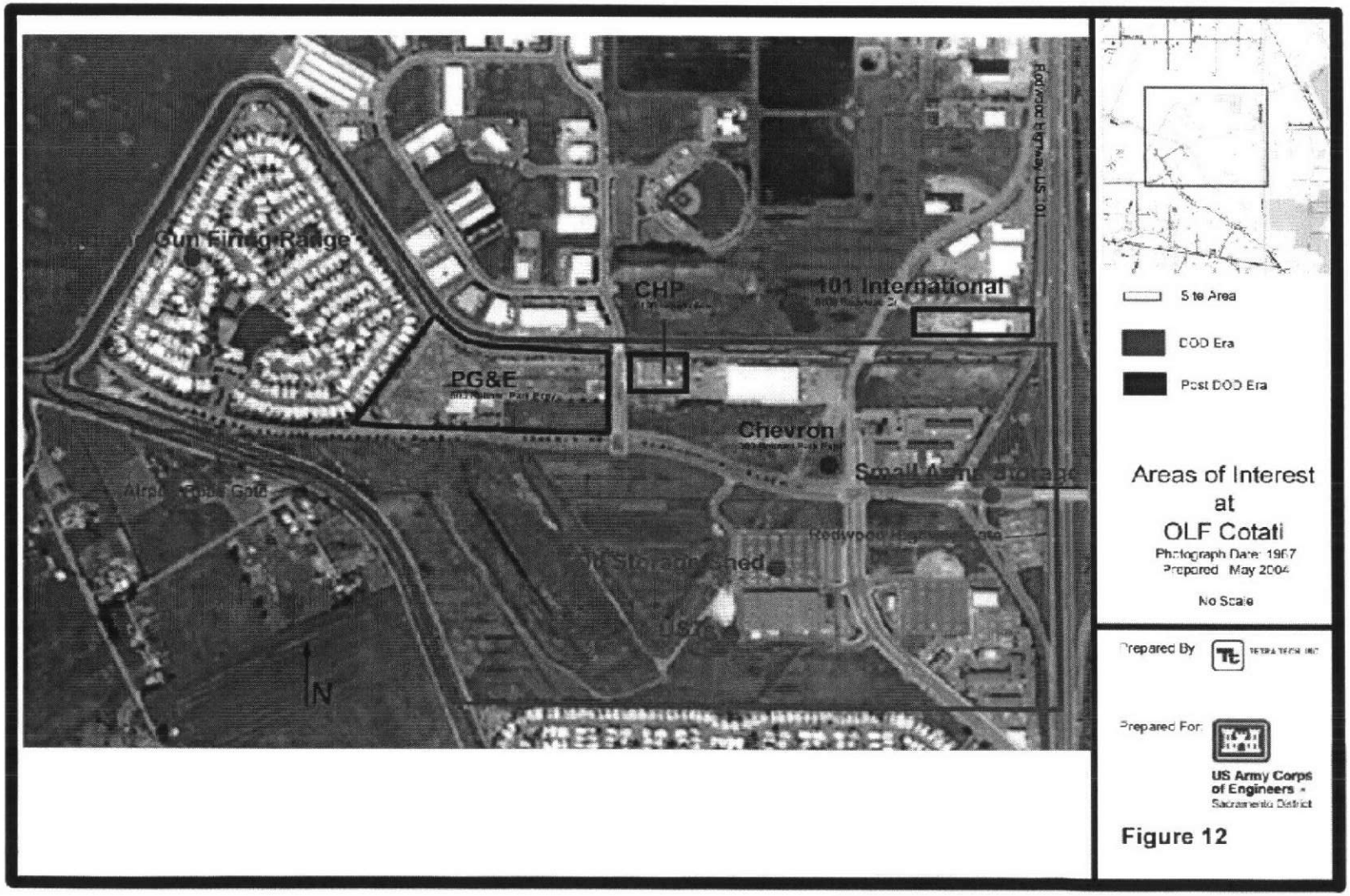
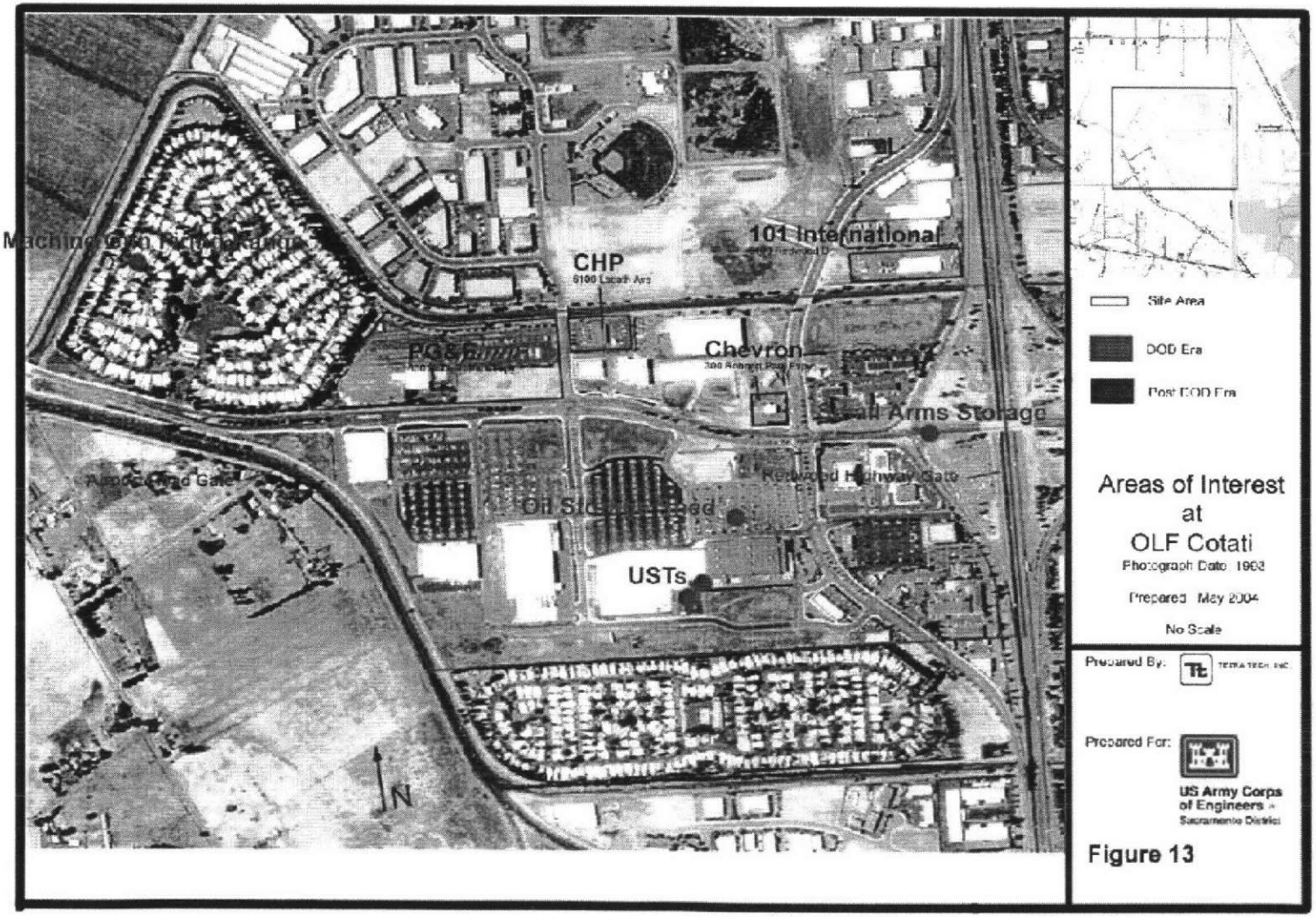

Race Track
Machine Gun Firing Range
CHP
101 International
PG&E
Small Arms Storage
Chevron
Redwood Highway Gate
Airport Road Gate
Oil Storage Shed
USTs
Redwood Highway US 101
N
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1956
Prepared: May 2004
No Scale
Prepared By:
Prepared For:
US Army Corps
of Engineers
Sacramento District

Figure 10


Machine Gun Firing Range
CHP
101 International
PG&E
Chevron
Small Arms Storage
Airport Road Gate
Redwood Highway Gate
UST
Redwood Highway US 101
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1977
Prepared May 2004
No Scale
Prepared By
Prepared For
US Army Corps
of Engineers
Sacramento District
Figure 11


Gun Firing Range
CHP
101 International
PG&E
Chevron
Small Arms Storage
N
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1967
Prepared May 2004
No Scale
Prepared By
Prepared For:
US Army Corps
of Engineers -
Sacramento District
Figure 12


CHP
101 International
Chevron
USTs
N
Site Area
DOD Era
Post DOD Era
Areas of Interest
at
OLF Cotati
Photograph Date: 1993
Prepared: May 2004
No Scale
Prepared By:
Prepared For:
US Army Corps
of Engineers
Sacramento District
Figure 13

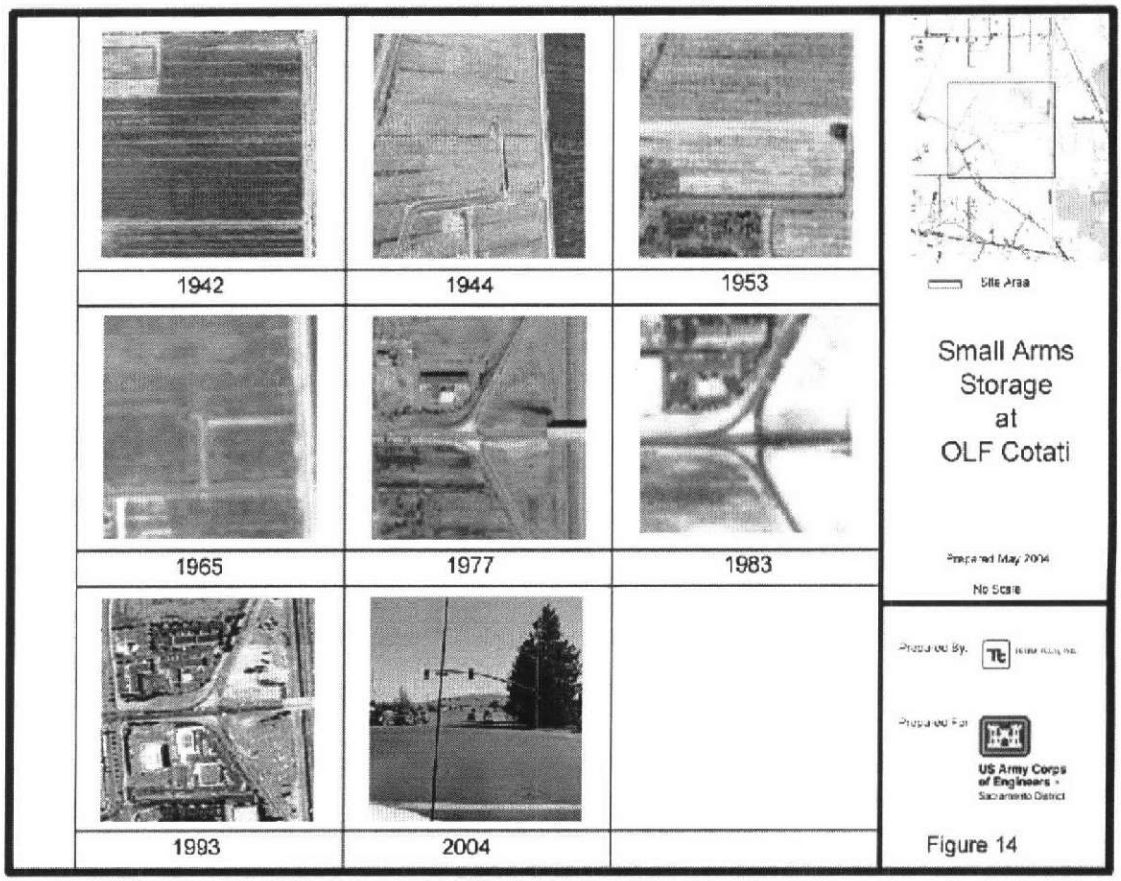


Figure 14 shows a photographic chronology of the area that contained the Small Arms Magazine Storage, beginning with the 1942 aerial before the facility was built, then the aerials between 1944 and 1977 when the facility and associated road are visible, to the 1983 and 1993 aerials, where the facility and associated road are no longer visible and have been replaced by on/off ramps for Highway 101 and retail stores. A current site photo is also provided.

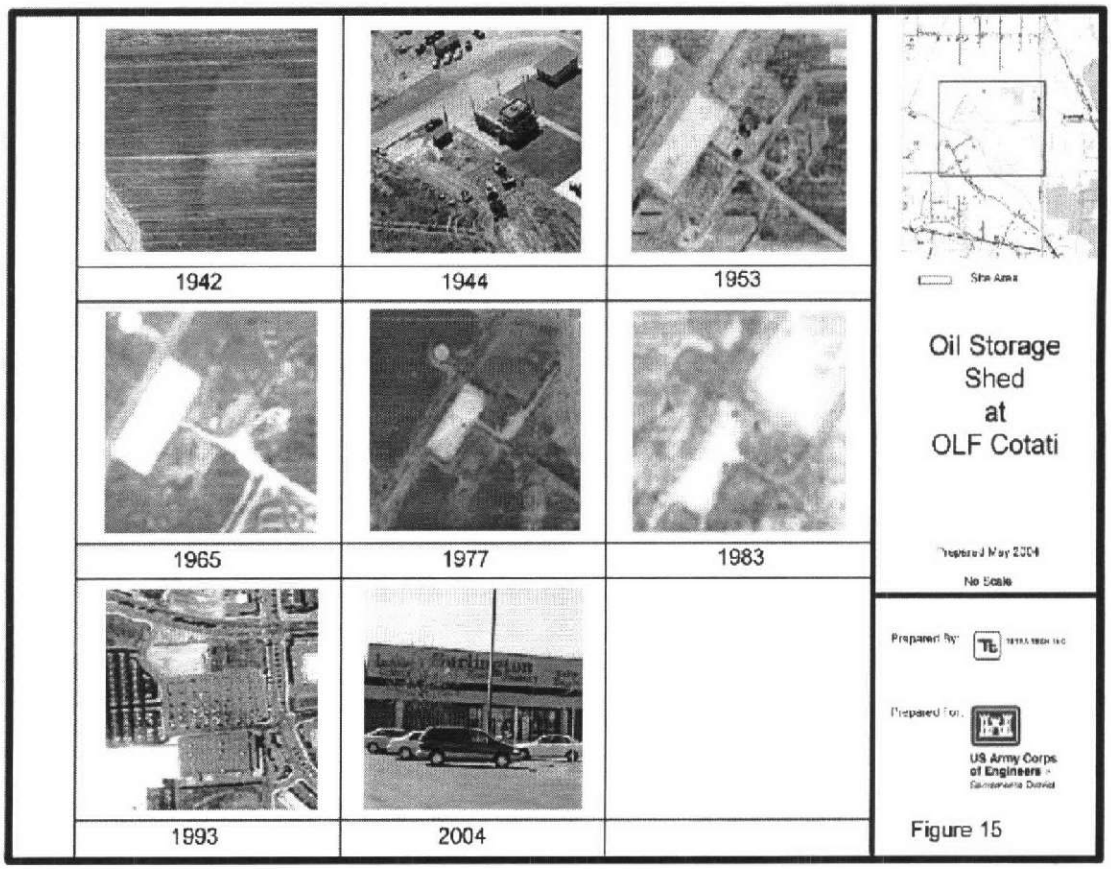


Figure 15 shows a photographic chronology of the area that contained the Oil Storage Shed, beginning with the 1942 aerial before the facility was built, then the aerials between 1944 and 1977 when the facility is visible, and then the 1983 through 1993 aerials, where the facility is no longer visible. The former Site was developed into a K-mart Store/Burlington Coat Factory. A 2004 site photo is also provided.

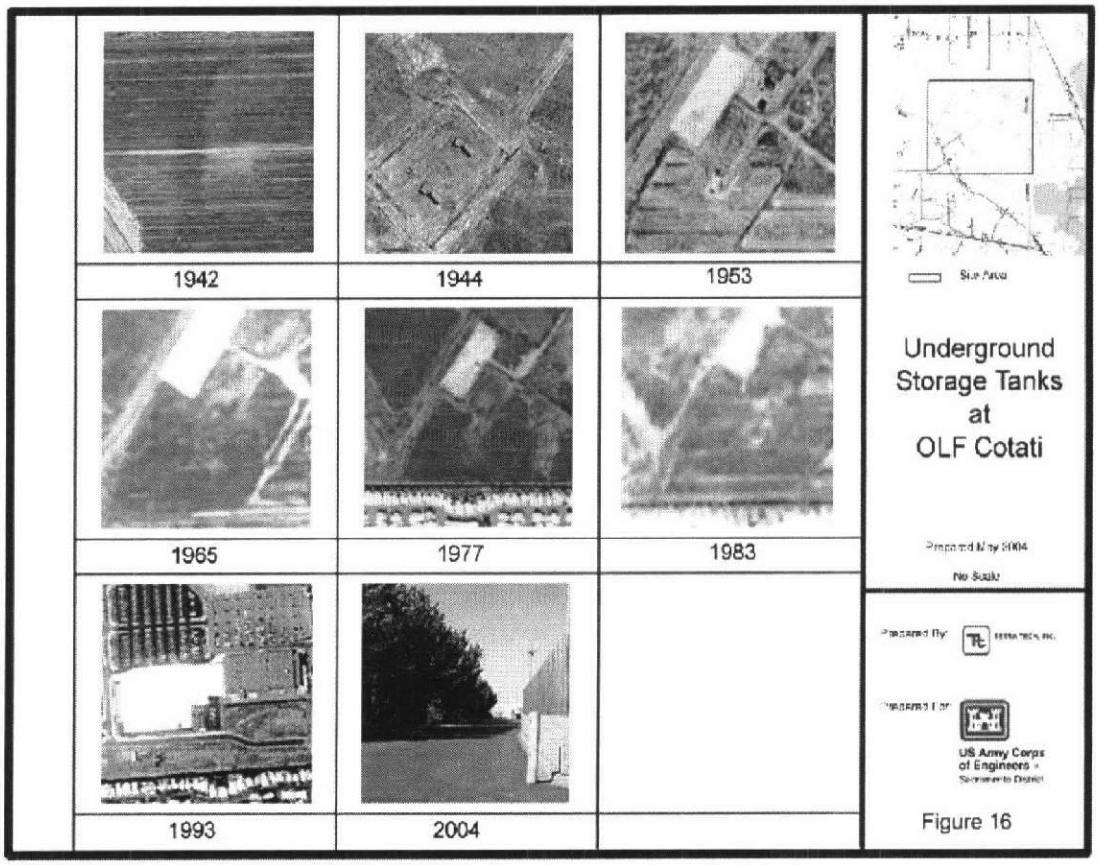


Figure 16 shows a photographic chronology of the area that contained the two 25,000-gallon gasoline USTs, beginning with the 1942 aerial before the facility was built, then the aerials between 1944 and 1977 which show the tanks in place, and then the 1983 and 1993 aerials, where the tanks are no longer visible. The former Site was developed into a K-mart Store/Burlington Coat Factory. A 2004 site photo is also provided. There is no documentation regarding the removal of the tanks from the site; however, in the 1958 appraisal report, the pumping appurtenances were no longer in place.

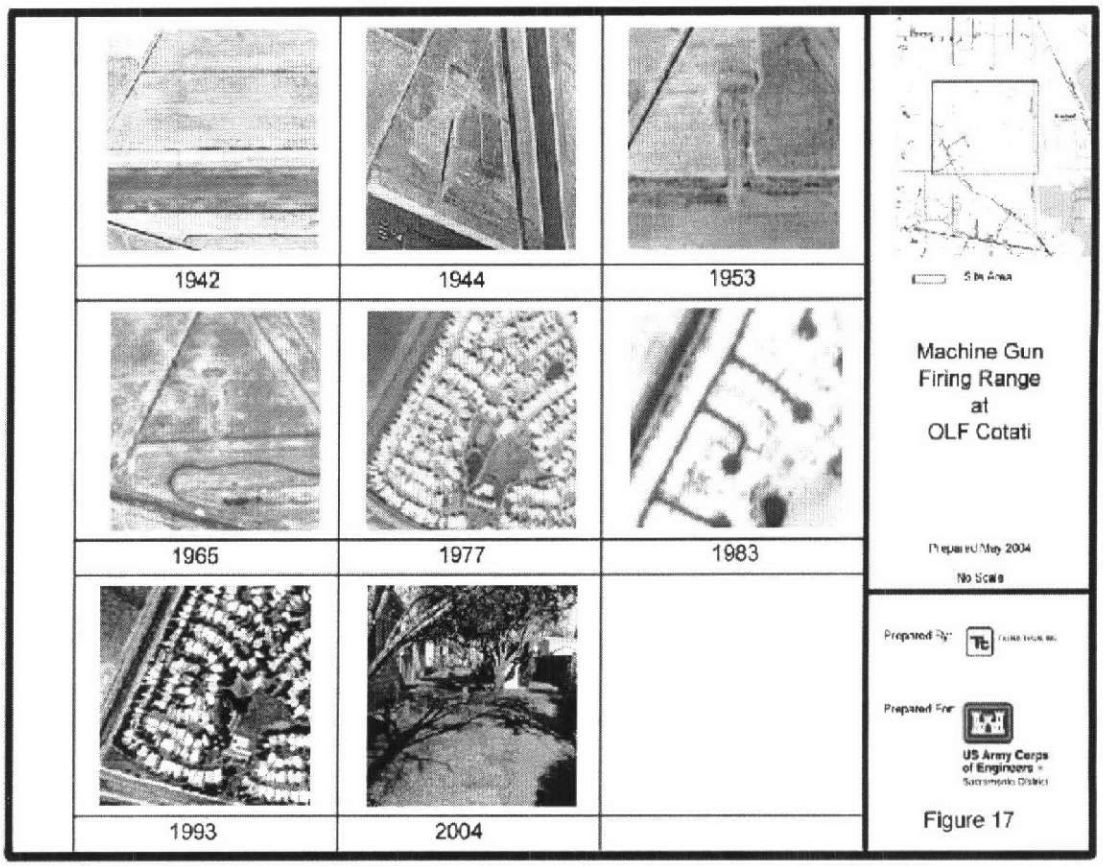


Figure 17 shows a photographic chronology of the area that contained the Aircraft Machine Gun Firing Range, beginning with the 1942 aerial before the facility was built, then the aerials between 1944 and 1965 when the facility is visible, and then the 1983 and 1993 aerial where the facility is no longer visible and is encompassed by Rancho Verde Mobile Home Park. A 2004 site photo is also provided.

3.4 HISTORICAL TOPOGRAPHIC MAPS

Historical USGS 7.5-Minute Topographic Series, California Quadrangle Maps: "Cotati," dated 1954, 1954 PHOTOREVISED 1968, and 1954 PHOTOREVISED 1968 and 1973 were obtained from NARA and from EDR. The Site is completely contained in the Cotati Quadrangle and is the Quadrangle referred to herein. Focal areas of these maps are provided by EDR in **Appendix B**. These maps were reviewed to evaluate previous developments of the Site, current developments, adjoining properties, and surrounding areas.

The 1954 "Cotati" quadrangle topographic map labels the Site as "Cotati Naval Auxiliary Air Station (Inactive)." The City of Rohnert Park was not yet established on this map. The outline of the runways and taxiways are present. The contours reveal that the target berm was 20 ft. high. The drainage ditches that lined the runways and taxiways are shown. Airport Road does not cross the creek on the southwest boundary of the Site. The access road to the Site from the two-lane US 101 is present. There is a well located near the buildings on the Site. The map indicates that the site is in the same condition that it was in while it was under operation.

The 1954 "Cotati" PHOTOREVISED 1968 topographic map shows no development on the Site. State Highway 101 is a four-lane highway, built parallel to the former Hwy 101 on the east side. The new Rohnert Park Expressway that runs through the Site is shown, nameless, on the east side of Hwy 101 only. There are highway on and off ramps to the Rohnert Park Expressway on the eastern side of Hwy 101 only. The City of Rohnert Park is established in this map, but no development is yet to be shown on the west side of Hwy 101 and all development is southeast of the Site.

The 1954 "Cotati" PHOTOREVISED 1968 AND 1973 topographic map displays significant development of the Site and the areas surrounding the Site. The Site is no longer denoted as "Cotati Naval Auxiliary Air Station (Inactive)." The northwest corner of the Site is developed as a mobile home park. It cannot be determined from the map what the stage of development this mobile home park is in. The target berm is still present within the mobile home park. All of the drainage ditches that were parallel to the runways and taxiways are still present. The southern boundary of the Site has also been developed into a mobile home park, the entrance of which is off of Redwood Drive. Redwood Drive, the former two-lane Hwy 101, now curves westward to go around the on and off ramps for Rohnert Park Expressway, which now goes westward from Hwy 101 through the Site. The map shows that Rohnert Park Expressway is parallel to the location where the east-west runway once existed, just south of the south drainage ditch. The well that was depicted in the other maps is still present. There is a new well in this map located on the site in the southeastern corner, bounded by Redwood Drive and the southern boundary drainage ditch. There are two other buildings that show up on this map. One is located on the east end of the former east-west runway. The other is located just east of the southbound Hwy 101 Rohnert Park Expressway off ramp. No other signs of development are present within the site boundaries. The City of Rohnert Park is shown expanding north toward the Site.

3.5 CHAIN-OF-TITLE REVIEW

Fidelity National Title Company conducted a chain-of-title search. They were unable to locate a quit deed transferring the property from federal to private ownership. **Table 3** provides a listing of individuals and companies affected by a Declaration of Taking from 1941 through 1944. It appears that the U.S. Government retained title of this property through 1958. Sometime between 1958 and 1966, ownership was transferred to Caesar-Callan Homes, according to a deed document; a quit deed transferring property to Caesar-Callan Homes was not found by a title company search. There is record of a GSA appraisal of the site in 1958. Caesar-Callan Homes transferred ownership to Santa Rosa Enterprises (Codding

Enterprises) in 1966. Codding Enterprises continues to develop and/or sell parcels of the Former NAAS OLF Cotati.

Table 3
Chain-of-Title, 1941 to Present
Former NAAS OLF Cotati

Date	Grantor/ Grantee	Document Type/ Document Record
1941	Rohnert Company to United States of America	Declaration of Taking
1942	Cotati Company George P. McNear to United States of America	Declaration of Taking
1944	Cotati Company Cotati Company James C. and Sarah Armstrong J. B. Poncila Cotati Company Frank & Rhea O'Connell to United States of America	Fee Easment Easment Fee Fee Fee
1958	United States of America , GSA Appraisal Fidelity National Title Company was unable to locate quit deed transferring property to Caesar-Callan Homes	Document
1966	Caesar-Callan Homes to Santa Rosa Enterprises	Deed
1973	Codding Enterprises (Santa Rosa Enterprises) to Rancho-Verde, a limited partnership	Deed
1991	Codding Enterprises to The Price Company	Deed

3.6 BUILDING PERMIT REVIEW

Building department records were reviewed at the Rohnert Park Department of Community Development (2004). Mr. Ron Bendorff, Senior Planner, allowed Tetra Tech access to some of the redevelopment files; Mr. Bendorff provided two aerial photos dated 1977 and 1987, and an address map of Rohnert Park. Building Permits of a K-Mart, Target, and House of Fabric were obtained and are presented in **Appendix E.** Tetra Tech Inc. reviewed the building permits and contacted the construction companies listed on the permits. Tetra Tech, Inc. was able to interview some of the individuals who oversaw the construction of Target and House of Fabric. The contractor who was on the building permit for Kmart does not have an

active State of California license. Tetra Tech, Inc. was unable to locate anyone from the company listed on the building permit.

3.7 SONOMA COUNTY EMERGENCY SERVICES DEPARTMENT

Tetra Tech contacted Sonoma County Emergency Services Department to determine if there had been any reported hazardous waste violations at the Site. At the time of this report no confirmation from county officials has been made. However, there has been documentation collaborating hazardous waste release (Kleinfelder, Inc., June 2002)

3.8 HISTORICAL CITY DIRECTORY

There is no historical city directory for Rohnert Park.

3.9 SANBORN MAP REVIEW

Sanborn maps are historical fire insurance maps that were produced for private fire insurance companies and indicate uses of properties at specified dates. While the geographic coverage of Sanborn Maps is comprehensive for most major cities, many rural areas and small towns may not be covered. Sanborn Maps for Rohnert Park were not available, according to the EDR report.

3.10 SONOMA COUNTY ENVIRONMENTAL HEALTH

Tetra Tech requested that the SCEH review their files for information regarding the Site. Mrs. Darcy Bering reported that she has three sites pertaining to the Site in their files. These sites are listed in the Geotracker format in **Appendix F**.

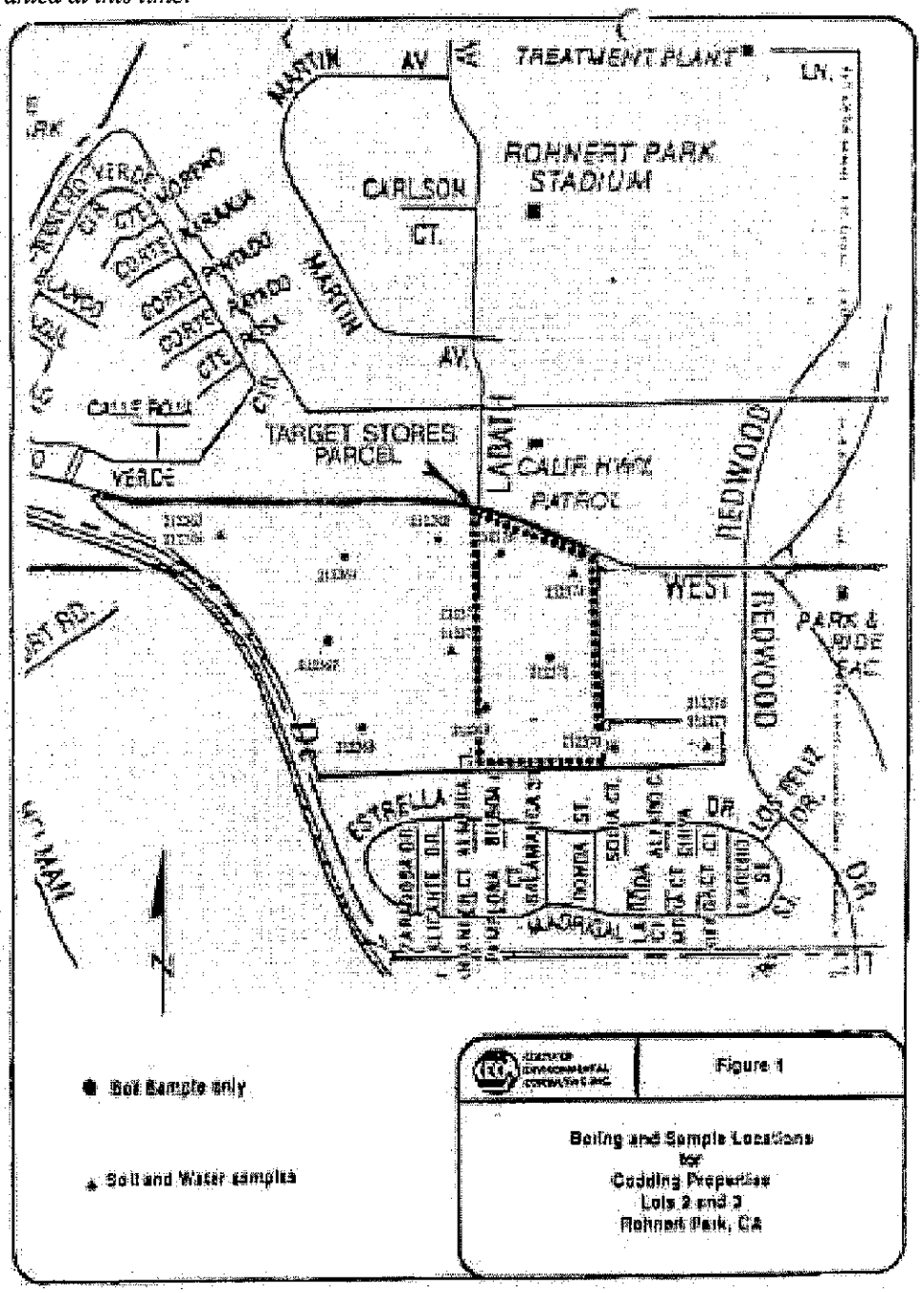
3.11 PREVIOUS ENVIRONMENTAL ASSESSMENTS

The following list summarizes all known previous environmental assessments and any pertinent results or conclusions.

- In December 1990, a Phase I Environmental Site Assessment was conducted on Codding Properties Lots 2 & 3, Rohnert Park, California, by BACE Geotechnical, Inc. for Target Stores (**Appendix G**). The summary of the report states there were no obvious adverse environmental problems on the site, or on adjacent properties. There were several minor observations of debris on the site made during the site walk, with two occurrences being of minor concern; an abandoned automobile engine and motor oil containers has caused minor surface staining, and a small stockpile of dumped soil contain low concentration of Total Petroleum Hydrocarbons as diesel. BACE Geotechnical, Inc. recommended the removal of this contaminated stockpiles. Several properties within the study area had leaking underground storage tank issues with petroleum products, including California Highway Patrol, Chevron Service Station, and 101 International. BACE Geotechnical, Inc. concluded that sampling and testing of soil and ground water at the study site was not necessary due to the lack of documented storage of hazardous materials, lack of observed adverse environmental conditions, and because of the adjacent site characterizations and investigations as well as groundwater gradients.

- In February 1991, a Phase II Environmental Site Assessment was conducted on Codding Properties, Lots 2 and 3 South of W. Rohnert Park Expressway at Labath Avenue, Rohnert Park, California, by Certified Environmental Consulting, Inc. (**Appendix G**). A phase II sampling and testing program was proposed and implemented to demonstrate that the site has not suffered any identifiable or

significant contamination (**see site map below**). The sampling consisted of 12 borings, producing 12 soil samples and 4 groundwater samples; pertinent results and figures are presented in **Appendix G.** Samples were analyzed for pesticides, total petroleum hydrocarbons, BTEX, and solvents. This report concluded, "*all compounds analyzed were found to be well below the detectable Primary Maximum Containment Levels (MCL) established by the California Department of Health Services.*" The report also concludes, "*The sample results indicate that there was no significant contamination found on the property. Additional monitoring or other recommended surveillance actions do not appear to be warranted at this time.*"

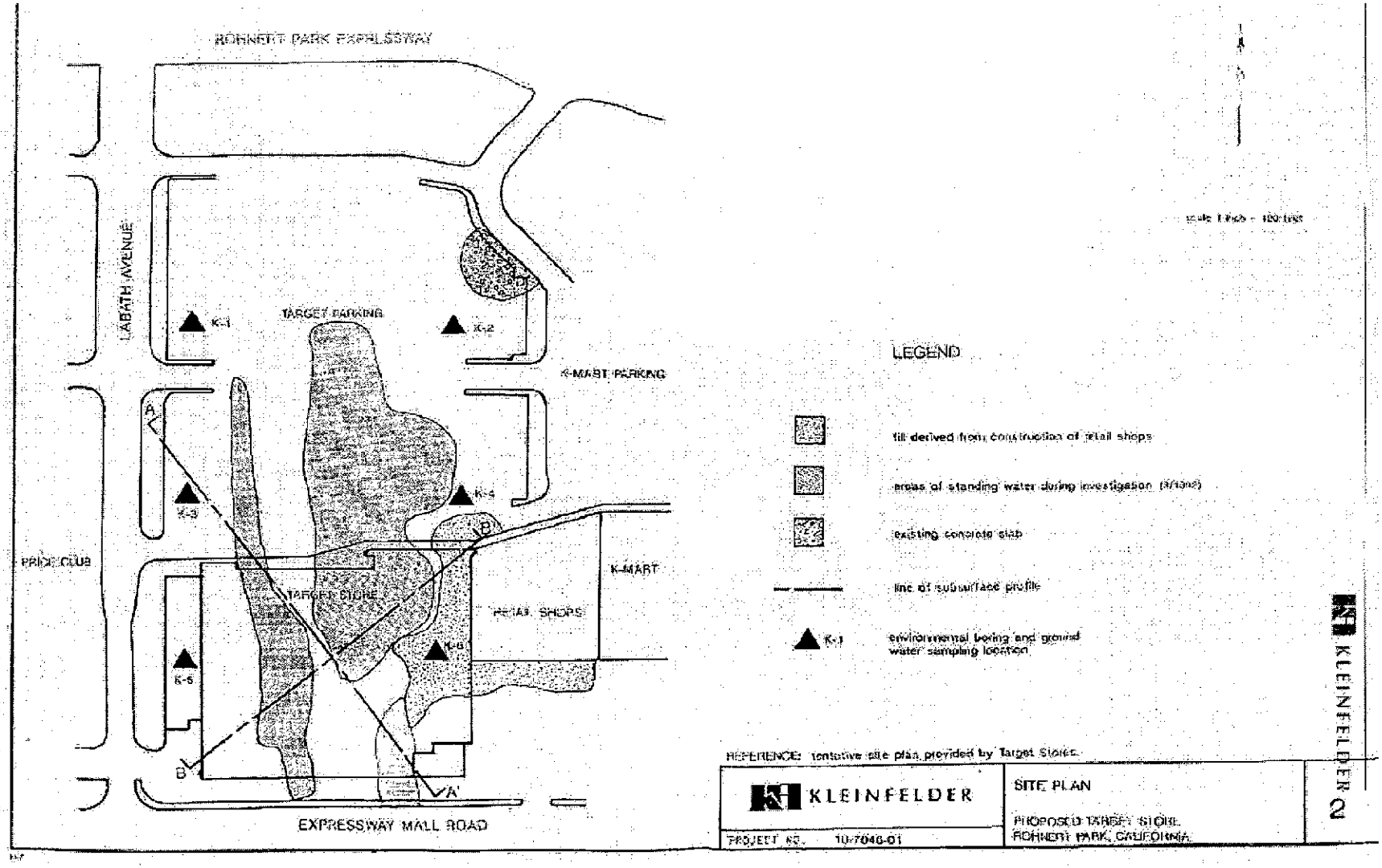


- A Final Focused Environmental Impact Report for Expressway Mall was completed in March of 1991 (**Appendix H**). In a cultural resources survey performed for this Environmental Impact Report, Archaeological Services, Inc. reported that, "*some areas are covered with fill and large pile of asphalt, possibly from a now defunct airport that was located nearby, was noted.*" However, the draft and final Environmental Impact Reports did not identify hazardous materials as a significant environmental issue.

- In February 1992, "Environmental Assessment and Review of Property and Existing Building, Food 4 Less, 605 Rohnert Park, California" was prepared by BACE Geotechnical, Inc. for Codding Enterprises (**Appendix G**). This report concluded that on the subject property, "*There is not a significant risk of soil and / or groundwater contamination by hazardous materials at the site either due to current or past uses of the property, or due to off-site sources of contamination; it is unlikely that ACM's or PCB's are present at the property; a soil and/or groundwater sampling program is not recommended; no other soil or water sampling is recommended; soil and groundwater investigations being performed on nearby properties should continue to be monitored as discussed in the referenced BGI ESA.*"

- In March 1992, Target Stores retained Kleinfelder, Inc. to perform a review of the aforementioned Phase I and Phase II assessments of the Codding Properties (**Appendix G**). Kleinfelder, Inc. concluded that the Phase 1 report appeared to be complete and adequate, although their site visit could not locate, or find record of disposal of, a soil stockpiled mentioned to be contaminated with petroleum products. Kleinfelder, Inc. concluded that the Phase II report had flaws, and they did not agree with Certified Environmental Consulting, Inc.'s conclusion that no significant contamination existed on the property. Kleinfelder, Inc. recommended that a soil and ground water sampling program be implemented at the site and focus upon the proposed Target Store parcel.

- In May 1992, Target Stores retained Kleinfelder, Inc. to perform additional historic land use review and ground water quality assessment at the proposed Target Store location; the final report was published as "Preliminary Ground Water Quality Assessment, Proposed Target Store Site, Labath Avenue and Rohnert Park Expressway, Rohnert Park, California" (**Appendix G**). Six soil borings were logged and drilled on the site, and soil samples taken. The location of these borings are shown in the following figure. These sampling locations were based upon the following: the BACE Geotechnical, Inc. Phase I report; the Certified Environmental Consulting, Inc. Phase II report; site history and aerial photography; and surface water drainage patterns, regional topography, and inferred groundwater flow direction. No soil discoloration or petroleum hydrocarbon odors were noted in any of the six soil samples recovered. Eight ground water samples were collected from these borings (including one blank and one rinse) and then analyzed for total petroleum hydrocarbons quantified as gasoline (TPH) and purgeable aromatic compounds benzene, toluene, xylenes, and ethylbenzene (BTEX). No gasoline petroleum hydrocarbon compounds were detected in any of the ground water samples analyzed. The report concluded that past uses of the site and adjacent properties did not appear to have impacted the site.


ROHNERT PARK EXPRESSWAY
LABATH AVENUE
TARGET PARKING
K-MART PARKING
K-1
K-2
K-3
K-4
K-5
K-6
A
A'
B
B'
PRICE CLUB
TARGET STORE
RETAIL SHOPS
K-MART
EXPRESSWAY MALL ROAD
LEGEND
fill derived from construction of retail shops
areas of standing water during investigation (3/1998)
existing concrete slab
line of subsurface profile
K-1 environmental boring and ground water sampling location
REFERENCE: tentative site plan provided by Target Stores
KLEINFELDER
SITE PLAN
PROPOSED TARGET STORE
ROHNERT PARK, CALIFORNIA
PROJECT NO. 10-7048-01
KLEINFELDER 2

- In September 1992, "Phase I Environmental Assessment, House of Fabrics/The Craft Store Lot 3, Rohnert Park Parcel Map 145 Rohnert Park, California," was prepared by BACE Geotechnical, Inc. (**Appendix G**). This report concluded that there were no obvious adverse environmental problems on the study site or adjacent properties, based upon limited site observations and regulatory agency review. Although there were five on-going soil and/or ground water investigations occurred within the study area, BACE Geotechnical, Inc. did not think that they would have an adverse impact on the subject site or pose a threat in the immediate future.

- In February 1993, "Phase I Environmental Site Assessment, Sears Homelife/Petsmart 565 & 575 Rohnert Park, California," was prepared by BACE Geotechnical, Inc. (**Appendix G**). The report concluded that, "*there are no obvious adverse environmental conditions on the study site, or on adjacent properties, based on our limited site observations and regulatory agency review.*" Their report also concluded that there was no documented storage of hazardous materials, no hazardous waste disposal sites, and that "*sampling and analytical testing of soil and ground water at the study site is not necessary at this time.*"

- A Draft Environmental Impact Report for the city of Rohnert Park General Plan Amendment and Update was completed in August of 1995 (**Appendix I**). This Environmental Impact Report did not identify any hazardous materials, and did not conclude that hazardous materials were a significant environmental issue.

- In June 2002, "Phase I Environmental Site Assessment, 600 Rohnert Park Expressway, Rohnert Park, California," was prepared by Kleinfelder. (**Appendix G**). This report states that a release of petroleum hydrocarbons from an underground storage tank used by PG&E contaminated soil and groundwater at the site. **Figures 18** and **19** identify areas of concern. The site has been remediated to the satisfaction of the County of Sonoma Environmental Health Division and no further action is required; the County's letter and Case Closure Summary is presented in **Appendix J**. Other isolated and unrelated surface releases are indicated by the detection of petroleum hydrocarbons in near-surface soil collected from other areas of the site. The lateral and vertical extent of these releases has not been delineated. Kleinfelder, Inc. recommended that a Phase II assessment be conducted. Tetra Tech, Inc. received copyright permission from Kleinfelder, Inc. to reference and reproduce these documents.

- In September 2002, "Phase II Environmental Site Assessment, 600 Rohnert Park Expressway Rohnert Park, California," was prepared by Kleinfelder, Inc. In their review of site activities (see **Figure 20**), a report entitled, "Due Diligence Report PG&E Rohnert Park Materials Distribution Center Site," by Uribe and Associates, February 2002, is summarized, and states that, "*this investigation found petroleum hydrocarbons in shallow soil samples at several locations in concentration in excess of 400 mg/kg (the remediation goal used locally). The investigation did not establish the vertical or horizontal extent of the petroleum hydrocarbons. However, Uribe performed chromatographic profile analysis of the hydrocarbons and found that they were not similar to the products used at the site by PG&E. They concluded that the presence of the hydrocarbons was not the result of a release by PG&E and conducted no further investigation. In the previous Phase I Site Assessment by Kleinfelder, Inc. in June of 2002, petroleum hydrocarbon odors were apparent in soil beneath the asphalt during the Geotechnical assessment of the site. Kleinfelder, Inc.'s technician noted the odor appeared to be associated with sub-base material and that it was present in borings throughout the site.*" Based upon this review and other information, Kleinfelder, Inc. conducted soil sampling in July

2002 from 18 borings. Results identified the only contaminants as petroleum hydrocarbons (gasoline, diesel, and motor oil), and almost exclusively in the upper 6-inches of the soil profile. Grab groundwater samples collected at the site did not detect significant levels of contaminants. Based on the results of this sampling, Kleinfelder, Inc. made the following conclusions and recommendations: the presence of hydrocarbon constituents were not derived from accidental release but the pretreatment of the sub-base with road oil; disposal or handling of this top six inches of soil should be identical to methods used for the asphalt pavement; and that development activities were not expected to involve handling potentially contaminated soil.

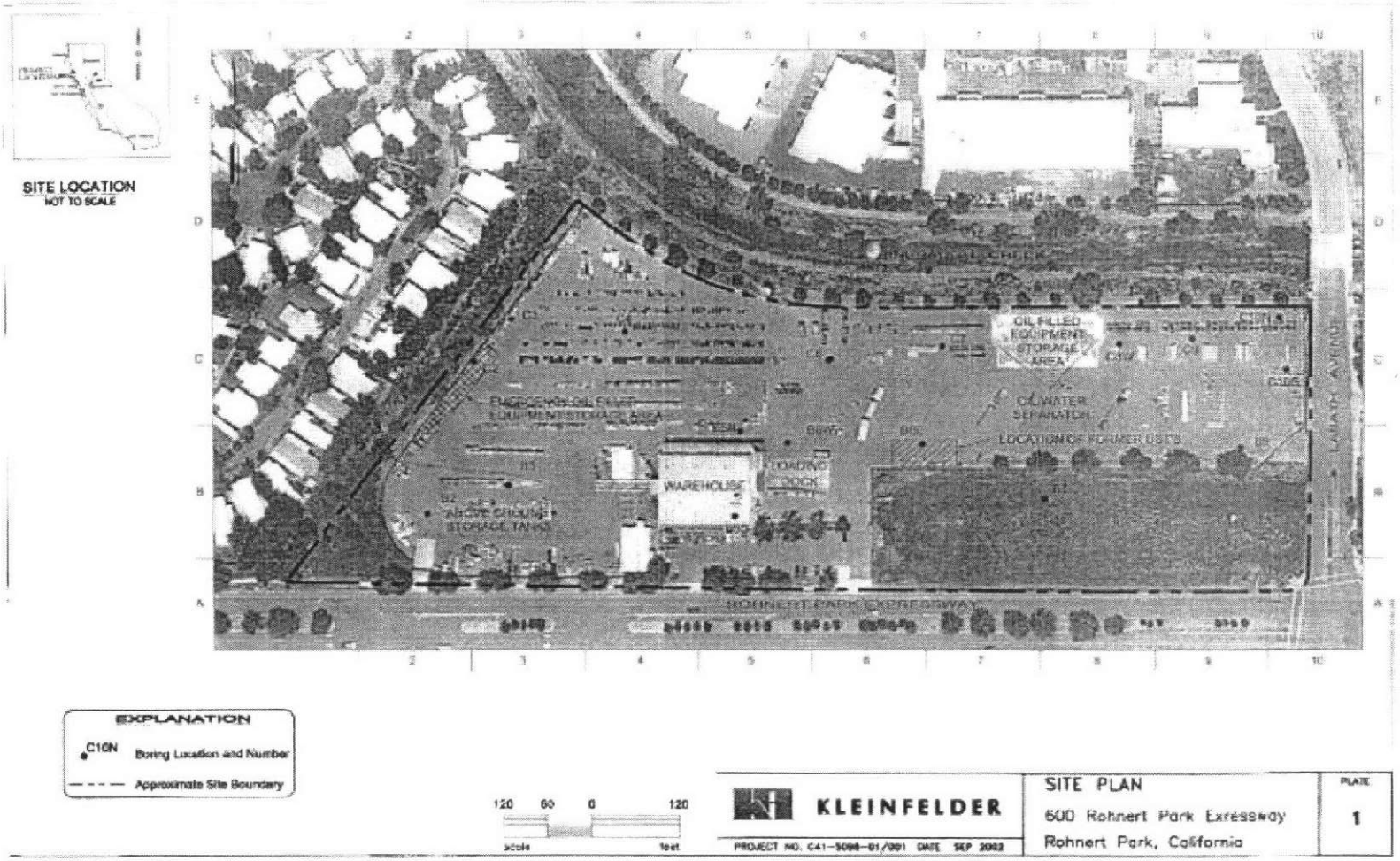

SITE LOCATION
NOT TO SCALE
OIL FILLED EQUIPMENT STORAGE AREA
OIL/WATER SEPARATOR
LOCATION OF FORMER USTS
WAREHOUSE
LOADING DOCK
ABOVE GROUND STORAGE TANKS
ROHNERT PARK EXPRESSWAY
LAUREL AVENUE
EXPLANATION
C10N Boring Location and Number
Approximate Site Boundary
120 60 0 120
Scale feet
KLEINFELDER
PROJECT NO. C41-5098-01/001 DATE SEP 2002
SITE PLAN
600 Rohnert Park Expressway
Rohnert Park, California
PLATE
1

Figure 18

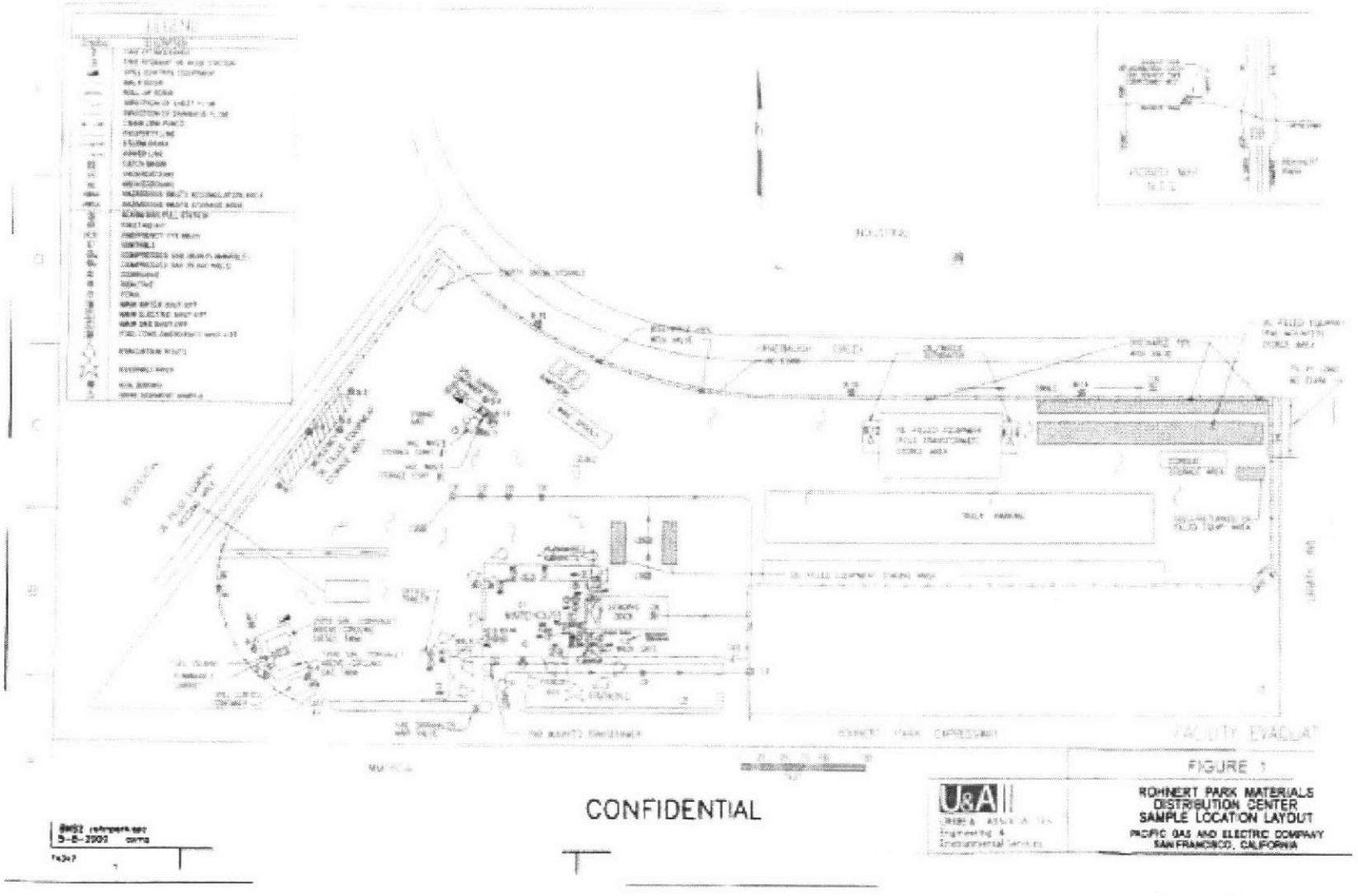

CONFIDENTIAL
FIGURE 1
ROHNERT PARK MATERIALS DISTRIBUTION CENTER
SAMPLE LOCATION LAYOUT
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

Figure 19


EXPLANATION
Photo Location & View Direction
Approximate Site Boundary
SITE
ROHNERT PARK EXPRESSWAY
SITE VICINITY
NOT TO SCALE
SITE LOCATION
NOT TO SCALE
HINEBAUGH CREEK
OIL FILLED EQUIPMENT STORAGE AREA
EMERGENCY OIL FILLED EQUIPMENT STORAGE AREA
OIL/WATER SEPARATOR
LOCATION OF FORMER UST'S
WAREHOUSE
LOADING DOCK
ABOVE GROUND STORAGE TANKS
ROHNERT PARK EXPRESSWAY
LABATH AVENUE
KLEINFELDER
SITE PLAN
600 Rohnert Park Expressway
Rohnert Park, California
PLATE
1

Figure 20

4.0 ENVIRONMENTAL DATABASE SEARCH RESULTS

As part of this study, Tetra Tech, Inc. retained the services of Environmental Data Resources, Inc. (EDR), a Connecticut-based company that maintains comprehensive environmental information databases and specializes in providing such data for use in real estate and environmental documents. EDR searched 47 environmental databases, both federal and state, for records of potential environmental impacts at the Site or surrounding areas. A search radius of up to 1 mile from the center of the Site was used for querying the databases. The EDR reports are provided in **Appendix C**.

Databases that contained information regarding sites located on or close to the Site included:

- CORRACTS, a list of handlers with Resource Conservation and Recovery Act (RCRA) Correction Action Activity;
- CORTESE, a database identifying public drinking water wells with detectable levels of contamination;
- NOTIFY 65, records containing facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk;
- Leaking Underground Storage Tank (LUST) Incident Reports;
- UST Reports;
- California Facility Inventory Database (CA FID), a database containing active and inactive UST locations; and
- Historical Registered UST Database (HIST UST), a database of historical USTs within California.

Database queries yielded the following: one CORRACTS site within approximately 1 mile of the Former NAAS OLF Cotati site; four CORTESE sites within approximately 0.5 miles; two Notify 65 sites within approximately 1 mile; nine LUST sites within approximately 1 mile; one UST site and one LUST site within approximately 0.25 miles; two CA FID UST sites within approximately 0.25 miles; and one HIST UST site within approximately 0.25 miles. The identified sites, their addresses, and approximate distance from the NAAS OLF Cotati Site are summarized in **Table 4**. Note that EDR searched from the center point of the NAAS OLF Cotati site, rather than from the Site boundaries. The distances shown on **Table 4** have been corrected to reflect the distance from the NAAS OLF Cotati site boundaries and therefore differ from what is shown in the EDR report.

The sites reported by EDR (**Table 4**) have the potential either to release, or to have released, hazardous materials to the environment. The majority of these sites are located north or northeast of the Site. Groundwater flow in the vicinity of the Site is inferred to be toward the west (**Section 2.2.4**); however, it is unknown whether contaminations from these sites have affected the NAAS OLF Cotati Site. The other three sites are located on or adjacent to Rohnert Park Expressway within the Site. None of the sites listed by EDR are in locations that correspond to areas of concern identified for the NAAS OLF Cotati era. The EDR report identified a number of water wells in the City of Rohnert Park area, including two located on southeast corner of the site. From the well information provided by EDR, there is no indication that either of these wells contains contaminated groundwater.

Table 4
GeoCheck Sites Identified by EDR
Former NAAS OLF Cotati

Site	Address	Distance from OLF	Direction
CORRACTS			
Safety-Kleen Corp 7-178-03	5750 Commerce Blvd	9/16 mile	NNE
CORTESE LIST			
PG&E Rohnert Park Materials	Rohnert Park Express 60	WS	E
Alvarado Bakery	Martin Ave 600	1/8 mile	N
Disalvo Trucking	Carlson Court 650	1/8 mile	N
101 International	Redwood Drive 6100	<1/8 mile	N
NOTIFY 65			
Arichitectural Door Division	5600 State Farm Drive	3/8 mile	NE
Former BMC West (Yardbirds)	5300 Commerce Blvd	5/8 mile	NNE
LUST Database			
CHP	6100 Labath Ave	WS	N
PG&E	600 Rohnert Park Expy W	WS	W
PG&E Rohnert Park Materials	Rohnert Park Expy 60	WS	E
Alvarado Bakery	Martin Ave 500	1/8 mile	N
Disalvo Trucking	Carlson Court 650	1/8 mile	N
101 International	Redwood Drive 6100	<1/8 mile	N
UST			
CHP	6100 Labath Ave	WS	N
CA FID UST			
CHP	6100 Labath Ave	WS	N
PG&E Materials Distribution	600 Rohnert Park Way	WS	W
HIST UST			
Rohnert Park Materials Center	600 Rohnert Park Expy	WS	W

Notes: EDR searched from the center point of the NAAS OLF Cotati Site, rather than from the site boundaries. Distances shown have been corrected to reflect the distance from the NAAS OLF Cotati Site boundaries and therefore differ from what is shown in the EDR report (**Appendix C**).

CA FID UST	-	California EPA Facility Inventory Database
CHP	-	California Highway Patrol
CORTESE LIST	-	California Department of Toxic Substances Control Hazardous Waste and Substance Site List
CORRACTS	-	Corrective Action Report from EPA-Corrective Actions Management Unit
EDR	-	Environmental Data Resources, Inc.
HIST UST	-	California Hazardous Substance Storage Container Database
LUST	-	Leaking Underground Storage Tank
NOTIFY 65	-	Proposition 65 Records from State Water Resources Control Board
OLF	-	Outer Landing Field, Cotati
PG&E	-	Pacific Gas & Electric
UST	-	Underground Storage Tank
WS	-	Within OLF Site

5.0 SITE RECONNAISSANCE AND INTERVIEWS

Tetra Tech, Inc. employees conducted a site visit on March 17, 2004. The photos of this site visit are located in **Section 3**. No visible signs remain of the Former NAAS OLF Cotati.

5.1 STORAGE TANKS AND DRUM STORAGE

There is no evidence of aboveground storage tanks or drum storage located on the property during the site visit.

Two 25,000-gallon underground gasoline storage tanks existed when the Former NAAS OLF Cotati was in operation in from 1943 through 1945. **Figure 16** depicts the changes in aerial photography over time relative to these USTs. The aerials show these tanks still in place in 1977 but no longer visible in a 1987 aerial photograph. Mr. Ron Allen, North Coast Region (1) Regional Water Quality Control Board and Ms. Darcy Bering Sonoma County Environmental Health Department were contacted for any information or documentation pertaining to this site. Both agencies had no records of these two tanks. There is no documentation regarding their removal from the site, however in the 1958 appraisal report, the pumping appurtances were no longer in place. Codding Enterprises developed the property into retail space in 1986 when the Kmart store was constructed. The tanks are no longer visible on the aerial photographs after construction of the Kmart store.

According to Geotracker, the State of California's database for underground storage tanks, the following non-DOD sites are listed:

- 6100 Labath Avenue, California Highway Patrol, Case closed.
- 300 Rohnert Park Expressway, Chevron Service Station, Case open.
- 600 Rohnert Park Expressway, PG&E, Case closed.

There have been releases of petroleum products affecting soil and groundwater at this former Site from these non-DOD activities. Geo Tracker data for the addresses listed above are found in **Appendix F**.

5.2 RAILWAYS

No railways are located on site.

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

Pacific Gas and Electric Company occupied a portion of the former Site starting in 1977, according to a Phase I assessment dated June 18, 2002. A release of petroleum hydrocarbons from an underground storage tank contaminated the soil and ground water at the site. In October 2001, Uribe and Associates performed due diligence sampling at the PG&E Materials Distribution Center in Rohnert Park, California. The findings of the due diligence investigation were published in a report entitled, "Report of Findings, Due Diligence Sampling, Pacific Gas and Electric Company, Materials Distribution Center Site, Rohnert Park, California," and dated February 2002.

According to the report, "Environmental Assessment and Review of Property and Existing Building, Food 4 Less, 605 Rohnert Park Expressway, Rohnert Park, California," the PG&E Materials Distribution Center had material that contained polychlorinated biphenyls. This report cites that PG&E personnel

stated that these materials were properly stored at this site, and then removed periodically by licensed hazardous waste haulers. There have been no documented spills of PCB containing materials at this site according to this report.

The aircraft machine gun firing range was located in the northwest portion of Former NAAS OLF Cotati. It is possible that ammunition could contribute heavy metals into the soil, but no evidence exists that the firing range was ever operational. **Figure 17** tracks changes in aerial photography through time. The remnants of the range were in place in a 1965 aerial photo but by 1977 the area was developed into the Rancho Verde Mobile Home Park.

According to the report, "Environmental Impact Statement for Rancho Verde Mobile Home Park, Rohnert Park, California December 1972," prepared by Del Davis Associates, Inc. (**Appendix K**), approximately 27 acres of the park site was covered by impervious materials in the form of asphalt from the former airport runways. All of this paved area could alter storm water, increasing the impervious surfaces and potentially introducing petroleum-based compounds derived from the asphalt into the stormwater. However, as part of the mobile home park development, the existing paved surface was removed and replaced with streets, coach pads, and landscaping.

Small arms storage was located on the northeastern portion of Former NAAS OLF Cotati. **Figure 14** tracks changes through time. The arms storage area is visible in the 1965 aerial photograph but is replaced by a roadway in the 1977 aerial photograph. No documentation was available for the disposition of this site.

From 1957 through 1972 the former runways and taxiways were used as a racetrack. The 1965 aerial photograph (Section 3.3) shows remnants of racetrack, tire marking are still easily discernable in this photo.

5.4 USED OIL

An oil storage shed was located in the eastern portion of the site. **Figure 15** tracks changes through time. The oil storage shed is visible in a 1953 aerial photograph by is no longer visible by 1965. The area has been developed and there are no visible features remaining of this shed.

5.5 PESTICIDES AND HERBICIDES

There is no documented use of any pesticide or herbicide during the Former NAAS OLF Cotati operations era.

5.6 POTABLE WATER SUPPLY/WELLS

There was a water supply well located onsite during the Former NAAS OLF Cotati operations era. In the 1958 appraisal report this water tank was misidentified as an oil storage tank. Upon close-up examination of this photo the shed depicted in this photo had building number 5 on it. Building number 5 was the water pump house according to the building inventory listing. There is no available documentation for the disposition of this water well.

5.7 SEWAGE DISPOSAL SYSTEM/SEPTIC SYSTEMS

There was a septic tank located near the wind indicator in the era of Former NAAS OLF Cotati. No remains of this system were evident during the site walk or visible in aerial photography.

5.8 SOLID WASTE

There is no documentation of any solid waste being generated by activities during the Former NAAS OLF Cotati era. Several Phase I Environmental Assessment reports document rubbish and soil piles being onsite. Mr. Reginald Bayley stated that the soil piles were from local contractors dumping without permission as well as household rubbish being discarded in this area due to lack of fencing. No documentation exists for the disposition of the soil piles or rubbish.

5.9 PCB-CONTAINING TRANSFORMERS AND EQUIPMENT

There is no documentation of any PCB-containing transformers or equipment being onsite during the Former NAAS OLF Cotati era. According to the Environmental Assessment and Review of Property and Existing Building, Food 4 Less, 605 Rohnert Park Expressway, Rohnert Park, California, the PG&E Materials Distribution Center had material that contained Polychlorinated biphenyls. This report cited that PG&E personnel stated that these materials were properly stored at this site, and then removed periodically by licensed hazardous waste haulers. There have been no documented spills of PCB containing materials at this site according to this report.

5.10 STAINED SOILS/STRESSED VEGETATION

There was no evidence of stained soils or stressed vegetation during the site visit.

5.11 ODORS/POOLS OF LIQUID

There was no evidence of odors or pools of unknown liquid during the site visit.

5.12 PERSONAL INTERVIEWS

The Former NAAS OLF Cotati closed more than 50 years ago, and most people who worked at the field are no longer living. Tetra Tech, Inc. contacted individuals who have done historical research for the city of Cotati and Rohnert Park. One individual whose family owned a chicken farm adjacent to the Former NAAS OLF Cotati use to watch the activities at the site during active airfield operations. Contractors and current owners of businesses were also contacted and interviewed during this records research.

Mrs. Pru Draper, Contacted 10 March 2004

Mrs. Draper published a book on the History of Cotati City. She knew of the Site and the time it was used. However she had no maps or photos of the Site while in operation. She referred Tetra Tech, Inc. to Sid Lungren who was more familiar with the site and its functions.

Mr. Sid Lungren, Contacted 19 March 2004

Mr. Lungren was 13 years old when Former NAAS OLF Cotati was actively being utilized. He stated that he knew quite a bit about the activities at the field from an observer's point of view. He stated that touch and go operations where performed at the facility from 8 a.m. till 5 p.m. every day for six days a week, four squads a day, 10 to 12 planes per squad. According to Mr. Lundgren he has no recollection of the gunnery range every being used. He identified what types of aircraft had flown in to the Site and from what air facility; "A" tail letters were for Alameda and "S" was for Santa Rosa. He also mentioned that on a rare occasion the site used "Smudge Pots." Mr. Lungren's written statement is presented in **Appendix L**.

Mr. John Gordon, Contacted 5 April 2004

Mr. Gordon was Vice President of Codding Construction Company in the early 1990s. He stated that Codding Enterprises owned the land where the Expressway Mall is located and parcels were sold to Kmart and Target. Mr. Gordon stated that he oversaw the construction of the JoAnn's Fabric building in 1992. He stated that there were no underground storage tanks found on this parcel. He stated that there were no noticeable soil disturbances or discoloration of soil and that he was onsite at this location frequently. Mr. Gordon stated that the Costco and Kmart stores were already constructed prior to this construction activity. There were different contractors who constructed the parking areas associated with these stores, but Mr. Gordon was unable to provide Tetra Tech, Inc. with the names of these contractors.

Mr. Stanley Everhart, Contacted 5 April 2004

Mr. Stanley Everhart, Construction Superintendent, S.D. Deacon of California. Mr. Everhart was the on-site superintendent at the time of the Target store construction. Mr. Everhart stated that there was a rumor of underground storage tanks being on the property before construction began, but did not encounter any during construction activities. He stated that the soils were wet and very mucky. They had to over excavate three feet due to soils being unsuitable and used a stabilizer prior to building. He stated that there were no soil disturbances and no evidence of contamination or tanks. He was asked if he built the parking area behind Target and he stated that he thought Codding Construction had built it. He stated that when construction of Target was complete a large empty field was located behind the building.

Mr. Reginald Bayley, Contacted 6 April 2004, 30 April 2004, and 11 May 2004

Mr. Bayley is Executive Vice President of Codding Investments, Inc. Mr. Bayley stated that Codding Enterprises purchased the property in 1964. He stated that when they purchased it nothing remained - only the asphalt on the taxiways and runways. No structures were standing. He stated that over the years areas have been developed, but no underground storage tanks, wells, water tanks were ever encountered during construction activities. He stated that Target did extensive soil testing prior to building but could not release the results without approval from Target. Tetra Tech Inc. personnel asked if he had any additional records or photographs of the site. He stated that he has no photographs but did have a few soil reports. On 30 April 2004 Mr. Bayley provided a copy of missing pages of a Phase 1 report provided by Target Stores and a copy of a Phase II assessment of Codding Enterprises. On 11 May 2004, Mr. Bayley was contacted concerning the disposition of the soil piles and rubbish that was mentioned in this Phase I report. Mr. Bayley stated that some of soil piles were fill material, and may have been used onsite or offsite by various contractors. Other piles were dumped by contractors without permission and just showed up on this site. If the pile contained rubble it was most likely taken offsite for disposal at a local landfill. He does not have any records documenting this. He also stated that the area was not fenced, and people would come and dump household garbage, i.e. couches, rubbish, etc. on this site. Tetra Tech Inc. personnel asked if he had any knowledge of a landfill being onsite. He stated that to his knowledge there has never been one on this site.

Mr. Ryan Zick, Contacted 6 April 2004

Mr. Zick is an Environmental Manager for Target Stores. Mr. Zick provided copies of the Phase I and II Environmental Assessments performed on property now owned by Target Stores.

BACE Geotechnical, Contacted 10 May 2004

BACE Geotechnical was contacted to obtain copies of the Phase I and Phase II Environmental Assessments they completed for property that once was the Former NAAS OLF Cotati, and is now owned by Codding Enterprises. Mr. Reginald Bayley of Codding Enterprises arranged for the release of these documents to Tetra Tech, Inc.

Kleinfelder, Inc., contacted 24 March 2004

Kleinfelder, Inc. was contacted to obtain copies and permission to use "Phase I Environmental Site Assessment, and Environmental Site Assessment, 600 Rohnert Park Expressway, Rohnert Park, California." Kleinfelder, Inc. provided Tetra Tech, Inc. with these reports and permission to use them.

6.0 SUMMARY AND CONCLUSIONS

6.1 PAST USES OF THE SITE AND ADJOINING PROPERTIES

6.1.1 Former NAAS OLF Cotati

From 1942 to 1945, the U.S. Navy operated the Site as an outer landing field for Alameda Navel Air Station. The field was constructed on hay farm land. The facility functioned primarily as a takeoff and landing exercise facility. **Table 1** and **Figure 2** provide a general timeline of site history for Former NAAS OLF Cotati. Former NAAS OLF Cotati sat idle after 1945 when the Navy ceased operations at the site due to runway sub-base failures. In 1948 a portion of the site was leased for agricultural use to M. J. Azevedo. From 1956 through 1972, the former Site runways were used as an automobile racecourse. Between 1958 and 1966 the site was sold to Ceasar-Callan Homes. Fidelity National Title Company was unable to find the quit deed document transferring this property from the U.S. Government to Ceasar-Callan Homes. In 1966 Ceasar-Callan Homes sold the property to Santa Rosa Enterprises (Codding Enterprises) a real estate development company.

6.1.2 Redevelopment

In 1966 the property was sold to Codding Enterprises and is currently under redevelopment. The Site is currently of mixed residential, commercial, and industrial use. The Site facilities constructed by DoD have been demolished and the land has all been redeveloped except for a couple of vacant lots.

6.2 ENVIRONMENTAL DATABASE SEARCH RESULTS

Tetra Tech, Inc. retained the services of EDR, Inc. to perform searches of environmental databases for records of facilities or sites in the vicinity of the Site that use, store, transport, or handle hazardous materials, or that have reported releases of hazardous materials to the environment. EDR reported five contaminated sites within 1 mile of water wells, and 8 sites with USTs or LUSTs within 1 mile of the Site. **Table 4** summarizes the GeoCheck sites identified by EDR for the Former NAAS OLF Cotati site.

6.3 SITE RECONNAISSANCE AND INTERVIEWS

A site visit was conducted on March 17, 2004. The area has been completely developed with ongoing construction activities. The Expressway Mall and several other businesses are located on site as well as two mobile home parks and several apartment complexes. There are no obvious signs of a runway or any of the DoD structures remaining.

6.4 AREAS OF POTENTIAL CONCERN

Based upon the results of this records research report, a few facilities have been identified as areas of potential concern. There has been no record of the removal of the two 25,000 gallon gasoline storage tanks, small arms storage facility, oil storage shed, or the aircraft machine gun firing range. All of these sites have undergone redevelopment and no visible evidence of any of these areas remain. Numerous Phase I and Phase II Environmental Assessments have been conducted; however, based on site characterizations and groundwater gradients calculated by others, none of these sites to date appear to have had an adverse impact on the subject site or pose a threat in the immediate future.

Pacific Gas and Electric (PG&E) 600 Rohnert Park Expressway, Rohnert Park. The PG&E site was a former materials distribution center. PG&E stored electric cable, transformers and other oil-filled

electrical equipment, treated wood ties and poles, diesel and gasoline fuel, and vehicles. Based on Tetra Tech, Inc.'s records review there was a release of petroleum hydrocarbons from UST's located at the site. Petroleum hydrocarbons were detected in near-surface soil samples collected by PG&E as part of a due diligence assessment conducted near the end of PG&E's lease to determine if there operations had impacted surface soils at the site. There was a remedial action to perform cleanup at this site as a result of the UST's release. The case is now closed and the site is currently being redeveloped into an apartment complex.

Chevron Station #9-1912 300 Rohnert Park Expressway, Rohnert Park. Release of methyl-tert-butyl-ether (MTBE) was reported - see Geotracker data provided in Appendix G, Contamination/MTBE. This site has ongoing monitoring of the groundwater contamination. Case remains open.

California Highway Patrol, 6100 Labath Avenue. In the Kleinfelder Phase I Site Assessment for 600 Rohnert Park Expressway, Rohnert Park, California, it states that a release of unleaded gasoline was discovered in May 1998. Assessment activities conducted by Herzog and Associates, Inc. have established the extent of affected soil and groundwater. The findings indicate that unleaded gasoline was not released to the soil and therefore, groundwater has not been affected. Case has been closed.

6.5 CONCLUSIONS

Research to date has indicated that the extensive redevelopment of the Former NAAS OLF Cotati property has removed or obscured all signs of the structures, runways, underground storage tanks, and the machine gun firing range that comprised the former facility. No visible evidence of the former airfield remains.

7.0 DISCLAIMER

This report was compiled based on information supplied to Tetra Tech, Inc. from outside sources and other information that is in the public domain. Documentation for the statements made in this report is on file at Tetra Tech, Inc.'s offices in Santa Barbara and McClellan Park, California. Tetra Tech, Inc. makes no warranty as to the accuracy of statements made by others that may be contained in this report, although it has made reasonable efforts to verify the reliability of both the information and its sources. Tetra Tech, Inc. reviewed only that documentation that was reasonably available and ascertainable in the context of the time and cost limitations of this study. Any additional documentation regarding the subject site that was not known or available to Tetra Tech, Inc. may provide additional pertinent information. Although no express or implied guarantees can be made as to the conclusions of any historical research, Tetra Tech, Inc. has prepared this report in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Tetra Tech, Inc. does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage.

None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

Respectfully submitted,

Kyle Byard

TETRA TECH, INC.

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9 ACRONYMS AND ABBREVIATIONS

ACM	asbestos containing material
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
CMH	Center of Military History (U.S. Army)
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
F	Fahrenheit
ft.	feet
FUDS	Formerly Used Defense Sites
GC	General Commercial
LUST	Leaking Underground Storage Tank
msl	mean sea level
NARA	National Archives Records Administration
NDAI	No Department of Defense Actions Indicated
NOAA	National Oceanic and Atmospheric Administration
OLF	Outer Landing Field
NAAS	Naval Auxiliary Air Station
PCE	tetrachloroethene
P-GC	Planned General Commercial
P-M-D	Planned Manufacturing District
P-M-D-REC	Planned Recreational
POW	Prisoner of War
P-R-M-15	Planned Residential with maximum density of 15 dwellings per acre
P-R-M-30	Planned Residential with maximum density of 30 dwellings per acre
RCRIS	Resource Conservation and Recovery Information System
RG	record group
R-M-15	Residential with maximum density of 15 dwellings per acre
R/W	right-of-way
Tetra Tech	Tetra Tech, Inc.
USACE	U. S. Army Corps of Engineers
USDA	U.S. Department of Agriculture

USFWS	U.S. Fish and Wildlife Service
USGS NWIS	U.S. Geological Survey, National Well Inventory System
USGS	U.S. Geological Survey
UST	underground storage tank

APPENDIX

Appendices Provided Digitally on Attached Compact Disc

REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: DTSC Comments 2004/06
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	General	*"For the machine gun firing range - The report lacks evidence of the extent of use and of the status of the back stop soils. Further information and field work should be initiated to determine if the current trailer park could or is being impacted from the possible lead contamination in this area. A sampling plan for the field sampling and analysis of soils within the trailer park should be initiated unless documentation is presented identifying where the back stop soils were moved."*	The Environmental Impact Statement for Rancho Verde Mobile Home Park, Rohnert Park, CA., Dec. 1972 states *"As part of the mobile home park development the existing surface will be removed and replaced with streets, coach pads and landscaping."* All visible evidence has been removed for where this range site was. There is no documented evidence that this range was ever used. Eyewitness accounts stated that this field was a touch and go air field only and they never recalled seeing the range in use.
2.	General	*"For the two 25,000 gallon underground storage tanks - There is no record of removal or reuse. Further information and field work should be initiated to determine the fate or current status of these storage tanks."*	North Coast Regional Water Control Board is the lead agency on UST issues in California and they are overseeing the tank issues associated with this site. Tetra Tech Inc. revisited a 1945 aerial photo of these USTs. Upon close inspection of the aerial it appears that these tanks have shelters over the tanks to keep the sun off of them. Indications are that these tanks were only partially buried, and that the shelters were used to shade and protect the exposed portions. Evident is also an earthen berm surrounding this tank area, which would not be necessary if the tanks were entirely underground. The most common dimensions for 20,000 gal tanks are approximately 13'in diameter by 27' to 30' in length. These tanks were still in place in the 1977 and 1983 aerial photographs. Since these tanks had portions located above the surface or near the surface of the ground it would have been impossible for Kmart to have been constructed in 1985 without encountering these tanks during the grading process. These tanks were located adjacent to the southwest corner of this building. The asphalt roadway behind this building would cover a portion of the tank site. Target and the House of Fabric are also over the tank site. Interviews conducted with the Target store construction company personnel indicate no tanks were present during construction activities in 1992/1993.
3.	General	*"Photos in the report seem to indicate an electrical distribution system which would necessitate the use of transformers. It seems likely that transformers in this area would contain polychlorinated biphenyls (PCBs). Please provide additional information on the transformer locations, removal and disposal."*	The appraisal reports for Former NAAS Cotati state that the electrical distribution system was provided by PG&E. When this site was built power came from a transmission line 1/5 mile from the site. In an old photograph in these assessors' reports it shows power poles with the old glass type insulators on the pole and no transformer. There was a drop to the Control tower building in the old photo. The site visit photos show one newer transformer in place adjacent to city water well.

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REVIEW COMMENTS

PROJECT Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO ☐ MECHANICAL ☐ SAFETY ☐ SYSTEMS ENG
■ ENVIR PROT& UTIL ☐ MFG TECHNOLOGY ☐ ADV TECH ☐ VALUE ENG
☐ ARCHITECTURAL ☐ ELECTRICAL ☐ ESTIMATING ■ OTHER
☐ STRUCTURAL ☐ INST & CONTROLS ☐ SPECIFICATIONS

REVIEW DTSC Comments 2004/06
DATE 18-June-2004
NAME Debra Soper / Dr. G. O. Graening

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
4.	General	*"It is unclear to what extent the oil storage shed was operated; further information is needed to eliminate this item as a potential concern."*	There is no documentation for the use of the oil storage shed other then the name of the oil storage shed. There are no visible remains of this shed. Buildings and parking lots currently cover site.
5.		*"It is unclear from the aerial photographs or text whether there was a fire training area at this facility. Additional information is needed."*	There was only one crash truck associated with this site. The main base associated with this airfield was Santa Rosa located only 5 miles to the North. Fire training activities most likely occurred at Santa Rosa so all the firefighting personnel could be trained at the main base and not at this very small offsite location.
6.		*"Although the number of staff always present onsite appeared to be quite small, it is unclear the type and quantity of wastes generated, and the handling of these wastes (disposal, treatment, recycling or other approach)."*	This airfield was a touch and go airfield for most of the active life of the site. No documentation exists for the maintenance of any aircraft as the number of soldiers onsite was small. Maintenance most likely occurred at the Santa Rosa airfield 5 miles to the north. The runway maintenance was done by the State of California per contract.
7.		*"The use of the small arms magazines identified for this site is unclear. Was the machine gun range also used as a side arm/rifle range during down times at the facility, was there another location where small arms practice could have occurred, or were there no other firing activities other than at the aircraft machine gun backstop?"*	The small arms magazine most likely was used as small arms magazine storage. Gate guards most likely kept their weapons and ammo there. All training most likely occurred at the Santa Rosa Airfield 5 miles to the north. There is no documentation that the aircraft firing range was ever used. As-built record drawings do not indicate a small arms range of any type being on site.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: DTSC Comments 2004/06
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
8.		*"Ms. Marilee Taylor Montgomery has identified ground scarring adjacent to the Cotati property. As has been found at several FUDS properties, it is not unheard of to have adjacent property used as needed for military purposes. Although DTSC has not seen the pictures, Ms. Montgomery believes these locations are adjacent to Cotati. These areas, if adjacent to the site and identified in the pictures, at a minimum, should be evaluated to determine what caused the ground scarring."*	The lands surrounding Former NAAS Cotati were relatively pristine and pastoral in character, having land-use histories that were primarily agricultural. No (anthropogenic) scarring is evident on any aerial photography and no evidence exists that DoD ever used surrounding private lands for target practice. Individuals may have interpreted the lands surrounding Former NAAS Cotati as containing numerous depressions (*i.e.* bomb craters) when in fact these features are vernal pools, swales, and mima mounds. Interpreting positive relief to be negative relief, and vice versa, is a common mistake made by persons inexperienced in aerial photographic interpretation; with certain aspect and shading, mounds can mistakenly be viewed as depressions, and drainage patterns could be mistakenly viewed as scarring. Areas near Rohnert Park, and Sonoma County in general, are well known to contain vernal pool mima mounds; the Department of Fish and Game's vernal pool report is quoted to summarize (emphasis added): *"The Santa Rosa Plain pools occur as remnants in a matrix of agriculture, development, and fragmented remains of Valley Oak Woodland, grassland, and persistent wetland vegetation. The remaining pools in western Santa Rosa Plains (Windsor area and some in Sonoma area) are largely tied to Huichica loam soils, strongly cemented old valley floor alluvial soils derived from mixed sedimentary, volcanic ash, or basic rock sources.* ***These pool areas have a hummocky, mima mound micro topography with small swales and pools intermixed*** *and are located on plains and terraces largely west and northwest of Santa Rosa. Pools in the vicinity of Laguna de Santa Rosa (near Sebastapol) and other parts of the southwestern Santa Rosa Plains are on Wright clay loams"* (Keeler-Wolf et al., 1998).

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REVIEW COMMENTS

PROJECT Former NAAS Cotati, #JO9CA7470, Cotati, CA

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■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
8. cont.			The explanation of the creation of these mounds and intermingled drainage network is complex, and involves a combination of factors including shrink-swell activity in clays, seismic sorting and liquefaction, and/or rodent burrowing activity (Cox, 1984; Corliss, 1996; U.S. Fish and Wildlife Service 1997). However, none of these factors involve, nor require, the use of military ordnance or other human-induced soil disturbance. References: * Corliss, W. R. 1996. Earthquakes and mima mounds. Science Frontiers ONLINE; No. 108: Nov-Dec 1996; http://www.science-frontiers.com/sf108/sf108p08.htm *Cox, G. W. 1984. "The distribution and origin of mima mound grasslands in San Diego County, California." Ecology 65(5):1397-1405. *Keeler-Wolf, T., D. R. Elam, K. Lewis, and Scott A. Flint. 1998. California Vernal Pool Assessment - Preliminary Report. Department of Fish and Game, The Resources Agency, State of California. http://maphost.dfg.ca.gov/wetlands/vp_asses_rept/northwestern.htm. *U.S. Fish and Wildlife Service. 1997. Federal Register: February 6, 1997 (Volume 62, Number 25): Pages 5542-5551.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: Congress. Woolsey Comments 29 July 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 2-August-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	General	*Request information and documents pertaining to the excavation and/or removal of the earthen berm and/or surrounding soil of the firing range area of the airstrip. If no proof has been found, I request a statement of that fact.*	An aircraft machine gun firing range and associated backstop (an earthen berm) was located in the northwest portion of Former NAAS OLF Cotati, but no evidence exists that the firing range was ever operational. Aerial photographs dated 1943, 1944, 1945, 1953, and 1965 (pages 3-16 to 3-21 in RRR-Cotati) document the existence of the firing range and associated berm; aerial photographs dated 1977, 1982, 1987, 1993 (pages 3-22 to 3-25 in RRR-Cotati) and the photograph on page 3-8 (RRR-Cotati) documents that the berm is no longer visible. Likewise, aerial photograph overlays dated 1942, 1944, 1953, and 1965 (Figures 7 through 10, pages 3-28 to 3-30 in RRR-Cotati) document the existence of the firing range and associated berm; aerial photograph overlays dated 1977, 1987, and 1993 (Figures 11 through 13; pages 3-31 to 3-33 in RRR-Cotati) and do not show the berm. Figure 17 (page 3-37 in RRR-Cotati) summarizes aerial photo history pertaining to the berm. By 1977 the area was developed into the Rancho Verde Mobile Home Park. According to the report, "Environmental Impact Statement for Rancho Verde Mobile Home Park, Rohnert Park, California December 1972," prepared by Del Davis Associates, Inc. (Page 5-2 and Appendix K of RRR-Cotati), approximately 27 acres of the park site was covered by impervious materials in the form of asphalt from the former airport runways, and the report states, "*As part of the mobile home park development the existing surface will be removed and replaced with streets, coach pads and landscaping.*" All visible evidence has been removed for where this firing range berm was located. Furthermore, there is no documented evidence that this range was ever used. Eyewitness accounts stated that this field was a touch and go airfield only and they never recalled seeing or hearing the firing range in use. A Tetra Tech, Inc. interview with Mr. Sid Lungren occurred on 19 March 2004 (Page 5-3 and 5-4 in RRR-Cotati). He stated that he knew quite a bit about the activities at the field from an observer's point of view. He stated that touch and go operations where performed at the facility from 8 a.m. till 5 p.m. every day for six days a week, four squads a day, 10 to 12 planes per squad. According to Mr. Lundgren he has no recollection of the gunnery range every being used (Mr. Lungren's written statement is presented in Appendix L of the RRR-Cotati).

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: Congress. Woolsey Comments 29 July 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 2-August-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
2.	General	*Request proof of removal of any UG tanks and /or underground fuel distribution systems. If no proof has been found, I request a statement of that fact.*	National Archive Records Administration documents indicate that two 25,000-gallon underground gasoline storage tanks (USTs) existed when the Former NAAS OLF Cotati was in operation in from 1943 through 1945. Table 2 (page 3-4 in RRR-Cotati) "Building Inventory" lists the two USTs. Close inspection of aerial photography indicates that these tanks had shelters over them. Indications are that these tanks were only partially buried, and that the shelters were used to shade and protect the exposed portions. An earthen berm surrounding this tank area is visible, which would not be necessary if the tanks were entirely underground. The aerial photograph dated 1943 (page 3-16 in RRR-Cotati) shows them under construction. Aerial photographs dated 1943, 1944, 1945, 1953, 1965, and 1977 (pages 3-17 to 3-22 in RRR-Cotati) show the tanks in place; in aerial photographs dated 1982, 1987, and 1993 (pages 3-23 to 3-25 in RRR-Cotati), the tanks are not visible. Likewise, in aerial photograph overlays in Figures 7 through 9 (pages 3-27 to 3-29 in RRR-Cotati) the tanks are visible; in the aerial photographic overlays of Figures 10 through 13 (pages 3-30 to 33 in RRR-Cotati) the tanks are not visible. Figure 16 (page 3-36 in RRR-Cotati) summarizes the changes in aerial photography over time relative to the USTs. Section 5.1 "Storage Tanks and Drum Storage" and Section 5.3 "Hazardous substances and petroleum products" of RRR-Cotati summarizes DoD and non-Dod use of fuel tanks onsite. Mr. Ron Allen, North Coast Region (1) Regional Water Quality Control Board and Ms. Darcy Bering Sonoma County Environmental Health Department were contacted for any information or documentation pertaining to this site. Both agencies had no records of these two tanks. There is no documentation regarding their removal from the site, however in the 1958 appraisal report, the pumping appurtances were no longer in place. Section 3.11 of RRR-Cotati summarizes previous environmental assessments pertaining to UST environmental issues and associated soil and water sampling. Codding Enterprises developed the property into retail space in 1986 when the Kmart store was constructed (Page 5-1 of RRR-Cotati). There was no evidence of aboveground storage tanks or drum storage located on the property during the site visit.

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PROJECT Former NAAS Cotati, #JO9CA7470, Cotati, CA

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☐ ARCHITECTURAL ☐ ELECTRICAL ☐ ESTIMATING ■ OTHER
☐ STRUCTURAL ☐ INST & CONTROLS ☐ SPECIFICATIONS

REVIEW Congress. Woolsey Comments 29 July 2004
DATE 2-August-2004
NAME Debra Soper / Dr. G. O. Graening

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
			Mr. John Gordon was interviewed by Tetra Tech Inc on 5 April 2004. Mr. Gordon was Vice President of Codding Construction Company in the early 1990s. He stated that Codding Enterprises owned the land where the Expressway Mall is located and parcels were sold to Kmart and Target. Mr. Gordon stated that he oversaw the construction of the JoAnn's Fabric building in 1992. He stated that there were no underground storage tanks found on this parcel. He stated that there were no noticeable soil disturbances or discoloration of soil and that he was onsite at this location frequently (Page 5-4 of RRR-Cotati). Mr. Stanley Everhart was interviewed by Tetra Tech Inc on 5 April 2004. Mr. Everhart is the Construction Superintendent of S.D. Deacon of California, and was the on-site superintendent at the time of the Target store construction. Mr. Everhart stated that there was a rumor of underground storage tanks being on the property before construction began, but did not encounter any during construction activities. He stated that the soils were wet and very mucky. They had to over excavate three feet due to soils being unsuitable and used a stabilizer prior to building. He stated that there were no soil disturbances and no evidence of contamination or tanks (Page 5-4 of RRR-Cotati). Mr. Reginald Bayley was interviewed by Tetra Tech Inc on 6 April 2004, 30 April 2004, and 11 May 2000. Mr. Bayley, Executive Vice President of Codding Investments, Inc., stated that Codding Enterprises purchased the property in 1964. He stated that when they purchased it nothing remained - only the asphalt on the taxiways and runways. No structures were standing. He stated that over the years areas have been developed, but no underground storage tanks, wells, water tanks were ever encountered during construction activities (Pages 5-4 of RRR-Cotati).
3.		*Request archived records used in the preparation of the latest report*	All supporting documentation was presented in Appendices A through L of the RRR-Cotati and also digitized and archived in the compact disk that was attached to the RRR-Cotati.

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REVIEW COMMENTS

PROJECT Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW	Congress. Woolsey Comments 29 July 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE	2-August-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME	Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS			

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
4.		*Request copies of any documents obtained from any State and/or Sonoma County agencies used in the preparation of the latest report.*	All supporting documentation was digitized and archived in the compact disk that is included in the Appendix of the Draft Report.
5.		*Copies of any documents obtained in the record search conducted in Washington, DC, as per Mr. Vincent's public statement on June 28, 2004*	Interactions with Sonoma County are documented in Sections 3.6, 3.7, and 3.10 and Appendices E and J of the RRR-Cotati. All supporting documentation was also digitized and archived in the compact disk that is attached to the RRR-Cotati.
6.		*The CD containing scanned documents used in the preparation of the USACE's latest report on this property, or printed copies of those same document.*	A compact disk can be found in the inside cover of the RRR-Cotati which contains all supporting documentation used to prepare the RRR-Cotati.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: Historian Ray Anderson Comments 6 July 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 12-August-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	General	The official name of the base was Santa Rosa Naval Auxiliary Air Station, Out Lying Field, Cotati, often written as Outlying Field, never Outer Landing Field (SRNAAS,OLF Cotati). There were numerous NAAS-OLF bases and this one was not a conventional landing field. The base was simply referred to as ³Cotati² and was under the jurisdiction of the Commander SRNAAS, which, in turn, was under the Twelfth Naval District¹s Naval Air Station headquartered in Alameda. There was no direct connection of Cotati to Alameda.	NARA documents refer to the Site as Former Naval Auxiliary Air Station Outer Landing Field Cotati, and this name will remain the official name of this Formerly Used Defense Site. However, the final Report has been edited to include synonyms originating from other historical documents. We were not able to substantiate Mr. Anderson's assertion that Santa Rosa controlled Former NAAS OLF Cotati rather than Alameda.
2.	General	It should be noted the Cotati OLF was a low Key operation for one purpose - to provide a facility for training navy and marine pilots in preparation for aircraft carrier assignments. There was a so-named Operations building with a control tower on top. But there was no central base control. The Barracks building housed living quarters for a few enlisted men (there were no officers on board)‹a small kitchen, mess area and sleeping quarters for 8-10 men, mostly rotated there from the main base, SRNAAS, on temporary duty for security and to man the emergency equipment etc. The Control tower was never used, as squadron pilots were rigidly scheduled there, with a Landing Signal Officer (LSO), to make the allotted touch and go landings within a marked out area on the runway, then depart. The pilots knew them as Field Carrier Landing Practice (FCLP). The base was shared with pilots from the Alameda Naval Air Station, so in favorable weather the field could be pretty busy, to the chagrin of understanding neighbors but a delight to kids who lined the perimeter security fence to watch. There were no crew chiefs, plane captains, or ordinance men aboard, hence no aircraft fueling or gunnery - all aircraft service and maintenance was peformed at the main base. It would seem important to emphasis that the actual fuel storage tanks were above ground and within bermed confines, as revealed in the photograph. I doubt they were ever used - there is no evidence of a fuel dispensing station and a member of the fire crew stationed there was not aware of any fueling activity. Also, there may have been an Aircraft Target Range and Ramp, as depicted on a map of the base, which could have been available for bore sighting the guns, but that was done optically and at the main base. I don't know where the noting of a Machine Gun Range came from but that is ridiculous for a base such as the Cotati OLF.	Mr. Anderson's comments are noted for the record. NARA documents and aerial photographs depict the location of fuel tanks, and a fueling pit. We could not establish from available information or records whether or not airplanes were refueled at the Site. Similarly, NARA documents depict the location of the machine gun firing range, and the berm is visible in aerial photography. We could not establish from available information or records whether or not the machine gun firing range was ever used.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: Historian Ray Anderson Comments 6 July 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 12-August-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
3.	General	I suggest it would be important to posture the base as what it actually was, and not present descriptions that lead to misinterpretation of the purpose and function of the base.	The description of the Former NAAS OLF Cotati is based solely upon available documentation, and is not speculative in nature.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: T. Lang (H-B Group) Comments 25 June 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	General	Page 2-4 - Section 2.3, Historical/Cultural Resources. The section states, "Within 1 mile of the Site, the following recorded features occur. . . ." Not! The only feature listed that may be within a mile of the Site is the Cotati Downtown Plaza, and I wouldn't be sure of that. The others (Jack London Park [Glen Ellen], Petaluma Adobe [southern Petaluma], Salvador Vallejo Adobe [town of Sonoma] and Union Hotel & Hall [Occidental] are well removed from the Site, and obvious errors such as this could go to the credibility of other portions of the document.	These errors have been corrected in the Final Report.
2.	General	Page 2-5 - aerial photo showing "Current Conditions at OLF Cotati" is dated 1993, i.e., 11 years ago. There are more current photos out there. Figure 6, page 3-7, is identical - so, same comments for this one too.	A year 2000 aerial photograph of the site and has incorporated into the report.
3.	General	Page 3-4 - Figure 3. The figure is not grounded in space *or* time [title block says "Conditions of Former NAAS OLF Cotati as of 19-", with no date given]. What is the source of and/or relevance of this figure?	This figure has been replaced.
4.	General	Page 3-5 - Figure 4. Same comments as for Figure 3.	This figure has been replaced.
5.		Page 3-6 - Figure 5, "Current Site Map, Former NAAS OLF Cotati." Even with my new eyeglasses, I can't read the building name, addresses, or streets. For the Final, figures should be legible.	Figure 5 has been enlarged in the Final Report.
6.		Historical aerials. Bravo! They are particularly good and clear on the website. However, I think it's somewhat confusing and duplicative to have the sequence of aerials on pp. 3-14 through 3-25, and then the more effective sequence on Figures 7 - 13 (pp 3-27 through 3-33). I'd combine the sequences, including the oblique photos. A good point of reference to show in all the photos is the Laguna de Santa Rosa, which borders the southern portion of the Site. Figures 14 - 17 (the thumbnails of specific areas) would be more effective if they were larger - but it's a great idea. How about a truly current (last 2-3 years) aerial photo that identifies the buildings (Target, etc.) currently within the OLF footprint, rather than just the somewhat spurious (see below) LUST properties?	The figures mentioned were not removed because of redundancy but retained because they are sufficiently different from each other to warrant their placement in the Final Report.
7.		Pages 3-44 through 3-46, Figures 18 through 20. Larger and more legible, please.	These Figures were enlarged in the Final Report.

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REVIEW COMMENTS

PROJECT: Former NAAS Cotati, #IO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: T. Lang (H-B Group) Comments 25 June 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
8.		Section 4.0, Environmental Database Search Results. This section is inadequate. There is no interpretation, nor, at a minimum, any information on the *current status* of the listed properties. From my Phase I for the casino site: "Two properties in the business park (**Alvarado Bakery**, 500 Martin Avenue, and **Di Salvo Trucking Company**, 650 Carlson Court) are leaking underground storage tank (LUST) cases, but **both received case closure from regulatory agencies in the mid 1990s** [bakery case closure 8-27-96; Di Salvo case closure 12-20-95]. The former Di Salvo property is currently occupied by Watkins Motor Lines, Inc. Two other [nearby] properties . . . had leaking underground storage tanks: **Pacific Gas & Electric Company** (also listed as "Rohnert Park Materials Center"), 600 Rohnert Park Expressway West, and the **California Highway Patrol**, 6100 Labath Avenue. **The PG&E property received case closure in February 2002; the property currently appears to be vacant. The CHP property received case closure in July 1999.** "	This report addresses those properties within the footprint of the Former NAAS Cotati. Tetra Tech Inc. did contact the North Coast Regional Water Control Board and Sonoma County Environmental Health on the status of underground storage tanks. Please refer to Section 3.11 and Section 5.3 for more specific information on the USTs that may have been located on this former Site. EDR provides a limited source of information and was included in this report as a source of information only.
9.		The EDR report in Appendix C identifies **101 International**, 6100 Redwood Drive, as still an open case; GeoTracker indicates that contaminated soil was removed in 2000; given that there are no analytical data in Geotracker, that the waste oil leak there was stopped in 1988, and "regulatory enforcement" occurred in 1993, this property does not appear to be a significant potential source of contamination; additionally, it's across a canal from the OLF. **Safety-Kleen,** 5750 Commerce Boulevard, is about ½ mile NNW, across a canal - and the freeway - and has "groundwater migration under control." Some of this needs to be said in the report. The case closure information is in the EDR report. The public should not have to go hunting for this information; explanation of the status of these properties should appear in the text. Did Tetra Tech review files at the RWQCB?	

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☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: T. Lang (H-B Group) Comments 25 June 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
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ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
10.		Section 5.0. Site Reconnaissance and Interviews. Section 5.1, Storage Tanks and Drum Storage, lists the PG&E site, the CHP site, 101 International, and a Chevron Station at 300 R.P. Expressway. This station is not listed in the EDR report (probably because mapping databases erroneously place it on the east side of the freeway). Many pages of its GeoTracker listing are included in Appendix F; however, data in the Geotracker report in Appendix F show the only recently detected analyte to be MTBE, with a November 2003 maximum value of 180 ppb. MTBE concentrations over time steadily declined, leading one to believe the groundwater problem is contained. [BTEX and gasoline values are all ND]. In general, it's not enough to say there's been a problem, or a leaking UST, or whatever, and not follow up with additional research, information, or discussion.	EDR and Geotracker are listed as sources of information only. Specific information on the underground storage tanks is covered in Sections 3.11 and 5.3 of this report.
11.		Section 6.0, Summary and Conclusions. In light of the current status of the properties identified in the EDR report and the Chevron station, Sections 6.2 (Environmental Database Search Results) and Section 6.4 (Areas of Potential Concern) should be revamped. Particularly § 6.4 - none of the three properties listed there (PG&E, Chevron, CHP) are of any real concern.	Point noted, Tetra Tech Inc. was tasked to provide only a records research report.
12.		Appendix J is not on the CD.	Appendix J has been added to the CD.
13.			
8. cont.			

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PROJECT: Former NAAS Cotati, #JO9CA7470, Cotati, CA

☐ SITE DEV & GEO	☐ MECHANICAL	☐ SAFETY	☐ SYSTEMS ENG	REVIEW: L. Rivera (RWQCB) Comments 9 June 2004
■ ENVIR PROT& UTIL	☐ MFG TECHNOLOGY	☐ ADV TECH	☐ VALUE ENG	DATE: 18-June-2004
☐ ARCHITECTURAL	☐ ELECTRICAL	☐ ESTIMATING	■ OTHER	NAME: Debra Soper / Dr. G. O. Graening
☐ STRUCTURAL	☐ INST & CONTROLS	☐ SPECIFICATIONS		

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	General	I recommend that you endeavor to obtain the Kleinfelder phase 2 report on Target and re-draft the summary contained in your document.	Kleinfelder phase 2 report obtained and incorporated into the report.
2.	General	On the groundwater front, specifically in the area where we agree the tanks were located, the summary of the thread of work, follow-up recommendations, and eventual results is not satisfactory because it is missing the last link. Here is the picture: In the binder, the tab for Appendix G includes copies of CEC's soil and groundwater results and a map of the boring and sample locations. It showcases low-level detections of TPHg and BTEX. A cursory look and comparison with the enclosed map further reveals that those groundwater results could be "associated" with the locations of the USTs. So there is a question there. Kleinfelder's critiqued that report, pointed out significant flaws associated with sampling, the locations, etc., and recommended a follow-up soil and groundwater sampling program. The follow-up work is summarized in the paragraph in your executive summary that I originally quoted to you. You reference that there was no soil contamination found. You clarify to me that you relied on a summary of Kleinfelder's conclusions of that phase 2 work included in a BACE report for a nearby parcel. (correction to your last message: it is on page 6 of BACE's report). Turns out that the statement on no soil contamination is a qualitative statement. Kleinfelder did not run any soil samples through the lab. Therefore, because the report is not available, there is no comparable table to attach to your Appendix G to follow the groundwater detections you do highlight from the CEC report. The summary contained in Petsmart's report is not sufficient to "settle" the matter. It does not state how Kleinfelder's groundwater "selected locations" (which were ND for the fuel constituents of concern) correspond to those originally selected and analyzed by CEC.	

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Note: Appendices A through L for the Final Records Research Report Former Naval Auxillary Air Station Outer Landing Field Cotati, California Formerly Used Defense Site (FUDS) can be found at: www.Cotatiairfield.com