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December 22, 2004

Mr. Robert Schultz
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Schropp Ranch No. 1 Site
3880 Mountain House Road, Byron, Alameda County, California
ACEHD Site No. RO #2473

Dear Mr. Schultz:

Enclosed is a copy of the Final Problem Assessment Report (PAR) and Closure Request Document for the Schropp Ranch No 1 Site located at 3880 Mountain House Road, Byron, Alameda County, California. This PAR is a comprehensive document that presents all of the activities that have transpired at the site since 1992 including additional work directed by Alameda County Department of Environmental Health (ACEHD). The unauthorized release of petroleum hydrocarbons as gasoline fuel was the result of a former underground storage tank (UST) that was located at the residence. A significant volume of petroleum hydrocarbon contaminated soil and groundwater was present at the site when initial investigations were conducted.

The site assessment and remediation action taken were conducted in accordance with Tri-Regional Board Guidelines for Investigations at Leaking Underground Storage Tank sites. All petroleum hydrocarbon soil contamination has been removed except for a minor portion underneath the residential structure. All groundwater monitoring wells have been monitored on a quarterly basis during 1994-1996 and have been reported to show that flow direction and gradient of groundwaters have bracketed the site. No remaining groundwater is impacted. A recent monitoring event was conducted in 2002 where all wells were sampled and analyzed for volatile organic compounds by USEPA Test Method 8260B. Analytes included BTEX and TPH-gasoline, 5 oxygenate compounds including MTBE and two lead scavengers. All groundwater

samples were reported to contain analytes below analytical method detection limits. An investigation to confirm that no vertical migration of petroleum hydrocarbon contaminated soil was conducted in 2003.

Also included in the PAR is a section on discussion of the Shell Oil Central Valley Pipeline that traverses the property located east of Mountain House Road. This pipeline had leaked at an unknown past time on the Schropp Property east of Mountain House Road during the period of its operation which ended in about 1970. The pipeline is no longer active. Petroleum hydrocarbon contamination was discovered by surface exploration of the pipeline easement by Agriculture Industries in 1994. The California Regional Water Quality Control Board-Central Valley Region had Shell Oil Company conduct an investigation along this portion of the pipeline east of Mountain House Road. The site has been remediated and has subsequently been closed.

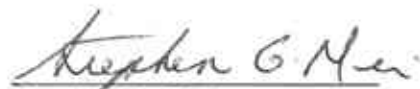
A California Regional Water Quality Control Board-Central Valley Region site closure checklist is provided with the PAR. The site meets all criteria for site closure.

We strongly recommend that this site be closed as no further work is warranted.

In the process of preparing the PAR we discovered that the former 550 gallon gasoline UST that we previously assumed was a primary farm tank and exempt from required for operator registration should have been registered as a residential underground storage tank. During detailed discussions with the former farm tenant in 2002 we have come to discover that the former UST was a "residential tank" and was in fact never used for agricultural purposes or operations. As a result, we are evaluating if this former UST should be back registered with Alameda County as the property owner may wish to consider applying to the Underground Storage Tank Cleanup Fund program. Please let me know if there is any requirement we need to satisfy from the Alameda County standpoint.

As always, I will be happy to answer any questions regarding this proposed site closure. We appreciate your assistance in the past and look forward to discussing the closure effort with you. Please contact me at (209) 369-9421 or (209) 601-6694 should you have any questions. Thank you very much.

Sincerely,



Stephen G. Muir

Certified Engineering Geologist #1224

Expiration Date: 08/30/05



cc: Dick Jones, Agricultural Industrial, Inc.
Manfred Schropp

2473

Stephen G. Muir
Consulting Geologist
& Geophysicist

**FINAL PROBLEM ASSESSMENT REPORT AND
CLOSURE REQUEST DOCUMENT**

**GEOLOGY
AND
GEOPHYSICS**

**SCHROPP RANCH NO. 1 SITE
3880 MOUNTAIN HOUSE ROAD
BYRON, ALAMEDA COUNTY, CALIFORNIA
ACDEH Site # RO 2473**

**NATURAL
RESOURCES
ENVIRONMENTAL
GEOTECHNICAL**

Submitted to:
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
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Prepared for:
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November, 2004

Alameda County

APR 28 2003

Environmental Health

**FINAL PROBLEM ASSESSMENT REPORT
and CLOSURE REQUEST DOCUMENT**

**Schropp Ranch No. 1 Site
3880 Mountain House Road
Byron, Alameda County, California**

April, 2003

Submitted to

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Prepared for:

Agriculture Industries, Inc.
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1.0 LIMITATIONS AND PROFESSIONAL SIGNATURE

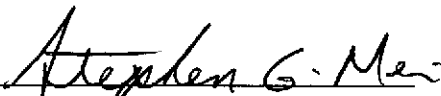
The work summarized in this report is for the sole use of Agriculture Industries, Inc., and their clients. Any reliance on this report or data contained therein by a third party is at such party's own sole risk. Others who seek to rely on the findings have a duty to determine the adequacy of the report for their intended use, time, and location.

Stephen G. Muir Consulting Geologist & Geophysicist makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others and used by Agriculture Industries, Inc. It is possible that information exists beyond the scope of this investigation. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or other hazardous substances or chemicals in the soil or groundwater.

This report is issued with the understanding that Agriculture Industries, Inc. is responsible for ensuring the information contained in this report is brought to the attention of the appropriate regulatory agency, if any. " Also, changes in Site use may have occurred sometime in the past or during the course of the investigation due to variations in rainfall, temperature, water usage, economic, agricultural, or other factors. Additional information that was not found or available to Stephen G. Muir Consulting Geologist & Geophysicist at the time of the preparation of this report may result in a modification of the conclusions presented. This report is not a legal opinion.

Stephen G. Muir Consulting Geologist & Geophysicist has strived to perform his services in a proper and professional manner with reasonable care and competence, but is not infallible. Stephen G. Muir Consulting Geologist & Geophysicist is unable to eliminate all risk or to provide insurance. Therefore, Stephen G. Muir Consulting Geologist & Geophysicist is unable to guarantee or warrant the results of the work. Stephen G. Muir's Consulting Geologist & Geophysicist professional services were performed consistent with generally-accepted environmental assessment principles and practices in California at the time the services were performed. This warranty is in lieu of all other warranties, either expressed or implied.

The work conducted in this investigation has been conducted by either myself or under my direct supervision.


Stephen G. Muir
Certified Engineering Geologist #1224
Expiration Date: 08/30/03



2.0 EXECUTIVE SUMMARY

WZI Inc. (WZI) and subsequently Stephen G. Muir Consulting Geologist and Geophysicist (Muir) conducted a site assessment of petroleum hydrocarbon contaminated soil and ground water of the Schropp Ranch No. 1 located at 3880 Mountain House Road, Byron, California from February, 1992 to March, 2004 as a result of leakage from a 550 gallon former gasoline underground fuel storage tank (UST). The tank had been installed and operated from 1960 to 1979 by the former property owner, Mr. Bob J. Wing as a residential tank until the property was sold to the current owners of the property, Werner and Irmgard Schropp, in 1979. This tank was used as a residential tank with the owner/operator, Mr. Wing occupying the residence. After the property was sold in 1979, the UST was no longer used on a regular basis and when used was used by the resident property lessor, Mr. Don Holck. Approximately 3 loads of gasoline fuel were placed in the UST between 1979 and 1986 by Mr. Don Holck. This fuel was used by the lessor as fuel of personal vehicles.

The UST was not used after 1986 when the underground storage tank laws went into effect. During the entire time the tank was in use, all agriculture equipment reportedly used by the tenant at the property burned diesel fuel, obtained from offsite sources. The UST was never registered with the California Underground Storage Tank Program or registered with the California State Board of Equalization. During the fall of 1991, the underground tank was removed by the property lessor, Mr. Don Holck without a permit. A significant volume of hydrocarbon stained soil was reported to be present beneath the UST by Mr. Holck to the property owners.

WZI was retained by Agriculture Industries, Inc., (AII) in 1992 to conduct a site assessment and recommend any necessary corrective action regarding the unpermitted tank removal. The former UST had been kept on site and an inspection of the UST indicated numerous holes in the bottom of the tank. The former UST was determined to be a 550 gallon tank without any identification numbers.

The initial WZI review of the property indicated a water supply well immediately adjacent to the former UST location to be contaminated by petroleum hydrocarbons from the former UST. The resident living at the house was interviewed and reported a "gasoline" like odor from the tap water. A water sample was collected from the water supply well and analyzed using United States Environmental Protection Agency (USEPA) Test Method 8015(modified) for total petroleum hydrocarbons as gasoline. Analytical results reported the water supply well contained 20 µg/l of total petroleum hydrocarbons as gasoline (TPH-g). It was determined that the residents using the water supply well had not used this water for domestic use in over five years. The residents had been using bottled water all along because of the poor quality and taste of the water from the well.

The initial WZI soil investigation was started in April, 1992 with two exploratory trenches placed immediately adjacent to the former UST location. These trenches allowed investigation of the subsurface to a depth of approximately 25 feet below ground surface in order to determine if significant soil hydrocarbon contamination had occurred. These trenches revealed that the soil immediately underneath and adjacent to the former underground tank location was contaminated with hydrocarbons. Maximum concentrations of constituents were reported as follows: total petroleum hydrocarbon as gasoline, 1,140 mg/kg; benzene, 22.8 mg/kg; toluene, 44.4 mg/kg; ethylbenzene 7.1 mg/kg; and xylene, 46 mg/kg. The physical aspects of the soil contamination and analytical laboratory evaluation of soil samples obtained indicated that the petroleum hydrocarbon contamination was exclusively gasoline in character around the former UST location.

A grab sample from the ground water underneath the tank at a depth of 27 feet below ground surface confirmed that the local ground water was contaminated with benzene and total petroleum hydrocarbon as gasoline at concentrations above established Maximum Contaminant Levels (MCL's). Maximum concentrations were reported as follow: TPH-g, 27,500 µg/l; benzene, 11,800 µg/l; toluene, 16,500 µg/l; ethylbenzene, 265 µg/l; and xylene, 725 µg/l.

Because the hydrocarbon contamination of soil and ground water on Schropp Ranch was above MCL's, Alameda County Department of Environmental Health (ACDEH) was notified and an Unauthorized Release Report of hydrocarbon fuel was made on April 24, 1992. ACDEH prepared an inspection report on April 22, 1994 that required the property owner to comply with a series of actions which included abandonment of the existing water supply well and the initiation of a soil and groundwater site assessment investigation. A subsequent workplan to conduct a soil and ground water site assessment for hydrocarbon contamination was submitted to and subsequently approved by ACDEH.

Prior to initiating additional excavation, WZI placed a series of hand auger borings and exploratory trenches in the main shop yard during July, 1992 to determine if any hydrocarbon soil was present on the property in the shallow subsurface to a depth of approximately 25 feet below ground surface. Soil samples obtained from these borings indicated a wide-spread extent of minor soil hydrocarbon contamination present in the shop yard. Information obtained from these borings assisted in the development of a final excavation plan.

The WZI investigation also included evaluation of the former domestic water well and its subsequent abandonment. WZI removed the pump and piping from the wellbore in October, 1992 in order to inspect the water supply wellbore. WZI conducted a televideo log of the water well in October, 1992 and determined that the upper 50 feet of the well had not been perforated. Ground water samples collected from this well bore were analyzed for benzene, toluene, ethylbenzene, and xylene by USEPA Test Method 602 in addition to total petroleum hydrocarbon as gasoline using USEPA Test Method 8015(m). Laboratory analytical results from these samples were reported to contain the following concentrations: TPH-g, 79,000 µg/l; benzene ^{7.05 µg/l} 7,050 µg/l; toluene, ^{2,830 ppb} 2,830 µg/l; ethylbenzene, ^{2,300 ppb} 2,300 µg/l; and xylene as ^{2,160 ppb} 2,160 µg/l. The domestic water well was then abandoned in accordance with the Alameda County Water District Zone 7 requirements and under permit.

A Sensitive Receptor Survey was conducted in October, 1992 by WZI to determine receptors that would be potentially impacted by the gasoline release at Schropp Ranch. Surface waters were found to be present approximately 1,500 feet north of the site as Mountain House Creek. A total of one water supply well off the Schropp property were found to be present within 2,000 feet.

The Mountain House School water supply was tested in November, 1992. Ground water samples collected from this well were analyzed for benzene, toluene, ethylbenzene, and xylene by USEPA Test Method 602 in addition to total petroleum hydrocarbon as gasoline using USEPA Test Method 8015(m). All water samples were reported to contain concentrations of analytes below analytical method detection limits.

Using the soil and groundwater information collected in 1992, WZI conducted a Remediation Feasibility Study that indicated overexcavation of contaminated soil was the only satisfactory way to remove the source from the groundwater and effect remediation of the site. The shallow groundwater depth and fine grained nature of the sediments makes other standard remediation methods such as soil vapor extraction (SVE), bioventing, and passive bioremediation to not be effective and hence, not warranted.

The WZI soil site assessment was continued in July, 1993 and completed by removal of all gasoline contaminated soil on the Schropp property by overexcavation. Approximately 19,000 cubic yards of low-level (50 to 100 mg/kg) gasoline hydrocarbon contaminated soil was removed from the subsurface to a depth of approximately 30 feet below ground surface during July to August, 1992. An annual fluctuation in the ground water level from 15 to 25 feet below ground surface resulting from agricultural irrigation operations allowed downward migrating gasoline contaminated ground water to contaminate soil as deep as 32 feet below ground surface.

The gasoline contaminated soil was found to extend from the former underground tank location northward through the shop yard beneath and along the Byron-Bethany Irrigation District water

supply line to the north and northeast of the property line. No work was conducted on the property adjacent and north of the Schropp property. All of the gasoline contaminated soil was removed from the subsurface and stockpiled except for a small volume of hydrocarbon contaminated soil which was left in place for engineering safety below and immediately adjacent to the farm house. An estimated 700 to 750 gallons of gasoline was contained within this hydrocarbon contaminated soil that was excavated from the subsurface.

Ground water that collected in the excavation was pumped through a carbon filtration system into a series of 20,000 gallon holding tanks. Clean backfill was then placed in the excavation until the former grade was attained. The filtered water from the excavation was sampled for hydrocarbon constituents and if necessary, refiltered until non-detection limits were attained. The filtered water was then discharged into a local alfalfa field on the property in accordance with a waste discharge permit obtained from the California Regional Water Quality Control Board.

Remediation of the gasoline contaminated from the UST excavation was accomplished by aeration in accordance with Bay Area Air Quality Management District (BAAQMD) guidelines at rates prescribed for total petroleum hydrocarbon concentrations at or below 50 mg/kg. The soil was also sampled for soluble lead from four samples which were reported as having concentrations below detection limits. Once remediated to non-detection levels and confirmed by analytical laboratory results of soil samples obtained from the remediated soil, the soil was used to help build up existing dirt roads on the Schropp property.

A series of five soil borings were drilled to between 31 and 36 feet bgs, sampled, and completed as 2" diameter ground water monitoring wells in September, 1993. Soil samples were collected at five foot intervals from the soil borings. Soil samples were analyzed using USEPA Test Method 8020 for BTEX and 8015(m) for TPH-g. All soil samples were reported to contain concentrations of analytes below analytical detection limits.

The five monitoring wells were completed to depths between 30 and 35 feet below ground surface and developed. The well casings were surveyed and tied into the U.S. Coast and Geodetic Survey elevation network by use of a local benchmark.

Quarterly groundwater monitoring of the wells was initiated during March, 1994. A total of five monitoring events were conducted between March, 1994 and April, 1996. Ground water samples collected from these wells were analyzed for benzene, toluene, ethylbenzene, and xylene by USEPA Test Method 602 in addition to total petroleum hydrocarbon as gasoline using USEPA Test Method 8015(m). All water samples were reported to contain concentrations of analytes below analytical method detection limits.

The ground water surface elevation measurements from the monitoring wells indicate a gradient that slopes gently to the northeast and approximately the same as the surface topography. Local ground water pumping on the adjacent property to the north by a domestic water well may be responsible for a small anomaly in the ground water surface that represents a cone of ground water surface depression.

A final monitoring of the five wells was conducted in March of 2002. Monitoring well MW-3 was found to be dry. Groundwater samples were collected from the other four monitoring well and the Mountain House School water supply well. Groundwater samples were submitted to Kiff Analytical LLC, Davis, California for analysis by USEPA Test Method 8260B for BTEX, TPH-G, 7 oxygenates, 1,2-DCA, and 1,2-EDB. All water samples were reported to contain concentrations of analytes below analytical method detection limits.

A review of regulatory agency records indicated that the Mountain House School had a former 1,000 gallon UST that was removed and the site subsequently closed.

The soil hydrocarbon contamination plume discovered in the soil in the northern portion of the main excavation, which had the appearance of unrefined crude oil, was identified to be present on the extreme north end of the property. Unlike the gasoline contaminated soil which clearly has migrated to the north and northeast, the lateral extent of this contaminated soil appears to have migrated southward from the Castello property located to the north. The volume of currently identified affected soil on the Schropp property was relatively small and is estimated to be about 10 cubic yards. This soil is located at a depth of 22 to 25 feet below ground surface and has encroached approximately 20 or 30 feet into the Schropp property. This soil was excavated and remediated with the gasoline contaminated soil.

The extent of this probable "crude oil" petroleum hydrocarbon soil contamination was not defined as this involved the adjoining property and permission was denied to enter the property by the owner. The source of this probable crude oil was identified as the Central Valley Pipeline (CVP) formerly owned and operated by Shell Oil Company that transported crude oil from Coalinga to Martinez. The CVP was abandoned in approximately 1970 after over fifty years of use. The pipeline was abandoned in place on the Schropp Property as permitted by the former owner, Mr. Wing.

The CVP crosses the Schropp property east of Mountain House Road. Because of the strong belief that the identified "crude oil" soil plume encountered the the main UST excavation in the shop yard emanated from the CVP and the lack of cooperation from Mr. Castello to continue the investigation onto his adjacent property, a series of trenches were placed along the former CVP easement in May, 1994 on Schropp property east of Mountain House Road. These trenches indicated the presence of a significant volume of "crude oil" contaminated soil along the former CVP easement. Shell Oil Company subsequently conducted a significant investigation and remediation of this "crude oil" contaminated soil and groundwater along the former CVP easement under regulatory oversight of the California Regional Water Quality Control Board (RWQCB). In August, 1999 the RWQCB issued a closure letter that indicated no further action was required by Shell Oil Company regarding the CVP "crude oil" release.

During January, 2002, Stephen G. Muir Consulting Geologist & Geophysicist was retained to answer remaining questions and submit a Final Problem Assessment Report (PAR) and a Closure Document for the site. All data was compiled from past investigations and placed into a comprehensive PAR.

A site closure is warranted because of the following: (1) The source of the gasoline contamination has been removed from the subsurface and remediated except for a few cubic yards of soil under the farm house; (2) The horizontal and vertical extent of the soil and groundwater contamination has been identified; (3) No petroleum hydrocarbon contaminated groundwater exists at the site as confirmed by recent sampling using U.S. Environmental Protection Agency Test Method 8260B for analysis of total petroleum hydrocarbon as gasoline, benzene, toluene, xylene, ethylbenzene, 7 oxygenates, and 1,2-EDB and 1,2-DCA. All analytical results were reported to be below analytical method detection limits. A workplan to abandon the monitoring wells is included with this PAR and Closure Report.

This office recommends no further work is necessary at the site and the site should be closed. We formally request that Alameda County Department of Environmental Health provide a Final Closure Letter for No Further Action for the gasoline contaminated soil for the Schropp property located at 3880 Mountain House Road. Upon receiving this letter the workplan to plug and abandon the five groundwater monitoring wells will be initiated.

3.0 INTRODUCTION

3.1 Background and Site Description

Schropp Ranch No.1 is located at 3880 Mountain House Road near the town of Byron, California within the extreme eastern portion of Alameda County (Exhibit 1). The property is currently owned by Werner R. and Irmgard S. Schropp and is registered with Alameda County Assessors office with a mailing address care of Agriculture Industries, Post Office Box 1076, West Sacramento, California, 95691. Agriculture Industries functions as the property manager of the parcel.

3.2 Site Description

The property consists of approximately 488 acres, almost all of which are involved in alfalfa farming (Exhibit 2). The property is composed of two parcels, Alameda Assessors Parcel Number (APN) 99B-7200-24 and 99B-7200-2-3 (Exhibit 3). Existing improvements on the property are mainly in the shop area of the property and include one residence with attached garage, two shop buildings, and a barn. In addition, a pole-barn is present on the property (Exhibit 4).

3.3 Environmental-Related Site History

According to the current and previous property owners, until 1991, a 550-gallon gasoline underground storage tank was located at the residence where the former owner/operator, Mr. Bob J. Wing used the tank as a residential fuel supply. A previous tank was located at this same location and was in service from an unknown time in the early 1950's until approximately 1970 when it was replaced, reportedly because it could not maintain fuel levels and was believed to be leaking. This information was provided to WZI by Mr. Don Holck in 1992. No documentation or records then or subsequent to then have been found regarding the date of origin of service or operational history for this tank. Mr. Wing was contacted in 1992 and confirmed that the tank was used only for residential use by himself. The tank was not used to fuel agricultural equipment at the farm. Mr. Wing could not remember the dates of operation of the tank.

According to Mr. Holck, a replacement tank was put into service in 1971 and operated until 1979 when Mr. Wing sold the property to the current owners in 1980.

The UST along with the rest of the property was purchased by the current property owner, the UST was no longer used on a regular basis. Approximately 3 loads of gasoline fuel (1,200 gallons) were placed in the UST between 1979 and 1986 by the resident property lessor, Mr. Don Holck. This fuel was used by the lessor as fuel for his personal vehicle. During this time (1980 to 1991) all agriculture equipment used at the property used operated exclusively on diesel fuel, obtained from offsite sources.

The UST was never registered with the California Underground Storage Tank Program and consequently never registered with the California State Board of Equalization. During the fall of 1991, the underground tank and associated piping was removed by the property lessor, Mr. Don Holck, and a significant volume of hydrocarbon stained soil was reported to the property owners by Mr. Holck to be present around the former tank location. Mr. Holck reportedly removed the tank without an Alameda County Department of Environmental Health Underground Storage Tank removal permit. The tank, piping, and surface dispenser were all stockpiled within the main yard area after removal. Mr. Holck reported to the property owner that a significant volume of petroleum hydrocarbon contaminated soil was present beneath the tank pit.

WZI Inc. (WZI) was retained by Agriculture Industries to conduct a site assessment and recommend any necessary corrective action regarding the hydrocarbon contaminated soil and ground water. A Preliminary Site Assessment investigation was conducted by WZI in 1992 to assist in determining the necessary background information on the property.

The former underground storage tank was found to still be present on the property and was examined in detail. Numerous holes in the bottom and sides of the tank were noted. An identification plate was found on the top of the tank with the number 680 stamped on it. The tank and associated piping and dispenser were placed within ranch property in a secure location

for future potential investigations.

Leakage from the former tank locations and surface spillage of fuel is considered to be the only source of gasoline contamination in the soil on the Schropp property. No other potential sources of gasoline were found. It is unclear if the first tank had contributed gasoline into the subsurface from leakage. No information was obtained regarding the location or configuration of the underground storage tanks' piping and surface dispenser. No information was available regarding the condition of any of the piping or either of the two tanks. Surface soil staining from gasoline was present immediately around the former dispenser location during a WZI inspection that occurred in April, 1992. The length of underground piping that connected the dispenser to the underground tank was not determined.

According to Mr. Don Holck, only gasoline fuel was stored in the two underground storage tanks. Mr. Holck did not recall who was responsible for maintaining the tank, fuel dispensing system, or where fuel was obtained during the period that Mr. Wing maintained the property.

Subsequent investigation by WZI indicated that soil and ground water hydrocarbon contamination were confirmed to be present on the Schropp property. A site assessment and remediation workplan for petroleum hydrocarbon contaminated soil and groundwater was submitted to Alameda County Department of Environmental Health for approval. The subsequent work and findings from this effort are outlined in this report. This report also functions as a closure report for the site.

4.0 ENVIRONMENTAL SETTING

This section of the Problem Assessment Report presents the environmental setting of the site and includes a description of the site topography, regional geology, and hydrogeology.

4.1 Site Topography

The property is located on the U. S. Geological Survey Clifton Court Forebay 1:24,000 scale topographic map (Exhibit 2), near the base of the foothills of the eastern flank of the Diablo Range on a gentle northeast-sloping surface which has been dissected by small northeast flowing streams. The elevations of the property range from approximately 160 feet above mean sea level in the southwest corner of the property to 80 feet above mean sea level in the northeast corner of the property.

4.2 Geology and Hydrogeology

The site is located near the base of the foothills of the eastern flank of the Diablo Range on a gentle southeast sloping surface which has been dissected by a series of northeast-flowing streams. The regional geology of the site and surrounding vicinity is shown on Exhibit 5. Regional geologic mapping conducted by Reiche (1950), Clark (1955), Atwater (1982), and Page (1986) indicates that the project site is underlain by the Great Valley Sequence, consisting of sedimentary rocks of Late Jurassic to Cretaceous age (140 to 65 million years old). These older sediments are overlain by Tertiary to Holocene (less than 65 million years old) non-marine sediments. The thickness of the Tertiary and younger deposits is approximately 4,000 thick (Bartow, 1985).

Site Geology

The Schropp Ranch No. 1 site is situated in the northwestern section of San Joaquin Valley and is underlain by clay, silts, sands, and gravel's of Recent, Pleistocene, and Pliocene Age (Hotchkiss and Balding, 1971). The shallow deposits of the site consists of alluvial deposits, comprised of silts and clays with occasional lenses of sand and gravel. These shallow deposits

are underlain by the upper portion of the Tulare Formation. The Tulare Formation consists of alluvial clays, silts, sands and gravel to a depth of approximately 1,000 feet (Hotchkiss and Balding, 1971). Within the Tulare Formation, a laterally extensive clay layer, known as the Corcoran Clay Member, is present at approximately 100 feet below ground surface. The Tulare Formation is underlain by sedimentary and crystalline rocks of Tertiary and pre- Tertiary age.

Site geology is depicted on Exhibit 5. The Schropp Ranch No. 1 is underlain by Pleistocene to Recent (less than two million years old) non-marine sediments. The majority of these sediments were deposited by streams as alluvial deposits draining the uplands are west of the project site (Atwater, 1982; Page, 1986).

Regional Hydrogeologic Setting

The northwestern San Joaquin Valley is bounded to the east by the Sierra Nevada Range and to the west by the Diablo Range. The Diablo Range forms a rain shadow and average annual precipitation decreases markedly east of the rest of the mountains. The majority of the annual precipitation falls as rain during the winter rainy season from November through April. The mean annual precipitation at the project site is between 10 and 12 inches per year (Rantz, 1971). The depth of precipitation at the project site during a 100-year frequency, 24-hour duration storm event is estimated to be approximately three inches (Rantz, 1971).

Surface Water

The project site is located on a gentle, northeastward sloping alluvial surface at the base of the eastern flank of the Altamont Hills. The Altamont Hills are a foothill region within a group of northwest-trending low mountain ranges, which are collectively referred to as the Diablo Range. The Altamont Hills rise to a drainage divide located approximately six miles west of the project site. Streams draining the western side of the divide flow westward toward the Livermore and Las Positas valleys. The eastern flank is drained by northeastward flowing streams that discharge to the San Joaquin River system.

The San Joaquin River joins the Mokelumne, Calaveras, and Sacramento rivers to form the Sacramento-San Joaquin Delta (Delta), which discharges to San Francisco Bay. The Delta covers an area of over 700,000 acres and contains over 700 miles of interconnected channels and canals, many of which are controlled by a system of flood protection levees. The Delta is one of the largest protected waterways in the western United States and one of the most valuable freshwater resources in California.

Export of water from the Delta to other areas of California has been occurring since the completion of the Contra Costa Canal in 1940. The two major water export projects, the Central Valley Project and the State Water Project, control operations of the Delta-Mendota Canal and the California Aqueduct. The California aqueduct drains water from the Clifton Court Forebay facility in the southwest portion of the Delta. The Delta-Mendota Canal receives water pumped from intakes located north of the Schropp Ranch No. 1

Groundwater

In the area of the project site, the most important water-bearing stratum ("aquifer") is the Tulare Formation. The Tulare Formation consists of interbedded Pleistocene (less than two million years old) gravel, sand, silt, and clay (Bartow, 1985). The coarser-grained deposits are the most significant source of groundwater supply in the Tracy area of western San Joaquin County. The aquifer yield to wells in this area is typically greater than 1,000 gallons per minute (Page, 1986).

A prominent clay layer, the Corcoran Clay Member, separates an upper and lower water-bearing strata within the Tulare Formation. This clay layer, which is also called the "modified E clay", is encountered at a depth of approximately 200 feet and is about 80 feet thick in the area of the site (Page, 1986). Groundwater flow in the lower Tulare Formation is directed to the north-northwest (California Department of Water Resources, 1967), possibly influenced by recharge in the Sierra Nevada. The upper water-bearing zone is recharged by surface water infiltration in the foothills of the Diablo Range and groundwater flow is generally toward the north-northeast in the Tracy area (California Department of Water Resources, 1967; San Joaquin County Flood Control and Water Conservation District, 1999).

The depth to significant water-bearing zones, the direction of groundwater flow, and the potential aquifer yields in the area of the Schropp No. 1 Ranch are not well known. Available subsurface information suggests that the hydrogeologic conditions are complex in this areas (Iwonima, 1991).

Water for irrigation is supplied by surface water sources rather than wells (Kaufman, 1991). The surface water for the Schropp No 1 Ranch is provided by the Byron Bethany Irrigation District (BBID). Water supply for farms within the vicinity of the site is provided by domestic wells. The wells probably draw water from the Tulare Formation as well as from overlying alluvial deposits.

Groundwater has been encountered at shallow depths (15 feet below ground surface at the site) . The shallow groundwater is drained from the agricultural fields by farm drains to lower the groundwater level.

The quality of the groundwater resources in the area of the project site is at best, marginal. Water from wells in the area typically have relatively high total dissolved solids (TDS) concentrations (Miller, 1991). The high TDS is possibly related to salt water intrusion from the Delta or saline formation water. Relatively high concentrations of nitrates and sulfides have also been reported from wells in the area (Kaufman, 1991). High nitrate concentrations may be caused by livestock management at dairies or releases from household septic systems.

4.3 Aerial Photograph Review

Aerial photographs were obtained from Geonex Cartwright, Inc., Sacramento, California. These photographs were obtained in black-white imagery at scale 1" = 100'. The dates reviewed included: October 31, 1963; November 11, 1975; and August 25, 1987.

Aerial photographs from October 31, 1963; November 11, 1975, and August 25, 1987 were used to identify past land uses of the property (Appendix 2). The photographs reveal the property to be cultivated row-crop agriculture land with a house and shop area. The shop area appears to have multiple agriculture-related tank trailers in the yard. The photographs reveal little change in the yard area through time with the exception that between 1963 and 1975 a pole barn was erected on the property. In addition, the 1975 photograph indicates many vehicles and associated equipment stored in the yard compared with the 1963 and 1987 photographs.

The property is bounded on the north, east, and south sides by agricultural property. The west side of the property is bounded by the Delta Mendota Canal, a regional water supply project. The Mountain House School, a small elementary school, is present approximately 300 feet east of the main shop area. This school is occupied by children 6 to 11 years of age from late September to early June.

Surrounding buildings on adjacent properties can be seen on Exhibit 2. This area of eastern Alameda County is comprised of agriculture operations and is very scarcely inhabited.

4.4 Regulatory Agency Compliance (Permits and Registration)

Alameda County Department of Environmental Health

Mr. Brian Olivia, Hazardous Material Inspector (510/271-4320) , was contacted concerning underground storage tanks. Mr. Olivia stated that his department has no record of any underground tanks or environmental problems on the site. Alameda County Department of Environmental Health has no record of any facilities with leaking underground storage tanks within one mile of the site.

Mr. Paul Smith (510/271-4320) was contacted on May 28, 1992. Mr. Smith stated that his department has no available computer Proposition 65 list.

Mr. Ronald Owcarz was contacted on May 29, 1992. Mr. Owcarz stated that there is no Hazardous Materials Business Plan on file for 3880 Mountain House Road. Mr. Owcarz also stated that in order to perform a registered underground storage tank search specific addresses would have to be supplied.

County of Alameda -Water Resources Department

Ms. Andreas Godfrey (510/370-5575) of the Federal Emergency Management Agency, Hayward, California office was contacted regarding flood potential of the property. Flood plain maps prepared under the National Flood Insurance Program covering the subject area were reviewed. The subject area is located on panel 060 001 0145A and lies completely within an area designated as Zone C.

Comprehensive Environmental Response Compensation and Liability Act

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) lists sites which the federal government has designated as being extremely contaminated and hazardous. The subject property is not listed and no sites within a one mile radius are listed.

Hazardous Waste and Substances Site List

The data for this list was received from the State Water Resources Control Board, the California Waste Management Board and the State Department of Health Services. The subject property is not listed and no sites within a one mile radius are listed.

Bond Expenditure Plan

The Bond Expenditure Plan (BEP) lists sites targeted by the California Department of Health Services to receive funds for cleanup. Neither the subject property nor any site within a one mile radius are included on this list.

National Priorities List

The National Priorities List (NPL) , compiled by the U. S. Environmental Protection Agency (USEPA) lists hazardous waste sites nationwide which have been identified for cleanup under the federal Superfund program. Only NPL sites can receive CERCLA funding. Neither the subject property nor any site within a one mile radius are included on this list.

Solid Waste Assessment Test Program

This list was adopted by the State Water Resources Control Board in June, 1989. It is a ranked list of solid waste disposal sites. No active or inactive landfills within one mile of the subject property are listed.

Proposition 65

This list was compiled pursuant to the Safe Drinking Water and Toxic Enforcement Act of 1986. It includes incidents, such as spills and leaking underground tanks, which involve hazardous materials. This list was not reviewed for this investigation.

Sanborn Fire Insurance Maps

Environmental Risk Information and Imaging Services (800/989-0402) was contacted regarding past fire insurance maps. None were available for the subject property .

Pacific Gas and Electric Company

Ms. Cathy Doo (209/836-0440) was contacted on May 29, 1992 regarding any distribution transformers on the subject property. Ms. Doo stated that the site has at least two transformers and possibly more since she does not know the exact property boundaries. One of the transformers which serves the farmhouse, shop and a pump is currently being removed. The manufacture and sale of polychlorinated biphenyl (PCB) was banned in 1976. All electrical equipment containing 50 parts per million (ppm) or more PCB is regulated by the USEPA. The distribution of transformers now used in PG&E's electrical system contain mineral oil insulating fluid. Distribution transformers which may contain only minute concentrations of PCB will usually not be removed unless they are due for replacement through normal utility operations. Since the insulating fluid is contained inside of a sealed transformer it poses very little health risk to the public and the EPA has chosen not to require their removal from service. If a customer desires a laboratory analysis of the insulating fluid to determine if it is contaminated with PCB, PG&E will do this at the customer's expense which amounts to \$300 per transformer. If the results show a PCB concentration of 50 ppm or more, the transformer for the insulating fluid will be replaced and the cost of the test refunded.

5.0 SITE CHARACTERIZATION INVESTIGATION

5.1 Potential Sources and Migration Pathways

Potential sources of petroleum hydrocarbons in the soil and groundwater at the Schropp Ranch No. 1 Ranch include the former UST, its piping and dispenser. WZI conducted a geophysical survey during March, 1992 which included a ground conductivity and electrical line location survey to identify all old and active and inactive underground utilities and their associated entrance and exit points on-site. The utility survey was conducted to: (1) minimize the potential for cutting utilities while conducting drilling and excavation operations and; (2) evaluate the utilities as potential transport mechanisms for hydrocarbons.

The result of the geophysical survey indicated the presence of the Byron-Bethany Irrigation District concrete irrigation line that traverses the shop yard area in a north south direction. This pipeline is a 36 inch diameter concrete pipeline that is located at a depth of about 6 feet below ground surface (Exhibit 4).

No other utilities were located that indicated a potential pathway for migration of petroleum hydrocarbons in the soil and groundwater to be present.

5.2 Soil Investigation

Preliminary Reconnaissance

A preliminary reconnaissance investigation of the former underground storage tank area was conducted using an FMC 3400 excavator during April, 1992. This allowed direct access to investigate the hydrocarbon contaminated soil to a depth of approximately 28 feet below ground surface. Two exploratory trenches were placed near the former underground storage tank in an attempt to identify the vertical and lateral extent of hydrocarbon contaminated soil related to the tank (Exhibit 6). Hydrocarbon contaminated soil was found to be present from approximately six feet below ground surface and immediately below the former tank location to a total of approximately 25 feet below ground surface. The soil encountered in the excavation was comprised of dark brown clayey silt and silty, fine-grained sand that was moderately dense (Appendix 6). All of the soil from a depth of approximately 12 feet below ground surface was moist and the ground water table was located at approximately 16 feet below ground surface.

Soil samples obtained from the sidewalls of the two trenches were transported under chain of custody to and analyzed by Sherwood Laboratory, Hilmar, California. This laboratory is a California State Certified Analytical Laboratory. These samples were collected using sampling protocol outlined in Appendix 5. The samples were analyzed using U.S. Environmental Protection Agency (USEPA) Test Methods 418.1, 8015 (modified), and 8020, as appropriate. In addition, water samples were analyzed using USEPA Test Methods 8020 and 8015(modified). The soil samples were reported to contain 22.8 mg/kg of benzene and 1,050 mg/kg of total petroleum hydrocarbon as gasoline from a depth of 19.5 feet below ground surface (Exhibit 6). Copies of the analytical reports of these samples are contained in Appendix 7.

This preliminary investigation indicated that the petroleum hydrocarbon contamination was likely gasoline and almost certainly related to the former tank locations. A Preliminary Problem Assessment Report and Site Assessment Workplan was prepared and submitted by WZI to Alameda County Department of Environmental Health (WZI, 1992). The workplan was

prepared in accordance with the published guidelines for investigations established by the Tri-Regional California Regional Water Quality Control Board (CRWQCB, 1991) and the Leaking Underground Fuel Tank (LUFT) manual established by the California State Water Resources Control Board (1989).

This workplan identified that excavation of hydrocarbon contaminated soil was the most likely way both to determine the vertical and lateral extent of hydrocarbon contaminated soil and to remediate the contaminated soil. This was based on the observation that the shallow ground water table most likely limited the vertical migration of the hydrocarbon constituents to within 25 feet of the surface and that all other remediation efforts such as soil vapor extraction would not likely be effective in the impermeable clayey silt and fine grained sand present beneath the property.

After submission of the Preliminary Problem Assessment Report, WZI conducted a final reconnaissance of the shallow subsurface in the equipment yard with hand auger borings. These borings were drilled during July, 1992. Exhibit 6 depicts the locations of these auger borings and the analytical results are tabulated in Table 1 and analytical laboratory results are presented in Appendix 7. The results of this limited drilling indicated the presence of a significant volume of hydrocarbon contaminated soil that was restricted to the main portion of the yard area at shallow depths to a maximum of 15 feet below ground surface. Based on the hand auger data, a final excavation plan was developed for the shop yard

Site Preparation

Water well 2S/3E - 6F1 located on the property was plugged and abandoned because of its location within the contaminated soil. The well casing was composed of 10" diameter steel casing. The upper 50 feet of the wellbore was determined to have been grouted with a cement seal, based on physical inspection of the wellbore during the excavation and a televideo inspection.

Prior to plugging and abandonment, a downhole televideo survey of the wellbore was made to attempt to determine the total depth, condition of the casing, and completion intervals in the well. The well survey was conducted using a LaVelle Televideo system that allowed the wellbore to be inspected by a 2" diameter wide-screen camera lens system.

The water well was determined to have a total depth of approximately 140 feet. The completion intervals appeared to extend from approximately 50 feet below ground surface to total depth and consisted of a series of ½ inch holes cut into the casing on a regular basis. No attempt appeared to have been made to seal off any particular aquifer or water producing zones within the wellbore.

The well casing was cut at a depth of 30 feet below ground surface and backfilled with a concrete slurry mix. This mix was pumped down the wellbore to a total depth of 110 feet. All work conducted was accomplished under a permit for water well abandonment issued by Zone 7 Water Agency.

Remediation Stockpile Pad Preparation

A soil remediation pad was prepared on the property southwest of the UST location. The stockpile had a subbase prepared that included leveling the area and placement of continuous 0.10 mil thick visqueen sheets. Approximately 6 inches of clean fill was placed over the visqueen sheets to allow wheeled equipment to traverse the remediation pads without breaking the sheets. A stormwater runoff berm 12 inches high was placed around the base of the stockpile.

Overexcavation of Petroleum Hydrocarbon Contaminated Soil

Excavation Operations

Excavation of hydrocarbon contaminated soil started during July, 1992 and was completed during May, 1993. D&S Dragline Services, Los Banos, California was the contractor of record and conducted all phases of the excavation, backfill, contaminated soil remediation, and subsequent ground water monitoring well completion. A health and safety plan was prepared for the site and is presented as part of Appendix 4. All applicable OSHA health and safety procedures for employees conducting hazardous waste investigations were followed. The health and safety environment that OSHA describes as Level D was never exceeded at the site.

Prior to initiating the excavation, the Byron-Bethany Irrigation District concrete irrigation line was removed (Exhibit 4). During the excavation, all work was conducted under the oversight of a California Certified Engineering Geologist. Sample locations and direction of excavation control were controlled by the engineering geologist. All sidewalls and cuts were kept in accordance with OSHA requirements for excavations and confined space entry.

Exhibit 6 is a map which depicts the final excavation limits on the property. A total of 24,863 cubic yards of contaminated and clean soil was excavated in order to remove all accessible hydrocarbon contaminated soil and to stabilize the walls of the excavation. Identification of hydrocarbon contaminated soil was made using a photo ionization device (PID), color, and odor as described in the WZI workplan (WZI, 1992).

Hydrocarbon contaminated soil was excavated and stockpiled on the Schropp property. All excavated hydrocarbon contaminated soil was placed on visqueen and covered with plastic to prevent any uncontrolled aeration. Excavation continued both laterally and vertically at the direction of the engineering geologist until all gasoline contaminated soil was removed. Confirmation sampling was conducted to verify that all gasoline contamination had been removed.

The excavation was inspected by Alameda County Department of Environmental Management on several occasions. The results of all confirmation soil samples obtained from the sidewalls and floor of the excavation are presented in Table 1. All of the soil samples, with the exception of those samples obtained immediately adjacent from the north property boundary line, were reported as below detection limits for all hydrocarbon constituents.

A minor volume of gasoline contaminated soil was left below the farm house and immediately adjacent to it for engineering safety. The westward extent of the hydrocarbon contaminated soil beneath the house was bracketed by a series of exploration trenches where uncontaminated soil was found to be present (Exhibit 6). The volume of hydrocarbon contaminated soil left in place is estimated to be approximately 100 cubic yards and is believed to be immediately below and on the east side of the farm house (Exhibit 6).

Excavation Backfill

Alameda County Department of Environmental Health granted permission to backfill the excavation using the clean overburden soil removed during the initial excavation and fill soil transported from the west edge of the property. This material was placed in the excavation and compacted using a Caterpillar D-6 bulldozer. The fill was compacted using clean water to bring up the field moisture content of the soil into the range of optimum moisture content and then rolled with heavy equipment. No certification of the field compaction was made by WZI.

5.3 Groundwater Investigation

Groundwater Removal From Excavation

Water samples obtained from the excavation floor and analyzed for hydrocarbon constituents indicated the ground water within and underlying the gasoline contaminated soil contained benzene, toluene, ethylbenzene, and xylene that exceeded action levels set by the California Regional Water Quality Control Board-Central Valley Region (RWQCB). Samples from this ground water were analyzed using EPA test methods 601, 602, 8010, and 8015 (modified). Analytical results of this sampling are presented in Appendix 8.

A waste discharge permit was issued by the California Regional Water Quality Control Board-Central Valley Region (Order Number 91-25005) to filter and discharge water treated below detection limits for hydrocarbons onto the Schropp property. A copy of the application and the approved request is contained in Appendix 10.

A series of 20,000 gallon storage tanks were utilized to store hydrocarbon contaminated ground water pumped from the excavation prior to backfilling. Water was then remediated in accordance with a water discharge permit obtained from the RWQCB prior to discharge onto the adjacent alfalfa fields.

Granular activated carbon filtration was used to absorb contamination in the ground water. The treatment system was designed to reduce benzene and other gasoline related component levels in ground water to less than 0.1 μ l. This was accomplished in four steps which include pumping water from the excavation, removing suspended sediment, treating the water with a carbon filtration system, and storing the filtered water in a holding tank for testing until contaminant levels are less than 0.1 μ l.

Samples of water obtained from the holding tank were analyzed for benzene and TPH-G using EPA Test Methods 602 and 8015 (modified). These results are included in Appendix 8 and

tabulated in Table 2. Treated water which was below the discharge concentration limit was discharged onto dirt roads and the adjacent alfalfa field on the Schropp property in accordance with the waste discharge permit.

Monitoring Well Installation and Development

The groundwater investigation began with preparation of a groundwater sampling protocol (Appendix 5) and groundwater monitoring well installation protocol (WZI, 1992). A modified California split spoon sampler that cut an 18 inch long sample was used with a slide hammer to collect undisturbed samples. Samples were recovered in 6-inch long, 2-inch diameter brass liners. Following recovery, the liners were sealed with teflon sheets, plastic end caps, and tape. Sampling equipment was cleaned with Alquinox and rinsed with distilled water between sample recoveries. The samples were then labeled and preserved in a cooled ice chest. Pertinent data was recorded on both the sampling log and chain of custody document.

Drilling was conducted under the direction of a California certified engineering geologist who logged the borings in accordance with the Unified Soil Classification System (Appendix 6). Soil samples were screened in the field using a photoionization detector (PID) in order to provide a field determination of the presence of volatile organic compounds. Logs of the soil borings and subsequent monitoring wells are presented in Appendix 6.

Completion of the monitoring well consisted of a 2-inch diameter PVC casing with flush joints, installed down through the hollow stem augers. The wells were constructed with 5 feet of 2-inch diameter solid PVC casing to a depth of 5 feet below ground surface. A screened zone from 10 to 20 feet below ground surface was set with 2-inch diameter schedule 40 PVC casing. Screen size was 0.010 inch. The bottom of each well was completed with a cap.

Filter pack material consisting of Monterey #212 sand was placed between the screened PVC casing and the formation as the flite augers were removed. A 12 inch thick bentonite seal grout was placed around the casing and the formation from a depth of 4 to 5 feet below ground surface.

A metal traffic box that protected the wellhead was set to a depth of 1.5 feet below ground surface. A locking well cap was placed on the wellbore that secures the top of the wellbore. A tabulation of monitoring well construction details for each well is presented in Appendix 6 and tabulated in Table 3.

The monitoring wells were developed in order to remove disturbed water that results from the drilling and well construction. The result of the development is to increase the filtration capability of the filter pack which will increase the groundwater yield and reduce total suspended solids. Development was accomplished with a surge block and by bailing approximately 10 well volumes from each wellbore. Water was bailed from the well until mostly clean, clear water was recovered. After development, the well retained a slight brownish discoloration due to suspended fine grained material. The well was developed using the finest screen possible (0.010 inches) and a fine sand filter (Monterey #212) but this was unable to filter all solids from entering the wellbore during development. Approximately 10 to 15 gallons of water were removed from each of the wellbores. All development water was placed in a 55-gallon drum which was labeled as rinsate. These drums were utilized as onsite makeup water for the bioremediation pile.

After development, a clear, acrylic bailer was used to visually inspect the water column for a free product layer or sheen. No petroleum product layer or sheen was observed to be present.

Monitoring Well Sampling Program

Monitoring wells were sampled in accordance with the groundwater sampling protocol presented in Appendix 5. Initially, a clear, acrylic bailer was used to visually inspect an undisturbed sample from the top of the water column to determine if a product layer or sheen was present. No product layer or sheen was visible in the bailers used for each well. The static water level was then measured with an electronic water level indicator that allowed measurement of depth to approximately 0.01 foot. The water level below casing for each of the wells were

recorded in the attached table and the groundwater surface elevation calculated in feet, mean sea level.

A minimum of three to five well casing volumes were extracted from each monitoring well using a teflon bailer. This allowed a representative groundwater sample to flow from the area surrounding the wellbore into the wellbore. Field parameters (pH, temperature, and electrical conductivity (Ec) were measured and recorded during the water purged from each monitoring wells. Purged water was placed into 55-gallon drums, labeled, and transported to the remediation pad locations for use in the bioremediation pile.

Groundwater samples were collected using the teflon bailer and placed into 40 ml VOA and 1 liter amber bottles and labeled. The water samples were handled and transported under accepted chain of custody procedures outlined in the workplan to Sherwood Labs, Hilmar, California. Each of the wells were then secured.

All sampling equipment was decontaminated by Alquinox and followup distilled water rinse. Rinse water from decontamination of drill rig equipment was placed in 55 gallon drums, labeled and transported to the remediation pad for use in bioremediation of the hydrocarbon contaminated soil.

Monitoring Well Location Survey and Development

WZI Inc. had the five monitoring well casing locations and elevations surveyed using a Pentax PX-06D theodolite and electronic distance measurement instrument immediately after completion of each well. Elevations were tied to the U.S. Geological Survey mark 87 located at the Mountain House School (Exhibit 2). The top of casing elevation and top of traffic box elevation at each well was surveyed.

Groundwater Gradient

The five monitoring wells all suggest a somewhat distorted gentle slope of the groundwater surface to the northeast at a gradient of approximately 0.002 or approximately 10 feet per mile. A total of 6 monitoring events have been made since the wells were installed. The QMR's have all indicated a groundwater surface gradient to the northeast.

6.0 DATA ANALYSIS

6.1 Nature and Extent of Hydrocarbon Impact in Site Soils

The results of the gasoline plume delineation from the soil assessment are summarized in Exhibits 6 to 9. Exhibit 6 is annotated with the soil sampling and various site assessment activity locations. The cross-sections are presented in Exhibits 7, 8, and 9. The results of the soil site assessment are as follow:

- The base of the excavation has been presented in Exhibit 6. The excavation was elongate in the north-south direction and most of the excavation is about 32 feet deep. The south end of the excavation, in the vicinity of the former water supply well, was excavated to 35 feet below ground surface.
- The cross-sectional views (Exhibits 7, 8, and 9) of the gasoline plume indicate, with the exception of a second type of petroliferous contamination at the northern limit, a simple elongate plume with benzene and gasoline contamination levels decreasing rapidly outward from the former underground tank location. The gasoline-contaminated soil appears to have been drawn toward the former water well around the casing. This could have been caused by a local cone of ground water surface depression during well pumping operations.
- Approximately 19,000 cubic yards of hydrocarbon contaminated soil was excavated from the subsurface at Schropp Ranch. The average concentration of gasoline for the contaminated soil was estimated to be approximately 75 mg/kg. A weight of approximately 1.5 tons per cubic yard was utilized to determine the total of number of tons of excavated hydrocarbon contaminated soil. An estimate of approximately 700 to 750 gallons of gasoline was contained within the contaminated soil. The time of release and rate of release from the fuel point cannot be determined. It is possible that the release could have occurred over a fairly short period of time (1 to 5 years). However, based on the pervasive low level concentrations of total petroleum hydrocarbon as gasoline, low benzene to total petroleum hydrocarbons as gasoline

ratio in the soil samples, and general degraded appearance within the hydrocarbon contaminated soil, it is very likely that the leak occurred over a long period (20 years or more).

- Analytical results from soil samples obtained from hydrocarbon contaminated soil suggest that only gasoline is involved immediately adjacent to the former fuel point.
- The volume of gasoline contaminated soil located beyond the north property line is undetermined at this time. Transport of the gasoline in the subsurface appears to have followed the Byron-Bethany Irrigation District concrete irrigation pipe. This pipe could have provided water into the local subsurface during irrigation operations immediately under it from leaks. This water would have provided additional ground water recharge immediately underneath the gasoline contaminated plume and assisted it with migration to the north, along with other ground water.
- The gasoline contaminated soil had a unique color, petroleum odor, and was readily identified by field instruments that can screen for volatile organic compounds. A second type of hydrocarbon contaminated soil was discovered at a depth of 22 to 25 feet below ground surface on the extreme north end of the excavation. This hydrocarbon contaminated soil type had field characteristics that were significantly different from the gasoline contaminated soil. This soil appeared to be a gray/green color, little or no volatile organic vapor emission, and appeared to be "greasy". This soil also had a slight diesel-type petroliferous odor . This soil was sampled for gasoline, diesel, and benzene, toluene, ethylbenzene, and xylene. All analyses for these common constituents for refined petroleum products were reported as below detection limits as depicted on Exhibit 6. The owner of the property located immediately north of the excavation, Mr. Anthony Castello, was advised of the investigation and declined to give WZI permission to enter his property to complete the assessment. This soil appears to be present only in the northern portion of the excavation at a depth of approximately 22 to 25 feet below ground surface. This soil contamination appears to discontinue southward approximately 20 feet south of the property line (Exhibit 6).

- Because all refined hydrocarbon constituents were removed from the subsurface of the Schropp property, the excavation was backfilled and graded to the former grade. The Byron-Bethany Irrigation District pipeline was also reestablished on its former easement.
- Petroleum hydrocarbon concentrations in soil are highest within the smear zone at the groundwater/vadose zone interface approximately 15 to 18 feet bgs. Therefore, it appears that groundwater is the transport mechanism for hydrocarbon impacts to soil.

6.2 Nature and Extent of Hydrocarbon Impact in Site Groundwaters

The groundwater gradient at the Schropp Ranch site has a gradient and flow direction to the northeast. It appears that chemical dispersion may have been the transport mechanism for dissolved phase petroleum hydrocarbons in groundwater.

Based on water level data collected since 1994, the groundwater level in the monitor wells has ranged from 12 to 14 feet bgs and has flow directions to the north and northeast. The gradient has been ranged from 1 to 3 feet per mile. The flat gradient and variable groundwater flow directions in the shallow aquifer suggest that the migration of hydrocarbon-impacted groundwater is likely minimal.

The results of the ground water phase of the site assessment investigation are as follows:

- Monitoring wells MW-1 to MW-5 have been sampled and have been reported as below detection levels for Total Petroleum Hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and xylene for two successive quarterly monitoring rounds during 1994.
- The ground water gradient has been established as a northeasterly direction of flow which is compatible with the regional gradient. The locations of the ground water monitoring wells MW-1 to MW-5 were selected to intercept any hydrocarbon contaminated ground water in the main yard area. The wells were located both within and outside the former excavation perimeter. The wells were placed to determine shallow slope ground water gradient direction and were found to be located both up and downgradient from the former hydrocarbon contaminated soil plume. These wells would have discovered any significant volume of hydrocarbon contaminated ground water that was present beneath the Schropp Ranch resulting from the gasoline contaminated soil.

- Removal of the hydrocarbon contaminated soil from the subsurface of Schropp Ranch by excavation and subsequent pumping of the ground water from the floor of the excavation prior to backfill removed both the contaminating source and local hydrocarbon contaminated ground water on the Schropp property .As a result, no hydrocarbon contaminated ground water appears to be present beneath the Schropp property.
- The Mountain House School water well has not been contaminated by any hydrocarbon constituents in the ground water. It should be noted that the school district has only used this water for irrigation of the school yard. All students have been placed on bottled water due to mineral content of the local ground water for over ten years according to the principal of the school.

6.3 Discussion of Nearby Contaminated Sites

A review of the regulatory agency files that contain descriptions of activities completed at nearby petroleum hydrocarbon soil and/or groundwater contaminated sites that are currently in the local oversight program with ACEHD was made (Appendix 3). In addition, a review of petroleum hydrocarbon sites are under oversight from the California Regional Water Quality Control Board- Central Valley Region were also made.

The files were reviewed to evaluate the direction and gradient of groundwater movement near the Site. Historical data from these sites indicates that the groundwater gradient is relatively flat and the direction of flow has ranged from north to northeast.

The closest and only site which has had a demonstrated impact on the Schropp Ranch property was the Shell Oil Company pipeline investigation that occurred on the eastern portion of the Schropp Ranch property (Exhibit 11). A summary of this site investigation history, local hydrogeology, site assessment and remediation, and case closure request are reviewed below.

Schropp Ranch East Site- Project History

The Schropp Ranch -East Site became an environmental concern in 1995 after the discovery of probable crude-oil in the northern portion of the Schropp Ranch UST excavation during 1993-1994. The fact that dark green, aged, probable crude oil was discovered at a depth below the groundwater table in the main excavation was best explained by a possible break in the former Shell Oil Company Central Valley Pipeline system located on the property adjacent to the excavation. Because the property owner, Mr. Anthony Castello had refused entry onto his property, WZI directed its attention to another portion of the Schropp Ranch property, east of Mountain House Road where the former Shell Pipeline was located. During February, 1995, WZI conducted exploratory reconnaissance soil borings on the Schropp Property east of Mountain House Road and encountered petroleum hydrocarbon contaminated soil within the former Shell pipeline easement. After contact with Shell Oil Company was made a series of site assessment and remediation operations were conducted.

The site of the release is an agricultural field, currently owned by Werner R. and Irmgard S. Schropp and managed by Agriculture Industries, Inc, (AII) and referred to as the Schropp Ranch -East Property or the "site", located immediately east of Mountain House Road in Byron, California (Exhibit 11). The Schropp Farms -West Property and Mountain House School are located on the west side of Mountain House Road and are referred to as "adjacent properties." The Schropp Farms -West Property is also owned by the Schropps and managed by AII.

1. Site Operations. The site has presumably never been developed, except for the Central Valley Pipeline (CVP) installation and as agricultural land. Recently, alfalfa has been the site's primary crop

(WZI, 1994). The former CVP, which consisted of one 8-inch and one 10-inch diameter underground pipeline, was installed in the early 19005. Short segments of the 8-inch line were coupled with 12-inch diameter pipe. The CVP ran from the southeast to the northwest beneath the site and transmitted crude oil from oil fields near Coalinga, California to Shell's refinery in Martinez, California. The CVP reportedly never transmitted refined product and was

decommissioned in 1968. After decommissioning, the CVP was washed and abandoned in place in the site vicinity. In the early 1970's, Shell "quitclaimed" the CVP to Wing Ranch, the site owner at the time. Thus, the site owner elected to leave the abandoned pipeline in place. In 1979, Wing Ranch sold the site to the Schropps.

2. Storage Tanks. To the best of Brown and Caldwell's knowledge, no storage tanks have existed on the site. Information regarding underground tanks at the Schropp Ranch -West Site Property was evaluated and determined to not have an impact on the site history.

3. Test and Repair Records. No records of tests or repairs on the CVP are available. It does not appear that any records exist considering that the CVP last operated more than 30 years ago.

4. Other Site Chemicals. Except for the possible use of herbicides, pesticides and fertilizers, Brown and Caldwell is not aware of the use or storage of any other chemicals on the site. It is not likely that any maintenance shops have existed on the site.

An irrigation water supply well for Mountain House School is 160 feet southwest of the former CVP and does not appear to be listed on the DWR database. The school does not have construction details for this well, but does sample it monthly for volatile organic compounds (VOCs), metals and general minerals in accordance with California Department of Health Services (DHS) requirements. The school uses the well solely for irrigation and sanitation. According to school staff, students, employees and visitors drink bottled water because of the well water's poor quality.

Site Assessment Work

Site assessments and remedial activities are described below for the Schropp Ranch East Site and adjacent properties.

1. April 1992 Phase I Environmental Site Assessment. WZI Inc. (WZI) completed a Phase I Environmental Site Assessment of the site (Schropp Farms -East Property) and the adjacent Schropp Farms -West Property for AII (WZI, 1992). The site assessment reported the presence of two former gasoline USTs and an electrical transformer and that pesticides were not known to have been stored on the site. The report did not identify the presence of the former CVP.
2. May 1994 Exploratory Trench. In May 1994, WZI was retained by AII to dig an exploratory trench on the site adjacent to where the former CVP crossed beneath Mountain House Road (W A, 1997). The trench was dug to assess whether petroleum hydrocarbons were in the subsurface after WZI had recently observed an exposed portion of the CVP about one-half mile north of the site. A soil sample from five feet below ground surface (bgs) contained 8,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPH-D). Although the chromatogram for this sample is not available, it is probable that this TPH-D value represents unrefined crude oil hydrocarbons in the diesel range because refined product was never transmitted through the CVP .
3. October 1994 Exploratory Trenches. Shell retained Professional Integrated Consulting & Environmental Services Associates (PiCES) of Tustin, California, to investigate the extent of hydrocarbons in the subsurface and to excavate the source area (PiCES, 1996). In October 1994, PiCES excavated trenches T-1, T -2, and T -3 and collected five soil samples from 7 to 8 feet bgs from the trenches to verify the May 1994 sample results. Each of the soil samples was analyzed for total recoverable petroleum hydrocarbon (TRPH); benzene, toluene, ethylbenzene and total xylenes (BTEX); TPH-D; and total

petroleum hydrocarbons as gasoline (TPH-G). Up to 2,362 mg/kg TRPH and up to 6,917 mg/kg TPH-D were detected in the soil samples. No TPH-G or BTEX were detected above laboratory reporting limits (LRLs) in the five samples except for 12 mg/kg TPH-G in one sample and up to 0.03 mg/kg in two samples.

4. November 1994 Soil Borings. In November 1994, PiCES drove soil borings SB-1 through SB-6 to depths between 16 and 20 feet to assess the extent of petroleum hydrocarbons in the subsurface (PiCES, 1996). One soil sample from between 16 and 20 feet bgs was collected from each boring. Up to 340 mg/kg TRPH, up to 4,632 mg/kg TPH-D and up to 433 mg/kg TPH-G were detected in the samples. Although concentrations of toluene, ethylbenzene, and xylenes were detected slightly above LRLs in three of the six soil samples, no benzene was detected above LRLs in any of the samples. Also, no petroleum hydrocarbons were detected above LRLs in the samples from borings SB-1, SB-2 and SB-5. Soil borings SB-3 and SB-4 were driven, to ground water, which was between 16 to 19 feet bgs. A light non-aqueous phase liquid (LNAPL) was observed on the water table in those borings, and therefore no groundwater samples were collected.
5. October 1995 Soil Borings. In October 1995, PiCES drilled 35 soil borings on the site along 3,500 feet of the former CVP southeast of the release area (PiCES, 1996). The objective of the borings was to assess whether petroleum hydrocarbons were in soil along other portions of the former CVP beneath the site. PiCES collected one soil sample from each boring between six and seven feet bgs. The samples were composited into seven samples, each of which was analyzed for TPH-D, TPH-G and BTEX. Because no petroleum hydrocarbons were detected in any of the soil samples above LRLs, PiCES concluded that no further investigation was warranted along this portion of the former CVP.

6. November 1995 Soil Excavation. In November 1995, PiCES directed NG Chemical of Santa Maria, California, to excavate and dispose of hydrocarbon-bearing soil from the area outlined on Exhibit 11 (PiCES, 1996). Soil was transported to the McKittrick Waste Treatment Site in McKittrick, California and the Altamont Landfill in Livermore, California. Average excavation depths were 25 and 12 feet bgs in the western and eastern portions of the excavation, respectively. The maximum excavation depth was 35 feet bgs. Thirty-five confirmation samples were analyzed for TRPH, BTEX, TPH-D and TPH-G. Confirmation soil samples from the final northern, eastern and southern walls contained up to 64 mg/kg TPH-D and 13.0 mg/kg TRPH. Because of the presence of Mountain House Road, soil from the excavation's western wall that contained higher petroleum hydrocarbon concentrations could not be excavated. These samples contained up to 1,400 mg/kg TPH-D and up to 670 mg/kg TRPH. About 4,000 tons of fill was used to backfill the excavation.

7. March 1996 Well Installations. On March 29, 1996, PiCES installed groundwater monitoring wells MW-1, MW-2, and MW-3 to determine whether petroleum hydrocarbons were present in groundwater north of the former CVP (PiCES, 1996). The wells were installed to a maximum depth of 30 feet and were completed with 4-inch diameter polyvinyl chloride (PVC) casing and screens extending approximately 20 feet below and 5 feet above the water table. Apparently, no soil samples from the borings for the wells were analyzed by an analytical laboratory. The well locations are shown on Exhibit 11.

8. 1996-7 Ground Water Monitoring. In April 1996, PiCES collected ground water samples from wells MW-1, MW-2 and MW-3. No TPH-D or BTEX were detected above LRLs in any of the samples, except for 1,000 µg/L TPH-D in the sample from well MW-2. Subsequently, Shell retained Weiss Associates of Emeryville, California, to sample the wells in January, February, March, May, and July 1997. No BTEX were detected above LRLs in groundwater samples from any well. Up to 1,500 µg/l total petroleum

hydrocarbons as crude oil (TPH-CO) and up to 190 µg/l TPH-D were detected in the ground water samples from these sampling events. It is likely that the TPH-D is due to the crude oil constituents because crude oil was never transmitted through the CVP (Weiss Associates, 1997).

9. July 1997 Soil Borings. In July 1997, Weiss Associates advanced soil borings B-1 through B-5 along the site's western boundary to assess whether petroleum hydrocarbons were in soil and ground water on the downgradient edge of the former excavation. Two soil and one ground water sample were collected from each boring. No BTEX or TPH-G was detected above LRLs in any sample. Three samples contained TPH-CO above LRLs. A maximum of 49 mg/kg were detected in the sample from 7.5 feet depth in boring B-2, located immediately adjacent to the former excavation. Although the soil samples contained up to 2.6 mg/kg TPH-D, the positive laboratory result is probably due to crude oil constituents because diesel was not transmitted through the CVP. No TPH-D, TPH-G, BTEX or methyl tertiary -butyl ether (MTBE) were detected above LRLs in the ground water samples from any of the borings. Between 410 and 1,600 µg/l TPH-CO were detected in the water samples.

10. February 1999 Soil Borings and Water Samples. Brown and Caldwell advanced six soil borings on the grounds of Mountain House School and collected soil and water samples from each boring (Brown and Caldwell, 1999). The objective of the investigation was to assess whether crude oil from the CVP was in soil and groundwater downgradient of the site. No TPH -CO, TPH-D, benzene, toluene or IPAHS were detected above LRLs in the soil or water samples. The water sample from boring B-7 contained 0.625 µg/l ethylbenzene and 4.70 µg/l xylenes, and the sample from boring B-6 contained 2.59 µg/l xylenes. concentrations are below DHS maximum contaminant levels (MCLs) for drinking water. "Unidentified hydrocarbons" in the C10 to C40 range were detected in some soil and one groundwater samples. (The analytical laboratory reported that these results do not appear to represent diesel or crude oil-derived hydrocarbons but may be the

result of naturally occurring hydrocarbons. This hypothesis is supported by the fact that the unidentified hydrocarbons were detected in samples from all borings. Therefore, they do not appear to be distributed in a pattern that suggests that they are from the CVP).

11. Case Closure Request Based on the results of the past investigations, petroleum hydrocarbons are not in soil or groundwater downgradient of the former CVP at concentrations that present a significant risk to human health or the groundwater resource. Brown and Caldwell recommended closure for this case because:

1. Data from six rounds of water depth measurements in 1996 and 1997 indicate that groundwater flowed consistently westward. Based on this flow direction, the February 1999 investigation was conducted downgradient of the former source area. Therefore, because no petroleum hydrocarbons or low concentrations of petroleum hydrocarbons were detected in soil and groundwater samples from this investigation Brown and Caldwell concluded that petroleum hydrocarbons do not extend far downgradient of the source area.

2. Shell had remediated the source area. In 1995, about 4,000 tons of crude oil impacted soil were excavated and disposed at an offsite facility. The excavation of this soil was the best available technology (BAT) for this site. Groundwater extraction and soil vapor extraction are not effective technologies because crude oil absorbs to soil and is not volatile. Other options, such as chemical fixation or stabilization, would likely have been cost prohibitive and may not have been consistent with long-term uses for the property. Bioremediation is only effective in certain environments and requires a longer cleanup time than excavation. Any residual crude oil that may exist beneath Mountain House Road is inaccessible by excavation, biodegradable and immobile. In fact, assuming that borings B-6 and B-7 are at the downgradient edge of hydrocarbons in groundwater, dissolved constituents of crude oil have migrated only 80 feet, the width of Mountain House Road, since the CVP release. Considering that the CVP was decommissioned in or

about 1965, the maximum contaminant velocity in groundwater is only 2.4 feet per year. Any residual hydrocarbons are probably biodegrading before migrating a significant distance.

The California Regional Water Quality Control Board granted a closure to the Schropp Ranch East Site in 1999.

7.0 HYDROCARBON SOIL REMEDIATION

7.1 Characterization of Stockpiled Hydrocarbon Contaminated Soil

During the process of developing the excavation in the main shop yard, clean soil and gasoline contaminated soil were separated using field identification techniques presented in WZI (1992). Clean soil was stockpiled immediately adjacent to the excavation. Gasoline contaminated soil was separated and moved by truck and/or scrapers to the remediation pad area. This area is depicted in Exhibit 6.

The corral area of the property was used to stockpile hydrocarbon contaminated soil (Exhibit 3).

A 10 mil reinforced polyethylene sheet was spread over the area where the stockpiling of gasoline contaminated soil occurred and six inches of clean, sandy soil was spread over this sheet to act as a base. The gasoline contaminated soil stockpile was prepared and graded to prevent surface drainage from rainfall into the soil pads. A berm was constructed over the entire contaminated stockpile site to prevent uncontrolled rainwater runoff from the treatment area and to prevent unauthorized vehicle traffic from entering the area.

The gasoline contaminated soil was covered with visqueen to prevent uncontrolled venting. Continuous OVM readings were made during the first few days to insure no venting of hydrocarbons to the atmosphere occurred. The hydrocarbon contaminated soil was maintained in this condition until notification was made to the Bay Area Air Quality Management District.

A series of soil samples were collected prior to initiation of the aeration to establish a baseline of average soil hydrocarbon content. These samples were analyzed using USEPA Test Methods 8015 (modified) and 8020. In addition, four soil samples were analyzed for soluble lead. The results of the analyses for soluble lead were reported as being below detection limits.

7.2 Soil Remediation

The total volume of hydrocarbon contaminated soil excavated was estimated to be approximately 19,000 cubic yards. The remaining 5,863 cubic yards were clean overburden. The soil aeration process was conducted in a manner that was in compliance with the Bay Area Air Quality Management District regulations. An estimate of the overall volatile organic content of the gasoline contaminated soil was determined to be approximately 50 mg/kg. This concentration of organic volatile was below the limit for aeration according to the Bay Area Air Quality Management District regulations and consequently was exempt from air permitting requirements.

The following procedures outline the methodology used in remediation of the gasoline contaminated soil:

1. Excavated gasoline contaminated soil material was field screened using an OVM and separated into clean, low level contaminated soil (< 100 ppmv) and high level contaminated (>100 ppmv) soil. The OVM was calibrated from a spiked soil sample containing approximately 10 mg/kg gasoline.
2. At the soil aeration site the hydrocarbon contaminated soil was spread on a 10-mil reinforced polyethylene sheet to a maximum depth of two feet. A berm (eight inches in height, minimum) was incorporated around this material using clean soil from the excavation and incorporating the plastic sheeting to prevent runoff from the treatment area.
3. OVM readings were taken from the pile at least three times per week. When OVM readings were nondetect, one sample for every 50 cubic yards was taken from the pile. Samples were composited in groups of three and tested for TPH-G, BTEX. The analytical results are presented in Appendix 7.

8.0 SITE CONCEPTUAL MODEL

The site is currently in use as a farm property. None of the site surface is paved. Approximately 4,000 square feet of surface is under building foundations. As shown on Exhibits 7, 8, and 9, the site subsurface soils are comprised of 10 to 12 feet of fine-grained sediments overlying a sandy aquifer present at 15 feet bgs at the site. This sandy aquifer is the first saturated zone beneath the site. Clays have been identified beneath the sandy aquifer in several locations, however, the thickness of these near surface clays is unknown.

The groundwater flow direction is generally northeast with an inclined gradient of 2 to 5 feet per mile to the northeast. Transport of the petroleum hydrocarbons in this area is likely controlled by chemical diffusion.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

The technical summary of petroleum hydrocarbon soil and groundwater contamination at the Schropp Ranch site located in Alameda County are as follows:

- A former underground storage tank site was responsible for the gasoline contaminated soil under the Schropp Ranch main yard area. This site was responsible for contamination of approximately 19,000 cubic yards of soil both above and below the local ground water surface with low-level (50 to 100 mg/kg) total petroleum hydrocarbon as gasoline constituents.
- All gasoline contaminated soil on the Schropp Ranch has been removed from the subsurface by excavation of the shop yard area with an exception of approximately 100 cubic yards of gasoline contaminated soil immediately under the existing farm house. This volume of soil is estimated to be minor based on the soil sample analytical concentrations for total petroleum hydrocarbon and gasoline and the proximity of two exploratory excavations that did not intercept hydrocarbon contaminated soil (Exhibit 6). The gasoline contaminated soil remaining under the farm house is probably composed of low-level gasoline contaminated soil similar to that removed in the main excavation.
- The vertical extent of the gasoline contaminated soil was limited to approximately 30 feet below ground surface. The horizontal extent of the gasoline contaminated soil was contained to the shop yard area.
- The former domestic water well was abandoned as part of the investigation. Soil contamination patterns found in the excavation floor and sidewalls suggest that the ground water along with gasoline contaminated water was drawn next to the former water well wellbore. The water well pump would have reversed the local ground water gradient. WZI sampled water from the water well and found no hydrocarbon contaminated water to be present in the lines from the well to the farm house. The water well was abandoned as a precaution for the health and safety of the farm house occupants.
- The ground water gradient slopes to the northeast. All monitoring wells have been sampled on a quarterly basis and analytical samples to date have been reported as below detection limits for hydrocarbon constituents

- The gasoline contaminated soil removed from the excavation has been remediated by aeration to non-detection limits. This soil has been placed on farm roads and does not pose a health and safety threat.
- Crude oil contaminated soil has been identified as being present at a depth of 22 to 25 feet below ground surface near the northern property line. This contamination is almost certainly from a former Shell Oil Company crude oil pipeline that was abandoned at an unknown time in the 1980's. This contamination has been removed from the Schropp property by excavation. The vertical and lateral extent of this contamination is unknown and is not part of this investigation as it involves a source on the adjacent property and is not a result of the underground storage tank release of gasoline on the Schropp property .

Recommendations

The recommendations of this investigation are:

- No further work at the site is warranted.
- Abandonment of the five monitoring wells;
- Based on the results of this investigation, petroleum hydrocarbons are not in soil or groundwater downgradient from the former UST at concentrations that present a significant risk to human health or groundwater resource. Closure for the Schropp Ranch site is recommended for the following rationale:
 1. Data from five monitoring events of the five groundwater monitoring wells indicate the groundwater flow is north to northeast. Based on this flow direction, the Site Characterization investigation was conducted both up and downgradient of the former source area. Therefore because no petroleum hydrocarbons were detected in the local groundwater and only a very small volume of low concentrations of petroleum hydrocarbons have been left in the surface beneath the house, this investigator concludes that petroleum hydrocarbons do not extend, downgradient of the former subsurface source area.
 2. Schropp Ranch has remediated the surface source area by overexcavation of petroleum hydrocarbon and the source has been removed from local groundwaters. Any remaining petroleum hydrocarbon contaminated soil that exists at the site is either inaccessible by excavation, biodegradeable, and immobile.

3. Excavated and stockpiled petroleum hydrocarbon contaminated soil has been characterized by analytical laboratory methods. A total of 19,000 cubic yards of petroleum hydrocarbon contaminated soil that has an average of 50 to 100 mg/kg of total petroleum hydrocarbons as gasoline fuel. No volatile organic compounds were found to be present in the stockpiled petroleum hydrocarbon soil. Soluble lead was sampled and determined to not be present in the contaminated soil.
4. All the necessary information for case closure request as described by the RWQCB checklist (Exhibit 12) is included with this report.

10.0 MONITORING WELL ABANDONMENT WORKPLAN

After receiving approval from ACEHD and the RWQCB, Schropp Ranch will have the five monitoring wells on the site abandoned by a State of California Drilling Contractor with a valid C-57 license. The proposed scope of work to abandon the groundwater monitoring wells includes:

1. Obtaining well abandonment permits from ACEHD.
2. Preparing a site-specific health and safety plan for site workers and notification of Underground Service Alert of the well abandonments.
3. Removing the stovepipe cover and well caps from each well and drilling out each well with 12-inch diameter hollow-stem augers. The 12-inch diameter augers will assure that most of the seal and filter pack material is removed from the existing 10-inch diameter borings.
4. Drilling out the sanitary seal, filter pack and native soil around each well to a depth that exceeds the bottom of each well by two feet and removing the well casing and screen.
5. Bag each well with Portland Type I/II cement mixed with 3 to 5 percent bentonite powder by volume using a tremie pipe from the bottom of each boring to about 5 feet below ground surface.
6. Backfill the top five feet with topsoil after the underlying cement has cured. The top five feet of topsoil will minimize future farm equipment interference with the cement seal.
7. Storing the drill cuttings in 55-gallon, Department of Transportation-approved drums. Each drum will be properly sealed and labeled pending laboratory results of samples from the cuttings.
8. Obtaining the necessary acceptance approval from a landfill for the cuttings and disposing the cuttings at the landfill.
9. Reporting the well abandonments to ACEHD and California DWR

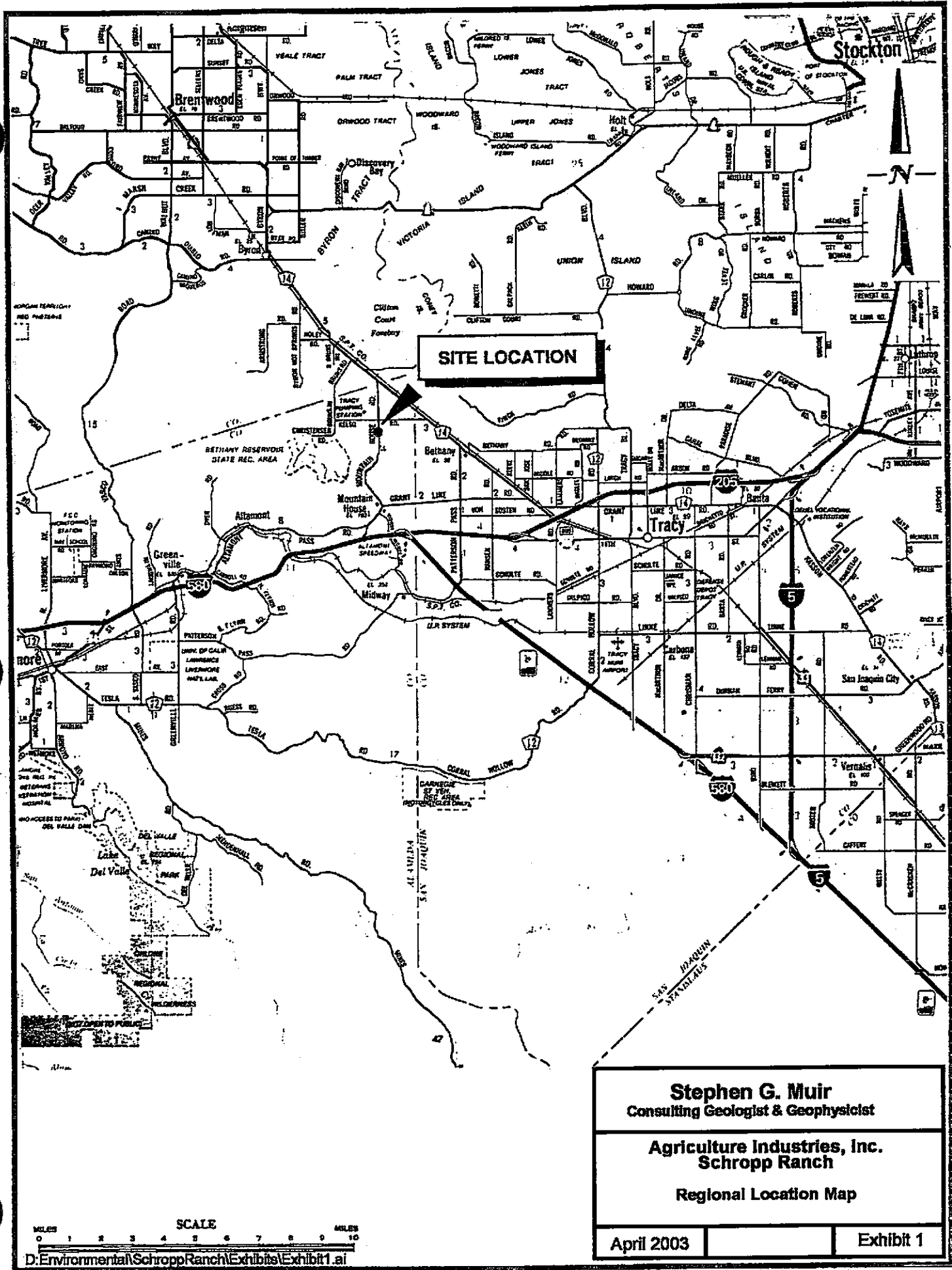
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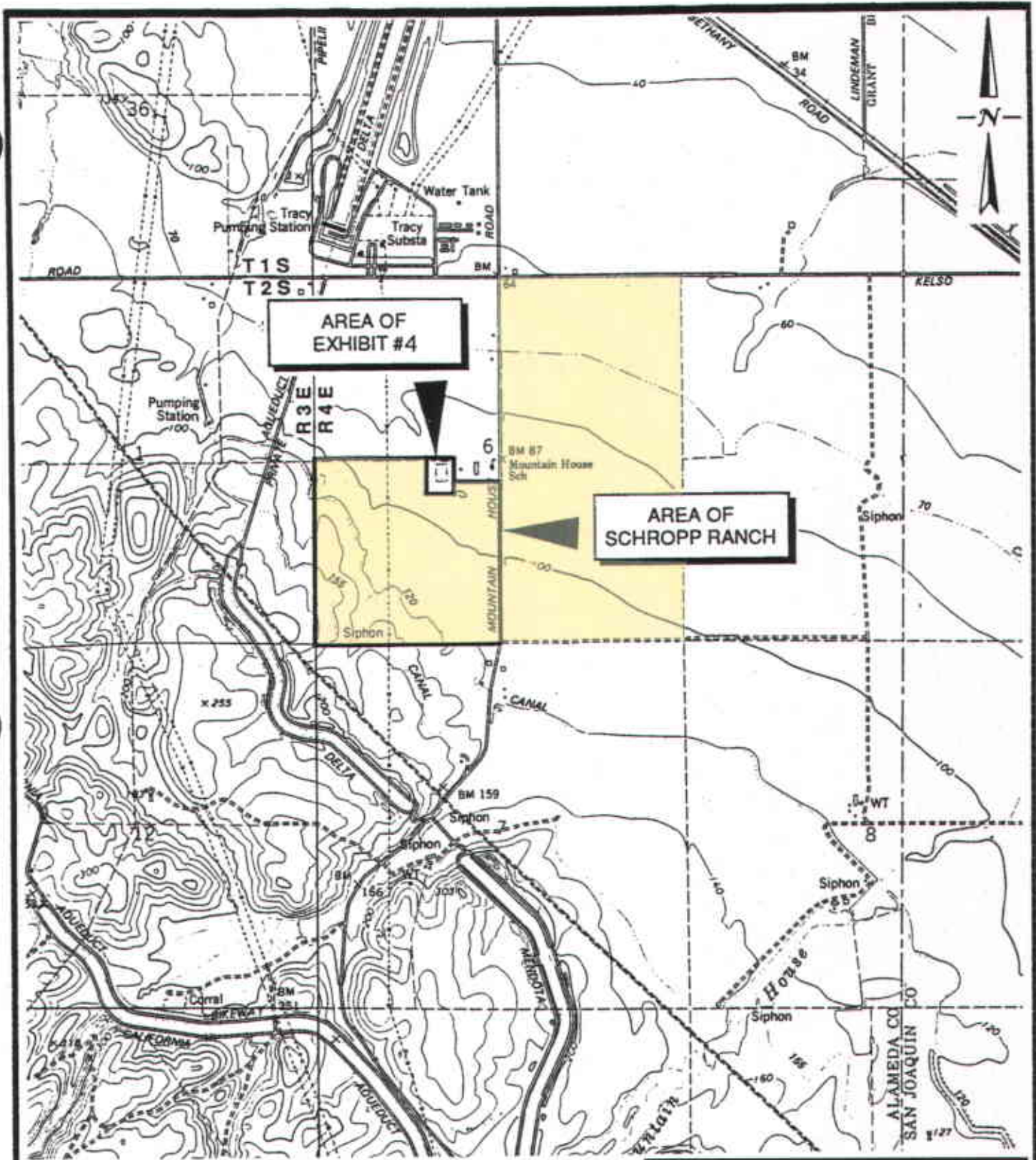
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SITE LOCATION

Stephen G. Muir Consulting Geologist & Geophysicist	
Agriculture Industries, Inc. Schropp Ranch	
Regional Location Map	
April 2003	Exhibit 1





REF: U.S. GEOLOGICAL SURVEY, CLIFTON COURT
FOREBAY 1:24,000 TOPOGRAPHIC MAP

Stephen G. Muir
Consulting Geologist & Geophysicist

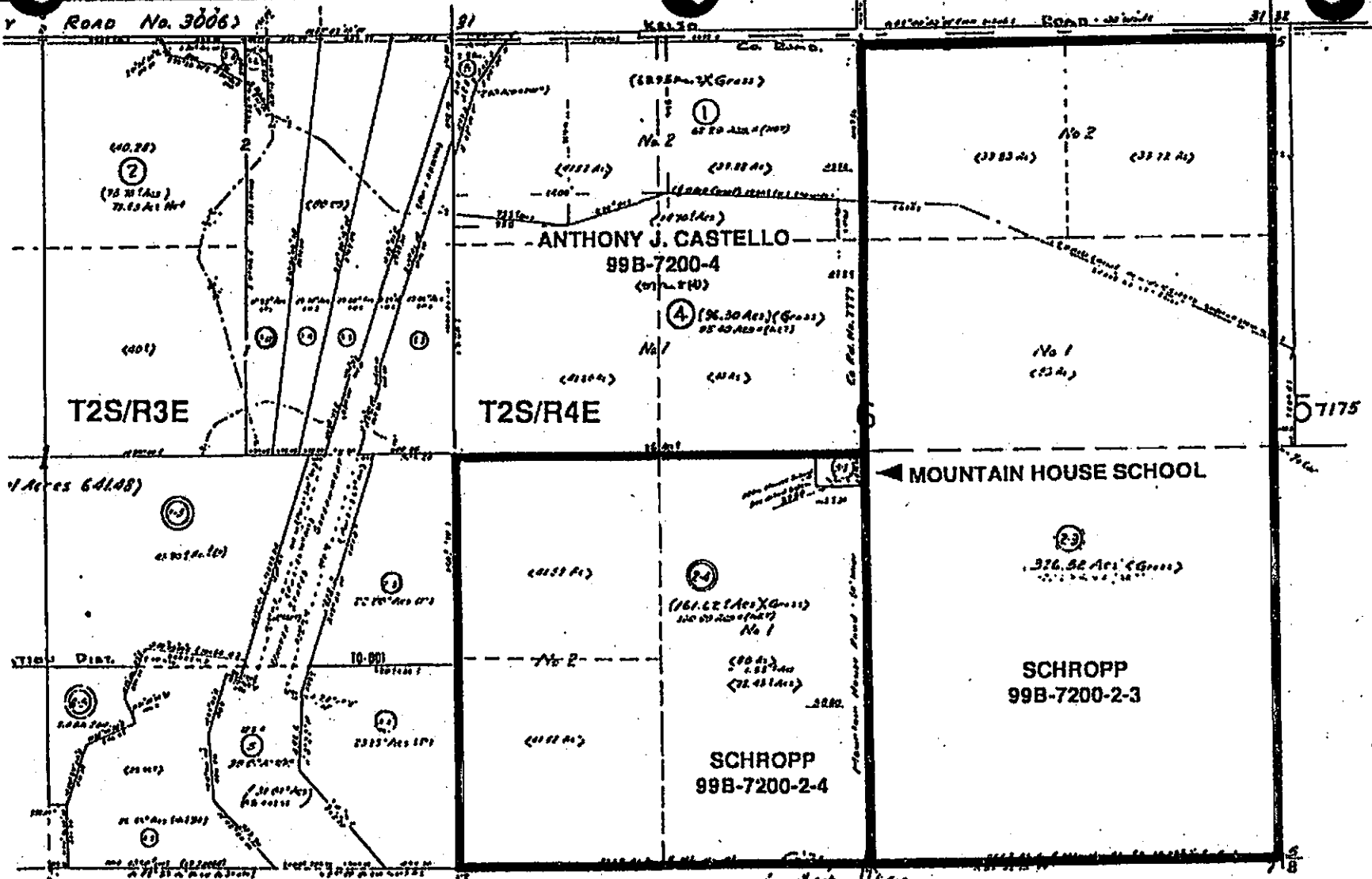
Agriculture Industries, Inc.
Schropp Ranch

Site Location Map

0 1000 2000 3000 4000 FEET

April 2003

Exhibit 2



← MOUNTAIN HOUSE SCHOOL

SCHROPP
99B-7200-2-3

SCHROPP
99B-7200-2-4

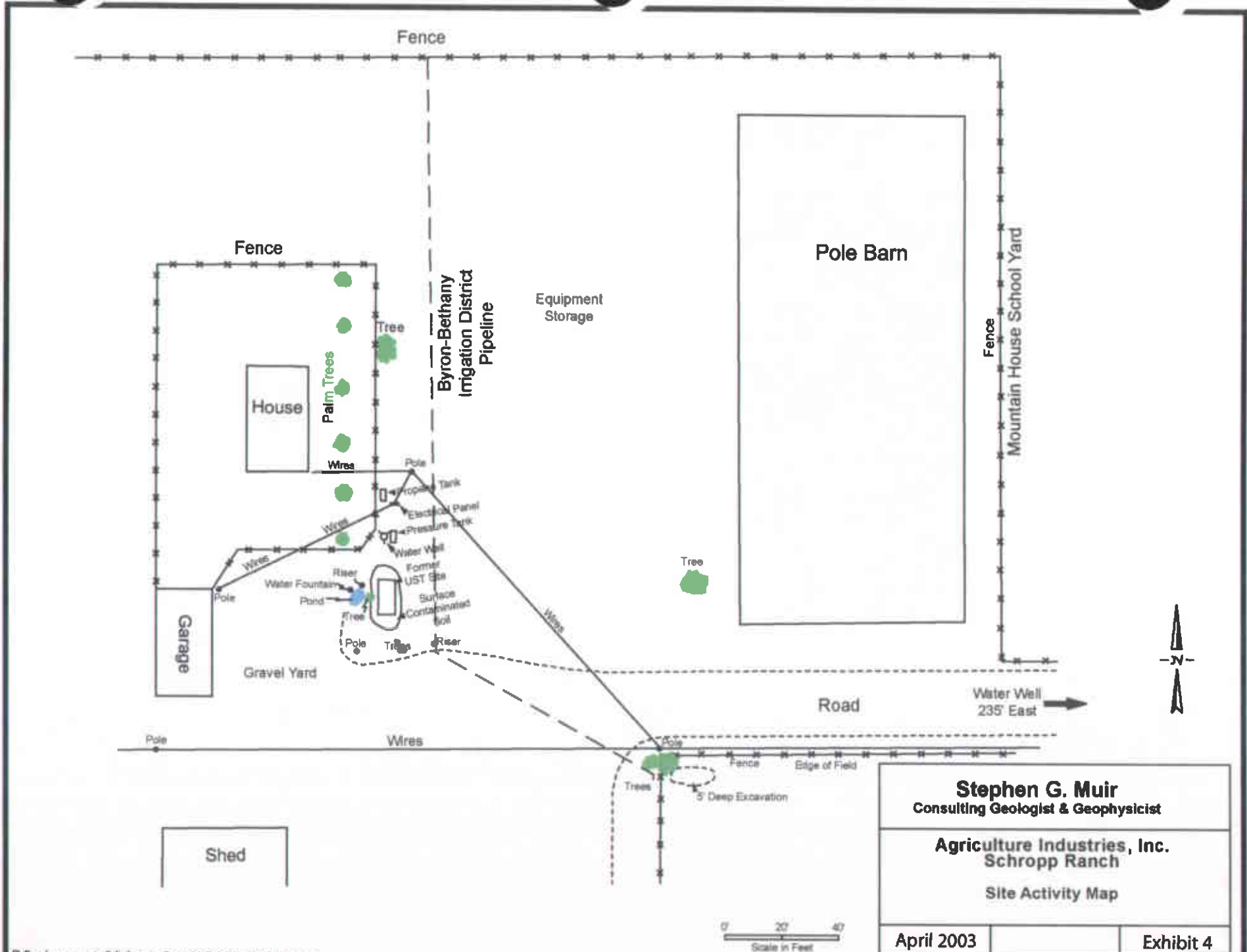
ANTHONY J. CASTELLO
99B-7200-4

T2S/R3E

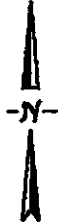
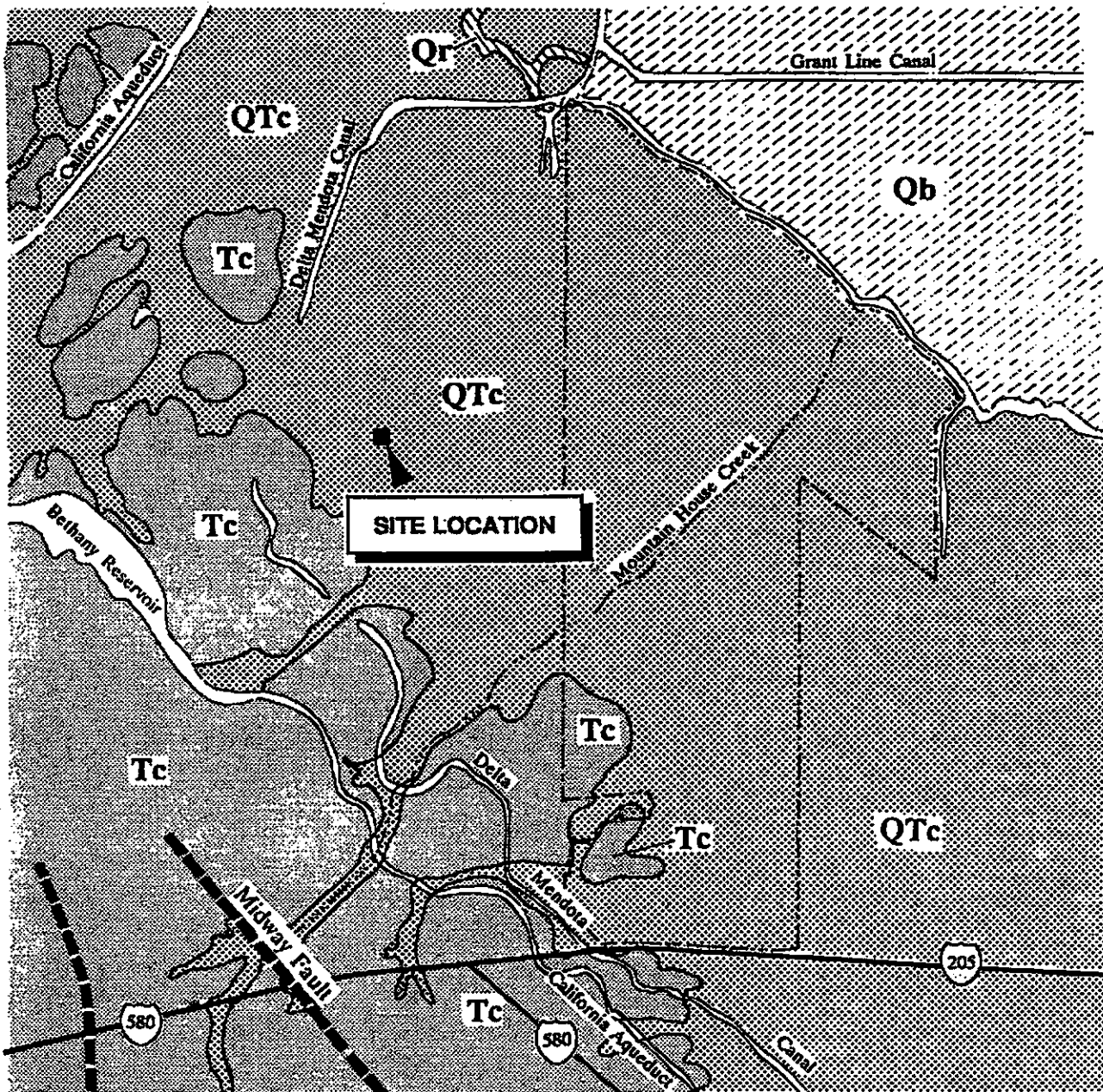
T2S/R4E

Stephen G. Muir Consulting Geologist & Geophysicist		
Agriculture Industries, Inc. Schropp Ranch		
Assessor's Parcel Map		
April 2003		Exhibit 3

Scale In Feet
0 500




<p>Stephen G. Muir Consulting Geologist & Geophysicist</p>		
<p>Agriculture Industries, Inc. Schropp Ranch</p>		
<p>Site Activity Map</p>		
<p>April 2003</p>		<p>Exhibit 4</p>




Legend

Qr  Recent (Holocene) River Deposits

Qb  Recent (Holocene) Flood Basin Deposits

QTc  Young (Quaternary to Tertiary) Alluvial Deposits

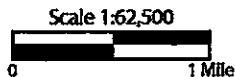
Tc  Older (Tertiary and Pre-Tertiary) Marine and Continental Sedimentary Rocks

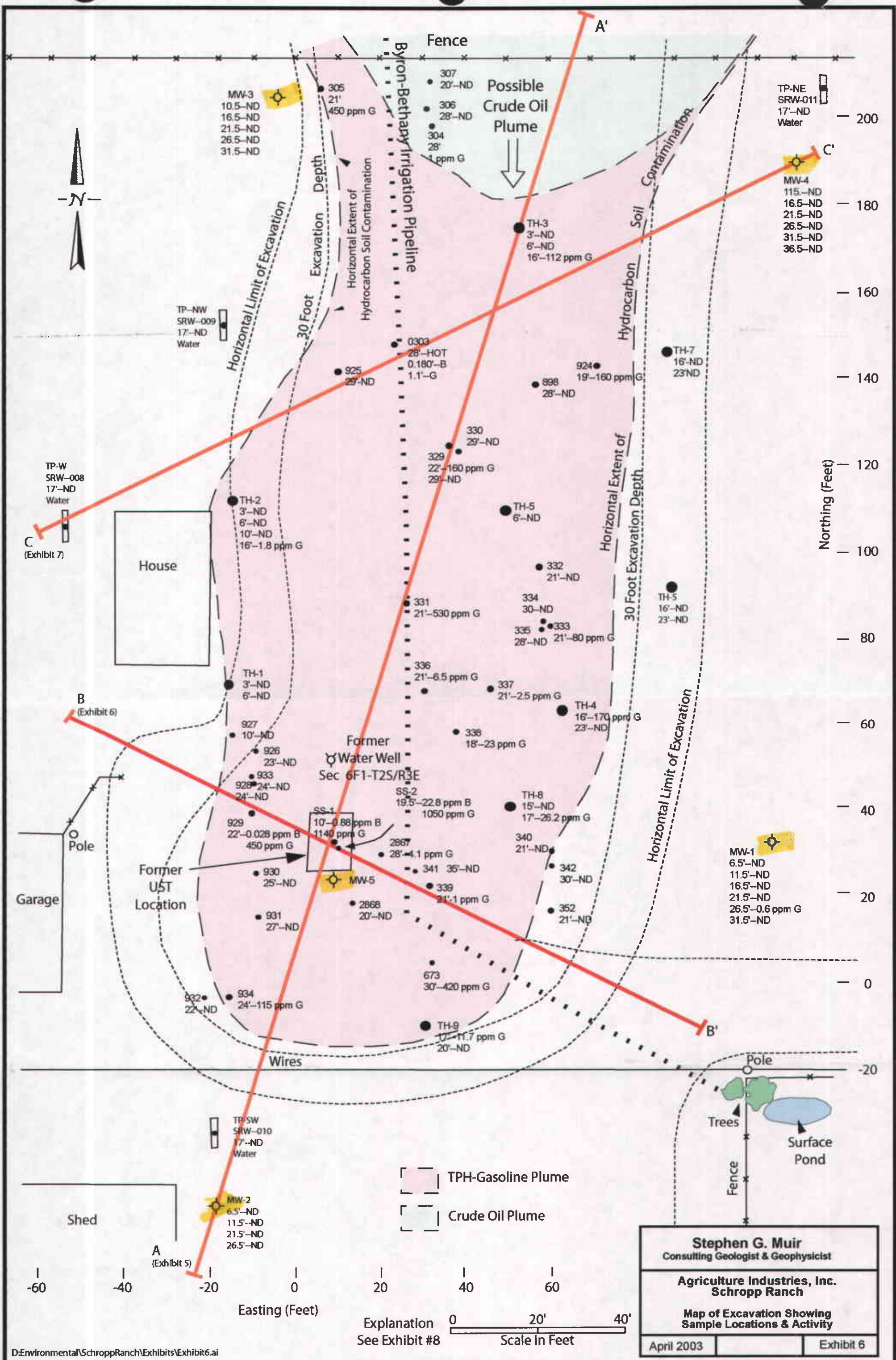
 Potentially Active Faults

 Proposed Mountain House Project Site Boundary

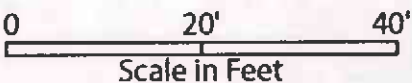
<p>Stephen G. Muir Consulting Geologist & Geophysicist</p>		
<p>Agriculture Industries, Inc. Schropp Ranch</p>		
<p>Geologic Map of Site</p>		
April 2003		Exhibit 5

Source: USGS, 1972 Miscellaneous Field Studies Map, MF-338
 USGS, Open File Report, 80-535
 USGS, 1986 Professional Paper, 140 1.C

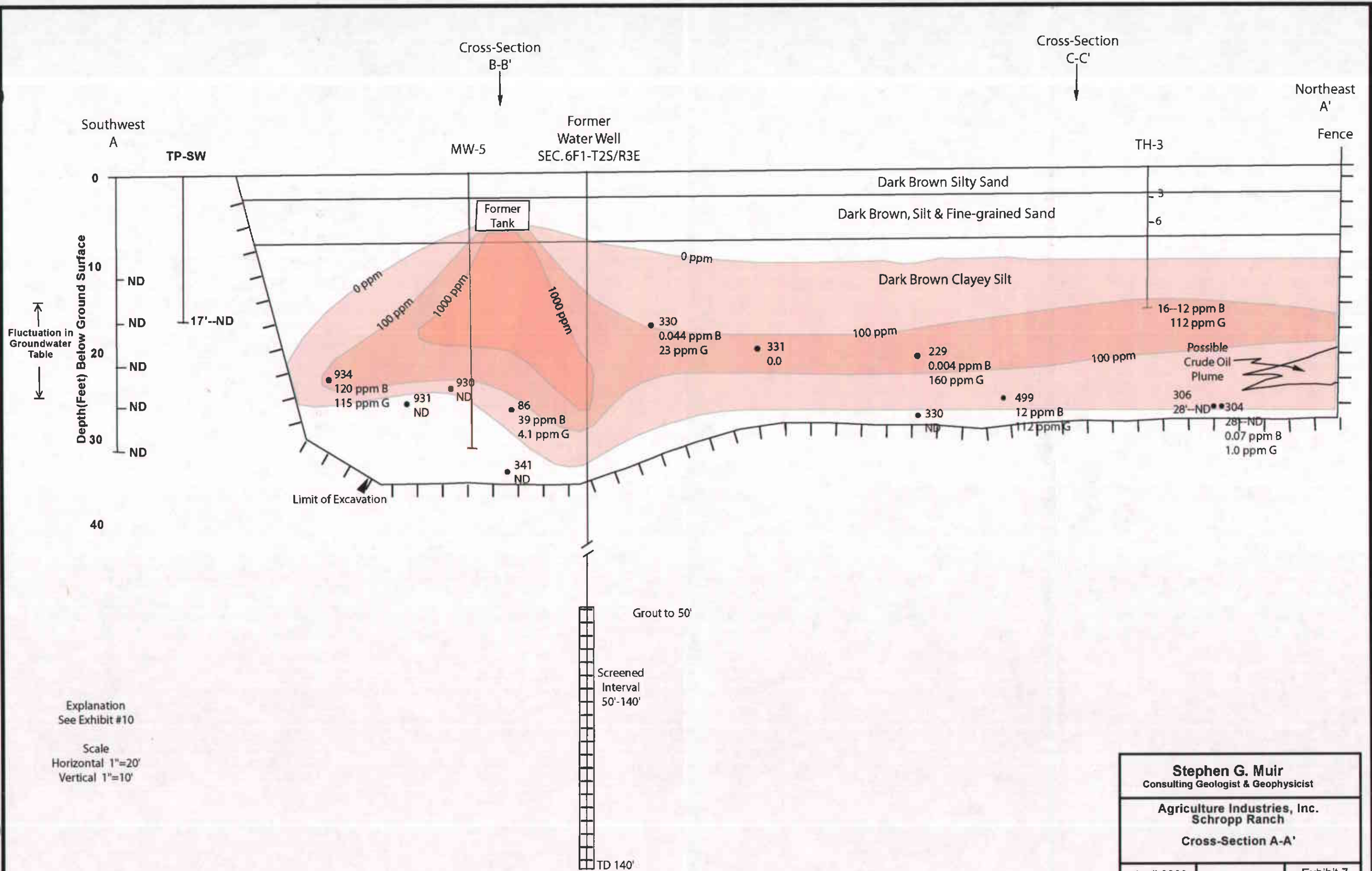




Explanation
See Exhibit #8



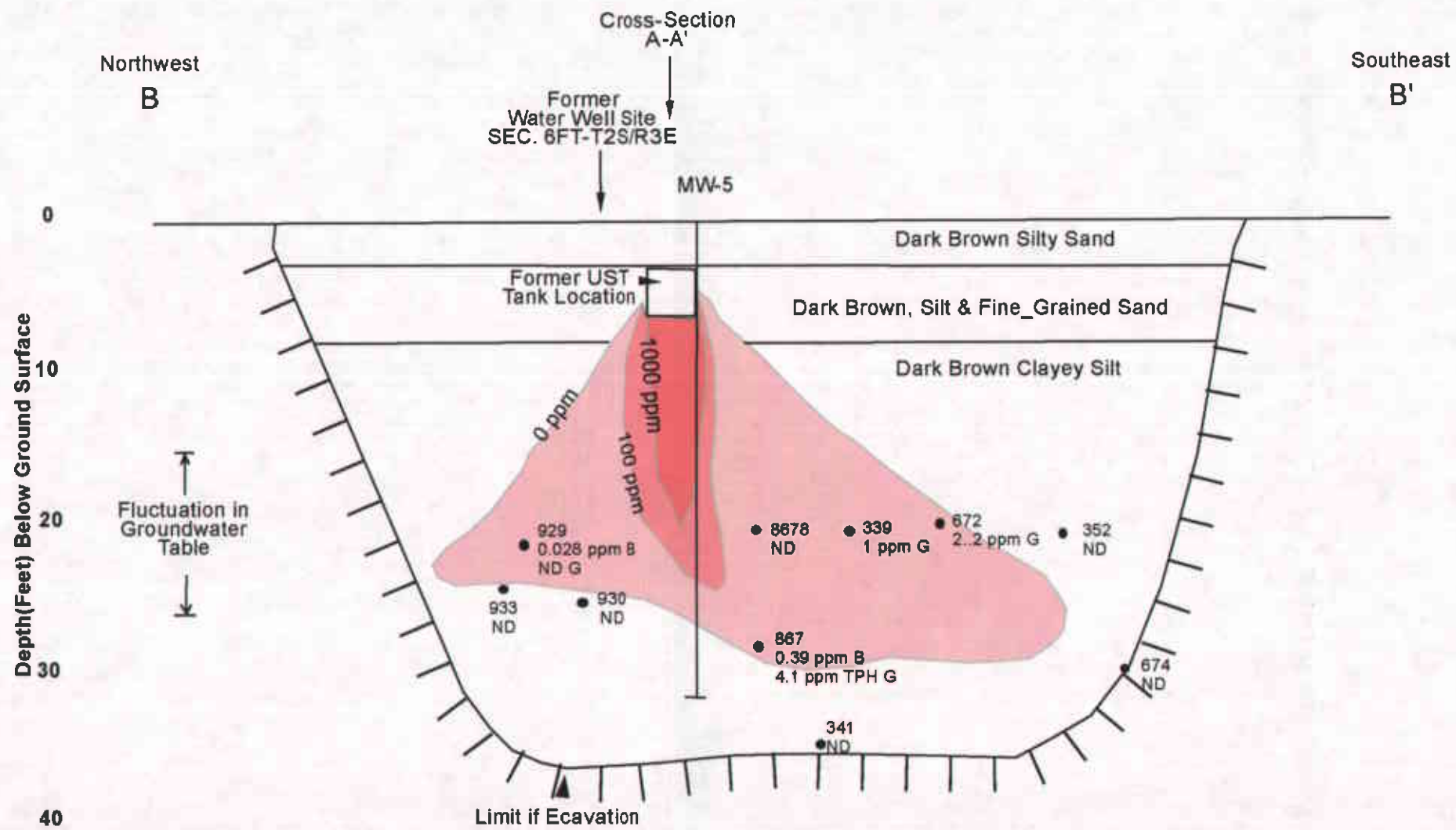
Stephen G. Muir Consulting Geologist & Geophysicist	
Agriculture Industries, Inc. Schropp Ranch	
Map of Excavation Showing Sample Locations & Activity	
April 2003	Exhibit 6



Explanation
See Exhibit #10

Scale
Horizontal 1"=20'
Vertical 1"=10'

Stephen G. Muir Consulting Geologist & Geophysicist		
Agriculture Industries, Inc. Schropp Ranch		
Cross-Section A-A'		
April 2003		Exhibit 7



Explanation
See Exhibit #10

Scale
Horizontal 1"=20'
Vertical 1"=10'

Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

Cross-Section B-B'

April 2003

Exhibit 8

EXPLANATION

- 925 ND SOIL SAMPLE NUMBER, LOCATION, AND ANALYTICAL RESULT
- TH-2-3-23 PPM-G SOIL SAMPLE FROM TEST HOLE (HAND AUGER) NUMBER DEPTH, AND ANALYTICAL RESULT
- B BENZENE CONCENTRATION IN PPM = PARTS PER MILLION
- G TOTAL PETROLEUM HYDROCARBON AS GASOLINE CONCENTRATION IN PARTS PER MILLION (PPM)
- ND BELOW ANALYTICAL DETECTION LIMITS
- MW MONITORING WELL
- TP TEST PIT
- TH TEST HOLE (HAND AUGER)
- 100 PPM — CONTOUR LINE OF TOTAL PETROLEUM HYDROCARBON CONTAMINATION AS GASOLINE; IN PARTS PER MILLION

Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

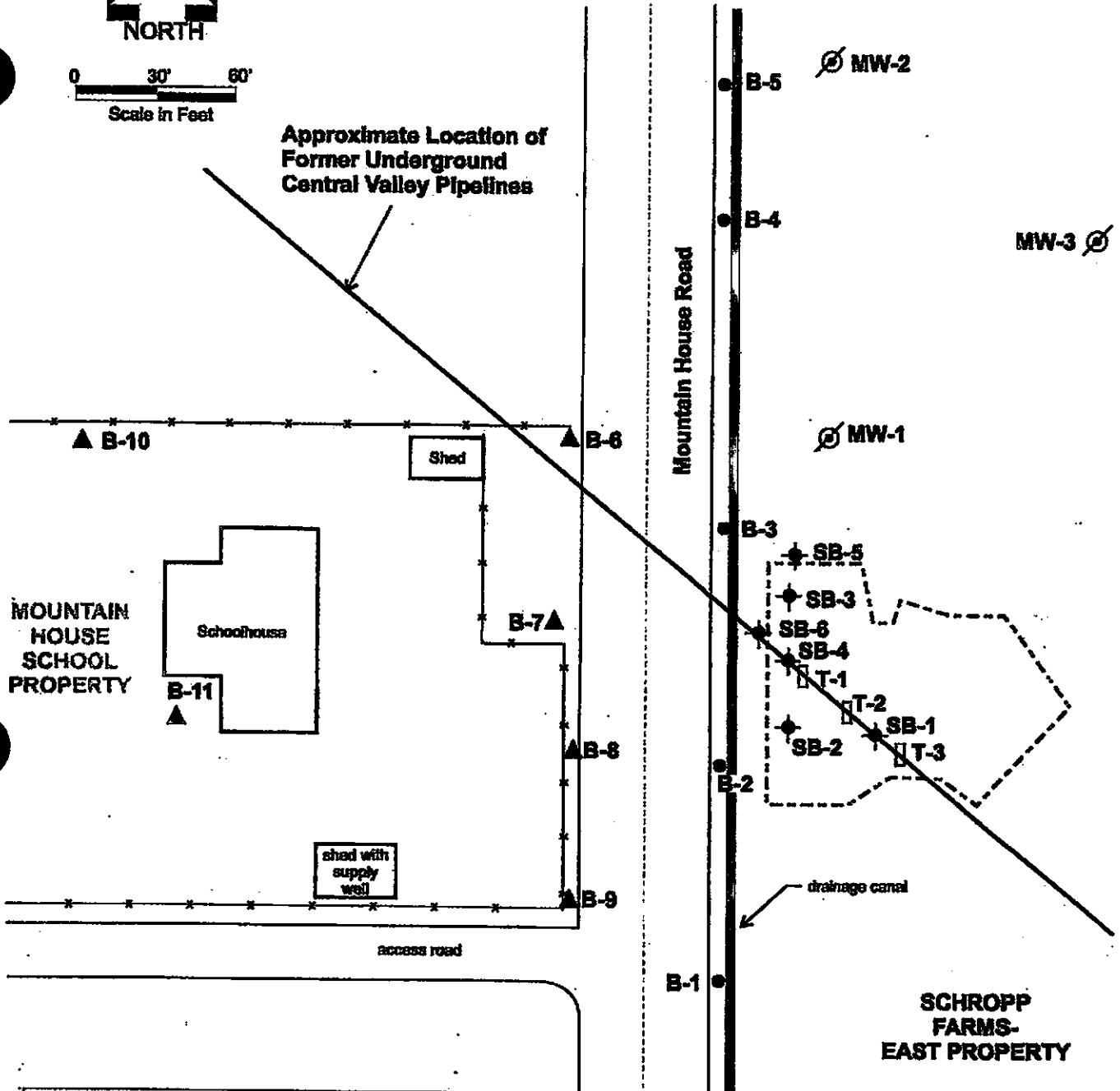
Explanations for
Exhibits 7-9

August 2002







Exhibit 10



Approximate Location of Former Underground Central Valley Pipelines



LEGEND

-  Ground Water Monitoring Well, Installed March 1996, Proposed for Abandonment
-  Soil Boring, Advanced February 1999
-  Soil Boring, Advanced July 1997
-  Soil Boring, Advanced November 1994
-  Limit of Former Soil Excavation, November 1995
-  Exploratory Trench, Excavated October 1994

 Approximate Shallow Ground Water Flow Direction

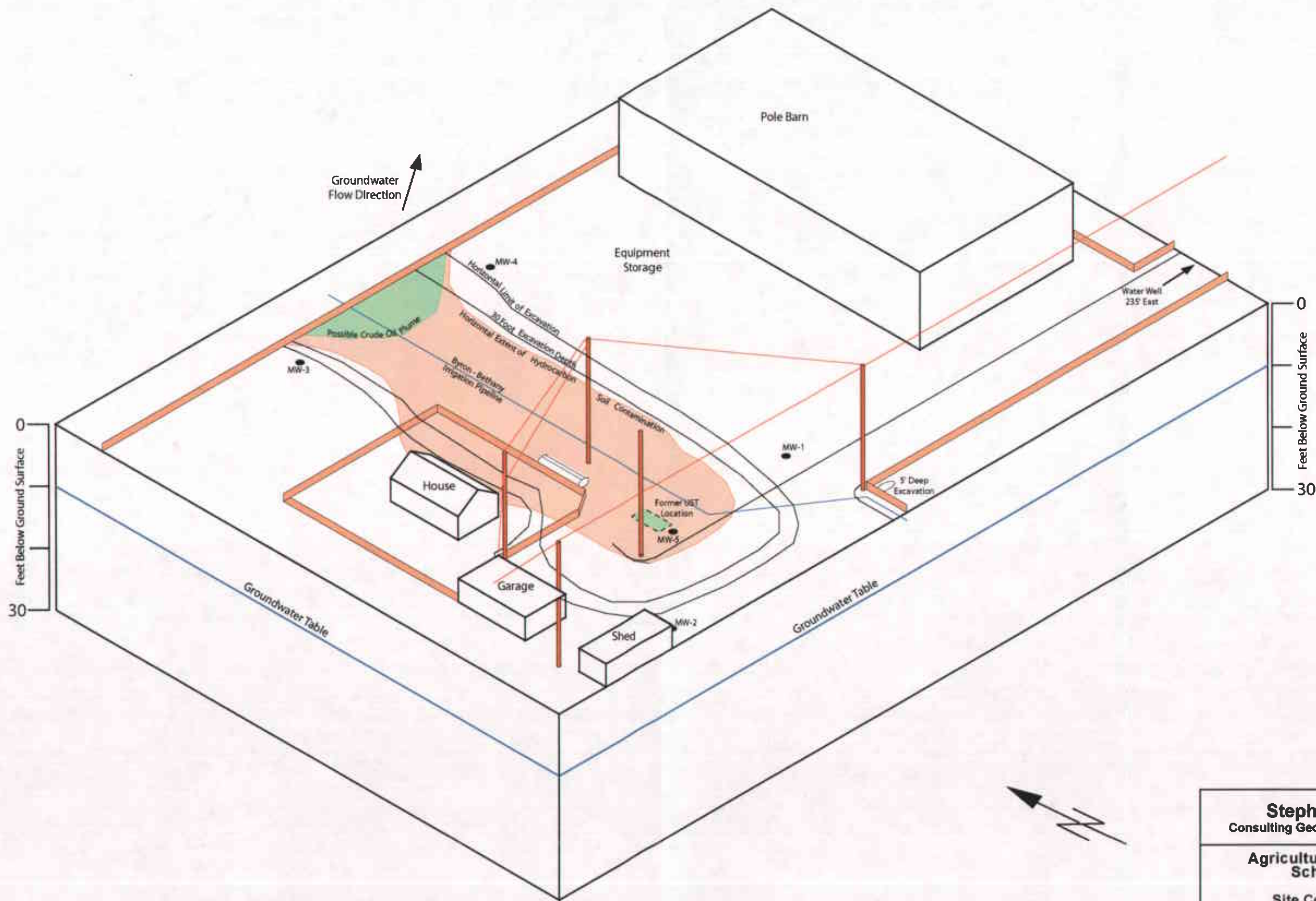
Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

Site Assessment Map (East)

April 2003

Exhibit 11



Stephen G. Muir Consulting Geologist & Geophysicist		
Agriculture Industries, Inc. Schropp Ranch		
Site Conceptual Model		
April 2003	Not to Scale	Exhibit 12

Table 1
Summary of Soil Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 8020 All results in mg/kg			
		TPH-G (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
SS-1	04/20/92	0.114	0.88	10.20	4.80	46.0
SS-2	04/20/92	1050	22.80	44.40	7.10	33.0
Soil 8	07/02/92	104	ND	0.11	0.026	0.308
Soil 7	07/02/92	6.0	ND	0.008	0.006	0.006
Soil 6	07/02/92	80.0	ND	0.045	0.015	0.115
Soil 5	07/02/92	6.0	ND	0.008	ND	0.007
Soil 4	07/02/92	2.4	ND	0.009	ND	ND
Soil 3	07/02/92	ND	ND	ND	ND	ND
Soil 2	07/02/92	ND	ND	ND	ND	ND
Soil 1	07/02/92	2.6	ND	0.005	ND	0.004
Soil T-1	07/02/92	ND	ND	ND	ND	ND
TH-2-16	07/07/92	1.8	ND	ND	0.003	0.004
TH-2-23	07/07/92	ND	ND	ND	ND	ND
TH-3-16	07/07/92	112	1.2	0.23	0.79	0.475
TH-4-16	07/07/92	170	0.052	0.77	0.175	0.400
TH-4-23	07/07/92	ND	ND	ND	ND	ND
TH-5-16	07/07/92	1.0	ND	0.003	ND	ND
TH-7-23	07/08/92	ND	ND	ND	ND	ND
TH-7-16	07/08/92	ND	ND	ND	ND	ND
TH-6-23	07/08/92	ND	ND	ND	ND	ND
TH-6-16	07/08/92	ND	ND	0.006	ND	ND
TH-8-15	07/08/92	ND	ND	ND	ND	ND
TH-8-17	07/08/92	26.2	ND	0.079	0.011	0.065
TH-9-20	07/08/92	ND	ND	ND	ND	ND
TH1-3	08/12/92	ND	ND	ND	ND	ND
TH1-6	08/12/92	ND	ND	ND	ND	ND
TH2-3	08/12/92	ND	ND	ND	ND	ND

Table 1
Summary of Soil Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 8020 All results in mg/kg			
		TPH-G (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
TH2-6	08/12/92	ND	ND	ND	ND	ND
TH2-10	08/12/92	ND	ND	ND	ND	ND
TH3-3	08/12/92	ND	ND	ND	ND	ND
TH3-6	08/12/92	ND	ND	ND	ND	ND
SS 40N 20E	06/17/93	4.1	0.390	0.008	0.003	0.015
SS 30N 20E	06/17/93	14.0	0.080	0.008	0.011	0.023
150N 30E	07/01/93	1.1	0.180	0.003	ND	ND
200N 20E	07/01/93	1.0	0.078	0.003	ND	0.009
210N 5E	07/01/93	450	0.031	0.420	0.330	1.4
200N 40E	07/01/93	ND	ND	ND	ND	ND
210N 40E	07/01/93	ND	ND	ND	ND	ND
210N 100E	07/07/93	285	0.035	0.250	0.270	0.920
210N 100E	07/07/93	325	0.040	1.0	0.620	1.40
200N 90E	07/07/93	ND	ND	ND	ND	0.004
180N 60E	07/08/93	160	0.004	0.40	0.72	1.25
180N 60E	07/08/93	ND	ND	ND	ND	ND
130N 45E	07/08/93	530	0.015	0.71	1.50	2.30
140N 90E	07/08/93	ND	ND	ND	ND	ND
120N 90E	07/08/93	80.0	0.008	0.20	0.145	0.46
120N 90E	07/12/93	ND	ND	ND	ND	ND
115N 90E	07/13/93	ND	ND	ND	ND	ND
100N 50E	07/13/93	6.5	0.041	0.019	0.018	0.078
100N 70E	07/13/93	2.5	0.007	0.020	0.020	0.350
85N 60E	07/13/93	23.0	0.004	0.036	0.036	0.300
35N 50E	07/14/93	1	ND	ND	0.003	0.007
45N 90E	07/14/93	ND	ND	ND	ND	ND
40N 45E	07/14/93	ND	0.004	ND	ND	ND
40N 90E	07/14/93	ND	0.003	ND	ND	ND

Table 1
Summary of Soil Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 8020 All results in mg/kg			
		TPH-G (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
10N 50E	07/16/93	3.2	ND	ND	ND	0.005
0N 50E	07/16/93	420	0.23	4.0	0.10	150.0
0N 90E	07/16/93	ND	ND	ND	ND	ND
80N 5W	07/19/93	ND	0.005	ND	ND	ND
90N 10W	07/19/93	ND	ND	ND	ND	ND
70N 5W	07/19/93	ND	ND	ND	ND	ND
60N 5W	07/19/93	ND	0.028	0.003	ND	0.007
40N 5W	07/19/93	ND	0.017	ND	ND	ND
25N 5W	07/19/93	ND	0.003	0.005	ND	0.006
0N 18W	07/19/93	ND	ND	ND	ND	ND
70N 5W	07/19/93	ND	ND	0.003	ND	0.003
0N 12W	07/19/93	115	1.25	1.8	0.26	2.50
205N 110E	07/19/93	160	0.014	0.78	1.25	2.65
205N 110E	07/19/93	ND	ND	ND	ND	ND
MW 1-11.5	09/24/93	ND	ND	ND	ND	ND
MW 1-16.5	09/24/93	ND	ND	ND	ND	ND
MW 1-21.5	09/24/93	ND	ND	ND	ND	ND
MW 1-26.5	09/24/93	1.6	ND	ND	ND	0.007
MW 1-31.5	09/24/93	ND	ND	ND	ND	0.004
MW 2-11.5	09/26/93	ND	ND	ND	ND	ND
MW 2-16.5	09/26/93	ND	ND	ND	ND	ND
MW 2-21.5	09/26/93	ND	ND	ND	ND	ND
MW 2-26.5	09/26/93	ND	ND	ND	ND	ND
MW 2-31.5	09/26/93	ND	ND	ND	ND	ND
MW 3-11.5	10/02/93	ND	ND	ND	ND	ND
MW 3-16.5	10/02/93	ND	ND	ND	ND	ND
MW 3-21.5	10/02/93	ND	ND	ND	ND	ND
MW 3-26.5	10/02/93	ND	ND	ND	ND	ND

Table 1
Summary of Soil Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 8020 All results in mg/kg			
		TPH-G (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
MW 3-31.5	10/02/93	ND	ND	ND	ND	ND
MW 4-11.5	10/11/93	ND	ND	ND	ND	ND
MW 4-16.5	10/11/93	ND	ND	ND	ND	ND
MW 4-21.5	10/11/93	ND	ND	ND	ND	ND
MW 4-26.5	10/11/93	ND	ND	ND	ND	ND
MW 4-31.5	10/11/93	ND	ND	ND	ND	ND
MW 4-36.5	10/11/93	ND	ND	ND	ND	0.015

Table 2
Summary of Groundwater Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 602 All results in µg/L			
		TPH-G (µg/L)	Benzene	Toluene	Ethylbenzene	Xylene
001	02/04/92	0.20	ND	ND	ND	ND
Water, 27'	04/21/92	27.5	1.18	1.65	0.265	0.775
School Well	11/11/92	NN	ND	0.001	ND	ND
Well Sample#1	11/11/92	79.0	7.05	2.83	2.30	2.16
Well Sample#2	11/11/92	53.0	8.05	3.1	2.45	1.75
Water MHS-001	11/25/92	ND	ND	ND	ND	ND
Water SRW-002	11/25/92	155	13	7.0	0.9	6.0
SRW-001 Baker Tank	11/30/92	30,900	670	1610	405	1390
SRW-002 Pond	11/30/92	188,000	9970	13,150	330	7300
SRW-003 Baker Tank #2	12/01/92	29,100	970	2240	270	1730
SRW-005 Tank #14	12/03/92	515	ND	0.6	0.3	1.3
SRW-006 Tank #1	12/03/92	2520	ND	4.0	0.4	105
SRW-007 Pond	12/03/92	20,800	1260	2030	81	320
SRW-008 TP-West	12/05/92	ND	ND	ND	ND	ND
SRW-009 TP-NW	12/06/92	ND	ND	ND	ND	ND
SRW-010 TP-SW corner	12/06/92	ND	ND	ND	ND	ND
SRW-011 TP-NE corner	12/06/92	ND	ND	ND	ND	ND
SPW-012 TP-Far West	12/06/92	ND	ND	ND	ND	ND
Tank 2507	01/27/93	ND	ND	ND	ND	ND
Pit Water	01/27/93	650	12	13	ND	15
Water	04/21/93	LEAD ND				
Water	04/21/93	65	0.5	0.6	0.6	2.8
Tank 1	06/22/93	65	9.0	0.9	ND	ND
Tank 4	06/22/93	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 602 All results in µg/L			
		TPH-G (µg/L)	Benzene	Toluene	Ethylbenzene	Xylene
School Well	06/22/93	ND	ND	ND	ND	ND
Tank	07/01/93	ND	ND	ND	ND	ND
Tank	07/19/93	ND	ND	ND	ND	ND
SW corner excavation	07/22/93	2900	40	12	6.5	200
School Well	03/29/94	ND	ND	ND	ND	ND
MW 1-100	03/29/94	ND	ND	ND	ND	ND
MW 2-110	03/29/94	ND	ND	ND	ND	ND
MW 3-120	03/29/94	ND	ND	ND	ND	ND
MW 4-130	03/29/94	ND	ND	ND	ND	ND
MW 5-140	03/29/94	ND	ND	ND	ND	ND
1	07/11/94	ND	ND	ND	ND	ND
2	07/11/94	ND	ND	ND	ND	ND
3	07/11/94	ND	ND	ND	ND	ND
4	07/11/94	ND	ND	ND	ND	ND
5	07/11/94	ND	ND	ND	ND	ND
6	07/11/94	ND	ND	ND	ND	ND
MW 1	06/01/95	ND	ND	ND	ND	ND
MW 2	06/01/95	ND	ND	ND	ND	ND
MW 3	06/01/95	ND	ND	ND	ND	ND
MW 4	06/01/95	ND	ND	ND	ND	ND
MW 5	06/01/95	ND	ND	ND	ND	ND
School Well	06/01/95	ND	ND	ND	ND	ND
Schropp Well	08/16/95	ND	ND	ND	ND	ND
		MO-ND				
SR MW-2	10/30/95	ND	ND	ND	ND	ND
SR MW-3	10/30/95	ND	ND	ND	ND	ND
SR MW-4	10/30/95	ND	ND	ND	ND	ND
SR MW-5	10/30/95	ND	ND	ND	ND	ND
School Well	10/30/95	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Sample Analytical Results

Sample	Date	U.S. EPA Test Method 8015M	U.S. EPA Test Method 602 All results in µg/L			
		TPH-G (µg/L)	Benzene	Toluene	Ethylbenzene	Xylene
MW 2	04/07/96	ND	ND	ND	ND	ND
MW 3	04/07/96	ND	ND	ND	ND	ND
MW 4	04/07/96	ND	ND	ND	ND	ND
MW 5	04/07/96	ND	ND	ND	ND	ND
Schropp Water Well	08/25/95	ND	ND	ND	ND	ND
SR MW-1	03/06/02	ND	ND	ND	ND	ND
SR MW-2	03/06/02	ND	ND	ND	ND	ND
SR MW-3	03/06/02	DRY				
SR MW-4	03/06/02	ND	ND	ND	ND	ND
SR MW-5	03/06/02	ND	ND	ND	ND	ND
School Well	03/06/02	ND	ND	ND	ND	ND

Table 3- Tabulation of Monitoring Well Construction Details

Monitoring Well	Top of Casing (feet, mean sea level)	Screen Interval (feet below ground surface)	Total Depth (feet)
SR- MW-1			
SR- MW-2			
SR- MW-3			
SR- MW-4			
SR- MW-5			

**TABLE 5 - CHECKLIST OF REQUIRED DATA
FOR NO FURTHER ACTION REQUESTS AT UNDERGROUND TANK SITES**

Site Name and Location: Schropp Ranch, 3880 Mountain House Road, Byron, Alameda County, California	
<input type="checkbox"/> 1. Distance to production wells for municipal, domestic, agriculture, industry and other uses within 2000 feet of the site;	Nearest water supply well is <u>400.00</u> ft.
<input checked="" type="checkbox"/> 2. Site maps, to scale, of area impacted showing locations of former and existing tank systems, excavation contours and sample locations, boring and monitoring well elevation contours, gradients, and nearby surface waters, buildings, streets, and subsurface utilities;	See Exhibits 2, 4 & 6.
<input checked="" type="checkbox"/> 3. Figures depicting lithology (cross section), treatment system diagrams;	See Exhibits 7, 8 & 9.
<input checked="" type="checkbox"/> 4. Stockpiled soil remaining on-site or off-site disposal (quantity);	All soil remediated to non-detection on site.
<input checked="" type="checkbox"/> 5. Monitoring wells remaining on-site, fate;	All monitoring wells to be abandoned.
<input checked="" type="checkbox"/> 6. Tabulated results of all groundwater elevations and depths to water;	See Table 3.
<input checked="" type="checkbox"/> 7. Tabulated results of all sampling and analyses: <input checked="" type="checkbox"/> Detection limits for confirmation sampling <input checked="" type="checkbox"/> Lead analyses	No Lead present. Analytical Reports: See Appendix 7 (soil), & Appendix 8 (water).
<input checked="" type="checkbox"/> 8. Concentration contours of contaminants found and those remaining in soil and groundwater, and both on-site and off-site: <input checked="" type="checkbox"/> Lateral and <input checked="" type="checkbox"/> Vertical extent of soil contamination <input type="checkbox"/> Lateral and <input type="checkbox"/> Vertical extent of groundwater contamination	See Exhibits 7, 8 & 9.
<input checked="" type="checkbox"/> 9. Zone of influence calculated and assumptions used for subsurface remediation system and the zone of capture attained for the soil and groundwater remediation system;	Not applicable.
<input checked="" type="checkbox"/> 10. Reports / information <input checked="" type="checkbox"/> Well and boring logs <input checked="" type="checkbox"/> Unauthorized Release Form <input checked="" type="checkbox"/> PAR <input type="checkbox"/> QMRs (Dates) Reports <input type="checkbox"/> Other (report name) <input checked="" type="checkbox"/> FRP	
<input checked="" type="checkbox"/> 11. Best Available Technology (BAT) used or an explanation for not using BAT;	Over-excavation of contaminated soil.
<input checked="" type="checkbox"/> 12. Reasons why background was/is unattainable using BAT;	Not applicable.
<input checked="" type="checkbox"/> 13. Mass balance calculation of substance treated versus that remaining;	Not applicable.
<input checked="" type="checkbox"/> 14. Assumptions, parameters, calculations and model used in risk assessments, and fate and transport modeling;	Not applicable.
<input checked="" type="checkbox"/> 15. Rationale why conditions remaining at site will not adversely impact water quality, health, or other beneficial uses; and	Source removed, remediated and no site waters impacted.
<input checked="" type="checkbox"/> 16. WET or TCLP results	Not applicable.
By: SGM	Comments:
Date: 04/09/2003	Approximately 10 cubic yards of hydrocarbon contaminated soil left in ground beneath house. No water contamination indicated from monitoring.

1	Unauthorized Release Report
2	Aerial Photographs of Property
3	Regulatory Agency Records Check
4	Health and Safety Plan
5	Soil and Groundwater Sampling Protocol
6	Soil Boring/Groundwater Monitoring Well Logs
7	Soil Sample Analytical Laboratory Reports
8	Groundwater Sample Analytical Laboratory Reports
9	Groundwater Surface Contour Maps
10	Waste Water Discharge Permits and AQMD Permits

APR 27 1992

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

FOR LOCAL AGENCY USE ONLY
 I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.

REPORT DATE: 4/27/02

CASE #

SIGNED: _____ DATE: _____

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: _____ PHONE: (916) 372-5615 SIGNATURE: _____

REPRESENTING: OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER
 COMPANY OR AGENCY NAME: _____
 ADDRESS: 4200 S. ... STREET CITY STATE ZIP

RESPONSIBLE PARTY: NAME: _____ CONTACT PERSON: _____ PHONE: (916) 372-5515
 ADDRESS: 12 ... STREET CITY STATE ZIP

SITE LOCATION: FACILITY NAME (IF APPLICABLE): _____ OPERATOR: _____ PHONE: (916) 372-5515
 ADDRESS: 3280 ... STREET CITY COUNTY STATE ZIP

IMPLEMENTING AGENCIES: LOCAL AGENCY: _____ AGENCY NAME: _____ CONTACT PERSON: _____ PHONE: (530) 271-9320
 REGIONAL BOARD: _____ PHONE: ()

SUBSTANCES INVOLVED: NAME: _____ QUANTITY LOST (GALLONS): UNKNOWN UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 4/27/02 HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING MISMANAGE CONDITIONS
 TANK TEST TANK REMOVAL OTHER
 DATE DISCHARGE BEGAN: UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEEDURE
 OTHER
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: _____

SOURCE/CAUSE: SOURCE OF DISCHARGE: TANK LEAK UNKNOWN OVERFILL RUPTURE/FAILURE SPILL
 PIPING LEAK OTHER CORROSION UNKNOWN OTHER

CASE TYPE: CHECK ONE ONLY
 UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY
 NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION
 LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST-CLEANUP MONITORING IN PROGRESS
 REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY

REMEDIAL ACTION: CHECK APPROPRIATE ACTION(S):
 EXCAVATE & DISPOSE (ED) REMOVE FREE PHASE (RF) ENHANCED BIO DEGRADATION (EB)
 CAP SITE (CS) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (PT) REPLACE SUPPLY (RS)
 CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HL) VENT SOIL (VS)
 VACUUM EXTRACT (VE) OTHER (OT)

COMMENTS: 5300 ...
 ...

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

1 of 3

II, III

Send to As Inspector

Site ID # _____ Site Name Shopp Property Today's Date 12-1-92

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 3880 Mountain House Road

City Bayard Zip 94514 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER 40x60
- ___ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks sig mt 8-10 photos taken (Pet is 25 feet deep)

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OnSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23) 530

- ___ 1. Permit Application 25284 (H&S)
- ___ 2. Pipeline Leak Detection 25292 (H&S)
- ___ 3. Records Maintenance 2712
- ___ 4. Release Report 2651
- ___ 5. Closure Plans 2670
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Groundwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/groundwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank testing
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other _____
- ___ 7. Precs Tank Test 2643
 - Date: _____
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing 2646
- ___ 10. Ground Water. 2647
- ___ 11. Monitor Plan 2632
- ___ 12. Access. Secure 2634
- ___ 13. Plans Submit 2711
 - Date: _____
- ___ 14. As Built 2635
 - Date: _____

Comments: (illegally)
On site for investigation of removed
U.S.T. on worker's farm. Following
contact with Mrs. Shovman a closure plan
was submitted to this office. The
closure included sampling of area
and removal of any possible contaminants
soil. Upon arrival for investigation
there appears to be contamination
exists at the site. The site is next
to a domestic well (photographs taken
on 1/1/92) there is a school yard. 75' from
the enclosed Pet. (Drove with the
administrator of the Mountain House School
(Delores Kuhn) and advised her of the possibility
of contaminated water in the domestic well
they are on bottled water also and
will utilize the bottled water of their
several photographs also taken of
the area. Rich Gilmore of the BSM Water
district is also at the site.

note: Water encountered in area at 25 feet

Contact: STEPHEN G. MUIR Inspector: Brian P. Olson
 Title: MANAGER GEOTECHNICAL SERVICES Signature: Ron Owsen
 Signature: Stephen G. Muir

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

Page 2 of

II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25903.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(a)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25536

III. UNDERGROUND TANKS (Title 23)

- 1. Permit Application 25284 (H&S)
- 2. Pipeline Leak Detection 25292 (H&S)
- 3. Records Maintenance 2712
- 4. Release Report 2651
- 5. Closure Plans 2670
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time sols
 - 3) Daily Vadose
One time sols
Annual tank test
 - 4) Monthly Groundwater
One time sols
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/groundwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other
- 7. Precs Tank Test 2643
Date:
- 8. Inventory Rec. 2644
- 9. Sol Testing 2646
- 10. Ground Water 2647
- 11. Monitor Plan 2632
- 12. Access. Secure 2634
- 13. Plans Submit 2711
Date:
- 14. As Built 2635
Date:

Site ID # _____ Site Name Schools four Today's Date 1/22/92

Site Address 3880 Mountain House Road

City _____ Zip 94 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks also multiple

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Required actions

① Submit a workplan, indicating the scope of work, in investigating the release of Hazardous Materials. This workplan should follow the "In-Response Board Recommendations and Appendix A"

② Provide this office with an unaltered Release form (received)

③ Provide this office with a sampling plan for the domestic wells in the area indicating the possible levels of contamination including the adjacent school. (immediately)

④ remove and cover contaminated soil and place on Dumpster that has already been removed

⑤ discontinue further excavation until a workplan is received by this office.

⑥ discontinue use of domestic well until proper unaltered levels of contamination below State DOTIS standards.

II, III

Contact: STEPHEN G. NUIR

Title: MANAGER Geotechnical Services Inspector: Chris P. Olive

Signature: Stephen G. Nuir Signature: Chris P. Olive

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

white -env.health
yellow -facility
pink -files

3 of 3 II, III

Site ID # _____ Site Name Schroy Properties Today's Date 12/22/99
Site Address 3880 Moritan House Road

City _____ Zip 94 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks UST removal investigation

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

laboratory analysis of
 (1) submit env. samples to this office for soil/water taken at the site and in the surroundings
 (2) Complete any excavations required for the structural integrity/stability of the excavation.
 (3) Provide safety fence, and otherwise secure area.

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 25703
- 2. Bus. Plan Stk. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(a)
- 13. Implement Sch. Req'd? (Y/N) _____
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- 1. Permit Application 25284 (H&S)
- 2. Pipeline Leak Detection 25292 (H&S)
- 3. Records Maintenance 2712
- 4. Release Report 2631
- 5. Closure Plans 2670
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Gndwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____
- 7. Precip Tank Test 2643
Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water 2647
- 11. Monitor Plan 2632
- 12. Access, Secure 2634
- 13. Plans Submit 2711
Date: _____
- 14. As Built 2635
Date: _____

Rev 8/88

Contact: STEPHEN G. MUIR

Title: MANAGER GEOTECHNICAL SERVICES Inspector: Ben P. Olson

Signature: Stephen G. Muir Signature: Kon Oswald

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 PHONE NO. 415/271-4320

*Regarding the Underground Tank
 Provide manifest following
 any litigation concerns
 the U.S.F.*

Project Specialist (print) Byron P. Oliva

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
 470 - 27th Street, Third Floor
 Oakland, CA 94612
 Telephone: (415) 874-7237

If these plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is new construction or alteration of any required building permits or construction.

One copy of these accepted plans must be available to all contractors and craftsmen involved with the removal.

Any change or alteration of these plans or specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- ✓ Removal of Tank and Piping
- ✓ Sampling
- ✓ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE PERMITS.

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name Agriculture Industries Inc.
 Business Owner Richard Jones
2. Site Address 3880 Mountain House Road, ☉
 City Byron Zip _____ Phone None
3. Mailing Address 3002 Beacon Blvd
 City West Sacramento Zip 95691 Phone 916-372-5595
4. Land Owner ^{R61} Manfred Schropp
 Address 3002 Beacon Blvd City, State West Sacramento, CA 95691 Zip _____
5. Generator name under which tank will be manifested Manfred Schropp

EPA I.D. No. under which tank will be manifested _____

TANK TO REMAIN ON-SITE FOR LITIGATION PURPOSES.

6. Contractor Kent S. Murray and Associates
Address 5051 Lexington Circle
City Loomis, CA 95650 Phone 916-652-0458
License Type A HAZ ID# 631513

7. Consultant WZI Inc.
Address 4800 Easton Drive, Suite 114
City Bakersfield, CA 93309 Phone 805-326-1112

8. Contact Person for Investigation
Name Stephen G. Muir Title Site Manager, Geologist
Phone (209)-339-8791 or (805) 326-1112

9. Number of tanks being closed under this plan 1
Length of piping being removed under this plan unknown
Total number of tanks at facility 1

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled **
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter
Name TO BE DETERMINED EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

b) Product/Residual Sludge/Rinsate Disposal Site
Name TO BE DETERMINED EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name TO BE DETERMINED EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

d) Tank and Piping Disposal Site

Name TO BE DETERMINED EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Experienced Sample Collector

Name Stephen G. Muir California Registered Geologist #3769
Company WZI Inc. California Registered Environmental Assessor 191
Address 4800 Easton Drive Suite 114
City Bakersfield State CA Zip 93309 Phone 805-326-1112

12. Laboratory

Name Sherwood Labs
Address 8071 North Lander Ave.
City Hilmar State CA Zip 95324
State Certification No. DHS Certification # 1400

13. Have tanks or pipes leaked in the past? Yes [] No [] Unknown (X)

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

TO BE DETERMINED

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
550 gallon	Unknown	Soil	Below and adjacent to former tank site Estimated 3 to 5 samples total.

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) Will be about 500 yd ³	Sampling Plan Sampling in accordance with LUFT manual or as appropriate to adequately define level of hydrocarbon contaminated soil that is excavated.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
Unk fuel	GCFID (5030) TPH-G 8020 BTX&E		1 ppm 0.05 ppm

17. Submit Site Health and Safety Plan (See Instructions)
See Attached Sheet.

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Fund Policy #425731-91

19. Submit Plot Plan (See Instructions) See Attached Sheet

20. Enclose Deposit (See Instructions) Enclosed

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) Kent S. Murray and Associates

Signature *Kent S. Murray*

Date April 4, 1992

Signature of Site Owner or Operator

Name (please type) Richard Jones

Signature *Richard G. J.*

Date 5 April 1992



AGRICULTURE INDUSTRIES, INC.

P.O. Box 1076, 3002 Beacon Blvd., West Sacramento, California 95691

(916) 372-5595 FAX: (916) 372-5615

March 2, 1992

Mr. Steve Muir
21030 North Davis Road
Lodi, California 95242

Dear Steve:

Re: Site Assessment 3880 Mountain House Road
Tracy, California (Schropp Farm)

Per our telephone conversation this afternoon, enclosed is a Schropp Farm check in the amount of \$459.00. This is for the permit for the excavation of the tank.

Please let me know when you need anything further.

Best regards,

Diane L. Hemminghaus
Executive Secretary

dlh

Enclosure

SCHROPP FARM
P. O. BOX 1076 372-5595
WEST SACRAMENTO, CA 95691

0769

32 19 92

11-57
1210

PAY TO THE
ORDER OF

Alameda County

\$ 459 00/100

THE SUM 459 DOLLARS AND 00 CENTS

DOLLARS



First Interstate Bank
of California #659
Tenth and K Streets
P.O. Box 1228
Sacramento, CA 95806-1228

James F. Hennigan, Treasurer
Michael Schropp

FOR

Frank Leonard Smith

⑆ 1 2 1000578⑆ 659916978⑆ 0769 11

⑆ 1000578⑆ 659916978⑆ 0769 11

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

August 19, 1992

Richard G. Jones
Agriculture Industries Inc.,
P.O. Box 1076, 3002 Beacon Blvd.,
West Sacramento, CA 95691

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Subject: Schropp Ranch, 3880 Mountain House Rd., Byron CA

Dear Mr. Jones:

This office is in receipt of the "Site Assessment and Phased Remediation Work Plan", dated June, 1992, and submitted by WZI Inc(WZI), your consultant of record. Thank you for the prompt submission of the document.

Upon review of the workplan, there are several points in need of clarification prior to concurrence by the Alameda Division of Hazardous Materials:

- 1) This report is a "phased plan", that does not contain all the steps required to complete the subsurface investigation. It will be necessary to submit a more detailed work plan upon completion of the initial excavation and sampling rounds.
- 2) The soil may be characterized by and Organic Vapor Analyzer(OVA), however the final plan for sampling the stockpiled soil remove from the pit must include laboratory analysis completed by a State Certified Laboratory.
- 3) Please indicate the soil strata in the area and provide this office with the hydrogeologic setting for the area.
- 4) Upon completion of the preliminary phase of soil removal, include a plan for the placement of the monitoring wells.
- 5) Submit copies of the BAAQMD (Air Quality District) permits for soil aeration to this office.
- 6) The soil sampling plan calls for the use of "duct tape" to seal the ends of the sampling tubes after the soil has been removed from the surface. There is evidence that the duct tape may cause a "false-positive" reading for Toluene, one of the constituents of petroleum products. Please provide an alternate means of sealing the sample collection tubes.

page 2 of 2

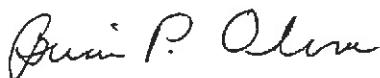
7) The "Water Remediation Plan", indicates that the water removed from the pit will be discharged onto the surface in and "unlined, upgradient trench, on the property where it will be allowed to infiltrate, or it will be applied to the soil remediation pile". You must either obtain a NPDES permit (National Pollutant Discharge Elimination System), or a "Discharge Variance" from the Regional Water Quality Control Board prior to any such discharge onto the surface.

Upon completion of an addendum clarifying the above issues stated, this office will concur with the work plan and you may commence site work.

Please give this office forty-eight (48) hours notice prior to beginning any work at the site

If you have any questions please contact this office at (510) 271-4320.

Sincerely,



Brian P. Oliva, REHS
Hazardous Material Specialist

cc: Steve Muir, WZI. Inc., 21030 N. Davis Rd., Lodi, Ca 95242
Gordon Boggs, CVRWQCB, Sacramento, CA
L.V.

Facsimile brand
Fax Transmittal Memo 7672

To Steve Muir
Company WZ1
Telephone # 805-322-0191
Comments

100% Recycled Paper
50% Post Consumer Waste

No. of Pages 1

Today's Date 1/19/93 Time

From Karla Sanders

Company Earthtec Ltd

Location Dept. Charge

Fax # 916-726-5263 Telephone #

Original Disposition Destroy Return Call for pickup



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

(510) 484-2600 x233

510 462-3914

JAN 18 REC'D

14 January 1993

293E 10K1

Earthtec
1830 Vernon Street, Suite 7
Roseville, CA 95678

Gentlemen:

We have not received the report required by drilling permit 92562. This permit was issued to you on 6 November 1992 for the destruction of well 2S/3E 6F1 at 3880 Mountain House Road near Livermore for Agriculture Industries. Notice of start of work was given for 12 November 1992.

Please submit the required destruction report or a letter explaining why the report cannot be submitted at this time. The report should include a description of methods and materials used to destroy the well, location sketch, date of destruction and permit number. Please submit your report or letter so that it is received within ten days of the date of this letter.

If your report or letter is not received within the ten-day period, your project will not be in compliance with Alameda County Ordinance 73-68, and we may restrict the issuance of future permits to your firm.

If you have any questions concerning this matter, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Craig A. Mayfield
Water Resources Engineer III

WH:mmm

Fax Transmittal Memo 7672

10/11/92 Fax Transmittal Memo



No. of Pages 1

Today's Date 1/19/93 Time

To Steve Muir
Company WZ1

From Karla Sanders
Company Earthtec Ltd
Location Dept. Charge

Fax # 805-326-0191 Telephone #

Fax # 916-786-5263 Telephone #

Original Disposition: Destroy Return Call for pickup



492126

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

14 January 1993

JAN 18 REC'D

Earthtec
1830 Vernon Street, Suite 7
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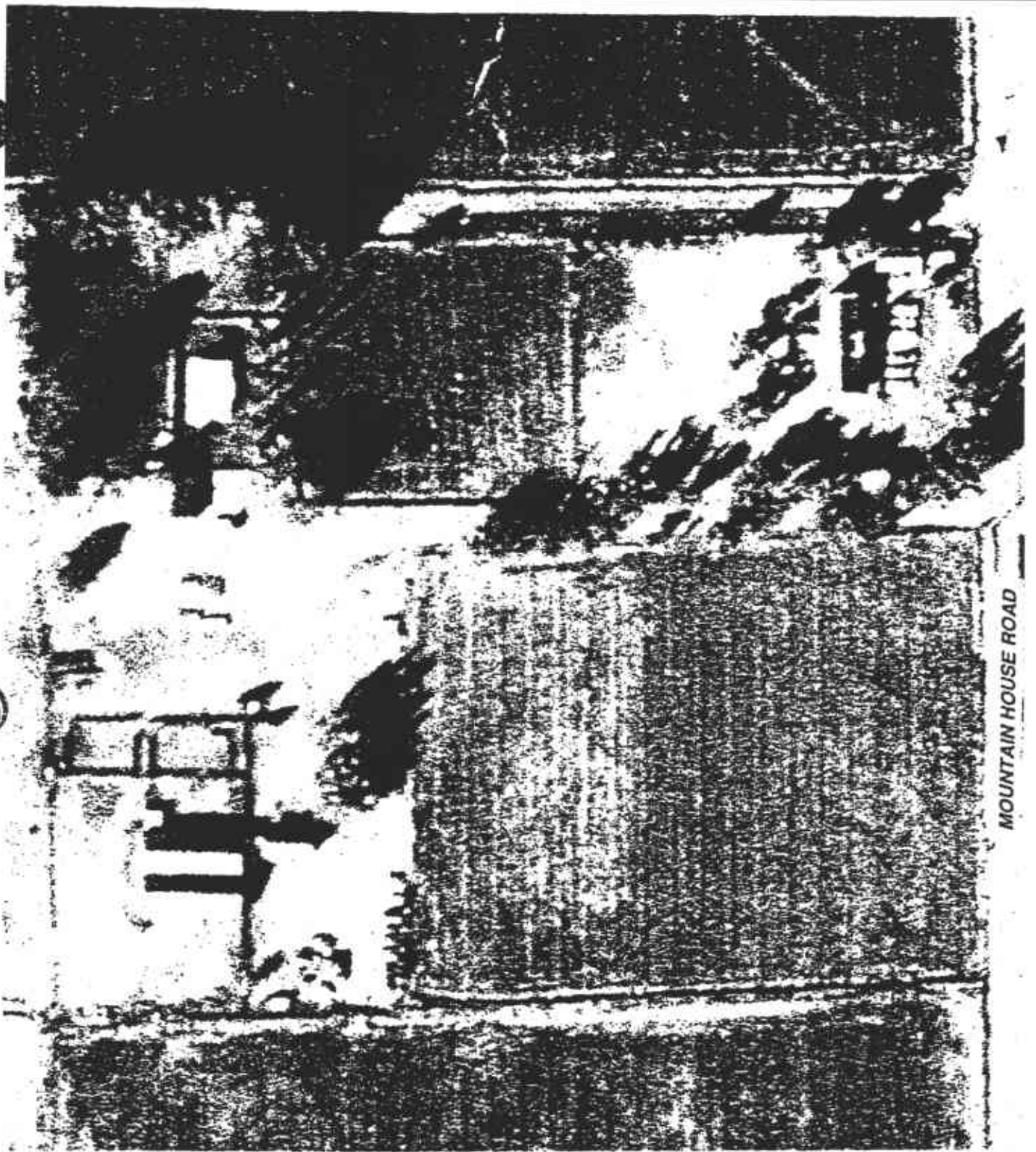
If you have any questions concerning this matter, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Craig A. Mayfield
Water Resources Engineer III

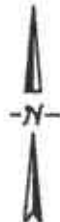
WH:mm



MOUNTAIN HOUSE ROAD

SEC. 6 - T2S / R4E
ALAMEDA COUNTY

OCTOBER 31, 1963



Scale in Feet

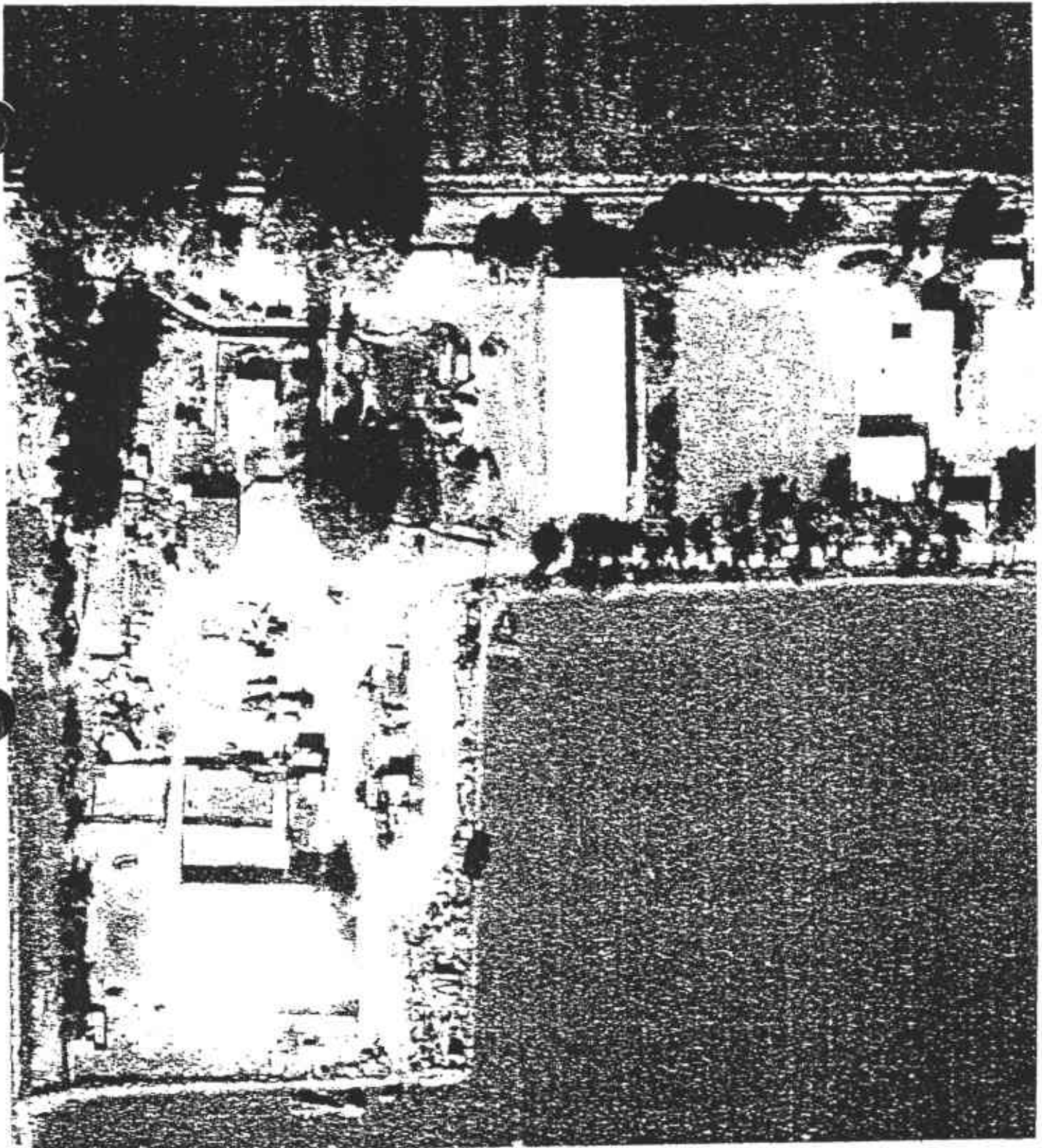
Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

Aerial Photograph—1963

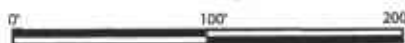
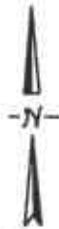
April 2002

Appx 2-1



SEC. 6 - T2S / R4E
ALAMEDA COUNTY

NOVEMBER 11, 1975



Scale in Feet

Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

Aerial Photograph--1975

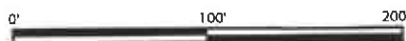
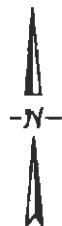
April 2002

Appx 2-2



SEC. 6 - T2S / R4E
ALAMEDA COUNTY

AUGUST 25, 1987



Scale in Feet

Stephen G. Muir
Consulting Geologist & Geophysicist

Agriculture Industries, Inc.
Schropp Ranch

Aerial Photograph--1987

April 2002

Appx 2-3

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

WZI Client and Project: AG INDUSTRIES

Project No: _____

Person Interviewed: DON HOLCK

Date: 6/20/92

Company: DON HOLCK FARMS

Address: 15638 W. VON SOSTEN RD. TRACY CA, 95376

Interviewed by: _____

1. Affiliation of interviewee with project or property being evaluated and approximate dates of knowledge of operations:

RENTED PROPERTY SINCE 1980

2. What was the past usage or operations history of the property as best you are aware of _____

FARMING OF MISC FIELD CROPS

3. Are you presently, or have you ever used or stored any regulated hazardous materials on the property? If you please explain.

NO

4. Do you have knowledge of any person or persons in the past who have ever stored any regulated hazardous materials on the property?

NO

5. Are you presently, or have you ever generated/stored any hazardous wastes on the property?

NO

6. Are you (have you ever been) a United States Environmental Protection Agency registered hazardous waste generator?

NO

7. Have you ever filed a 2185 Material Data Safety Sheet plan

NO

8. Are you aware of any known or suspected environmental problem involving this property?

YES - FUEL TANK LEAK

9. Are you aware of any known or suspected environmental problem on any of the adjacent properties?

NO

10. To your knowledge has there ever been an investigation of the property or adjacent properties for:

Hazardous Materials: NO

Hazardous Wastes: NO

Spills, Leaks, or Any Type of Pollution: NO

Known or Suspected Environmental Problems NO

11. Has there ever been any communication (to or from) the United States Environmental Protection Agency or any other federal governmental agency regarding environmental affairs of the property? _____

NO

12. Has there ever been any communication (to or from) the California Regional Water Quality Control Board, California Environmental Protection Agency, California Solid Waste Management Board, California Department of Health Services or any other California State Agency regarding environmental affairs of the property? _____

NO

13. Has there ever been any communication (to or from) the County, City, or Local Air Pollution Control District, Environmental Health Department, Fire Department, Environmental Protection Agency, or any other regulatory or governmental agency? _____

NO

14. Are there or to your knowledge has there ever been materials used or generated on the property (including wastes) which require special transportation (delivery or removal) other than regular parcel/mail services or regular trash removal?

NO

15. Have there ever been any materials on the property to your knowledge that exhibit any of the following characteristics?

Explosive NO

Flammable FUEL

Corrosive (acids, bases, oxidizers, etc.) NO

Reactive NO

Compressed (gases) NO

Radioactive NO

Poisonous NO

Irritating (fumes, dusts, smoke, powders, smells, etc.)

NO

Etiological (disease causing biological organisms) NO

Toxic (hazardous to human health) NO

16. Are there any groundwater wells located on the property? YES

17. Does the property have a septic tank or sewer disposal system? YES

18. Are there any easements through the property? YES - HIGH

VOLTAGE TRANSMISSION LINES - WATER -

BYRON BETHANEY IRR. DIST.

19. Do you have knowledge of any pipelines, utility lines, telephone lines or other buried objects that may be on the property? _____

YES - WATER PIPELINE

TELEPHONE LINE ALONG MT HOUSE RD

20. Do you have any knowledge of any past oil and gas related operations on the property? _____

NO

MATERIALS CHECKLIST FOR COMMON CLASSES OF SUBSTANCES

Category	Item	Volume	Location
FUELS	Alcohol	<u>NONE</u>	
	Gasoline	<u>NONE</u>	
	Diesel	<u>NONE</u>	
	Kerosene	<u>NONE</u>	
	Propane	<u>NONE</u>	
OIL/GREASE	Motor Oil	<u>NONE</u>	
	Other Oil	<u>NONE</u>	
	ATF	<u>NONE</u>	
	Grease	<u>NONE</u>	
	Lubricants	<u>NONE</u>	
	Vegetable Oil	<u>NONE</u>	
	Mineral Oil	<u>NONE</u>	
	Soaps	<u>NONE</u>	
	Detergents	<u>NONE</u>	
SOLVENTS	Turpentine	<u>NONE</u>	
	Mineral Spirits	<u>NONE</u>	
	Alcohol	<u>NONE</u>	
	Ether	<u>NONE</u>	
	Carbon Tetrachloride	<u>NONE</u>	

Category	Item	Volume	Location
----------	------	--------	----------

AEROSOLS/FLAMMABLE LIQUIDS

Spray Cans	<u>NONE</u>		
Paints/Inks/Dyes	<u>NONE</u>		

COMPRESSED/BOTTLED GASES:

Hydrogen	<u>NONE</u>		
Oxygen	<u>NONE</u>		
Acetylene	<u>NONE</u>		
Propane	<u>NONE</u>		
Butane	<u>NONE</u>		
Chlorine	<u>NONE</u>		
Carbon Dioxide	<u>NONE</u>		
Air	<u>NONE</u>		

EXPLOSIVE/MUNITIONS

Dynamite	<u>NONE</u>		
Blasting Caps	<u>NONE</u>		
Detonation Cord	<u>NONE</u>		

PESTICIDES/HERBICIDES

	<u>NONE</u>		

FERTILIZERS

Liquid	<u>NONE</u>		
--------	-------------	--	--

Category	Item	Volume	Location
	Solid	NONE	
ACIDS/BASES/OXIDIZERS			
	Chlorine	NONE	
	Peroxide	NONE	
RADIONUCLIDES			
	Liquid	NONE	
	Solid	NONE	
BIOLOGICAL AGENTS		NONE	
POISONS		NONE	
IRRITANTS		NONE	

FACILITIES CHECKLIST FOR COMMON USAGES

ITEM	NUMBER	VOLUME	LOCATION
Underground Storage Tanks		NONE	
Aboveground Storage Tanks		NONE	
Washing/Steam-Cleaning Facilities		NONE	
Sumps/Collection Drains		YES - IRRIGATION	
Materials Storage Areas		NONE	
Waste Storage Areas		NONE	
Other Storage Areas		NONE	
Power Transformers		YES - P.G. + E	
Spray-Painting Equipment		NONE	
Fabrication Equipment *		NONE	
Welding Equipment		NONE	
Other Manufacturing Equipment		NONE	
Other Equipment		NONE	
Other			



**The EDR Radius Map
with GeoCheck[®]**

Schropp Ranch
3880 Mountain House Road
Mountain House, CA 94514

Inquiry Number: 818793.1s

July 23, 2002

***The Source*
For Environmental
Risk Management
Data**

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

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



The EDR Radius Map with GeoCheck[®]

Schropp Ranch
3880 Mountain House Road
Mountain House, CA 94514

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Thank you for your business.
Please contact EDR at 1-800-352-0050
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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

3880 MOUNTAIN HOUSE ROAD
MOUNTAIN HOUSE, CA 94514

COORDINATES

Latitude (North): 37.787300 - 37° 47' 14.3"
Longitude (West): 121.578200 - 121° 34' 41.5"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 625196.2
UTM Y (Meters): 4182962.8

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2437121-G5 CLIFTON COURT FOREBAY, 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:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SHELL OIL COMPNAY - SCHROPP FARMS 3880 MOUNTAIN HOUSE ROAD BYRON, CA	CA SLIC	N/A

DATABASES WITH NO MAPPED SITES

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

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
RCRIS-SQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

AWP..... Annual Workplan Sites

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STATE ASTM STANDARD

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EXECUTIVE SUMMARY

Cal-Sites.....	Calsites Database
CHMIRS.....	California Hazardous Material Incident Report System
Notify 65.....	Proposition 65 Records
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
WMUDS/SWAT.....	Waste Management Unit Database
LUST.....	Leaking Underground Storage Tank Information System
CA BOND EXP. PLAN.....	Bond Expenditure Plan
UST.....	List of Underground Storage Tank Facilities
CA FID UST.....	Facility Inventory Database
HIST UST.....	Hazardous Substance Storage Container Database

FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
Delisted NPL.....	National Priority List Deletions
FINDS.....	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS.....	Hazardous Materials Information Reporting System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
NPL Liens.....	Federal Superfund Liens
PADS.....	PCB Activity Database System
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.....	Cleaner Facilities
CA WDS.....	Waste Discharge System
DEED.....	List of Deed Restrictions

EDR PROPRIETARY HISTORICAL 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.

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EXECUTIVE SUMMARY

STATE ASTM STANDARD

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 is 1 Cortese site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
US BUREAU OF RECLAMATION	MOUNTAIN HOUSE / KELS	1/2 - 1 N	3	7

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 is 1 HAZNET site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U S BUREAU OF RECLAMATION	MOUNTAIN HOUSE / KELS	0 - 1/8 SE	2	6

EXECUTIVE SUMMARY

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U S BUREAU OF RECLAMATION	MOUNTAIN HOUSE / KELS	0 - 1/8 SE	2	6

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
DISCOVERY BAY WEST PROPOSED SCHOOL SITE	Cal-Sites
SAN LUIS & DELTA-MENDOTA WATER AUTHORITY	HAZNET, Cortese
BYRON HOT SPRINGS - BIOSOLIDS	SWF/LF, CA WDS
TERRA GRO/LOS VAQUEROS FARMS LAND APP	SWF/LF
AIRPORT RANCH SLUDGE SPREADING	SWF/LF
MOUNTAIN HOUSE SCHOOL	HAZNET, LUST
JOHN F. SKINNER FISH FACILITY	HIST UST
COPELE RANCH	HIST UST
BETHANY STATION	HIST UST
DELTA MARINE	HAZNET
HECTOR RODAS	HAZNET
US BUREAU OF RECLAMATION	HAZNET
CHEVRON PIPE LINE COMPANY, BRUNS PROPERTY	CA SLIC
DOUBLE J FARM	CONTRA COSTA CO. SITE LIST
MONTERO, STANLEY & CHARLENE	CONTRA COSTA CO. SITE LIST
KRUMLAUD AND COWAN	CONTRA COSTA CO. SITE LIST
AGUIAR, ERNEST	CONTRA COSTA CO. SITE LIST
MOORE FARM	CONTRA COSTA CO. SITE LIST
PERKINS, STERRETT T.	CONTRA COSTA CO. SITE LIST
BORDEN JUNCTION GARAGE	CONTRA COSTA CO. SITE LIST
LIDEN MARINE	CONTRA COSTA CO. SITE LIST
HANSEN, CARL L.	CONTRA COSTA CO. SITE LIST
PAPADAKOS, NICK	CONTRA COSTA CO. SITE LIST
FRMLY (BYRON HARDWARE)	CONTRA COSTA CO. SITE LIST
COPELE RANCH	CONTRA COSTA CO. SITE LIST
CC WATER DISTRICT/OLD RIVER PUMP STN	CONTRA COSTA CO. SITE LIST

EXECUTIVE SUMMARY

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

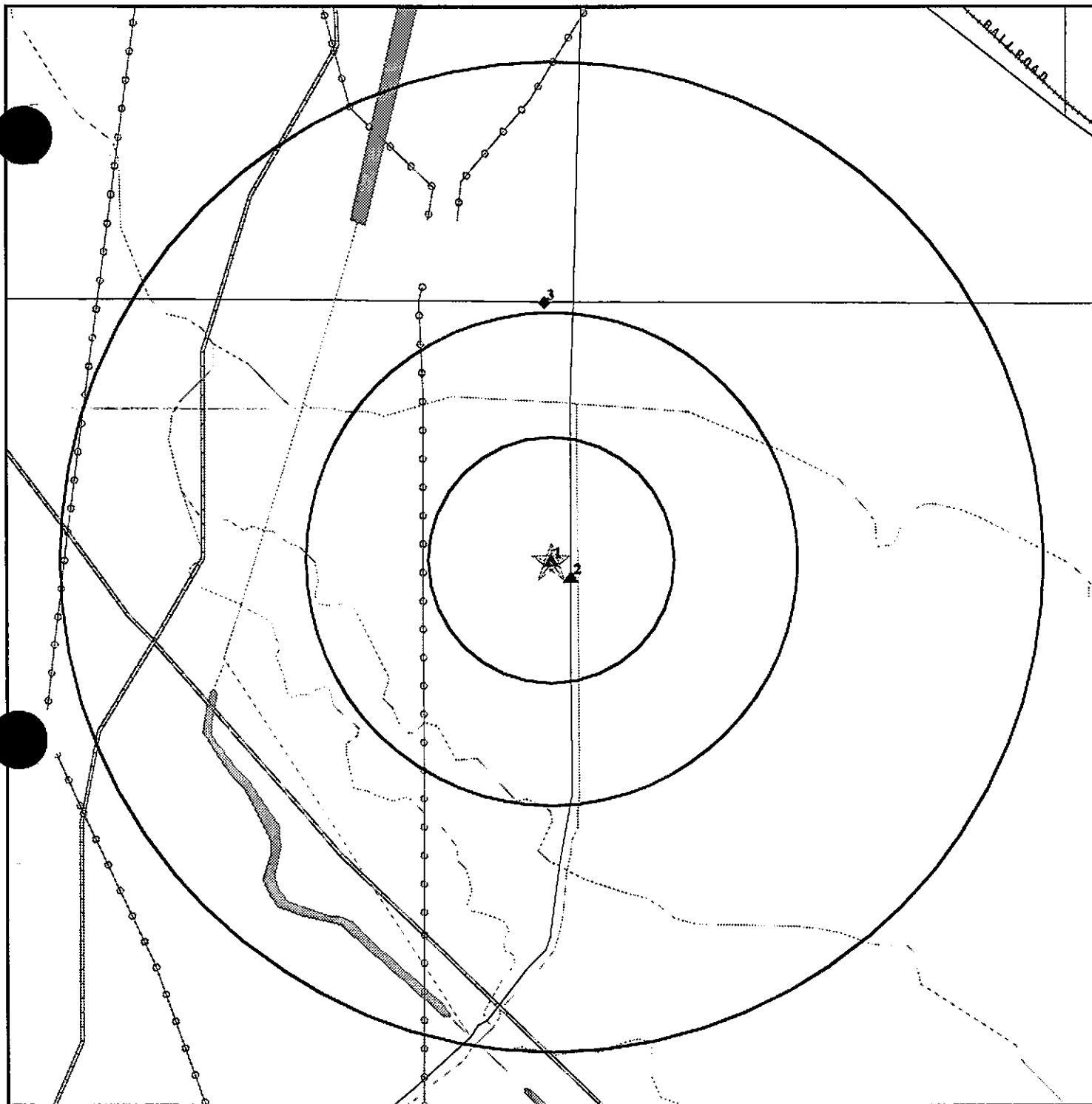
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LIDEN MARINE	CONTRA COSTA CO. SITE LIST
HANSEN, CARL L.	CONTRA COSTA CO. SITE LIST
PAPADAKOS, NICK	CONTRA COSTA CO. SITE LIST
FRMLY (BYRON HARDWARE)	CONTRA COSTA CO. SITE LIST
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DOUBLE J FARM	CONTRA COSTA CO. SITE LIST
MONTERO, STANLEY & CHARLENE	CONTRA COSTA CO. SITE LIST
KRUMLAUD AND COWAN	CONTRA COSTA CO. SITE LIST
AGUIAR, ERNEST	CONTRA COSTA CO. SITE LIST
MOORE FARM	CONTRA COSTA CO. SITE LIST
PERKINS, STERRETT T.	CONTRA COSTA CO. SITE LIST
BORDEN JUNCTION GARAGE	CONTRA COSTA CO. SITE LIST
LIDEN MARINE	CONTRA COSTA CO. SITE LIST
HANSEN, CARL L.	CONTRA COSTA CO. SITE LIST
PAPADAKOS, NICK	CONTRA COSTA CO. SITE LIST
FRMLY (BYRON HARDWARE)	CONTRA COSTA CO. SITE LIST
COPELE RANCH	CONTRA COSTA CO. SITE LIST
CC WATER DISTRICT/OLD RIVER PUMP STN	CONTRA COSTA CO. SITE LIST

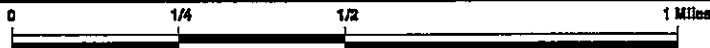
OVERVIEW MAP - 818793.1s - Earthtec Ltd.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▧ Landfill Sites

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▧ 500-year flood zone

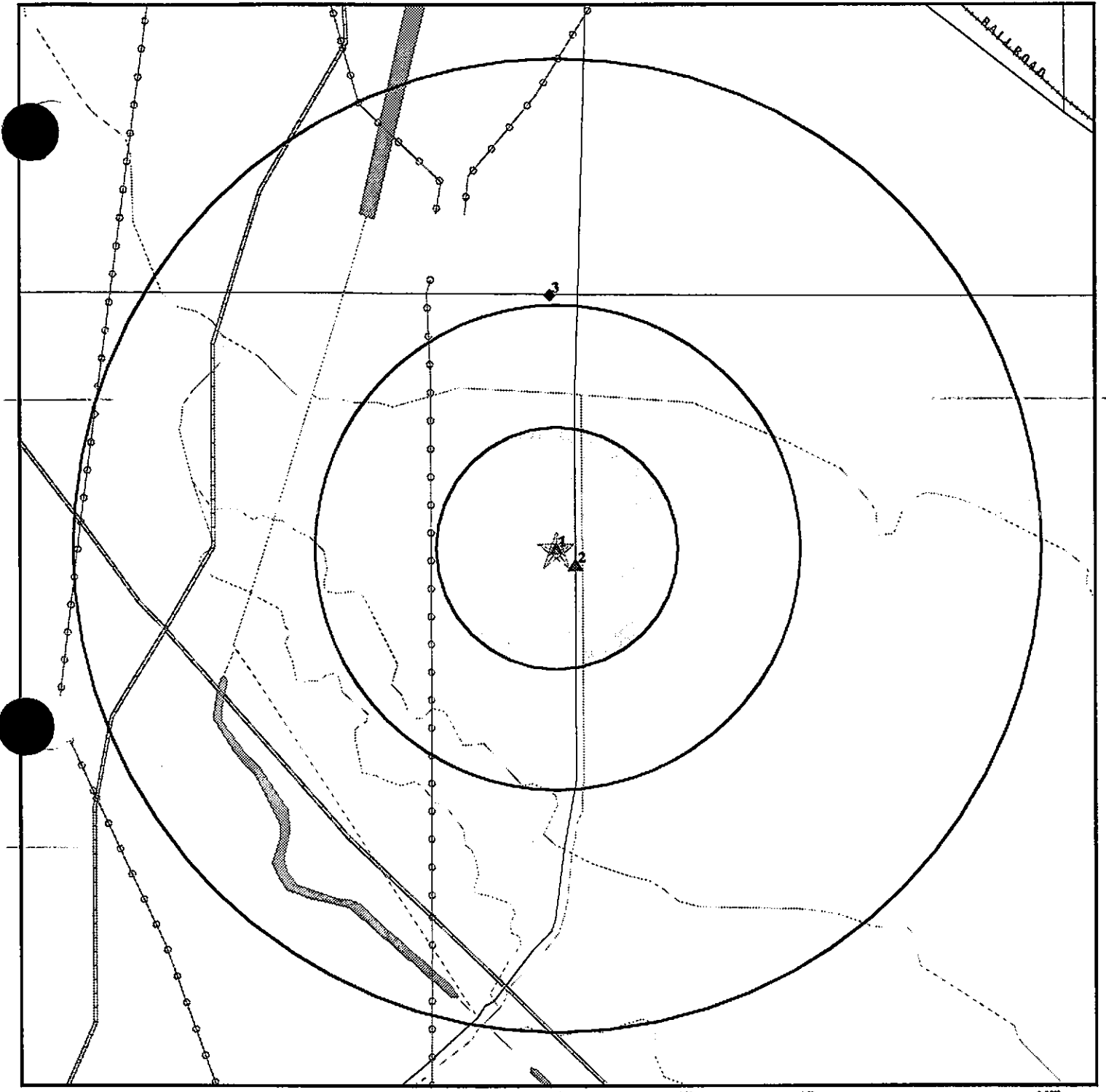
▧ Areas of Concern



TARGET PROPERTY: Schropp Ranch
ADDRESS: 3880 Mountain House Road
CITY/STATE/ZIP: Mountain House CA 94514
LAT/LONG: 37.7873 / 121.5782

CUSTOMER: Earthtec Ltd.
CONTACT: Paul Fry
INQUIRY #: 818793.1s
DATE: July 23, 2002 2:22 pm

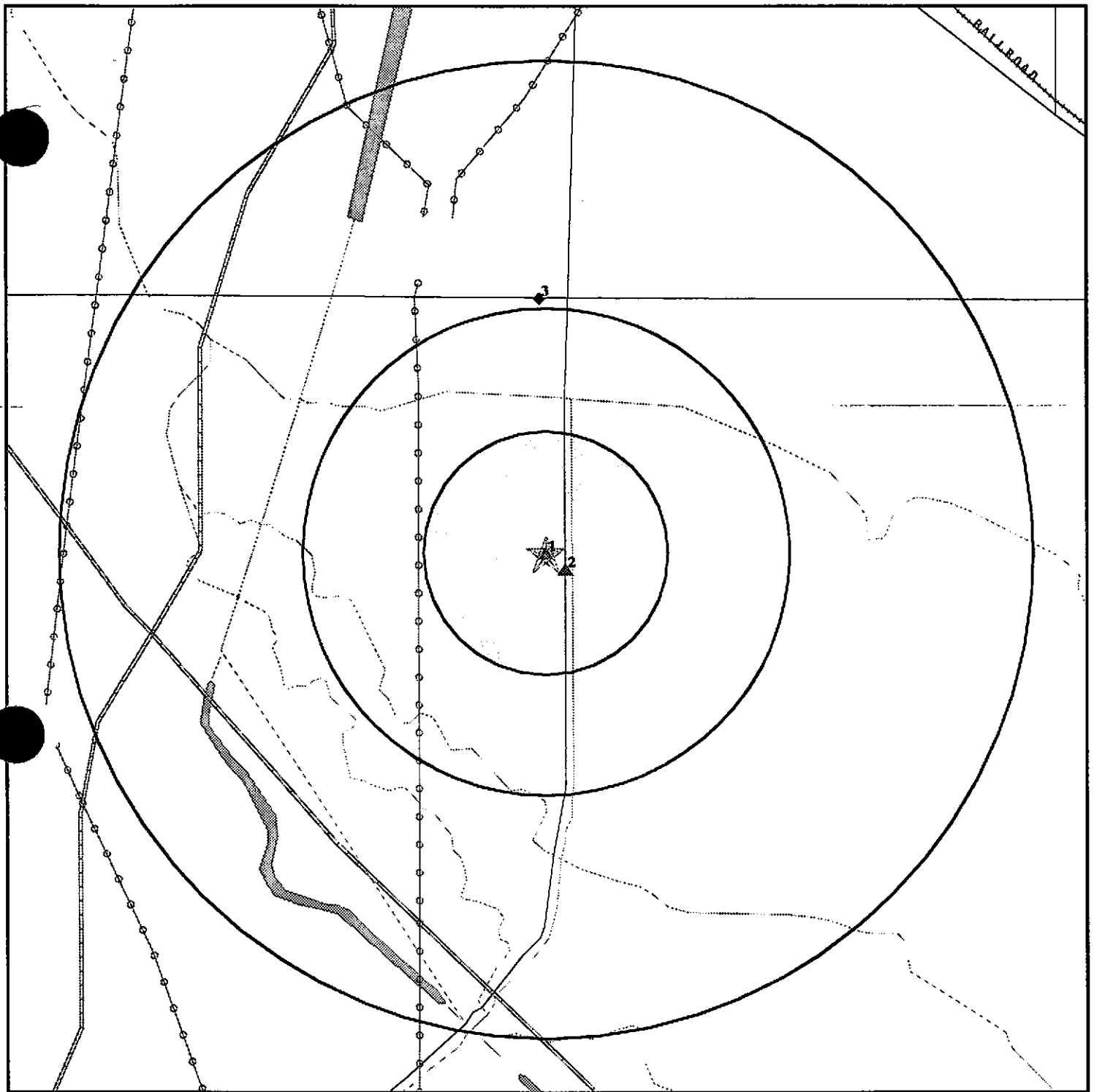
OVERVIEW MAP - 818793.1s - Earthtec Ltd.



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▩ Landfill Sites
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▩ 500-year flood zone
- ▣ Areas of Concern

TARGET PROPERTY:	Schropp Ranch	CUSTOMER:	Earthtec Ltd.
ADDRESS:	3880 Mountain House Road	CONTACT:	Paul Fry
CITY/STATE/ZIP:	Mountain House CA 94514	INQUIRY #:	818793.1s
LAT/LONG:	37.7873 / 121.5782	DATE:	July 23, 2002 2:22 pm

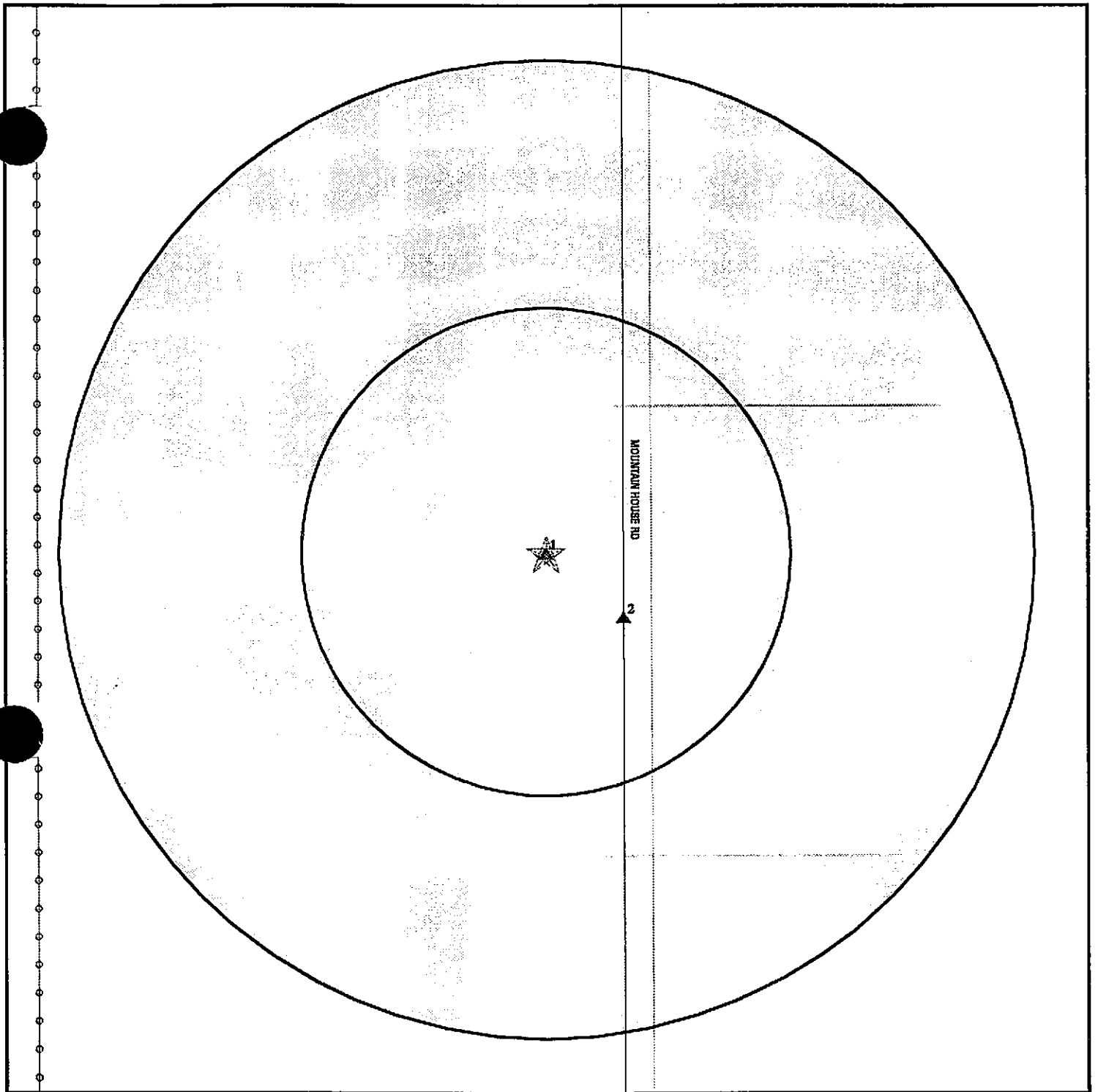
OVERVIEW MAP - 818793.1s - Earthtec Ltd.



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▧ Landfill Sites
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▧ 500-year flood zone
- ▣ Areas of Concern

TARGET PROPERTY:	Schropp Ranch	CUSTOMER:	Earthtec Ltd.
ADDRESS:	3880 Mountain House Road	CONTACT:	Paul Fry
CITY/STATE/ZIP:	Mountain House CA 94514	INQUIRY #:	818793.1s
LAT/LONG:	37.7873 / 121.5782	DATE:	July 23, 2002 2:22 pm

DETAIL MAP - 818793.1s - Earthtec Ltd.



☆ Target Property

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

◆ Sites at elevations lower than the target property

▲ Coal Gasification Sites

⊕ Sensitive Receptors

▨ National Priority List Sites

▨ Landfill Sites

⚡ Power transmission lines

⚡ Oil & Gas pipelines

▨ 100-year flood zone

▨ 500-year flood zone

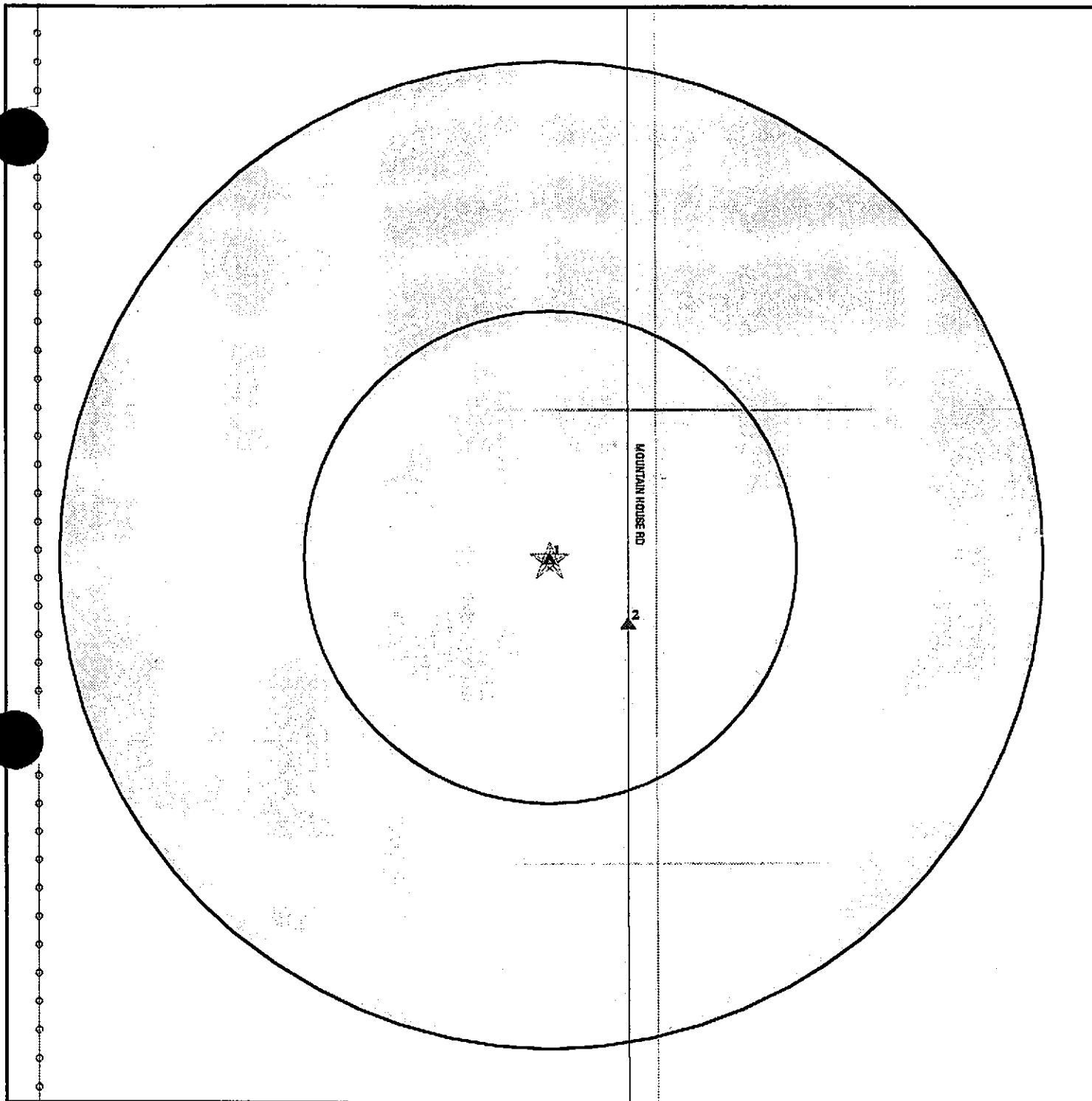
▨ Areas of Concern



TARGET PROPERTY: Schropp Ranch
ADDRESS: 3880 Mountain House Road
CITY/STATE/ZIP: Mountain House CA 94514
LAT/LONG: 37.7873 / 121.5782

CUSTOMER: Earthtec Ltd.
CONTACT: Paul Fry
INQUIRY #: 818793.1s
DATE: July 23, 2002 2:22 pm

DETAIL MAP - 818793.1s - Earthtec Ltd.



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ✦ Sensitive Receptors
- ▨ National Priority List Sites
- ▩ Landfill Sites

- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▩ 500-year flood zones

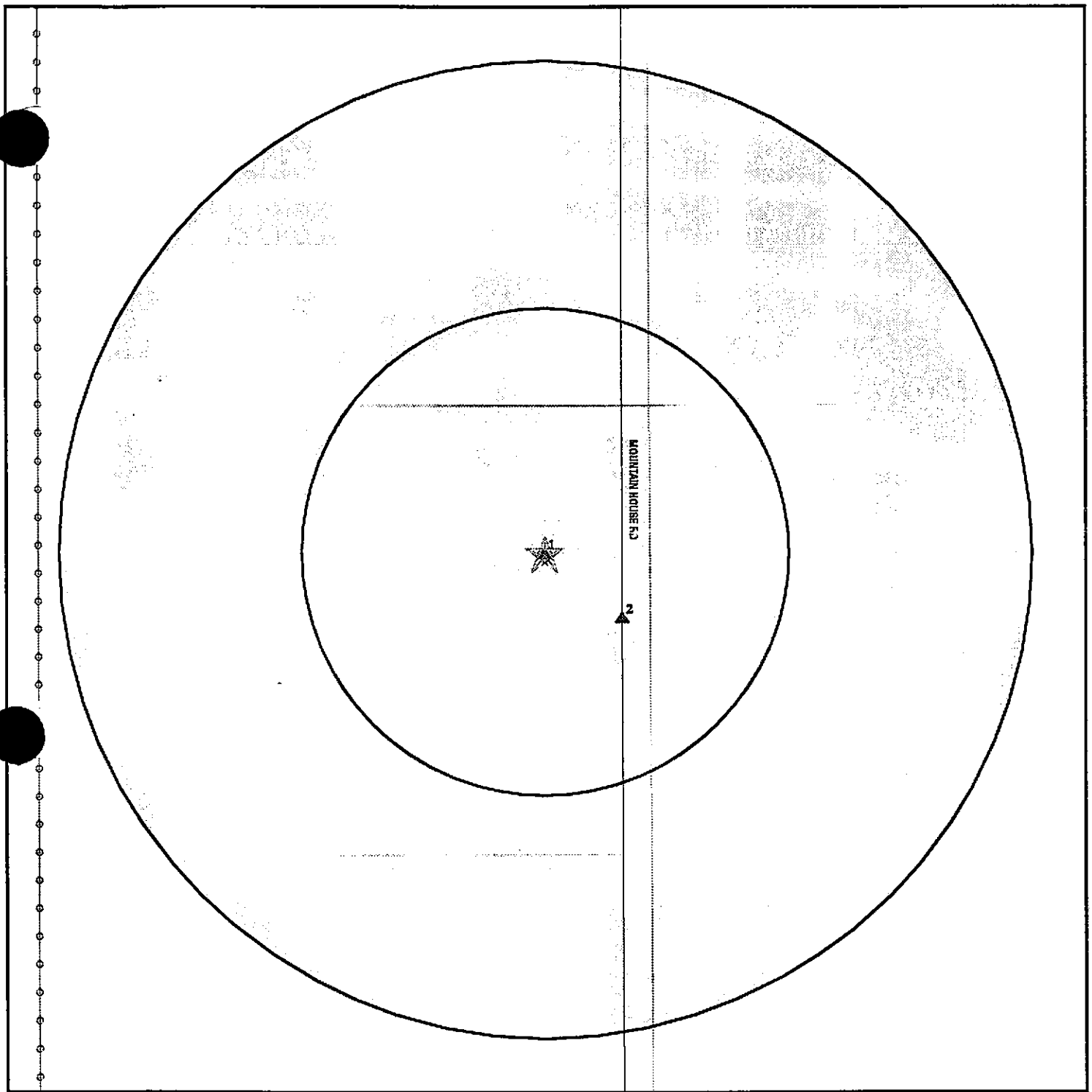
▨ Areas of Concern



TARGET PROPERTY: Schropp Ranch
ADDRESS: 3880 Mountain House Road
CITY/STATE/ZIP: Mountain House CA 94514
LAT/LONG: 37.7873 / 121.5782

CUSTOMER: Earthtec Ltd.
CONTACT: Paul Fry
INQUIRY #: 818793.1s
DATE: July 23, 2002 2:22 pm

DETAIL MAP - 818793.1s - Earthtec Ltd.



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ⊥ Sensitive Receptors
- ▨ National Priority List Sites
- ▩ Landfill Sites



- N Power transmission lines
- N Oil & Gas pipelines
- ▨ 100-year flood zone
- ▩ 500-year flood zone
- ▣ Areas of Concern

17

TARGET PROPERTY: Schropp Ranch
ADDRESS: 3880 Mountain House Road
CITY/STATE/ZIP: Mountain House CA 94514
LAT/LONG: 37.7873 / 121.5782

CUSTOMER: Earthtec Ltd.
CONTACT: Paul Fry
INQUIRY #: 818793.1s
DATE: July 23, 2002 2:22 pm

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
<u>FEDERAL ASTM STANDARD</u>								
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	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS		1.000	0	0	0	0	NR	0
Cortese		1.000	0	0	0	1	NR	1
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
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
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
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
<u>FEDERAL ASTM STANDARD</u>								
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	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS		1.000	0	0	0	0	NR	0
Cortese		1.000	0	0	0	1	NR	1
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
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
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST	TP		NR	NR	NR	NR	NR	0
CLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>FEDERAL ASTM STANDARD</u>								
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	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS		1.000	0	0	0	0	NR	0
Cortese		1.000	0	0	0	1	NR	1
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
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
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST	TP		NR	NR	NR	NR	NR	0
CLEANERS		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
CA WDS		TP	NR	NR	NR	NR	NR	0
DEED		TP	NR	NR	NR	NR	NR	0
CA SLIC	X	0.500	0	0	0	NR	NR	0
HAZNET		0.250	1	0	NR	NR	NR	1

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
CA WDS		TP	NR	NR	NR	NR	NR	0
DEED		TP	NR	NR	NR	NR	NR	0
CA SLIC	X	0.500	0	0	0	NR	NR	0
HAZNET		0.250	1	0	NR	NR	NR	1

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
CA WDS		TP	NR	NR	NR	NR	NR	0
DEED		TP	NR	NR	NR	NR	NR	0
CA SLIC	X	0.500	0	0	0	NR	NR	0
HAZNET		0.250	1	0	NR	NR	NR	1

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site Database(s) EDR ID Number
EPA ID Number

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

1 SHELL OIL COMPNAY - SCHROPP FARMS CA SLIC S104941591
Target 3880 MOUNTAIN HOUSE ROAD N/A
Property BYRON, CA

SLIC Region 5:
Facility Status: Closed by RB
Pollutant: TPH Unit: SL
Report Date: 8/3/99 Date Filed: 8/3/99
Lead Agency: Not reported

2 U S BUREAU OF RECLAMATION HAZNET S100947081
SE MOUNTAIN HOUSE / KELSO RD N/A
< 1/8 TRACY, CA 95378
Higher

HAZNET:
Gepaid: CA4140090537
Tepaid: CAD099452708
Gen County: San Joaquin
Tsd County: Los Angeles
Tons: .4170
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin
Gepaid: CA4140090537
Tepaid: CAD059494310
Gen County: San Joaquin
Tsd County: Santa Clara
Tons: .2500
Category: Unspecified oil-containing waste
Disposal Method: Disposal, Other
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin
Gepaid: CA4140090537
Tepaid: UTD981552177
Gen County: San Joaquin
Tsd County: 99
Tons: 8.2385
Category: Liquids with polychlorinated biphenyls > 50 mg/l
Disposal Method: Treatment, Incineration
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

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

1 SHELL OIL COMPNAY - SCHROPP FARMS CA SLIC S104941591
Target 3880 MOUNTAIN HOUSE ROAD N/A
Property BYRON, CA

SLIC Region 5:
Facility Status: Closed by RB
Pollutant: TPH Unit: SL
Report Date: 8/3/99 Date Filed: 8/3/99
Lead Agency: Not reported

2 U S BUREAU OF RECLAMATION HAZNET S100947081
SE MOUNTAIN HOUSE / KELSO RD N/A
< 1/8 TRACY, CA 95378
273 ft.
Higher

HAZNET:
Gepaid: CA4140090537
Tepaid: CAD099452708
Gen County: San Joaquin
Tsd County: Los Angeles
Tons: .4170
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin
Gepaid: CA4140090537
Tepaid: CAD059494310
Gen County: San Joaquin
Tsd County: Santa Clara
Tons: .2500
Category: Unspecified oil-containing waste
Disposal Method: Disposal, Other
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin
Gepaid: CA4140090537
Tepaid: UTD981552177
Gen County: San Joaquin
Tsd County: 99
Tons: 8.2385
Category: Liquids with polychlorinated biphenyls > 50 mg/l
Disposal Method: Treatment, Incineration
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

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

1 SHELL OIL COMPNAY - SCHROPP FARMS CA SLIC S104941591
Target 3880 MOUNTAIN HOUSE ROAD N/A
Property BYRON, CA

SLIC Region 5:
Facility Status: Closed by RB
Pollutant: TPH Unit: SL
Report Date: 8/3/99 Date Filed: 8/3/99
Lead Agency: Not reported

2 U S BUREAU OF RECLAMATION HAZNET S100947081
SE MOUNTAIN HOUSE / KELSO RD N/A
< 1/8 TRACY, CA 95378
273 ft
Higher

HAZNET:
Gepaid: CA4140090537
Tepaid: CAD099452708
Gen County: San Joaquin
Tsd County: Los Angeles
Tons: .4170
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Gepaid: CA4140090537
Tepaid: CAD059494310
Gen County: San Joaquin
Tsd County: Santa Clara
Tons: .2500
Category: Unspecified oil-containing waste
Disposal Method: Disposal, Other
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Gepaid: CA4140090537
Tepaid: UTD981552177
Gen County: San Joaquin
Tsd County: 99
Tons: 8.2385
Category: Liquids with polychlorinated biphenyls > 50 mg/l
Disposal Method: Treatment, Incineration
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

U S BUREAU OF RECLAMATION (Continued)

S100947081

Gepaid: CA4140090537
Tepaid: CAD980887418
Gen County: San Joaquin
Tsd County: 1
Tons: 15.4290
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Gepaid: CA4140090537
Tepaid: CAD982042475
Gen County: San Joaquin
Tsd County: Solano
Tons: .8428
Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

The CA HAZNET database contains 10 additional records for this site.
Please contact your EDR Account Executive for more information.

3
North
1/2-1
2745 ft.
Lower

US BUREAU OF RECLAMATION
MOUNTAIN HOUSE / KELSO RD
BYRON, CA 94514

LUST S103285669
Cortese N/A

State LUST:

Cross Street: Not reported
Qty Leaked: Not reported
Case Number: 010004
Reg Board: Central Valley Region
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency: 01000
Case Type: Soil only
Status: Signed off, remedial action completed or deemed unnecessary
County: Alameda
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: 4/9/1998
Close Date: 4/22/1998
Release Date: 6/14/1994
Cleanup Fund Id: Not reported
Discover Date: 2/16/1994
Enforcement Dt: 1/1/1965
Enf Type: None Taken
Enter Date: 4/9/1998
Funding: Not reported
Staff Initials: UNK
Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: 4/9/1998

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EPA ID Number
EDR ID Number

U S BUREAU OF RECLAMATION (Continued)

S100947081

Gepaid: CA4140090537
Tepaid: CAD980887418
Gen County: San Joaquin
Tsd County: 1
Tons: 15.4290
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County: San Joaquin
Gepaid: CA4140090537
Tepaid: CAD982042475
Gen County: San Joaquin
Tsd County: Solano
Tons: .8428
Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County: San Joaquin

The CA HAZNET database contains 10 additional records for this site.
Please contact your EDR Account Executive for more information.

3
North
1/2-1
2745 ft.
Lower

US BUREAU OF RECLAMATION
MOUNTAIN HOUSE / KELSO RD
BYRON, CA 94514

LUST S103285669
Cortese N/A

State LUST:

Cross Street: Not reported
Qty Leaked: Not reported
Case Number: 010004
Reg Board: Central Valley Region
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency: 01000
Case Type: Soil only
Status: Signed off, remedial action completed or deemed unnecessary
County: Alameda
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: 4/9/1998
Close Date: 4/22/1998
Release Date: 6/14/1994
Cleanup Fund Id: Not reported
Discover Date: 2/16/1994
Enforcement Dt: 1/1/1965
Enf Type: None Taken
Enter Date: 4/9/1998
Funding: Not reported
Staff Initials: UNK
Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: 4/9/1998

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

U S BUREAU OF RECLAMATION (Continued)

S100947081

Gepaid: CA4140090537
Tepaid: CAD980887418
Gen County: San Joaquin
Tsd County: 1
Tons: 15.4290
Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

Gepaid: CA4140090537
Tepaid: CAD982042475
Gen County: San Joaquin
Tsd County: Solano
Tons: .8428
Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: U S DEPT OF THE INTERIOR
Telephone: (916) 978-5020
Mailing Address: 2800 COTTAGE WAY RM E-2604
SACRAMENTO, CA 95825 - 1898
County San Joaquin

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3
North
1/2-1
2745 ft.
Lower

US BUREAU OF RECLAMATION
MOUNTAIN HOUSE / KELSO RD
BYRON, CA 94514

LUST S103285669
Cortese N/A

State LUST:

Cross Street: Not reported
Qty Leaked: Not reported
Case Number: 010004
Reg Board: Central Valley Region
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency: 01000
Case Type: Soil only
Status: Signed off, remedial action completed or deemed unnecessary
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Review Date: Not reported
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Close Date: 4/22/1998
Release Date: 6/14/1994
Cleanup Fund Id: Not reported
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Confirm Leak: Not reported
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Remed Plan: Not reported
Monitoring: 4/9/1998

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

US BUREAU OF RECLAMATION (Continued)

S103285669

How Discovered: Tank Closure
How Stopped: Close Tank
Interim : Not reported
Leak Cause: Unknown
Leak Source: Piping
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
Priority: Medium priority
Local Case # : Not reported
Beneficial: Not reported
Staff : TTP
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 4/9/1998
Stop Date : 2/16/1994
Work Suspended : N
Responsible Party: US BUREAU OF RECLAMATION
RP Address: RR 1, BOX 25, BYRON, CA 94514
Global Id: T0600102301
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
Water System Name: MARIN FOOD SPECIALTIES
Well Name: WELL 01
Distance To Lust: 0
Waste Discharge Global ID: W0601307564
Waste Disch Assigned Name: 0707564-001GEN

LUST Region 5:

Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: TTP Case Number: 010004
Status: Signed off, remedial action completed or deemed unnecessary
MTBE Code: N

CORTESE:

Reg Id: 010004
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

US BUREAU OF RECLAMATION (Continued)

S103285669

How Discovered: Tank Closure
How Stopped: Close Tank
Interim : Not reported
Leak Cause: Unknown
Leak Source: Piping
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Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
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Local Case # : Not reported
Beneficial: Not reported
Staff : TTP
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 4/9/1998
Stop Date : 2/16/1994
Work Suspended :N
Responsible Party:US BUREAU OF RECLAMATION
RP Address: RR 1, BOX 25, BYRON, CA 94514
Global Id: T0600102301
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtb Fuel: 1
Water System Name: MARIN FOOD SPECIALTIES
Well Name: WELL 01
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Waste Discharge Global ID: W0601307564
Waste Disch Assigned Name: 0707564-001GEN

LUST Region 5:
Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: TTP Case Number: 010004
Status: Signed off, remedial action completed or deemed unnecessary
MTBE Code: N

CORTESE:
Reg Id: 010004
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

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US BUREAU OF RECLAMATION (Continued)

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Local Case # : Not reported
Beneficial: Not reported
Staff : TTP
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin # : Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LGP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 4/9/1998
Stop Date : 2/16/1994
Work Suspended N
Responsible Party US BUREAU OF RECLAMATION
RP Address: RR 1, BOX 25, BYRON, CA 94514
Global Id: T0600102301
Org Name: Not reported
Contact Person: Not reported
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Mtbe Fuel: 1
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Well Name: WELL 01
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Waste Discharge Global ID: W0601307564
Waste Disch Assigned Name: 0707564-001GEN

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Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: TTP Case Number: 010004
Status: Signed off, remedial action completed or deemed unnecessary
MTBE Code: N

CORTESE:
Reg Id: 010004
Region: CORTESE
Reg By: Leaking Underground Storage Tanks

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database
BYRON	S105089645	DELTA MARINE	ROUTE 1 BOX 80	94514	HAZNET
BYRON	S102260190	DOUBLE J FARM	RT 1, BOX 61EE	94514	CONTRA
BYRON	S102260191	MONTERO, STANLEY & CHARLENE	RT 1, BOX 71	94514	CONTRA
BYRON	S102260192	KRUMLAUD AND COWAN	RT 1, BOX 72	94514	CONTRA
BYRON	S102260193	AGUIAR, ERNEST	RT 1, BOX 73	94514	CONTRA
BYRON	S102260194	MOORE FARM	RT 1, BOX 9	94514	CONTRA
BYRON	S102260195	PERKINS, STERRETT T.	RT 1, BOX 96E	94514	CONTRA
BYRON	S102002823	BYRON HOT SPRINGS - BIOSOLIDS	BYRON HOT SPRINGS RD	94514	SWF/LF, C
BYRON	S102260161	TERRA GRO/LOS VAQUEROS FARMS LAND APP	BYRON	94514	SWF/LF
BYRON	S102260163	BORDEN JUNCTION GARAGE	BYRON HWY	94514	CONTRA
BYRON	S102260168	LIDEN MARINE	2550 BYRON HWY	94514	CONTRA
BYRON	S102260169	HANSEN, CARL L.	3580 BYRON HWY	94514	CONTRA
BYRON	S102260171	PAPADAKOS, NICK	4645 BYRON HWY	94514	CONTRA
BYRON	S103464224	FRMLY (BYRON HARDWARE)	14777 BYRON HWY	94514	CONTRA
BYRON	S103678367	HECTOR RODAS	BYRON HWY COUNTY RD J4	94514	HAZNET
BYRON	S105298986	CHEVRON PIPE LINE COMPANY, BRUNS PROPERTY	WEST BYRON HWY, SOUTH OF BRUNS ROAD	94514	CA SLIC
BYRON	U001596398	JOHN F. SKINNER FISH FACILITY	BYRON HIGHWAY	94514	HIST UST
BYRON	U001596388	COPE RANCH	HOFFMAN LANE	94514	HIST UST
BYRON	S102260182	COPE RANCH	HOFFMAN LN	94514	CONTRA
BYRON	S103587919	AIRPORT RANCH SLUDGE SPREADING	HOLEY ROAD	94514	SWF/LF
BYRON	S103635158	SAN LUIS & DELTA-MENDOTA WATER AUTHORITY	16800 KELSO RD	94514	HAZNET,
BYRON	S105153693	MOUNTAIN HOUSE SCHOOL	3950 MOUNTAIN HOUSE RD	94514	HAZNET,
BYRON	S103679765	US BUREAU OF RECLAMATION	ROUTE ONE BOX 1	94514	HAZNET
BYRON	U001596382	BETHANY STATION	TRACY-BYRON HIGHWAY	94514	HIST UST
DISCOVERY BAY	S104733016	CC WATER DISTRICT/OLD RIVER PUMP STN	HWY 4/E OF DISCOVERY BAY	94514	CONTRA
DISCOVERY BAY	S104735475	DISCOVERY BAY WEST PROPOSED SCHOOL SITE	EAST OF NEWPORT / PRESTON DRIVES	94514	Cal-Sites

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database
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BYRON	S102260190	DOUBLE J FARM	RT 1, BOX 61EE	94514	CONTRA
BYRON	S102260191	MONTERO, STANLEY & CHARLENE	RT 1, BOX 71	94514	CONTRA
BYRON	S102260192	KRUMLAUD AND COWAN	RT 1, BOX 72	94514	CONTRA
BYRON	S102260193	AGUIAR, ERNEST	RT 1, BOX 73	94514	CONTRA
BYRON	S102260194	MOORE FARM	RT 1, BOX 9	94514	CONTRA
BYRON	S102260195	PERKINS, STERRETT T.	RT 1, BOX 96E	94514	CONTRA
BYRON	S102002823	BYRON HOT SPRINGS - BIOSOLIDS	BYRON HOT SPRINGS RD	94514	SWF/LF, C
BYRON	S102260161	TERRA GRO/LOS VAQUEROS FARMS LAND APP	BYRON	94514	SWF/LF
BYRON	S102260163	BORDEN JUNCTION GARAGE	BYRON HWY	94514	CONTRA
BYRON	S102260168	LIDEN MARINE	2550 BYRON HWY	94514	CONTRA
BYRON	S102260169	HANSEN, CARL L.	3580 BYRON HWY	94514	CONTRA
BYRON	S102260171	PAPADAKOS, NICK	4645 BYRON HWY	94514	CONTRA
BYRON	S103464224	FRMLY (BYRON HARDWARE)	14777 BYRON HWY	94514	CONTRA
BYRON	S103678367	HECTOR RODAS	BYRON HWY COUNTY RD J4	94514	HAZNET
BYRON	S105298986	CHEVRON PIPE LINE COMPANY, BRUNS PROPERTY	WEST BYRON HWY, SOUTH OF BRUNS ROAD	94514	CA SLIC
BYRON	U001596398	JOHN F. SKINNER FISH FACILITY	BYRON HIGHWAY	94514	HIST UST
BYRON	U001596388	COPEL RANCH	HOFFMAN LANE	94514	HIST UST
BYRON	S102260182	COPEL RANCH	HOFFMAN LN	94514	CONTRA
BYRON	S103587919	AIRPORT RANCH SLUDGE SPREADING	HOLEY ROAD	94514	SWF/LF
BYRON	S103635158	SAN LUIS & DELTA-MENDOTA WATER AUTHORITY	16800 KELSO RD	94514	HAZNET,
BYRON	S105153693	MOUNTAIN HOUSE SCHOOL	3950 MOUNTAIN HOUSE RD	94514	HAZNET,
BYRON	S102679765	US BUREAU OF RECLAMATION	ROUTE ONE BOX 1	94514	HAZNET
BYRON	U001596382	BETHANY STATION	TRACY-BYRON HIGHWAY	94514	HIST UST
DISCOVERY BAY	S104733016	CC WATER DISTRICT/OLD RIVER PUMP STN	HWY 4/E OF DISCOVERY BAY	94514	CONTRA
DISCOVERY BAY	S104735475	DISCOVERY BAY WEST PROPOSED SCHOOL SITE	EAST OF NEWPORT / PRESTON DRIVES	94514	Cal-Sites

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database
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BYRON	S102260193	AGUIAR, ERNEST	RT 1, BOX 73	94514	CONTRA
BYRON	S102260194	MOORE FARM	RT 1, BOX 9	94514	CONTRA
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BYRON	S105153693	MOUNTAIN HOUSE SCHOOL	3950 MOUNTAIN HOUSE RD	94514	HAZNET,
BYRON	S103679765	US BUREAU OF RECLAMATION	ROUTE ONE BOX 1	94514	HAZNET
BYRON	U001596362	BETHANY STATION	TRACY-BYRON HIGHWAY	94514	HIST UST
DISCOVERY BAY	S104733016	CC WATER DISTRICT/OLD RIVER PUMP STN	HWY 4/E OF DISCOVERY BAY	94514	CONTRA
DISCOVERY BAY	S104735475	DISCOVERY BAY WEST PROPOSED SCHOOL SITE	EAST OF NEWPORT / PRESTON DRIVES	94514	Cal-Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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

Date of Government Version: 04/22/02

Date Made Active at EDR: 06/21/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02

Elapsed ASTM days: 46

Date of Last EDR Contact: 05/06/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 6

Telephone: 214-655-6659

EPA Region 3

Telephone 215-814-5418

EPA Region 8

Telephone: 303-312-6774

EPA Region 4

Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 02/26/02

Date Made Active at EDR: 06/21/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02

Elapsed ASTM days: 46

Date of Last EDR Contact: 05/06/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 02/12/02

Date Made Active at EDR: 06/03/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02

Elapsed ASTM days: 70

Date of Last EDR Contact: 06/24/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

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Database Release Frequency: Semi-Annually

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Date of Last EDR Contact: 05/06/02

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Telephone 617-918-1143

EPA Region 6

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Sources:

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EPA Region 1
Telephone 617-918-1143

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Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA
Telephone: N/A

Date of Government Version: 02/26/02
Date Made Active at EDR: 06/21/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 46
Date of Last EDR Contact: 05/06/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA
Telephone: 703-413-0223

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

Date of Government Version: 02/12/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/24/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA
Telephone: 703-413-0223

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/24/02

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/02/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/10/02

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/10/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/20/02
Elapsed ASTM days: 25
Date of Last EDR Contact: 06/20/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/01
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 13
Date of Last EDR Contact: 04/29/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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

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

Date of Last EDR Contact: 06/17/02
Date of Next Scheduled EDR Contact: 09/16/02

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

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

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

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/02
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Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/09/02
Date of Next Scheduled EDR Contact: 10/07/02

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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

Date of Government Version: 04/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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

Date of Government Version: 03/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 06/05/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/14/02
Date of Next Scheduled EDR Contact: 08/12/02

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

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

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-564-2501

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

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
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Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

STATE OF CALIFORNIA ASTM STANDARD RECORDS**AWP: Annual Workplan Sites**

Source: California Environmental Protection Agency
Telephone: 916-323-3400

Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 11/08/00
Date Made Active at EDR: 03/02/01
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/31/01
Elapsed ASTM days: 30
Date of Last EDR Contact: 07/08/02

CAL-SITES: Calsites Database

Source: Department of Toxic Substance Control
Telephone: 916-323-3400

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

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

Date of Data Arrival at EDR: 10/30/00
Elapsed ASTM days: 23
Date of Last EDR Contact: 07/08/02

CHMIRS: California Hazardous Material Incident Report System

Source: Office of Emergency Services
Telephone: 916-845-8400

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

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

Date of Data Arrival at EDR: 03/13/95
Elapsed ASTM days: 42
Date of Last EDR Contact: 05/26/02

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: Varies

Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 04/30/02

NOTIFY 65: Proposition 65 Records

Source: State Water Resources Control Board
Telephone: 916-445-3846

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

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

Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 04/22/02

TOXIC PITS: Toxic Pits Cleanup Act Sites

Source: State Water Resources Control Board
Telephone: 916-227-4364

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

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

Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 05/06/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF CALIFORNIA ASTM STANDARD RECORDS

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Date Made Active at EDR: 03/02/01

Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/31/01

Elapsed ASTM days: 30

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Elapsed ASTM days: 27

Date of Last EDR Contact: 05/06/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF (SWIS): Solid Waste Information System

Source: Integrated Waste Management Board
Telephone: 916-341-6320

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/14/02
Date Made Active at EDR: 07/19/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/17/02
Elapsed ASTM days: 32
Date of Last EDR Contact: 06/17/02

WMUDS/SWAT: Waste Management Unit Database

Source: State Water Resources Control Board
Telephone: 916-227-4448

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

Date of Government Version: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 06/10/02

LUST: Leaking Underground Storage Tank Information System

Source: State Water Resources Control Board
Telephone: 916-341-5740

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/17/02
Date Made Active at EDR: 02/12/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/21/02
Elapsed ASTM days: 22
Date of Last EDR Contact: 07/09/02

CA BOND EXP. PLAN: Bond Expenditure Plan

Source: Department of Health Services
Telephone: 916-255-2118

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

CA UST:

UST: Active UST Facilities

Source: SWRCB
Telephone: 916-341-5700

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 01/17/02
Date Made Active at EDR: 02/12/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 01/21/02
Elapsed ASTM days: 22
Date of Last EDR Contact: 07/09/02

CA FID UST: Facility Inventory Database

Source: California Environmental Protection Agency
Telephone: 916-445-6532

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF (SWIS): Solid Waste Information System

Source: Integrated Waste Management Board
Telephone: 916-341-6320

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Date of Government Version: 06/14/02
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Date of Government Version: 04/01/00
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Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/10/00
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Date of Data Arrival at EDR: 07/27/94
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Date of Last EDR Contact: 05/31/94

CA UST:

UST: Active UST Facilities

Source: SWRCB
Telephone: 916-341-5700

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 01/17/02
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Date of Government Version: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

HIST UST: Hazardous Substance Storage Container Database

Source: State Water Resources Control Board
Telephone: 916-341-5700

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities

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

Date of Government Version: 05/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

CLEANERS: Cleaner Facilities

Source: Department of Toxic Substance Control
Telephone: 916-225-0873

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

Date of Government Version: 03/18/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

CA WDS: Waste Discharge System

Source: State Water Resources Control Board
Telephone: 916-657-1571

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/17/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

DEED: List of Deed Restrictions

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes.

Date of Government Version: 04/26/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

HAZNET: Hazardous Waste Information System

Source: California Environmental Protection Agency
Telephone: 916-255-1136

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

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

Date of Last EDR Contact: 05/16/02
Date of Next Scheduled EDR Contact: 08/12/02

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites

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

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

Date of Last EDR Contact: 05/01/02
Date of Next Scheduled EDR Contact: 07/29/02

Underground Tanks

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

Date of Government Version: 06/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/01/02
Date of Next Scheduled EDR Contact: 07/29/02

CONTRA COSTA COUNTY:

Site List

Source: Contra Costa Health Services Department
Telephone: 925-646-2286

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 06/05/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/03/02
Date of Next Scheduled EDR Contact: 09/02/02

FRESNO COUNTY:

CUPA Resources List

Source: Dept. of Community Health
Telephone: 559-445-3271

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/30/02
Date of Next Scheduled EDR Contact: 08/12/02

KERN COUNTY:

Underground Storage Tank Sites & Tanks Listing

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700

Kern County Sites and Tanks Listing.

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

Date of Last EDR Contact: 06/03/02
Date of Next Scheduled EDR Contact: 09/02/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Last EDR Contact: 05/16/02
Date of Next Scheduled EDR Contact: 08/12/02

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites

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

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

Date of Last EDR Contact: 05/01/02
Date of Next Scheduled EDR Contact: 07/29/02

Underground Tanks

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

Date of Government Version: 06/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/01/02
Date of Next Scheduled EDR Contact: 07/29/02

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Site List

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Database Release Frequency: Semi-Annually

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Kern County Sites and Tanks Listing.

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

Date of Last EDR Contact: 06/03/02
Date of Next Scheduled EDR Contact: 09/02/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Last EDR Contact: 05/16/02
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LOCAL RECORDS

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Telephone: 510-567-6700

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

Date of Last EDR Contact: 05/01/02
Date of Next Scheduled EDR Contact: 07/29/02

Underground Tanks

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

Date of Government Version: 06/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/01/02
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Site List

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Telephone: 925-646-2286

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Database Release Frequency: Semi-Annually

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Telephone: 661-862-8700

Kern County Sites and Tanks Listing.

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

Date of Last EDR Contact: 06/03/02
Date of Next Scheduled EDR Contact: 09/02/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES COUNTY:

List of Solid Waste Facilities

Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 11/09/99
Database Release Frequency: Varies

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of El Segundo Underground Storage Tank

Source: City of El Segundo Fire Department
Telephone: 310-607-2239

Date of Government Version: 03/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of Long Beach Underground Storage Tank

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

Date of Government Version: 05/30/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/30/02
Date of Next Scheduled EDR Contact: 08/26/02

City of Torrance Underground Storage Tank

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

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of Los Angeles Landfills

Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/02
Database Release Frequency: Varies

Date of Last EDR Contact: 06/19/02
Date of Next Scheduled EDR Contact: 09/16/02

HMS: Street Number List

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

Date of Government Version: 01/31/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

Site Mitigation List

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

Date of Government Version: 02/28/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

San Gabriel Valley Areas of Concern

Source: EPA Region 9
Telephone: 415-744-2407
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES COUNTY:

List of Solid Waste Facilities

Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 11/09/99
Database Release Frequency: Varies

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of El Segundo Underground Storage Tank

Source: City of El Segundo Fire Department
Telephone: 310-607-2239

Date of Government Version: 03/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of Long Beach Underground Storage Tank

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

Date of Government Version: 05/30/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/30/02
Date of Next Scheduled EDR Contact: 08/20/02

City of Torrance Underground Storage Tank

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

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

City of Los Angeles Landfills

Source: Engineering & Construction Division
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Database Release Frequency: Varies

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Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

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Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

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

Date of Government Version: 05/30/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/30/02
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Source: City of Torrance Fire Department
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Source: EPA Region 9
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San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites

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

Date of Government Version: 03/06/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

NAPA COUNTY:

Sites With Reported Contamination

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

Closed and Operating Underground Storage Tank Sites

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 04/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

ORANGE COUNTY:

List of Underground Storage Tank Cleanups

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

Date of Government Version: 11/27/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

List of Underground Storage Tank Facilities

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

Date of Government Version: 11/27/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

List of Industrial Site Cleanups

Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/00
Database Release Frequency: Annually

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

PLACER COUNTY:

Master List of Facilities

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MARIN COUNTY:

Underground Storage Tank Sites

Source: Public Works Department Waste Management

Telephone: 415-499-6647

Currently permitted USTs in Marin County.

Date of Government Version: 03/06/02

Database Release Frequency: Semi-Annually

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Date of Government Version: 04/01/02

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Telephone: 707-253-4269

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Database Release Frequency: Annually

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Date of Government Version: 01/31/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

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

Date of Government Version: 03/27/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

Underground Storage Tank Tank List

Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 03/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

SACRAMENTO COUNTY:

CS - Contaminated Sites

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 06/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

ML - Regulatory Compliance Master List

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 06/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

SAN BERNARDINO COUNTY:

Hazardous Material Permits

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 04/03/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN DIEGO COUNTY:

Solid Waste Facilities

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

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Listing of Underground Tank Cleanup Sites

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Source: Health Services Agency
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Date of Government Version: 03/01/02
Database Release Frequency: Quarterly

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Date of Next Scheduled EDR Contact: 07/22/02

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Date of Government Version: 06/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
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Hazardous Material Permits

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Telephone: 909-387-3041

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Date of Government Version: 04/03/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN DIEGO COUNTY:

Solid Waste Facilities

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

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Listing of Underground Tank Cleanup Sites

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

Date of Government Version: 03/27/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/22/02
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Underground Storage Tank Tank List

Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 03/01/02
Database Release Frequency: Quarterly

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Date of Last EDR Contact: 05/06/02
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Date of Government Version: 04/03/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN DIEGO COUNTY:

Solid Waste Facilities

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division
Telephone: 619-338-2268

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

Date of Government Version: 03/31/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

SAN FRANCISCO COUNTY:

Local Oversight Facilities

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

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

Underground Storage Tank Information

Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN MATEO COUNTY:

Fuel Leak List

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

Date of Government Version: 04/04/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

Business Inventory

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

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District
Telephone: 408-265-2600

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division
Telephone: 619-338-2268

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

Date of Government Version: 03/31/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

SAN FRANCISCO COUNTY:

Local Oversight Facilities

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

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

Underground Storage Tank Information

Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN MATEO COUNTY:

Fuel Leak List

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

Date of Government Version: 04/04/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

Business Inventory

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

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District
Telephone: 408-265-2600

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division
Telephone: 619-338-2268

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

Date of Government Version: 03/31/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

SAN FRANCISCO COUNTY:

Local Oversight Facilities

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

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

Underground Storage Tank Information

Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 06/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SAN MATEO COUNTY:

Fuel Leak List

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

Date of Government Version: 04/04/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

Business Inventory

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

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District
Telephone: 408-265-2600

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

Hazardous Material Facilities

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

Date of Government Version: 01/03/02
Database Release Frequency: Annually

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SOLANO COUNTY:

Leaking Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 11/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

SUTTER COUNTY:

Underground Storage Tanks

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites

Source: Environmental Health Division
Telephone: 805-654-2813

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/02/01
Database Release Frequency: Annually

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Listing of Underground Tank Cleanup Sites

Source: Environmental Health Division
Telephone: 805-654-2813

Ventura County Underground Storage Tank Cleanup Sites (LUST).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

Hazardous Material Facilities

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

Date of Government Version: 01/03/02
Database Release Frequency: Annually

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SOLANO COUNTY:

Leaking Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 11/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

SUTTER COUNTY:

Underground Storage Tanks

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites

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

Date of Government Version: 04/02/01
Database Release Frequency: Annually

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Listing of Underground Tank Cleanup Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

Hazardous Material Facilities

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

Date of Government Version: 01/03/02
Database Release Frequency: Annually

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

SOLANO COUNTY:

Leaking Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Storage Tanks

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

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

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 11/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/29/02
Date of Next Scheduled EDR Contact: 07/29/02

SUTTER COUNTY:

Underground Storage Tanks

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites

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

Date of Government Version: 04/02/01
Database Release Frequency: Annually

Date of Last EDR Contact: 05/29/02
Date of Next Scheduled EDR Contact: 08/26/02

Listing of Underground Tank Cleanup Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/08/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Tank Closed Sites List

Source: Environmental Health Division
Telephone: 805-654-2813

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 02/19/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220

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

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

LUST REG 2: Fuel Leak List

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

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

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

LUST REG 3: Leaking Underground Storage Tank Database

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

LUST REG 4: Underground Storage Tank Leak List

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/08/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Tank Closed Sites List

Source: Environmental Health Division
Telephone: 805-654-2813

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 02/19/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220

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

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

LUST REG 2: Fuel Leak List

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

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

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

LUST REG 3: Leaking Underground Storage Tank Database

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

LUST REG 4: Underground Storage Tank Leak List

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/08/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

Underground Tank Closed Sites List

Source: Environmental Health Division
Telephone: 805-654-2813

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/24/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 02/19/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/18/02
Date of Next Scheduled EDR Contact: 09/16/02

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 05/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220

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

Date of Government Version: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

LUST REG 2: Fuel Leak List

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
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LUST REG 3: Leaking Underground Storage Tank Database

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Telephone: 805-549-3147

Date of Government Version: 05/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/20/02
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LUST REG 4: Underground Storage Tank Leak List

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-266-6600

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/02
Date of Next Scheduled EDR Contact: 10/07/02

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

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 01/02/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 07/23/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/13/02
Date of Next Scheduled EDR Contact: 08/12/02

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) SLIC Records

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

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

Date of Last EDR Contact: 05/31/02
Date of Next Scheduled EDR Contact: 08/26/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/02
Date of Next Scheduled EDR Contact: 10/07/02

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

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 01/02/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 07/23/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/13/02
Date of Next Scheduled EDR Contact: 08/12/02

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) SLIC Records

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

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

Date of Last EDR Contact: 05/31/02
Date of Next Scheduled EDR Contact: 08/26/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/09/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/02
Date of Next Scheduled EDR Contact: 10/07/02

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

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 01/02/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

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

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

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

Date of Government Version: 04/01/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

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

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 07/23/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/13/02
Date of Next Scheduled EDR Contact: 08/12/02

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

California Regional Water Quality Control Board (RWQCB) SLIC Records

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

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

Date of Last EDR Contact: 05/31/02
Date of Next Scheduled EDR Contact: 08/26/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 12/01/01

Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02

Date of Next Scheduled EDR Contact: 10/14/02

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/22/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02

Date of Next Scheduled EDR Contact: 08/19/02

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/13/01

Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/01/02

Date of Next Scheduled EDR Contact: 07/29/02

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-855-3075

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 03/31/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583

Date of Government Version: 07/19/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-3298

Date of Government Version: 07/31/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980

Date of Government Version: 03/01/02

Database Release Frequency: Annually

Date of Last EDR Contact: 06/03/02

Date of Next Scheduled EDR Contact: 09/02/02

EDR PROPRIETARY HISTORICAL DATABASES

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

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 12/01/01

Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02

Date of Next Scheduled EDR Contact: 10/14/02

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Database Release Frequency: Semi-Annually

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Date of Next Scheduled EDR Contact: 08/19/02

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600

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Date of Government Version: 09/13/01

Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/01/02

Date of Next Scheduled EDR Contact: 07/29/02

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-855-3075

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 03/31/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583

Date of Government Version: 07/19/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-3298

Date of Government Version: 07/31/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980

Date of Government Version: 03/01/02

Database Release Frequency: Annually

Date of Last EDR Contact: 06/03/02

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Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

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Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/15/02

Date of Next Scheduled EDR Contact: 10/14/02

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Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/22/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02

Date of Next Scheduled EDR Contact: 08/19/02

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/13/01

Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/01/02

Date of Next Scheduled EDR Contact: 07/29/02

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-855-3075

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 03/31/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583

Date of Government Version: 07/19/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/08/02

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Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-3298

Date of Government Version: 07/31/01

Database Release Frequency: Semi-Annually

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Date of Next Scheduled EDR Contact: 10/07/02

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980

Date of Government Version: 03/01/02

Database Release Frequency: Annually

Date of Last EDR Contact: 06/03/02

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OTHER DATABASE(S)

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

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

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

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SCHROPP RANCH
3880 MOUNTAIN HOUSE ROAD
MOUNTAIN HOUSE, CA 94514

TARGET PROPERTY COORDINATES

Latitude (North):	37.787300 - 37° 47' 14.3"
Longitude (West):	121.578201 - 121° 34' 41.5"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	625196.2
UTM Y (Meters):	4182962.8

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

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

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

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

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

TOPOGRAPHIC INFORMATION

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

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2437121-G5 CLIFTON COURT FOREBAY, CA
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General NNE

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

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Target Property County</u>	FEMA Flood
ALAMEDA, CA	<u>Electronic Data</u>
	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0600010145A / CBNP

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	NWI Electronic
CLIFTON COURT FOREBAY	<u>Data Coverage</u>
	Not Available

HYDROGEOLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Target Property County</u> ALAMEDA, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
--	---

Flood Plain Panel at Target Property: 0600010145A / CBNP

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> CLIFTON COURT FOREBAY	<u>NWI Electronic Data Coverage</u> Not Available
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Target Property: General NNE

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

FEMA FLOOD ZONE

Target Property County
ALAMEDA, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0600010145A / CBNP

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
CLIFTON COURT FOREBAY

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

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

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius: 2.0 miles
 Status: Not found

AQUIFLOW[®]:

Search Radius: 2.000 Miles.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic	Category:	Stratified Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q (decoded above as Era, System & Series)		

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

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

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

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius: 2.0 miles
Status: Not found

AQUIFLOW[®]

Search Radius: 2.000 Miles.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic	Category:	Stratified Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q (decoded above as Era, System & Series)		

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

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius: 2.0 miles
Status: Not found

AQUIFLOW[®]

Search Radius: 2.000 Miles.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GROUNDWATER FLOW VELOCITY INFORMATION

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

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GEOLOGIC AGE IDENTIFICATION

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System:	Quaternary	
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: RINCON

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

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

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 6.10
2	16 inches	31 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60
3	31 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COURSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: loam
fine sandy loam
gravelly - loam
clay
silty clay loam

Surficial Soil Types: loam
fine sandy loam
gravelly - loam
clay

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: RINCON

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

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Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
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OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: loam
 fine sandy loam
 gravelly - loam
 clay
 silty clay loam

Surficial Soil Types: loam
 fine sandy loam
 gravelly - loam
 clay

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: RINCON

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

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

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 6.10
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3	31 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COURSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: loam
fine sandy loam
gravelly - loam
clay
silty clay loam

Surficial Soil Types: loam
fine sandy loam
gravelly - loam
clay

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

silty clay loam

Shallow Soil Types: gravelly - clay
 clay loam

Deeper Soil Types: clay loam
 weathered bedrock
 clay
 gravelly - loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	374713121343401	0 - 1/8 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	2440	0 - 1/8 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

silty clay loam

Shallow Soil Types: gravelly - clay
 clay loam

Deeper Soil Types: clay loam
 weathered bedrock
 clay
 gravelly - loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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

WELL SEARCH DISTANCE INFORMATION

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Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	374713121343401	0 - 1/8 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	2440	0 - 1/8 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

silty clay loam

Shallow Soil Types: gravelly - clay
 clay loam

Deeper Soil Types: clay loam
 weathered bedrock
 clay
 gravelly - loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
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FEDERAL USGS WELL INFORMATION

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A2	374713121343401	0 - 1/8 Mile ESE

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<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	2440	0 - 1/8 Mile ESE

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION
FROM TP

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION
FROM TP

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

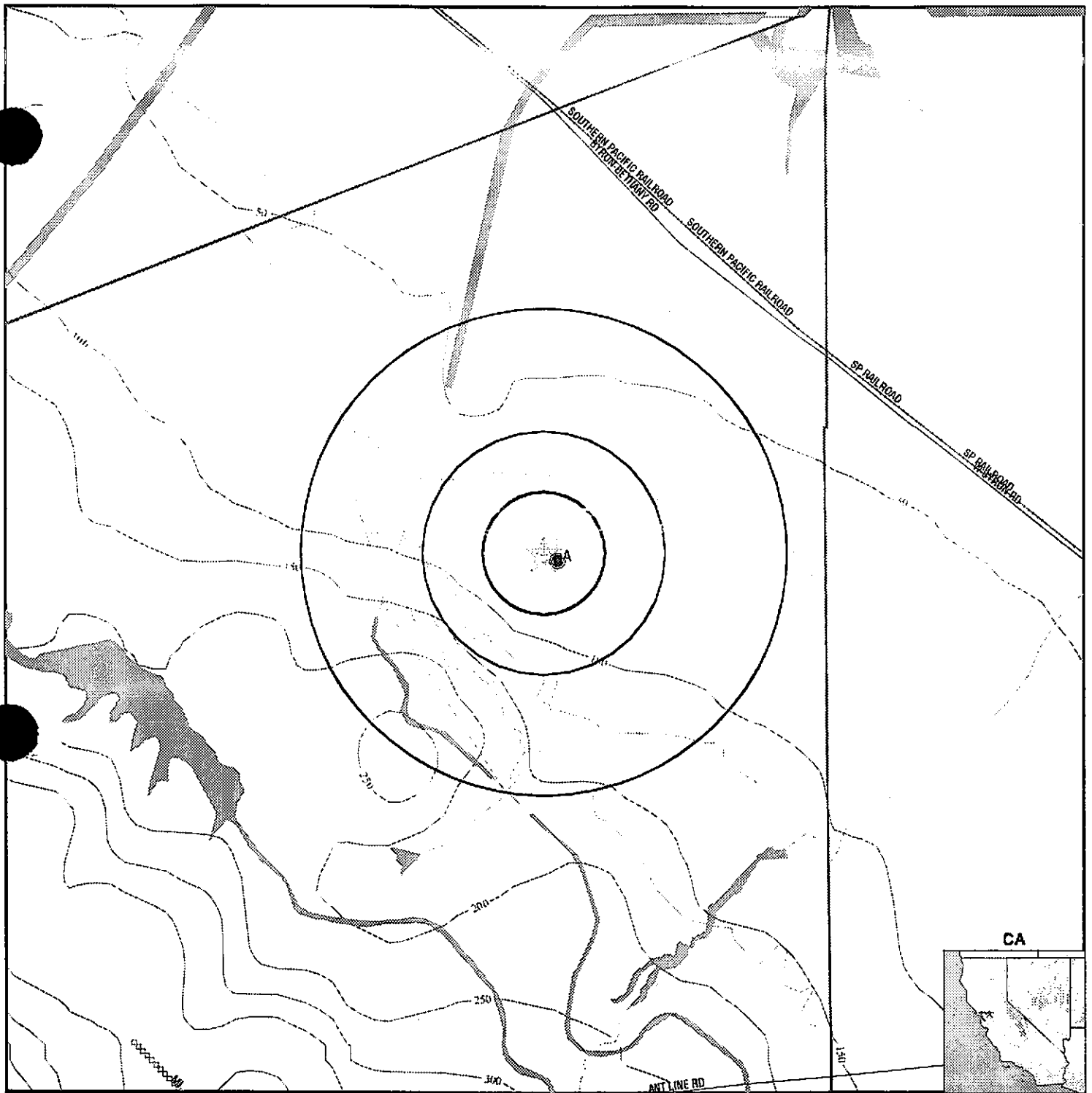
STATE DATABASE WELL INFORMATION

MAP ID

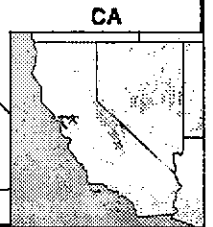
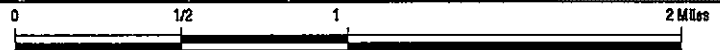
WELL ID

LOCATION
FROM TP

PHYSICAL SETTING SOURCE MAP - 818793.1s



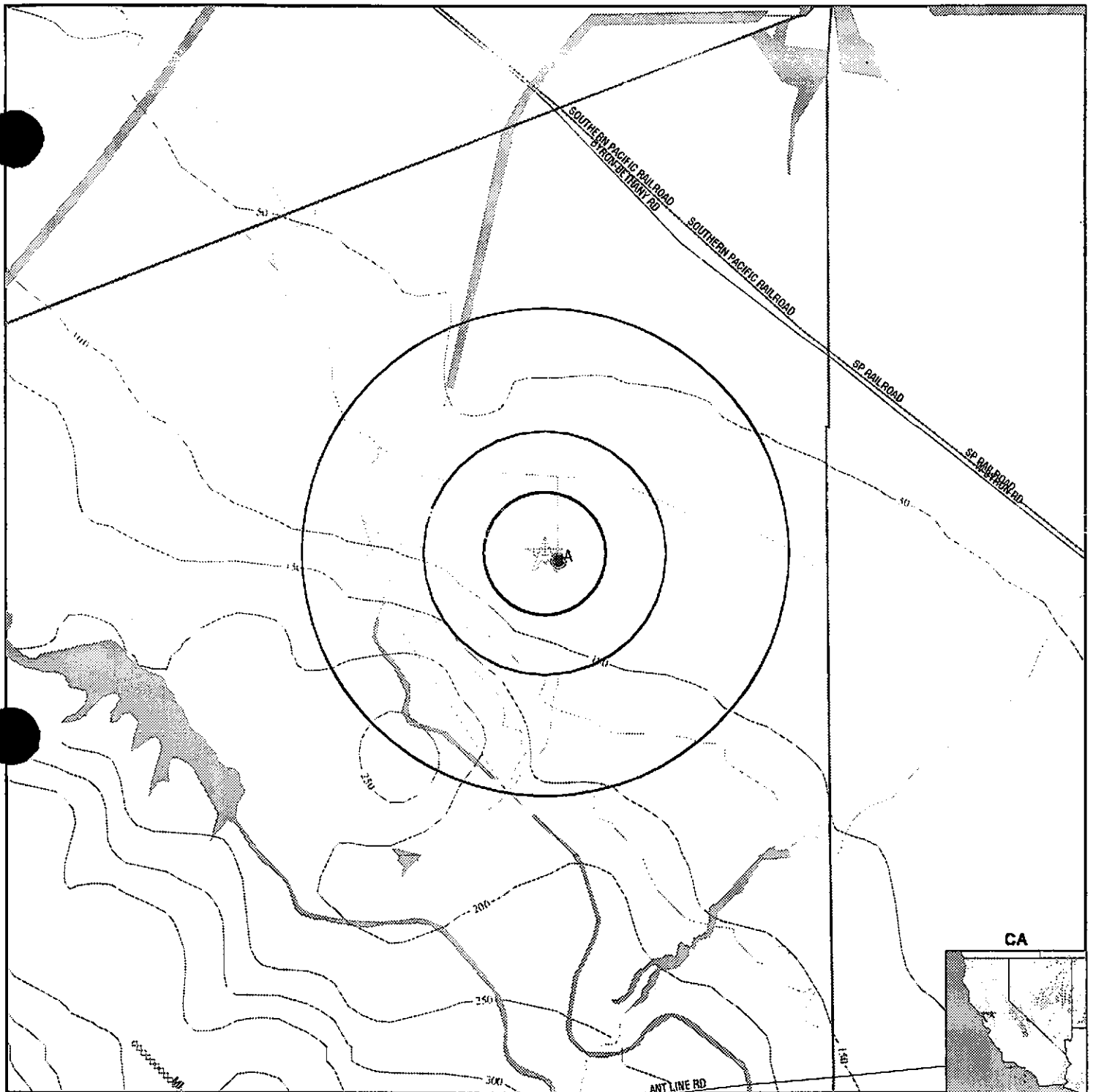
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological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



TARGET PROPERTY: Schropp Ranch
ADDRESS: 3880 Mountain House Road
CITY/STATE/ZIP: Mountain House CA 94514
LAT/LONG: 37.7873 / 121.5782

CUSTOMER: Earthtec Ltd.
CONTACT: Paul Fry
INQUIRY #: 818793.1s
DATE: July 23, 2002 2:23 pm

PHYSICAL SETTING SOURCE MAP - 818793.1s

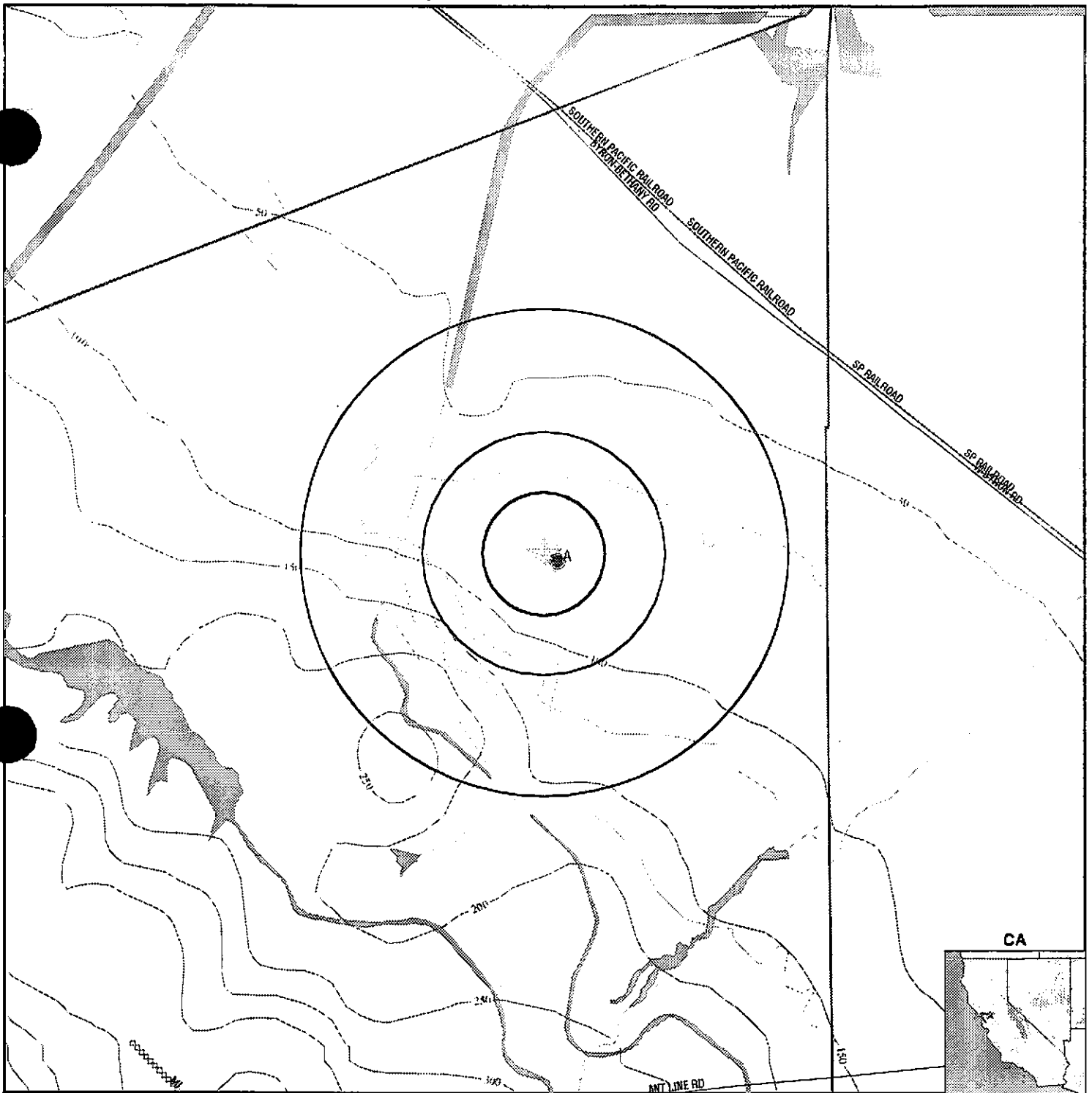


- Major Roads
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PHYSICAL SETTING SOURCE MAP - 818793.1s



- Major Roads
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CITY/STATE/ZIP:	Mountain House CA 94514	INQUIRY #:	818793.1s
LAT/LONG:	37.7873 / 121.5782	DATE:	July 23, 2002 2:23 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
 ESE
 0 - 1/8 Mile
 Higher

CA WELLS 2440

Water System Information:

Prime Station Code: 02S/04E-06L01 M	User ID: 01C
FRDS Number: 0105004001	County: Alameda
District Number: 31	Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater	Well Status: Active Raw
Source Lat/Long: 374713.0 1213434.0	Precision: 1,000 Feet (10 Seconds)
Source Name: WELL 01	
System Number: 0105004	
System Name: MOUNTAIN HOUSE SCHOOL	
Organization That Operates System:	
Not Reported	
Pop Served: Unknown, Small System	Connections: Unknown, Small System
Area Served: Not Reported	

A2
 ESE
 0 - 1/8 Mile
 Higher

FED USGS 374713121343401

BASIC WELL DATA

Site Type: Single well, other than collector or Ranney type	
Year Constructed: Not Reported	County: Alameda
Altitude: 88.00 ft.	State: California
Well Depth: 72.00 ft.	Topographic Setting: Valley flat
Depth to Water Table: Not Reported	Prim. Use of Site: Withdrawal of water
Date Measured: Not Reported	Prim. Use of Water: Domestic

GEOCHECK - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
 ESE
 0 - 1/8 Mile
 Higher

CA WELLS 2440

Water System Information:

Prime Station Code:	02S/04E-06L01 M	User ID:	01C
FRDS Number:	0105004001	County:	Alameda
District Number:	31	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	374713.0 1213434.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	0105004		
System Name:	MOUNTAIN HOUSE SCHOOL		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

A2
 ESE
 0 - 1/8 Mile
 Higher

FED USGS 374713121343401

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Alameda
Altitude:	88.00 ft.	State:	California
Well Depth:	72.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

GEOCHECKSM - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
 ESE
 0 - 1/8 Mile
 Higher

CA WELLS 2440

Water System Information:

Prime Station Code:	02S/04E-06L01 M	User ID:	01C
FRDS Number:	0105004001	County:	Alameda
District Number:	31	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	374713.0 1213434.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	0105004		
System Name:	MOUNTAIN HOUSE SCHOOL		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

A2
 ESE
 0 - 1/8 Mile
 Higher

FED USGS 374713121343401

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Date Measured:	Not Reported	Prim. Use of Water:	Domestic

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for ALAMEDA County: 2

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

Federal Area Radon Information for Zip Code: 94514

Number of sites tested: 1

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for ALAMEDA County: 2

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

Federal Area Radon Information for Zip Code: 94514

Number of sites tested: 1

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

**GEOCHECK[®] - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON**

AREA RADON INFORMATION

Federal EPA Radon Zone for ALAMEDA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
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Federal Area Radon Information for Zip Code: 94514

Number of sites tested: 1

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

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

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2, 3, 5 and 6

Source: Department of Conservation

Telephone: 916-323-1779

RADON

Area Radon Information

Source: EPA

Telephone: 303-236-1525

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

EPA Radon Zones

Source: EPA

Telephone: 202-564-9370

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

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

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"Linking Technology with Tradition"

Sanbornfi Map Report

Ship to: Paul Fry

Earthtec Ltd.

1830 Vernon Street

Roseville, CA 95678

Order Date: 7/23/2002

Completion Date: 07/24/2002

Inquiry #: 818793.2S

P.O. #: NA

Site Name: Schropp Ranch

Address: 3880 Mountain House Road

City/State: Mountain House, CA 94514

1691493DEC

916-786-5262

Cross Streets:

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client-supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

All maps provided pursuant to a Sanbornfi Map Report are currently reproducible of fire insurance maps owned or licensed by Environmental Data Resources, Inc. NO WARRANTY, EXPRESSED OR IMPLIED IS MADE WHATSOEVER. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO ACCURACY, VALIDITY, COMPLETENESS, RELIABILITY, CONDITION, QUALITY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR USE OR PURPOSE WITH RESPECT TO THE REPORT, THE MAPS, OR THE INFORMATION CONTAINED THEREIN, OR THE RESULTS OF A SEARCH OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. Environmental Data Resources, Inc. assumes no liability to any party for any loss or damage whether arising out of errors or omissions, negligence, accident or any other cause. In no event shall Environmental Data Resources, Inc., its affiliates or agents, be liable to anyone for special, incidental, consequential or exemplary damages.

APPENDIX III
WZI INC.
SITE HEALTH AND SAFETY PLAN

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SITE HEALTH AND SAFETY PLAN

I. GENERAL INFORMATION

Client: *Agriculture Industries, Inc.*
Project Number: *0137.0010/Schropp Ranch*
Project Manager: *Stephen G. Muir*
Health and Safety Officer: *Patrick O. Dunn Jr.*
Site Safety Officer: *Stephen G. Muir*
Health and Safety Plan Prepared by: *Stephen G. Muir/Patrick O. Dunn Jr.*
Issue Date: *February 25, 1992*
Effective Period: *180 days*

II. SCOPE AND APPLICATION

The provisions of this Health and Safety Plan (HSP) are based upon an evaluation of known and/or suspected site contamination only, and are designed to minimize health and safety hazards of site activities as described in the Scope of Work. If during the course of site work new chemical contamination is discovered, or additional site activities not described in the Scope of Work become necessary, all work shall stop pending an evaluation of the new information and appropriate modification of this Plan. The Health and Safety Officer shall direct this evaluation.

III. HEALTH AND SAFETY ORGANIZATION

Minimum qualifications, duties, and responsibilities of all site personnel:

Project Manager

Hazardous Waste Field Investigation Experience
Knowledge of Work Plan Procedures and Equipment
Knowledge of Standard Site Safety Procedures and Equipment
Training (40 Hour, 3 Day Site Specific)
Respirator Fit Tested and Trained

Health and Safety Officer

Trained Health and Safety Professional or Equivalent
Site Safety Experience In Hazardous Waste Field Investigations
Knowledge of Work Plan Procedures and Equipment
Knowledge of Standard Site Safety Procedures and Equipment
Training (40 Hour, 3 Day Site Specific)
Respirator Fit Tested and Trained

Site Safety Officer

Site Safety Experience in Hazardous Waste Field Investigations
Knowledge of Work Plan Procedures and Equipment
Knowledge of Standard Site Safety Procedures and Equipment
Air Monitoring Instrument Calibration and Use
Respiratory Protective Equipment Maintenance and Use
Training (40 Hour, 3 Day Site Specific, CPR, First Aid)
Respirator Fit Tested and Trained

Project Personnel

Training (40 Hour, 3 Day Site Specific, 8 Hour Refresher)

Respirator Fit Tested and Trained

Air Monitoring Instrument Calibration

IV. SITE DESCRIPTION AND CHARACTERISTICS

Site Description:

3880 Mountain House Road, Alameda County, California. Ranch shop area in rural area site is flat. A school is present 400 feet east of proposed excavation site.

Topographic Map Attached: _____ yes X no Attached to Work Plan

Location Map Attached: _____ yes X no Attached to Work Plan

V. WORK PLAN

Objectives:

Exploratory trenching to determine if gasoline contaminated soil is present. Minor amounts of contaminated soil will be excavated and stockpiled if found.

Tasks:

1. Preparation of Phase I Investigation
2. Preparation of Work and Health and Safety Plan
3. Exploratory Trenching

VI. HAZARD EVALUATION

Known and/or Suspected Chemical Contaminants on the Site:

<u>Name</u>	<u>CAS #</u>	<u>PEL</u>	<u>IDLH</u>	<u>Health Effects</u>
Gasoline	8006619	300 ppm	5,000 ppm	Central Nervous System
(Benzene)	71432	1 ppm	5,000 ppm	Central Nervous System - Cancer
(Toluene)	108883	100 ppm	5,000 ppm	Central Nervous System
(Xylenes)	1330207	100 ppm	5,000 ppm	Central Nervous System

Chemical Hazards:

Toxic X Ignitable X Corrosive _____ Reactive _____
Medical or Biological Waste _____

Forms of Chemical Hazards:

Solid X Dust X Fiber _____ Fume _____
Liquid _____ Vapor X Gas _____

Special Characteristics:

i.e. shock sensitive or explosives: _____ yes X no

Explain:

Possible Gasoline Contaminated Soil

Physical Agents:

Radiation _____ Noise X Heat Stress _____

Describe:

Noise around heavy equipment.

Safety Hazards:

Heavy equipment operations.

Trenching cave-ins.

Anticipated Hazards by Job Task:

<u>Task</u>	<u>Chemical Hazards</u>	<u>Physical Agents</u>	<u>Safety Hazards</u>
1. <i>Phase I Investigation</i>	<i>None</i>	<i>None</i>	<i>None</i>
2. <i>Work Plan Preparation</i>	<i>None</i>	<i>None</i>	<i>None</i>
3. <i>Exploratory Trenching</i>	<i>Gasoline</i>	<i>Soil and Vapor, Noise</i>	<i>Heavy Equipment, Trenching Cave-ins</i>

VII. SITE STANDARD OPERATING PROCEDURES

A. Personal Protective Equipment (PPE)

WZI Inc. follows the standard U. S. Environmental Protection Agency (EPA) personal protective equipment convention for all hazardous waste field work, described as follows:

Level A PPE

Full encapsulating chemical protective suit, positive pressure demand self-contained breathing apparatus, disposable Tyvek coveralls as the undergarment.

Level B PPE

Positive pressure-demand self-contained breathing apparatus or supplied-air respirator in positive pressure mode, 5 minute escape bottle worn at the hip, chemical protective suit (permeable Tyvek or impermeable coated Tyvek or Saranex coveralls for splash hazards), chemical protective gloves, inner surgical gloves, chemical protective boots with steel toe and steel shank, hard hat.

Level C PPE

Full face or half face air purifying respirator, chemical protective suit (permeable or impermeable coated Tyvek or Saranex coveralls for splash hazards), chemical protective gloves, inner surgical gloves, chemical protective boots with steel toe and steel shank, hard hat, safety glasses if half face respirator is worn.

Level D PPE

Tyvek coveralls, hard hat, steel toed, steel shank work boots, safety glasses, work gloves.

PPE required for each job task depends on the chemical and physical hazards expected of that task, as described above. The following PPE ensembles are assigned to project tasks:

<u>Task</u>	<u>Assigned PPE Ensemble</u>
1. <i>Phase I Investigation</i>	<i>N/A</i>
2. <i>Work Plan Preparation</i>	<i>N/A</i>
3. <i>Exploratory Trenching</i>	<i>Level D</i>

B. Site Control

Initial Site Entry

The WZI Project Manager shall arrange an initial site briefing with the WZI Health and Safety Officer (HSO). Based on the information provided in this initial site briefing and on the nature of magnitude of known or suspected site contaminants and the work plan tasks, the HSO shall determine initial site entry procedures and shall specify them below. It is the responsibility of the Site Safety Officer (SSO) to implement these procedures and direct proper site entry.

Personal Protective Equipment (PPE) ensemble for personnel to wear during initial site entry:

Level D with respirator available. Respirator shall be half mask with organic vapor cartridges (color-coded black and gray)

If Level C PPE is required for initial site entry, then all personnel MUST carry a 5 minute escape air bottle.

Initial Site Entry Procedures:

Level D PPE and as outlined below. Air monitoring with portable photoionization detector (OVM).

Prior to entering the site, the SSO shall calibrate the portable direct-reading air monitoring instruments upwind from site in an uncontaminated area.

The SSO shall then determine background readings for all air monitoring instruments in this same upwind, off-site, uncontaminated area.

The SSO shall record the instrument calibration procedures and results and all background readings in the Site Safety Log Book.

All personnel must enter the site from an upwind position if possible.

C. Work Zones

At the beginning of each work shift the WZI SSO shall perform initial air monitoring with portable direct-reading instruments to identify the area(s) on-site where gas and vapor contamination is present.

Based on these initial air monitoring readings, the SSO shall establish discrete work zones as follows:

Exclusion Zone or "Hot" Zone

The Exclusion Zone or "Hot" Zone shall be defined as follows:

1. Wherever portable direct-reading air monitoring instruments register anything above the background readings established upwind off-site in uncontaminated areas.
2. If portable direct-reading air monitoring instruments read background throughout the site, the exclusion zone shall be defined around the areas; of known or suspected chemical contamination, or where drilling, excavation, soil sampling, or other invasive activity is to be performed.

Decontamination Zones

The SSO shall establish a decontamination corridor adjacent to and upwind from identified exclusion zones. The SSO shall set up both equipment and personnel decontamination areas outlined under "Decontamination Procedures" below.

Support Zone

The SSO shall establish support zones upwind from the decontamination corridor where all portable direct-reading air monitoring instruments read background, at a distance of at least 20 meters from the exclusion zone.

The support zone shall be established such that support personnel may observe all personnel in the exclusion zone at all times.

If personnel must enter trenches or other excavations, a "buddy" shall remain near the excavation to maintain visual contact ("line of sight") with the personnel inside the excavation at all times. The SSO shall develop and teach all site personnel a system of hand signals that will enable the "buddy" to indicate to support zone personnel that an emergency exists inside the excavation.

The SSO shall monitor the area at least every 15 minutes with the portable direct-reading air monitoring instruments to detect any changes in gas or vapor contaminant dispersion on-site. In addition, the Action Levels and corresponding Actions as described in the HSP shall be followed.

If the wind changes direction and/or gas, vapor, or dust contamination moves into the established decontamination or support zones in concentrations that exceed permissible Action Levels established by the HSP, then the SSO shall direct site personnel to move the support zone to the new upwind area, confirming the absence of gas or vapor contamination with the portable direct-reading air monitoring instruments.

D. Air Monitoring

Direct-Reading Air Monitoring Instruments

The follow direct-reading instruments are available for field work (check all that apply):

Organic Gases and Vapors:

Thermo Environmental Organic Vapor Meter (OVM)	<u> X </u>
HNu Photoionizer	_____
Photovac Microtip	_____
Foxboro Organic Vapor Analyzer	_____
Colorimetric Detector Tubes	<u> X </u>

Inorganic Gases:

Hydrogen Sulfide Detector

Hydrogen Cyanide Detector

Combustible Gases, Vapors, and Oxygen Detector

Combination Combustible Gas / Oxygen Detector, (calibrated to the combustible gas or vapor expected).

Ionizing Radiation

Geiger-Mueller counter capable of detecting alpha, beta, and gamma radiation.

U. S. EPA Direct-Reading Air Monitoring Instrument Action Levels and Actions for Hazardous Waste Operations

Monitoring Results (Action Level)	Action
-----------------------------------	--------

Total Organic Vapors:

0 ppm or "background" (BG)	Level D PPE
Above BG to 5 ppm breathing zone	Level C PPE
5-500 ppm breathing zone	Level B PPE
500-1000 ppm breathing zone	Level A PPE
>1000 ppm breathing zone	Evacuate

Inorganic Gases (H₂S, HCN)

Background to 5 ppm breathing zone
5-40 ppm breathing zone
>40 ppm breathing zone

Level D PPE
Level B PPE
Level A PPE or evacuate

Flammable Gases and Vapors

Background

Level D PPE

BG-20% LEL

Level D PPE if methane;

evacuate if organic vapors also read >
1000 ppm

>20% LEL

Ventilate below 20% LEL; stop work if
unsuccessful

Oxygen

19.5%-21%

Level D or Level C PPE

<19.5%

Level B PPE

Radiation

Background

Continue work

Two times background

Stop work. Call Environmental Health
Department. Monitor area thoroughly.
Call HSO.

Site Specific Air Monitoring Equipment and Procedures

<u>Air Monitoring Instrument</u>	<u>Contaminants</u>	<u>Where Monitored</u>	<u>Frequency of Monitoring</u>	<u>Action Level</u>	<u>Action</u>
HNu, OVM or Microtip Photoionizer	Organic Vapors				
Foxboro OVA	Organic Vapors				
Combustible Gases Indicator	Combustible Gases and Vapors and Oxygen				
Hydrogen Sulfide Detector	Hydrogen Sulfide				
Colorimetric Tubes	Organic and Inorganic Gases and Vapors				
Radiation Detector	Ionizing Radiation				
Other					

Special Air Sampling Procedures:

None.

E. Site Safe Work Practices

1. *Daily Safety Meeting*
2. *On-Site Health and Safety Monitoring*
3. *All trenches shall be sloped at or beyond the angle of repose.*

F. Trenching and Excavation Safety Procedures

G. Decontamination

Personnel

Personnel will wear Tyvek garments and gloves. These will be disposed of on-site.

Equipment

1. *Wash down on-site and rinse with clean water.*

H. Procedures for Disposal of Wastes and Derived Materials

1. *All waste water and soil will be placed on contaminated soil pile and covered.*

I. Site Safety Meetings

Before beginning site work the SSO shall conduct a site safety meeting to discuss the following:

the tasks to be performed;

the safe work practices to be followed to minimize exposure to chemical and physical agents and to minimize accidents

The SSO shall document the date, time, and attendance of all site safety meetings together with a short description of the topics discussed in Appendix A of this Plan.

J. Prohibited Activities and Work Limitations

- o No eating, drinking, smoking, or chewing of tobacco
- o Enter exclusion zones with a buddy at all times
- o No "Hot Work" - Welding, Cutting, Grinding without permission from SOS (Hot Work Permit)
- o Daylight hours only

K. Health and Safety Equipment and Materials

Respirators

Coated or Uncoated Tyvek

Chemical Protective Gloves

Duct Tape

Safety Glasses

Hard Hat

Steel-Toed Steel Shank Chemical Protective Boots

Decontamination Materials

Drinking Water and Cups

Folding Table and Chairs

Parasol

Clock

Walkie Talkies

First Air Kit

Blue Ice

ABC Fire Extinguishers

Emergency Alarm Equipment

L. Record Keeping

Site Safety Log

Site Conditions

Work Progress

Air Monitoring Instrument Readings

Air Monitoring Instrument Calibration

Personnel Training Documentation

Respirator Fit Testing Records

VIII. MEDICAL SURVEILLANCE

All site employees must be enrolled in a medical surveillance program if they meet any of the following conditions: (Title 8 CCR 5192(f))

1. If an employee is or may be exposed at or above the Cal-OSHA Permissible Exposure Limit (PEL) (or to other published exposure limits if a PEL doesn't exist for a specific chemical) or 30 days or more per year, without regard to the use of respirators;
2. If any employee wears a respirator for any part of any day for 30 days or more per year;
3. If an employee becomes, injured, ill, or develops signs or symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation.

IX. SPILL CONTAINMENT PLAN

Not Applicable

X. EMERGENCY CONTINGENCY PLAN

Attach Map Showing Evacuation Route from Site to Nearest Hospital: *Attached*

Emergency Telephone Numbers

Ambulance 911
Fire 911
Police 911
WZI Office (805) 326-1112

Emergency Alarm and Communication Procedures

1. *Hand signals shall be developed before site work begins to communicate at a distance in noisy areas.*
2. *Radio communication with emergency teams.*

Emergency evacuation and equipment shutdown procedures must be developed, understood, and rehearsed by all site personnel before project work begins.

Emergency Evacuation Procedures

1. *Shut all equipment down.*
2. *Evacuate site upwind.*
3. *Meet at safety point.*
4. *Determine status of personnel.*
5. *Advise authorities/WZI as appropriate.*

XI. APPROVALS

Health and Safety Plan Prepared by:

Name

Signature

Date

Health and Safety Plan Approved by:

WZI Project Manager

Signature

Date

WZI Health and Safety Officer

Signature

Date

WZI Site Safety Officer

Signature

Date

APPENDIX V
WZI SOIL AND WATER SAMPLE PROTOCOL

Soil Sampling with Drill Rig

A two and one-half split spoon sampler fitted with three (3) six inch stainless steel or brass sample tubes will be used to collect samples. In each borehole, samples will be collected at five foot intervals at a predetermined depth. After drilling to each sampling depth, the sampling apparatus will be inserted into the hollow auger and driven into the undisturbed soil beneath the borehole.

Upon recovery, the lower two (2) sample tubes, designated A and B, will be sealed by covering with aluminum foil, capping with plastic and sealing with cloth tape. This sample recovery method minimizes head space in the sample tubes. The samples will then be stored on ice pending delivery to a certified laboratory for chemical analysis and accompanied by appropriate Chain of Custody documents. The material in the third tube and in the sample "shoe" will be examined and described, then discarded. Sample descriptions will include lithology, moisture content, fossil content, and odor. Samples will also be checked with an Organic Vapor Meter (OVM). Lithologic logs for each borehole will be compiled utilizing the sample descriptions.

The sample will be washed with a non-phosphate cleaner and double rinsed with water after each use. Auger flights will be steam cleaned after drilling each borehole. This will assure that contamination is not transferred to other boreholes. The cleaning will take place on established cleaning sites and the effluent will be contained.

Uncontaminated boreholes (as determined by OVM field tests) will be backfilled with the same material or cuttings extracted from the hole during drilling after placing five feet of bentonite in the bottom of the hole. Boreholes found to have contaminated soil will be

backfilled with a cement and sand slurry containing no more than five percent bentonite. The cuttings from these holes will be placed in U. S. Environmental Protection Agency (EPA) approved, 55 gallon barrels with lids, stored on-site pending laboratory analysis and disposed of at an approved facility if necessary, with the appropriate Chain of Custody documents. Within 30 days a mitigation report will be submitted to the Department of Environmental Health Services which will include three (3) remediation methods. The report will be signed by a Registered Geologist or a Registered Civil Engineer.

Water Sampling

All equipment that is used in a monitoring well for purging, sampling or depth measurement shall be decontaminated by steam cleaning or a TSP wash and triple rinse procedure prior to use and before reusing when purging or sampling.

1. Start at the furthest up gradient well and work down gradient. When contamination is suspected, sample the clean wells first.
2. Obtain access to well and check well head for damage or tampering.
3. Measure depth to groundwater and calculate well volume.
4. Check and record pH, temperature and conductivity.
5. Purge a minimum of three to five well volumes, cleaning the bailer between runs. The purging rate should not be so great as to dry the well or have the formation water cascade down the casing. If purging causes the well to be pumped dry allow it to recharge for up to 24 hours prior to sampling. If it does not recharge within 24 hours, it is considered a dry well.
6. Dump or pump purged water directly into barrels on-site and hold for proper disposal.

7. After purging check and record pH, temperature and conductivity every ten minutes until they stabilize. Stability is indicated by having two consecutive measurements within 0.5 units of pH, within 2 °F for temperature and within five percent for conductivity.
8. Pour samples from bailer directly into sample bottles. For bottles without preservation - rinse cap and bottle two to three times with well water and fill keeping the head space to a minimum. For bottles with a preservative DO NOT RINSE just fill and maintain a minimum head space.
9. Place samples in cooler with "dry ice" or "blue ice" for transportation to the laboratory.
10. Deliver samples to the laboratory the same day of sampling, whenever practical. If next day delivery is necessary, the samples are to be kept refrigerated at 39 °F (4 °C) overnight and delivered to the laboratory the following morning.
11. A "Chain of Custody Document" will accompany the samples at all times.
12. Repeat depth measurements, and record values.
13. Secure well head.

SGM/jb

0137.0010.011

LOG OF MW - 1

WELL COMPLETION DIAGRAM	ANALYSES		Blowcount	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s. desig	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH ppm	Hnu P.I.D. ppm							
<p>Locking Well Cap</p> <p>1 BLANK CASING 2" SCHEDULE 40 PVC</p> <p>2 CEMENT SURFACE SEAL</p> <p>3 3" BENTONITE SEAL</p> <p>4 MONTEREY NO. 2 SAND PACK</p> <p>5 SCREENED CASING</p> <p>BENTONITE SEAL</p>				0					DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	6	10	X	MW-1-11.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	11	11	X				
	ND	0	22	15	X	MW-1-16.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	5	12	X				
	ND	0	21	20	X	MW-1-21.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	6	13	X				
	ND	0	22	25	X	WL-1-26.5			DARK BROWN, FINE TO MEDIUM GRAINED SAND, LOCAL GRAVEL BED TO 1 FOOT THICK. NO PETROLEUM ODOR.
	ND	0	8	15	X				
	ND	0	31	30	X	MW-1-31.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	8	17	X				
	ND	0	35	35					

SURFACE ELEVATION: 89.853
 TOTAL DEPTH: 31.5 FEET
 DATE DRILLED: 9-26-93

LOGGED BY: S. G. MUIR
 DIAMETER OF BORING: 8"
 WATER ENCOUNTERED AT: 15.020'

AGRICULTURE INDUSTRIES
 SCHROPP RANCH
 0137.0010

LOCATION: SOUTHEAST CORNER MAIN YARD

LOG OF MW - 2

WELL COMPLETION DIAGRAM	ANALYSES		Blowcount	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s. desig	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH ppm	Hnu P.I.D. ppm							
Locking Well Cap				0					
		0		5					DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND ND	0	5 10 21	10	X	MW-2-11.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND ND	0	5 11 21	15	X	MW-2-16.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND ND	0	6 14 23	20	X	MW-2-21.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND ND	0	8 16 30	25	X	WL-2-26.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND ND	0	8 18 34	30	X	MW-2-31.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
				35					
				40					
				45					

- ① BLANK CASING
2" SCHEDULE 40 PVC
- ② CEMENT SURFACE SEAL
- ③ 3" BENTONITE SEAL
- ④ MONTEREY NO. 2 SAND PACK
- ⑤ SCREENED CASING

SURFACE ELEVATION: 91.848
 TOTAL DEPTH: 31.5 FEET
 DATE DRILLED: 9-26-93

LOGGED BY: S. G. MUIR
 DIAMETER OF BORING: 8"
 WATER ENCOUNTERED AT: 15.0900"

AGRICULTURE INDUSTRIES
 SCHROPP RANCH
 0137.0010
 WZI

LOCATION: SOUTHWEST CORNER MAIN YARD

LOG OF MW - 3

WELL COMPLETION DIAGRAM	ANALYSES		Blowcount	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s. desig	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH ppm	Hnu P.I.D. ppm							
<p>Locking Well Cap</p> <p>1 BLANK CASING 2" SCHEDULE 40 PVC</p> <p>2 CEMENT SURFACE SEAL</p> <p>3 3' BENTONITE SEAL</p> <p>4 MONTEREY NO. 2 SAND PACK</p> <p>5 SCREENED CASING</p> <p>BENTONITE SEAL</p>				0					DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	6	10	X	MW-3-11.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	10	15	X	MW-3-16.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	11	20	X	MW-3-21.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	14	25	X	WL-3-26.5			DARK BROWN, FINE TO MEDIUM GRAINED SAND, LOCAL GRAVEL BEDS UP TO 2 FEET THICK. NO PETROLEUM ODOR.
	ND	0	17	30	X	MW-3-31.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	18	35					
	ND	0	37	40					
				45					

SURFACE ELEVATION: 89.240
 TOTAL DEPTH: 31.5 FEET
 DATE DRILLED: 9-26-93

LOGGED BY: S. G. MUIR
 DIAMETER OF BORING: 8"
 WATER ENCOUNTERED AT: 16.550'

AGRICULTURE INDUSTRIES
 SCHROPP RANCH
 0137.0010
 WZI

LOCATION: NORTHWEST CORNER MAIN YARD

WELL COMPLETION DIAGRAM	ANALYSES		Blowcount	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s. desig	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Ben-zene TPH ppm	Hnu P.I.D. ppm							
<p>Locking Well Cap</p> <p>1 BLANK CASING 2" SCHEDULE 40 PVC</p> <p>2 CEMENT SURFACE SEAL</p> <p>3 3' BENTONITE SEAL</p> <p>4 MONTEREY NO. 2 SAND PACK</p> <p>5 SCREENED CASING</p> <p>BENTONITE SEAL</p>				0					DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	5	10	X	MW-4-11.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	5	15	X	MW-4-16.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	6	20	X	MW-4-21.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	8	25	X	WL-4-26.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.
	ND	0	8	30	X	MW-4-31.5			DARK BROWN, FINE TO MEDIUM GRAINED SAND, LOCAL GRAVEL BEDS UP TO 4 FEET THICK. NO PETROLEUM ODOR.
	ND	1.3	8	35	X	MW-4-31.5			DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR.

SURFACE ELEVATION: 88.180
 TOTAL DEPTH: 36.5 FEET
 DATE DRILLED: 10-14-93

LOGGED BY: S. G. MUIR
 DIAMETER OF BORING: 8"
 WATER ENCOUNTERED AT: 17.820'



AGRICULTURE INDUSTRIES
 SCHROPP RANCH
 0137.0010

LOCATION: NORTHEAST CORNER MAIN YARD

WZI

LOG OF MW - 5

WELL COMPLETION DIAGRAM	ANALYSES		Blowcount	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s. desig	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH ppm	Hnu P.I.D. ppm							
<p>Locking Well Cap</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>BENTONITE SEAL</p> <p>1 BLANK CASING 2" SCHEDULE 40 PVC</p> <p>2 CEMENT SURFACE SEAL</p> <p>3 3' BENTONITE SEAL</p> <p>4 MONTEREY NO. 2 SAND PACK</p> <p>5 SCREENED CASING</p>				0					DARK BROWN, FINE GRAINED SAND AND SILT, MOIST, MICACEOUS. NO PETROLEUM ODOR. ARTIFICIAL FILL PLACED IN EXCAVATION TO 35 FEET.
			6	10					
		0	10	23					
			5	15					
		0	5	13					
			13	22					
			6	20					
		0	6	14					
			14	23					
			8	25					
		0	8	16					
			16	32					
			8	30					
		0	8	18					
			18	36					
				35					
				40					
				45					

SURFACE ELEVATION: 90.166
 TOTAL DEPTH: 31.5 FEET
 DATE DRILLED: 10-14-93

LOGGED BY: S. G. MUIR
 DIAMETER OF BORING: 8"
 WATER ENCOUNTERED AT: 17.420'

AGRICULTURE INDUSTRIES
 SCHROPP RANCH
 0137.0010

LOCATION: CENTER OF MAIN YARD

WZI



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Date: 4/24/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635

Contact: Tim McIsaac

Project Name: Ag. Industries, Tracy Date Received: 4/21/92
Date Started: 4/22/92
Project Number: Date Completed: 4/24/92

Sampled by: Don Light

Sample ID: SS-1, 10'6" Time: 1100 Date: 4/20/92

Lab ID: PH2042578

Method: 8020

Analyte	Amount Found (ug/Kg)	MDL (ug/Kg)
Benzene	880	3.0
Toluene	10200	3.0
Ethyl Benzene	4800	3.0
Total Xylene	46000	3.0

Method: 5030/Mod. 8015

Analyte	Amount Found (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	1140	1

QC:

BTEX MS/MSD Avg. Recovery: 102%, RPD<11%
TPH MS/MSD Avg. Recovery: 100%, RPD<1%

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Date: 4/24/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635

Contact: Tim McIsaac

Project Name: Ag. Industries, Tracy

Date Received: 4/21/92

Date Started: 4/22/92

Date Completed: 4/24/92

Project Number:

Sampled by: Don Light

Sample ID: SS-2, 19'6"

Time: 1435

Date: 4/20/92

Lab ID: PH2042579

Method: 8020

Analyte	Amount Found (ug/Kg)	MDL (ug/Kg)
Benzene	22800	3.0
Toluene	44400	3.0
Ethyl Benzene	7100	3.0
Total Xylene	33000	3.0

Method: 5030/Mod. 8015

Analyte	Amount Found (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	1050	1

QC:

BTEX MS/MSD Avg. Recovery: 102%, RPD<11%
TPH MS/MSD Avg. Recovery: 100%, RPD<1%

Paul Freehauf
Paul Freehauf
Laboratory Director



DEL-TECH Geotechnical Support Services
Donald E. Light, President

10624 Olive Avenue
Oakdale, CA 95361
(209) 847-8757
FAX (209) 847-8757

DATE: 4/29/92
~~4/23/92~~

FAX TRANSMISSION

Company Name: WZT

Attn: STEVE MUR

FAX No. ~~(209) 339-8997~~ (805) 326-0191

Number of pages: 1 + 1

Message:

Hi Steve,

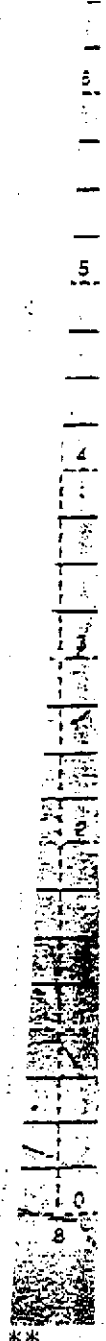
I left a message on your machine.

HERE IS THE SITE SAMPLING MAP.

HAVE A GOOD DAY,

Jon

P.S. I TRIED YOUR FAX IN LODI SEVERAL TIMES, THERE WAS NO TONE OR THE UNIT WAS OFF.



38. MT. HOUSE / TRACY

DATE

4/22/92

FLOW OF IRRIGATION WATER

OPEN FIELD

OPEN CANAL

DIRT ROAD

N

NOT TO SCALE

HOUSE

HAY BARN

POWER POLE

ELECTRICAL DISTRIBUTION

PRODUCTION WELL

GRABBE

LIGHT POLE

FORMER TANK

CLEAN OPPM

IRRIGATION PIPE LINE

15" CONCRETE

24" BURIAL

LOCATION DEPTH

SB-1	16'
SB-2	16'6"
SB-3	14'
SB-4	18'
SB-5	20'
SB-6	19'
SB-7	19'6"
SB-8	18'
SB-9	18'6"

recursive
CONT. OF

AVG. DEPTH TO CONTAMINATION - 16'

4800 Easton Drive, Suite 114
Bakersfield, California 93309

Post Office Box 9217
Bakersfield, California 93389

805-326-1112
805-326-0191 FAX

83 East Shaw Avenue, Suite 250
Fresno, California 93710

209-222-1667
209-222-2630 FAX


WZI INC.

FAX LEAD SHEET

To: **Mr. Scott Applin**
Company: **Bay Area Air Quality Management District**
From: **Steve Muir**
Subject: **Notice of Intent to Conduct Aeration of Hydrocarbon
Contaminated Soil
Schropp Ranch**

Message:

Total Number of Pages, Including Cover Page: **eleven (11)**

Date Transmitted: **July 24, 1992**

Fax Number: **415-928-8560**

Telephone Number

Charge Number: **0137.0010**

File Number: **0137.0010**

**CONFIRMING TELEPHONE NUMBER IS (805) 326-1112
WZI INC. FAX NUMBER IS (805) 326-0191**

Oper.: Date Sent: Time Sent: Initials: Return Original: Y N Copy Sender: Y N



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 8 26th Time: 1530 Date: 7/02/92

Lab ID: PH2071045

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	110	3.0
Ethyl Benzene	26	3.0
Total Xylene	308	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	104	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 7 ^{60⁰} Time: 1530 Date: 7/02/92

Lab ID: PH2071044

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	8	3.0
Ethyl Benzene	6	3.0
Total Xylene	6	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	6	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Project Number: Date Started: 7/06/92
Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 6 48" Time: 1530 Date: 7/02/92

Lab ID: PH2071043

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	45	3.0
Ethyl Benzene	15	3.0
Total Xylene	115	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	80	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 5 36¹ Time: 1530 Date: 7/02/92

Lab ID: PH2071042

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	8	3.0
Ethyl Benzene	ND	3.0
Total Xylene	7	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	6	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 4 ^{40'} Time: 1530 Date: 7/02/92

Lab ID: PH2071041

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	4	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	2.4	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 3 76" Time: 1530 Date: 7/02/92


Lab ID: PH2071040

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119



7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 2 72" Time: 1530 Date: 7/02/92

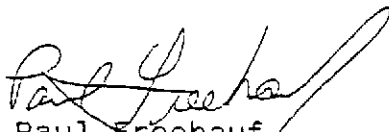
Lab ID: PH2071039

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac,

Sample ID: Soil 1 ^{2th} Time: 1530 Date: 7/02/92

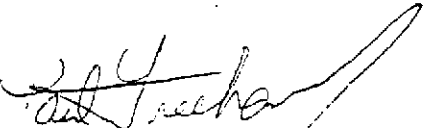
Lab ID: PH2071038

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	5	3.0
Ethyl Benzene	ND	3.0
Total Xylene	4	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	2.6	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil T-1 Time: 1530 Date: 7/02/92


Lab ID: PH2071046

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch Date Received: 7/08/92
Project Number: Date Started: 7/08/92
Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-2-16 Time: 1600 Date: 7/07/92


Lab ID: PH2071092

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	3	3.0
Total Xylene	4	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	1.8	1.0


Paul Freehauf
Laboratory Director

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch Date Received: 7/08/92
Date Started: 7/08/92
Project Number: Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-2-23 Time: 1600 Date: 7/07/92

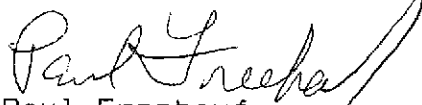
Lab ID: PH2071093

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/08/92

Project Number:

Date Started: 7/08/92

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-3-16

Time: 1600

Date: 7/07/92


Lab ID: PH2071094

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	1200	3.0
Toluene	230	3.0
Ethyl Benzene	790	3.0
Total Xylene	475	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	112	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/08/92

Date Started: 7/08/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-4-16

Time: 1600

Date: 7/07/92


Lab ID: PH2071095

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	52	3.0
Toluene	770	3.0
Ethyl Benzene	175	3.0
Total Xylene	400	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	170	1.0


Paul Freehauf
Laboratory Director



**Sherwood
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CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/08/92

Project Number:

Date Started: 7/08/92

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-4-23

Time: 1600

Date: 7/07/92

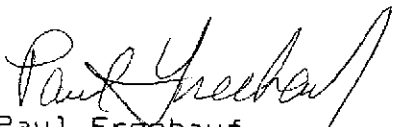
Lab ID: PH2071096

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



Sherwood Labs

C O R P O R A T I O N

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/08/92

Project Number:

Date Started: 7/08/92

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-5-16

Time: 1600

Date: 7/07/92


Lab ID: PH2071097

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	3	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	1	1.0


Paul Freehauf
Laboratory Director



7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch Date Received: 7/09/92
Project Number: Date Started: 7/09/92
Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-7-23 Time: 1530 Date: 7/08/92


Lab ID: PH2071478

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Project Number:

Date Started: 7/09/92

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-7-16

Time: 1530

Date: 7/08/92

Lab ID: PH2071477

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-6-23

Time: 1530

Date: 7/08/92


Lab ID: PH2071476

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Project Number:

Date Started: 7/09/92

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-6-16

Time: 1530

Date: 7/08/92


Lab ID: PH2071475

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	6	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-8-15

Time: 1530

Date: 7/08/92

Lab ID: PH2071479

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf

Laboratory Director



7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-8-17

Time: 1530

Date: 7/08/92

Lab ID: PH2071480

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	79	3.0
Ethyl Benzene	11	3.0
Total Xylene	65	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	26.2	1.0

Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-9-17

Time: 1530

Date: 7/08/92


Lab ID: PH2071481

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	3	3.0
Toluene	49	3.0
Ethyl Benzene	3	3.0
Total Xylene	60	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	11.7	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/13/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by : Tim McIsaac

Sample ID: TH-9-20

Time: 1530

Date: 7/08/92


Lab ID: PH2071482

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92

Date Started: 8/20/92

Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH1-3

Time: 0900

Date: 8/12/92

Lab ID: PH2081546

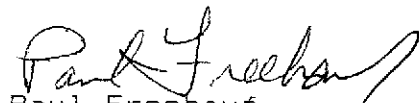
Lab Report #: H2082014

Method: B020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92
Date Started: 8/20/92
Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH1-6

Time: 0900

Date: 8/12/92

Lab ID: PH2081547


Lab Report #: H2082014

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92
Date Started: 8/20/92
Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH2-3

Time: 0900

Date: 8/12/92

Lab ID: PH2081548

Lab Report #: H2082014

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92
Date Started: 8/20/92
Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH2-6

Time: 0900

Date: 8/12/92

Lab ID: PH2081549

Lab Report #: H2082014

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92

Date Started: 8/20/92

Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH2-10

Time: 0900

Date: 8/12/92

Lab ID: PH2081550

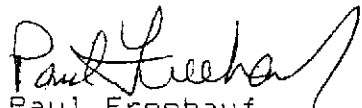
Lab Report #: H2082014

Method: B020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director

8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92
Date Started: 8/20/92
Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH3-3

Time: 0900

Date: 8/12/92

Lab ID: PH2081551


Lab Report #: H2082014

Method: B020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



8/26/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 8/20/92
Date Started: 8/20/92
Date Completed: 8/26/92

Sampled by: Tim McIsaac

Sample ID: TH3-6

Time: 0900

Date: 8/12/92

Lab ID: PH2081552

Lab Report #: H2082014

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director

APPENDIX II-2

ANALYTICAL LABORATORY RESULTS OF
SOIL SAMPLES FROM EXCAVATION

D&W Engineering



**Sherwood
Labs**
CORPORATION

8071 N. Lander Avenue, P.O. Box 937
Hilmar, California 95324
(209) 667-5258 / FAX (209) 667-2581

CHAIN OF CUSTODY RECORD

Lab Report # ~~H3060301~~ H3002411

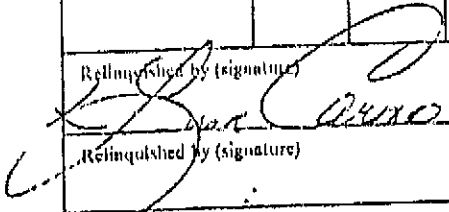
Project Name: Schropp Ranch

Sampler's Name Tim McIsaac

Project Number: _____

Date: 6/17/93

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
SS 40 N/30 E			SOIL	1	28'	GAS	
SS 30'S 25'N			"	1	20'	GAS	

Relinquished by (signature)


Received By:	<u>S. ROSSOW</u>	Date	Time
		<u>6/17</u>	<u>9:20</u>
Received By:		Date	Time
Received By:		Date	Time

NOTES:



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

6/24/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries, Inc.
30002 Beacon Ave
Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 6/17/93

Date Started: 6/18/93

Project Number: 0137.0010

Date Completed: 6/21/93

Sampled By: Tim McIsaac

Date Taken: 6/17/93

Lab Report #: H3062411

RESULTS: BTEX-EPA 8020
ug/Kg

TPH
EPA 5030/8015(M)
mg/Kg

	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH3062867 ¹⁴ SS 40' N 30' E Location: 28'	390	8	3	15	4.1
PH3062868 SS 30' N 25' NE Location: 20'	80	8	11	23	14

Paul Freehauf
Paul Freehauf
Laboratory Director



7/07/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries Inc.
30002 Beacon Avenue
West Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/02/93
Date Started: 7/02/93
Date Completed: 7/07/93

Sampled By: Tim McIsaac

Date Taken: 7/01/93

Lab Report #: H3070603

RESULTS:	EPA 8020 ug/Kg		EPA 5030/B015(M) mg/Kg		TPH-Gasoline
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	
✓ PH3070303 (2) 150' N 30' E 28' Deep	180	3	ND	ND	1.1
✓ PH3070304 (3) 200' N 20' E 28' Deep	78	3	ND	9	1
✓ PH3070305 (4) 210' N 5' E 21' Deep	31	420	330	1400	450
✓ PH3070306 (5) 200' N 40' E 28' Deep	ND	ND	ND	ND	ND
✓ PH3070307 (6) 210' N 40' E 20' Deep	ND	ND	ND	ND	ND

Paul Freehauf

Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # 43070463

Project Name: ~~Schnoff Ranch~~ W21

Sampler's Name Tim & Bob

Project Number: Schnoff Ranch

Date: 7/2

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS	
1	7/1	1PM	H ₂ O		TANK	TPH TPH C		
2	6/29		soil		150' N 30' E 28' Deep	TPH TPH C CRUDE OIL		
3	7/1		soil		200' N 20' E 28' Deep	}		
4	7/1		soil		210' N 5' E 21' Deep			
5	7/2		soil		200' N 40' E 28' Deep			
6	7/2		soil		210' N 40' E 20' Deep			

Relinquished by (signature) <u>Tim & Bob</u>	Received By: <u>Joc. N. Santos Jr.</u> SHERWOOD LABS	Date <u>7/2/93</u>	Time <u>1:38P</u>
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/12/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/07/93

Date Started: 7/08/93

Sampled By: Tim McIsaac

Date Completed: 7/09/93

Date Taken: 7/07/93

Lab Report #: H3070814

RESULTS:	EPA 8020 ug/Kg		EPA 5030/8015(M) mg/Kg		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH3070904 (1) 210' N100' E 19' Deep	35	250	270	920	285

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # _____

Project Name: Mt. Seac / Ag Industries Sampler's Name _____

Project Number: Schnapp Ranch Date: _____

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/7	1030 AM	Soil		210' N 100' E 17' deep	TPH G TPH D	

Relinquished by (signature) <u>[Signature]</u>	Received By: <u>[Signature]</u> SHERWOOD LABS	Date	Time
Relinquished by (signature)	Received By:	7/7/93	4:17 PM
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/12/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Taken: 7/07/93

Date Received: 7/07/93
Date Started: 7/08/93
Date Completed: 7/09/93

Lab Report #: H3070B14

RESULTS:	EPA 8020 ug/Kg	Ethyl Benzene,	Total Xylene	EPA 5030/8015(M) mg/Kg	
	Benzene, Toluene,	Benzene,	Xylene	TPH-Gasoline	
3 PH3070904 (1) 148 210' N100'E 19' Deep	40	1000	620	1400	325
4 PH3070898 (2) 140 200' N90'E 28' Deep	ND	ND	ND	4	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H3070812

Project Name: Aq Industries

Project Number: SCROPP Ranch

Sampler's Name: _____

Date: _____

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/6	10:30 AM	Soil		210' N 100' E 17' Deep	TPH G TPH D	
2	7/6	2 PM	Soil		200' N 95' E 28' Deep	TPH G TPH D	

Relinquished by (signature) <i>[Signature]</i>	Received By: <i>Joe V. Noto Jr.</i>	Date 7/6/93	Time 3:43
	Received By: <i>[Signature]</i>	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/20/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/12/93
Date Started: 7/13/93
Date Completed: 7/16/93

Sampled By: Tim McIsaac
Date Sampled: 7/08/93

Lab Report #: H3071601

RESULTS: BTEX-EPA 8020
ug/Kg

TPH/Gasoline-EPA 5030/8015(M)
TRPH/Diesel -EPA 3540/8015(M)
mg/Kg

		Benzene, Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH	
⑤ 126	PH3071329 (1) 180N 40E 22' Deep	4	400	720	1250	160 Gasoline
⑥ 126	PH3071330 (2) 180N 60E 29' Deep	ND	ND	ND	ND	ND
⑦ 91	PH3071331 (3) 130N 45E 21' Deep	15	710	1500	2300	530 Gasoline
⑧ 98	PH3071332 (4) 140N 90E 21' Deep	ND	ND	ND	ND	ND
⑨ 84	PH3071333 (5) 120N 90E 21' Deep	8	20	145	460	80 Gasoline

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H3071401

Project Name: Ag. Industries

Sampler's Name: Tim McIsaac

Project Number: SALVOPP RANCH

Date: 7/8

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/8	10:30 AM	SOIL		150' N 60' E 27' Deep	TPHC TPHD	
2	7/8	1 PM	SOIL		150' N 60' E 29' Deep	}	
3	7/13	9:30 AM	SOIL		130' N 45' E 21' Deep		
4	7/13	9:50	SOIL		140' N 90' E 21' Deep		
5	7/13	12:10 PM	SOIL		170' N 90' E 21' Deep		

Relinquished by (signature): <u>[Signature]</u>	Received By: <u>[Signature]</u> SHERWOOD LABS	Date: <u>7/13/93</u>	Time: <u>1:33 PM</u>
Relinquished by (signature):	Received By:	Date:	Time:
Relinquished by (signature):	Received By:	Date:	Time:

NOTES:



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7/20/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
 30002 Beacon Avenue
 W Sacramento, CA 95691
 Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/13/93
 Date Started: 7/14/93
 Date Completed: 7/19/93

Sampled By: Tim McIsaac
 Date Sampled: 7/12/93, 7/13/93

Lab Report #: H3071602

RESULTS: BTEX-EPA 8020
 ug/Kg

TPH/Gasoline-EPA 5030/8015(M)
 TRPH/Diesel -EPA 3540/8015(M)
 mg/Kg

		Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH
84	PH3071334 (1) 120N 50E 30' Deep	ND	ND	ND	ND	ND
81	PH3071335 (2) 115N 50E 28' Deep	ND	ND	ND	ND	ND
70	PH3071336 (3) 100N 50E 21' Deep	41	19	18	78	6.5 Gasoline
70	PH3071337 (4) 100N 70E 21' Deep	7	20	68	350	2.5 Gasoline
60	PH3071338 (5) 85N 60E 18' Deep	4	36	50	300	23 Gasoline

Paul Freehauf
 Paul Freehauf
 Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H3071402

Project Name: Key Industrial Facility

Sampler's Name: Tom McIsaac

Project Number: Schnapp Rel

Date: _____

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/12	2 PM	Soil		120' N 90' E 50' D	TPNG TPND	
2	7/13	11:30 AM	}		115' N 90' E 28' D	}	
3					100' N 50' E 21' D		
4					100' N 90' E 21' D		
5					85' N 60' E 18' D		

Relinquished by (signature): <u>[Signature]</u>	Received By: <u>[Signature]</u>	Date: <u>7/13/73</u>	Time: <u>2:46 PM</u>
Relinquished by (signature): _____	Received By: _____	Date: _____	Time: _____
Relinquished by (signature): _____	Received By: _____	Date: _____	Time: _____

NOTES:



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7/21/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Sampled: 7/14/93

Date Received: 7/14/93
Date Started: 7/15/93
Date Completed: 7/16/93

Lab Report #: H3071603

RESULTS: BTEX-EPA 8020
ug/Kg

TPH/Gasoline-EPA 5030/8015(M)
TRPH/Diesel -EPA 3540/8015(M)
mg/Kg

	Benzene, Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH
PH3071339 35N 50E 21' Deep	ND	ND	3	7 1 Gasoline
PH3071340 45N 90E 21' Deep	ND	ND	ND	ND
PH3071341 40N 45E 35' Deep	4	ND	ND	ND
PH3071342 40N 90E 30' Deep	3	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H307160³
Project Name: Ag Industries
Project Number: Schnopp Remcl

Sampler's Name Tom McLean
Date: 7/14

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/14	NAM	SOIL		35' N 50' E 21' DEEP	TPH TPH D TPH G	
2	7/14	11AM	}		45' N 90' E 11' DEEP	}	
3		2PM			40' N 45' E 30' DEEP		
4		2PM			40' N 90' E 30' DEEP		

Relinquished by (signature) <i>Tom McLean</i>	Received By: <i>Joe V. Santos Jr.</i>	Date 7/14/93	Time 2:12 P.
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/21/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
 30002 Beacon Ave.
 W Sacramento, CA 95691
 Attn: Dick Jones

Project Name: Schropp Ranch
 Sampled By: Tim McIsaac
 Date Sampled: 7/15/93

Date Received: 7/15/93
 Date Started: 7/16/93
 Date Completed: 7/19/93

Lab Report #: H3071605

RESULTS: BTEX-EPA 8020
 ug/Kg

TPH/Gasoline-EPA 5030/8015(M)
 TRPH/Diesel -EPA 3540/8015(M)
 mg/Kg

	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH
PH3071352	ND	ND	ND	ND	ND
18 25N 90E 21' Deep					
PH3071353	20	25	19	70	23 Gasoline
7 10N 50E 22' Deep					

Paul Freehauf
 Laboratory Director



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7/21/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Sampled: 7/15/93

Date Received: 7/15/93
Date Started: 7/16/93
Date Completed: 7/19/93

Lab Report #: H3071605

RESULTS: BTEX-EPA 602
ug/L

TPH/Gasoline-EPA 5030/8015(M)
ug/L

	Benzene, Toluene,		Ethyl Benzene,	Total Xylene	TPH
PH3071354 TANK	ND	ND	ND	ND	ND

Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H3671605
 Project Name: Aq. Industries Sampler's Name: Tom McIsaac
 Project Number: Schnapp Pond Date: 7/15

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1C	7/15	1030	soil		2.5' N 90' E	TPH C TPH D BTEX	
2C	7/15	1130			10' N 50' E, 22' DEEP		
3C		5	H ₂ O		TANK		

Relinquished by (signature) <u>Tom McIsaac</u>	Received By: <u>Joe V. [Signature]</u>	Date <u>7/15/93</u>	Time <u>2:46P</u>
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/21/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Sampled: 7/16/93

Date Received: 7/16/93
Date Started: 7/16/93
Date Completed: 7/19/93

Lab Report #: H3072003

RESULTS: BTEX-EPA 8020
ug/Kg

TPH/Gasoline-EPA 5030/B015(M)
TRPH/Diesel -EPA 3540/B015(M)
mg/Kg

	Benzene, Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH
PH3071672 ON 59E 20' Deep	ND	ND	ND	5 3.2 Gasoline
PH3071673 ON 59E 30' Deep	230	4000	100	15000 420 Gasoline
PH3071674 ON 59E 30' Deep	ND	ND	ND	ND ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # H 3072003
 Project Name: Aq Industries Sampler's Name: Tim
 Project Number: Schnopp Ranch Date: 7/16

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/16	9 AM	soil		10' N 50' E 20' DEEP	BTEX TPH D TPH E	
2		11			ON 30' E 30' DEEP		
3		11			ON 90' E 30' DEEP		

Relinquished by (signature) <i>Tim [Signature]</i>	Received By: <i>Paul [Signature]</i>	Date 7/16/93	Time 14:55
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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7/28/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/20/93

Date Started: 7/22/93

Sampled By: Tim McIsaac

Date Completed: 7/26/93

Date Taken: 7/19/93

Lab Report #: H3070814

RESULTS:	EPA 8020 ug/Kg		EPA 5030/8015(M) mg/Kg		TPH-Gasoline
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	
(24) 56 PH3071926 80' N 5' W 23' Deep (1500)	5	ND	ND	ND	ND
(25) 63 PH3071927 90' N 10' W 10' Deep (1500)	ND	ND	ND	ND	ND
(26) 49 PH3071928 70' N 5' W 24' Deep (1500)	ND	ND	ND	ND	ND
(27) 42 PH3071929 60' N 5' W 22' Deep (0900)	28	3	ND	7	ND
(28) 28 PH3071930 40' N 5' W 25' Deep (0930)	17	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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7/28/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/20/93

Date Started: 7/22/93

Sampled By: Tim McIsaac

Date Completed: 7/26/93

Date Taken: 7/19/93

Lab Report #: H3070814

RESULTS:	EPA 8020 ug/Kg		Ethyl	Total	EPA 5030/8015(M) mg/Kg
	Benzene,	Toluene,	Benzene,	Xylene	TPH-Gasoline
PH3071931 29 18 25' N 5' W 27' Deep (1030)	3	5	ND	6	ND
PH3071932 39 0' N 18' W 22' Deep (1430)	ND	ND	ND	ND	ND
PH3071933 36 49 70' N 5' W 24' Deep	ND	3	ND	3	ND
PH3071934 32 0' N 12' W 24' Deep	125	1800	260	2500	115

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # V3072303
Project Name: Ag Industries
Project Number: Schropp Ranch

Sampler's Name: TIM MCFARLANE
Date: 7/19

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/19	3PM	soil		80' N 5' W 23' DEEP	TPH & BTEX	
2					90' N 10' W 10' DEEP	}	
3					50' N 5' W 24' DEEP		
4	7/20	9AM			60' N 5' W 22' DEEP		
5		2:30 PM			40' N 5' W 25' DEEP		
6		1030			25' N 5' W 27' DEEP		
7		2:30 PM			0' N 18' W 22' DEEP		
8					8' N 12' W 24' DEEP		

Relinquished by (signature) <i>[Signature]</i>	Received By: <i>[Signature]</i> SHERWOOD LABS	Date 7/20/93	Time 2:58 PM
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:						
9	7/20		soil		0' N 12' W 24' DEEP	TPH & BTEX



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7/28/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Taken: 7/19/93

Date Received: 7/20/93
Date Started: 7/22/93
Date Completed: 7/26/93

Lab Report #: H3070814

RESULTS: BTEX-EPA 8020
ug/Kg

TRPH/Diesel -EPA 3540/8015(M)
TPH/Gasoline-EPA 5030/8015(M)
mg/Kg

	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH/TRPH
PH3071924 205' N 110' E 19' Deep (1000)	14	780	1250	2650	160 Gasoline
PH3071925 205' N 110' E 29' Deep (1100)	ND	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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CHAIN OF CUSTODY RECORD

Lab Report # 113070302
Project Name: Ag Industries
Project Number: SLC 1037

Sampler's Name Tim McIsaac
Date: 7/19

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/19	10 AM	SOIL		205' N 110' E 19' DEEP	TPH D TPH G BTCS	
2		11 AM			205' N 110' E 29' DEEP		

Relinquished by (signature) <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date 7/19/93	Time 2:36 PM
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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Method Detection Limits (Hydrocarbons):

BTEX	EPA 602 (ug/L)	EPA 8020 (ug/Kg)
Benzene	0.3	3.0
Toluene	0.3	3.0
Ethyl Benzene	0.3	3.0
Total Xylene	0.4	3.0
TPH-Gasoline	EPA 5030/8015(M)	
Gasoline	1.0 mg/Kg Soil, 50 ug/L Water	
TEPH	EPA 3540/8015(M)	EPA 3510/8015(M)
Diesel	5.0 mg/Kg (Soil)	50 ug/L (Water)
Kerosene	5.0	50
Motor Oil	5.0	50



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CHAIN OF CUSTODY RECORD

Lab Report # V3072303
 Project Name: Ag Industries
 Project Number: Schlopp Ranch
 Sampler's Name: TIM MCELROE
 Date: 7/19

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/19	3 PM	Soil		80' N 5' W 23' DEEP	TEH G BTEX	
2					90' N 10' W 10' DEEP	}	
3					70' N 5' W 24' DEEP		
4	7/20	9 AM			60' N 5' W 22' DEEP		
5		9:30 AM			40' N 5' W 25' DEEP		
6		10:30			25' N 5' W 27' DEEP		
7		2:30 PM			0' N 18' W 22' DEEP		
8					8' N 12' W 24' DEEP		

Relinquished by (signature) <i>Tim McElroe</i>	Received By: <i>Paul J. DeLoe</i>	SHERWOOD LABS	Date 7/20/98	Time 3:58 PM
Relinquished by (signature)	Received By:		Date	Time
Relinquished by (signature)	Received By:		Date	Time

NOTES:
 9 7/20 Soil 0' N 12' W 24' DEEP
 TYPING BTEX

CHAIN OF CUSTODY RECORD

Lab Report # 113010302
Project Name: A7 Industries
Project Number: 5610PP

Sampler's Name Tim McIsaac
Date: 7/19

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/19	10 AM	Soil		205' N 110' E 19' DEEP	TPH D TPH C BTEX	
2		11 AM			205' N 110' E 27' DEEP		

Relinquished by (signature) <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date 7/19	Time 2:36 PM
Relinquished by (signature)	Received By:	Date	Time
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NOTES:



**Sherwood
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CHAIN OF CUSTODY RECORD

Lab Report # H 3072003
Project Name: Ag Industries
Project Number: Schnapp Ranch

Sampler's Name: Tim
Date: 7/16

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/16	9 AM	soil		10'N 50'E 20' deep	BTEX TPH D TPH B	
2		11			0'N 50'E 30' deep		
3		11			0'N 90'E 30' deep		

Relinquished by (signature) <u>Tim Schnapp</u>	Received By: <u>Paul Inceles</u>	Date <u>7/16/93</u>	Time <u>145</u>
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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CHAIN OF CUSTODY RECORD

Lab Report # A3671605

Project Name: Ag Industries

Sampler's Name Jim McIsaac

Project Number: Schnapp Ranch

Date: 7/15

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1C	7/15	1030	soil		25' N 90' E	TPHE TPH D BATES	
2C	}	1130			10' N 50' E, 22 Duff		
3C		5	H ₂ O		TANK		

Relinquished by (signature) <u>Jim McIsaac</u>	Received By: <u>Joe V. State Jr.</u>	Date <u>7/15/93</u>	Time <u>2:46P</u>
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



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CHAIN OF CUSTODY RECORD

Lab Report # H207116033
Project Name: Ag Industries
Project Number: Schnopp Ranch

Sampler's Name: Tom M/15/00
Date: 7/14

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/14	11AM	Soil		35'N 50'E 21' deep	TPH TPH D TPH C	
2	7/14	11AM	}		45'N 90'E 11' deep	}	
3		2PM			40'N 45'E 30' deep		
4		2PM			40'N 90'E		

Relinquished by (signature)
Tom M/15/00

Relinquished by (signature)

Relinquished by (signature)

Received By:
Bob Soster

Received By:

Received By:

Date	Time
7/14/00	2:12P
Date	Time
Date	Time

NOTES:



8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

9/30/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 9/27/93
Date Started: 9/28/93
Date Completed: 9/30/93

Project #: 0137.0010

Sampled By: Tim McIsaac

Date Taken: 9/24/93
Lab Report #: H3092822

RESULTS:	EPA 8020 ug/Kg		Ethyl Benzene,	Total Xylene	EPA 5030/8015(M)
	Benzene,	Toluene,			mg/Kg
PH3092886 MW-1-11.5	ND	ND	ND	ND	1PH ND
PH3092887 MW-1-16.5	ND	ND	ND	ND	ND
PH3092888 MW-1-21.5	ND	ND	ND	ND	ND
PH3092889 MW-1-26.5	ND	ND	ND	7	1.6
PH3092890 MW-1-31.5	ND	ND	ND	4	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
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8071 NORTH LANDER AVENUE
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HILMAR, CALIFORNIA 95324

9/30/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 9/27/93

Date Started: 9/28/93

Project #: 0137.0010

Date Completed: 9/30/93

Sampled By: Tim McIsaac

Date Taken: 9/26/93

Lab Report #: H3092822

RESULTS:	EPA 8020 ug/Kg		EPA 5030/8015(M) mg/Kg		TPH
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	
PH3092891 MW-2-11.5	ND	ND	ND	ND	ND
PH3092892 MW-2-16.5	ND	ND	ND	ND	ND
PH3092893 MW-2-21.5	ND	ND	ND	ND	ND
PH3092894 MW-2-26.5	ND	ND	ND	ND	ND
PH3092895 MW-2-31.5	ND	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

888: (209) 667-4119



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CHAIN OF CUSTODY RECORD

Lab Report # H2100703
Project Name: SCAROPP RANCH
Project Number: 0157.0010

Sampler's Name S. MUIR
Date: 10/2/95

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
MW-3-1.5	10/2	10:30	2" SOIL ON ICE	1	MW-3	TPH-6 BTEX	
MW-3-16.5		10:55					
MW-3-21.5		11:30					
MW-3-26.5		11:55					
MW-3-31.5		12:15					
NOTHING FOLLOWS							

Relinquished by (signature): <u>[Signature]</u>	Received By: <u>[Signature]</u>	Date: <u>10/4</u>	Time: <u>1647</u>
Relinquished by (signature):	Received By:	Date:	Time:
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NOTES:



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10/07/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 10/04/93

Date Started: 10/05/93

Date Completed: 10/07/93

Project #: 0137.0010

Sampled By: Tim McIsaac

Date Taken: 10/02/93

Lab Report #: H3100703

RESULTS:	EPA 8020 ug/Kg		Ethyl Benzene,	Total Xylene	EPA 5030/8015(M) mg/Kg
	Benzene,	Toluene,			TPH
PH3100926 MW-3, 11.5	ND	ND	ND	ND	ND
PH3100927 MW-3, 16.5	ND	ND	ND	ND	ND
PH3100928 MW-3, 21.5	ND	ND	ND	ND	ND
PH3100929 MW-3, 26.5	ND	ND	ND	ND	ND
PH3100930 MW-3, 31.5	ND	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director

15:38

SHERWOOD LABS, INC.

20966772581 P.04



PO BOX 576
EPHRATA, WASHINGTON 98823-0576
OFFICE 509-827-6288 FAX 509-827-6281

INVOICE NO. 209837
CUSTOMER NO. 258

Please Send Payment To: P. O. Box 576
Ephrata, WA 98823-0576

BILL TO:
AG INDUSTRIES, INC
ATTN: DICK JONES
30002 BEACON AVE
W SACRAMENTO, CA 95691

SHIP TO:
AG INDUSTRIES, INC
ATTN: DICK JONES
30002 BEACON AVE
W SACRAMENTO, CA 95691

DATE		SHIP VIA		F.O.B.		TERMS		
05/02/95		Bestway		Shipping Point		NET 10		
PURCHASE ORDER NUMBER			ORDER DATE			SALES PERSON		
						BRENDA KERR		
QUANTITY			ITEM NUMBER	DESCRIPTION		UNIT PRICE	EXTENDED PRICE	
QTY.	SHIP	EA.						
	5		BTEX H3100703	BTEX/TPH IN GASOLINE		50.00	250.00	
							Total	250.00

MAY 5 1995



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CORPORATION

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P.O. BOX 937
HILMAR, CALIFORNIA 95324

10/07/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 10/04/93

Date Started: 10/05/93

Project #: 0137.0010

Date Completed: 10/07/93

Sampled By: Tim McIsaac

Date Taken: 10/02/93

Lab Report #: H3100703

RESULTS:	EPA 8020 ug/Kg		EPA 5030/8015(M) mg/Kg		TPH
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	
PH3100926 MW-3, 11.5	ND	ND	ND	ND	ND
PH3100927 MW-3, 16.5	ND	ND	ND	ND	ND
PH3100928 MW-3, 21.5	ND	ND	ND	ND	ND
PH3100929 MW-3, 26.5	ND	ND	ND	ND	ND
PH3100930 MW-3, 31.5	ND	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



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Hilmar, California 95324
(209) 667-5258 / FAX (209) 667-2581

CHAIN OF CUSTODY RECORD

Lab Report # H2100703

Project Name: SCAROTZ RANCH

Sampler's Name S. MUIR

Project Number: 0157.0010

Date: 10/2/95

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
MW-3-15	10/2	10 ³⁰	2" soil on ice	1	MW-3	TPH-6 BTEX	
MW-3-16.5		10 ⁵⁵					
MW-3-21.5		11 ³⁰					
MW-3-26.5		11 ⁵⁵					
MW-3-31.5		12 ¹⁵					
NOTHING FOLLOWS							

Relinquished by (signature) <u>Stephen G. Mc...</u>	Received By: <u>[Signature]</u>	Date: <u>10/4</u>	Time: <u>16:47</u>
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NOTES:



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10/26/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: AG Industries
30002 Beacon Avenue
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 10/14/93
Date Started: 10/19/93
Date Completed: 10/25/93

Project #: 0137.0010

Sampled By: Stephen Muir

Date Taken: 10/11/93
Lab Report #: H3101815

RESULTS:	EPA 8020 ug/Kg		EPA 5030/8015(M) mg/Kg		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH
PH3102140 MW-4, 11.5	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<1.0
PH3102141 MW-4, 16.5	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<1.0
PH3102142 MW-4, 21.5	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<1.0
PH3102143 MW-4, 26.5	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<1.0
PH3102144 MW-4, 31.5	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<1.0
PH3102145 MW-4, 36.5	ND<3.0	ND<3.0	ND<3.0	15	1.3

Paul Freehauf
Paul Freehauf
Laboratory Director

SENT BY:

2-13-92 : 9:21 : ROY F. WESTON, INC. -

916 372 5615 : # 47 5

Roy F. Weston, Inc. - Stockton Laboratory
815P ANALYTICAL DATA PACKAGE FOR
AGRICULTURE INDUSTRIES

DATE RECEIVED: 02/04/92

RFW LOT # : 9202S019

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
ALL	001	W	92SVG035	02/04/92	N/A	02/04/92
ALL	001 MS	W	92SVG035	02/04/92	N/A	02/04/92
ALL	001 MSD	W	92SVG035	02/04/92	N/A	02/05/92
LAB QC:						
BLK	MB1	W	92SVG035	N/A	N/A	02/04/92
BLK	MB1 BS	W	92SVG035	N/A	N/A	02/04/92

916 372 5615: # 5/ 5

2-18-92 ; 9:21 ; ROY F. WESTON, INC. -

BY:

Roy F. Weston, - Stockton Laboratory
PURGEABLE PETROLEUM HYDROCARBONS BY MOD 8015
Client: AGRICULTURE INDUSTRIES

Report Date: 02/05/92 13:33
Page: 1

RFW Batch Number: 92025019

Work Order: 0000-00-00-0000

Sample Information	Cust ID:	ATI	ATI	ATI	BLK	BLK BS
	RFW#:	001	001 NS	001 MSU	92SVG035-MB1	92SVG035-MB1
Matrix:	WATER	WATER	WATER	WATER	WATER	
D.F.:	1.00	1.00	1.00	1.00	1.00	
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	
Total Petroleum Hydrocarbons		20 U	80 %	86 %	20 U	90 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of Advisory



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8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Date: 4/22/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635

Contact: Tim McIsaac

Project Name: Ag. Industries, Tracy

Date Received: 4/21/92

Date Started: 4/22/92

Project Number:

Date Completed: 4/24/92

Sampled by: Don Light

Sample ID: Water, 27'

Time: 1602

Date: 4/21/92

Lab ID: PH2042580

Method: 602

Analyte	Amount Found (ug/L)	MDL (ug/L)
Benzene	1180	0.3
Toluene	1650	0.3
Ethyl Benzene	265	0.3
Total Xylene	775	0.3

Method: 5030/Mod. 8015

Analyte	Amount Found (ug/L)	MDL (ug/L)
TPH as Gasoline	27500	50

QC:

BTEX MS/MSD Avg. Recovery: 102%, RPD<11%
TPH MS/MSD Avg. Recovery: 100%, RPD<1%

Paul Freehauf
Paul Freehauf
Laboratory Director



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CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Date: 4/22/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635

Contact: Tim McIsaac

Project Name: Ag. Industries, Tracy

Date Received: 4/21/92

Date Started: 4/22/92

Project Number:

Date Completed: 4/24/92

Sampled by: Don Light

Sample ID: Water, 27'

Time: 1602

Date: 4/21/92

Lab ID: PH2042580

Method: 602

Analyte	Amount Found (ug/L)	MDL (ug/L)
Benzene	1180	0.3
Toluene	1650	0.3
Ethyl Benzene	265	0.3
Total Xylene	775	0.3

Method: 5030/Mod. 8015

Analyte	Amount Found (ug/L)	MDL (ug/L)
TPH as Gasoline	27500	50

QC:

BTEX MS/MSD Avg. Recovery: 102%, RPD<11%
TPH MS/MSD Avg. Recovery: 100%, RPD<1%

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
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P.O. BOX 937
HILMAR, CALIFORNIA 95324

11/16/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635-
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 11/11/92
Date Started: 11/11/92
Date Completed: 11/16/92

Sampled by: Tim McIsaac

Sample ID: School Well

Time: 1500

Date: 11/11/92

Lab ID: PH2110970

Lab Report #: H2111203

Method: 602(M)

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	1.4	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Definitions:

(ug/L) = parts per billion (ppb)

Leland Palmer
Laboratory Chemist

Leland Palmer



**Sherwood
Labs**
CORPORATION

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P.O. BOX 937
HILMAR, CALIFORNIA 95324

11/16/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635-
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 11/11/92

Date Started: 11/11/92

Date Completed: 11/16/92

Sampled by: Tim McIsaac

Sample ID: Well Sample # 1

Time: 1500

Date: 11/11/92

Lab ID: PH2110968

Lab Report #: H2111203

Method: 602(M)

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	7050	0.3
Toluene	2830	0.3
Ethyl Benzene	2300	0.3
Total Xylene	2160	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	79,000	50

Definitions:

(ug/L) = parts per billion (ppb)

Leland Palmer
Laboratory Chemist

Leland Palmer



11/16/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635-
Attn: Tim McIsaac

Project Name: Schropp Ranch

Date Received: 11/11/92

Date Started: 11/11/92

Date Completed: 11/16/92

Sampled by: Tim McIsaac

Sample ID: Well Sample # 2

Time: 1500

Date: 11/11/92

Lab ID: PH2110969

Lab Report #: H2111203

Method: 602(M)

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	8050	0.3
Toluene	3100	0.3
Ethyl Benzene	2450	0.3
Total Xylene	1750	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	53,000	50

Definitions:

(ug/L) = parts per billion (ppb)

Leland Palmer
Laboratory Chemist

Leland Palmer



**Sherwood
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CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

11/30/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch School Well Date Received: 11/25/92
Date Started: 11/27/92
Project Number: 0137.0010A Date Completed: 11/30/92

Sampled by: Steve Muir

Sample ID: Water, MHS-001, Time: none listed Date: 11/25/92
Mountain House School Well

Lab ID: PH2112456

Lab Report #: H2113003

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Xylene	ND	0.3


Methods:

MDL
(ug/L)

Notat

ug/L:

Le
Lz

 **Sherwood
Labs**
CORPORATION

11/30/92

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasol

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: e

8071
HILM

DHS Certification



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 932
HILMAR, CALIFORNIA 95324

11/30/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Pond
Project Number: 0137.0010A

Date Received: 11/25/92
Date Started: 11/27/92
Date Completed: 11/30/92

Sampled by: Steve Muir

Sample ID: Water, SRW-002, Time: none listed Date: 11/25/92
Pond Sample

Lab ID: PH2112457

Lab Report #: H2113003

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	13	0.3
Toluene	7	0.3
Ethyl Benzene	0.9	0.3
Total Xylene	6	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	150	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

11/30/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
School Well
Project Number: 0137.0010A

Date Received: 11/25/92
Date Started: 11/27/92
Date Completed: 11/30/92

Sampled by: Steve Muir

Sample ID: Field Blank #1, Time: none listed Date: 11/25/92

Lab ID: PH2120027

Lab Report #: H212010e

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer
Leland Palmer
Laboratory Chemist



11/30/92

DHS Certification #: 148v

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Pond
Project Number: 0137.0010A

Date Received: 11/25/92
Date Started: 11/27/92
Date Completed: 11/30/92

Sampled by: Steve Muir

Sample ID: Field Blank #2, Time: none listed Date: 11/25/92

Lab ID: PH2120028

Lab Report #: H2120106

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
MILMAR, CALIFORNIA 95324

12/01/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Baker Tank
Project Number: 0137.0010A

Date Received: 11/30/92
Date Started: 12/01/92
Date Completed: 12/01/92

Sampled by: Steve Muir

Sample ID: Water, SRW-001,
Baker Tank # 2

Time: none listed

Date: 11/30/92

Lab ID: PH2120029

Lab Report #: H2120107

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	670	0.3
Toluene	1610	0.3
Ethyl Benzene	405	0.3
Total Xylene	1390	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	30900	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 527
HILMAR, CALIFORNIA 95324

12/01/92

DHS Certification #: 1406

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Pit
Project Number: 0137.0010A

Date Received: 11/30/92
Date Started: 12/01/92
Date Completed: 12/01/92

Sampled by: Steve Muir

Sample ID: Water, SRW-002, Time: none listed Date: 11/30/92
Pond Sample

Lab ID: PH2120030

Lab Report #: H2120107

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	9970	0.3
Toluene	13150	0.3
Ethyl Benzene	330	0.3
Total Xylene	7300	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	*188000	50

Notations:

ug/L = Parts Per Billion (ppb)

* 188 Parts Per Million

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

12/02/92

DHS Certification #: 1490

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Baker Tank # 2
Project Number: 0137.0010A

Date Received: 12/01/92
Date Started: 12/02/92
Date Completed: 12/02/92

Sampled by: Steve Muir

Sample ID: Water, SRW-003
Baker Tank # 2

Time: none listed Date: 12/01/92

Lab ID: PH2120168

Lab Report #: H2120211

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	970	0.3
Toluene	2240	0.3
Ethyl Benzene	270	0.3
Total Xylene	1730	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	29100	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer
Laboratory Chemist

Report & Invoice To: **WZI Inc.**
 Post Office Box 7
 Bakersfield, California
 93389-9217



WZI Inc.

CHAIN OF CUSTODY DOCUMENT

Job Number: 0137 0010A

Attention: S. Muir

SCHROTT RANCH

Sample Type: (check one)

Drinking Water Surface Water Waste Water Oil Soil

Sludge Other (specify) _____

Sample Description(s): VOA'S 4 EACH PER SAMPLE ON ICE

Sample Number	Date Collected	Collector's Name	Type of Analysis
SRW-001A	11-30-92	S. MUIR	TPH(6) BTEX
" - 001B			
" - 001C			
" - 001D			
RW-002A			
002B			
" 002C			
" 002D			
		NOTHING	FOLLOWS

Sample Relinquished by: Stephen G. Muir Time: 1634 Date: 11-30-92

Sample Received by: [Signature] Time: 1634 Date: 11-30-92

Sample Relinquished to Lab by: .. Time: _____ Date: _____

Sample Received in Lab by: Leland Palmer Time: 1820 Date: 11/30/92

Sample Condition When Received By Lab: X Good, Cold Time: 1820 Date: 11/30/92

Lab Signature: [Signature] Time: 1820 Date: 11/30/92

8



12/04/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries
Project Number: 0137.0010A

Date Received: 12/03/92
Date Started: 12/03/92
Date Completed: 12/04/92

Sampled by: Steve Muir

Sample ID: Water, SRW-005, Tank #4 Time: 1330 Date: 12/03/92

Lab ID: PH2120490

Lab Report #: H2120417

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	0.6	0.3
Ethyl Benzene	0.3	0.3
Total Xylene	1.3	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	515	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
MILMAR, CALIFORNIA 95324

12/04/92

DHS Certification #: 1499

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch Ag Industries
Date Received: 12/03/92
Date Started: 12/03/92
Project Number: 0137.0010A
Date Completed: 12/04/92

Sampled by: Steve Muir

Sample ID: Water, SRW-006, Tank #1 Time: 1330 Date: 12/03/92

Lab ID: PH2120491

Lab Report #: PH2120417

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	4	0.3
Ethyl Benzene	0.4	0.3
Total Xylene	105	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	2520	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



12/04/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Tim McIsaac
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch Date Received: 12/03/92
 Ag Industries Date Started: 12/03/92
Project Number: 0137.0010A Date Completed: 12/04/92

Sampled by: Steve Muir

Sample ID: Water, SRW-007, Pond Time: 1330 Date: 12/03/92

Lab ID: PH2120492 Lab Report #: H2120417

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	1260	0.3
Toluene	2030	0.3
Ethyl Benzene	81	0.3
Total Xylene	320	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	20800	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer
Leland Palmer
Laboratory Chemist

CHAIN OF CUSTODY RECORD

Project Name: Ag Industries
 Project Number: 0137.0010A
 Sampler's Name: S. Muir
 Date: 12-3-92

Sherwood Labs, Inc.
 8071 N. Lander Avenue
 P.O. Box 937
 Hilmar, Ca 95324
 (209)667-5258
 (209)667-2581 --FAX

Schropp Ranch

H2120417

Sample No.	Date	Time	Type of Sample	Location	Analysis Requested	Remarks
SRW-005	12-3-92	1330	WATER	TANK 4	BTEX, TPH (6)	
SRW-006	"	"	"	TANK 1	"	
SRW-007	"	"	"	POND	"	
<i>NOTHING FOLLOWS</i>						

Relinquished By: <u>Stephen G. Muir</u>	Received By: <u>Jeff. Doster Jr.</u>	Date & Time: <u>Dec. 3, 1992 1:40 PM</u>
Relinquished By: _____	Received By: _____	Date & Time: _____
Relinquished By: _____	Received By: _____	Date & Time: _____
Relinquished By: _____	Received By: _____	Date & Time: _____
Relinquished By: _____	Received By: _____	Date & Time: _____
Storage Location: _____	By: _____	Date & Time: _____

Notes:



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

12/10/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries
Project Number: 0137.0010A

Date Received: 12/06/92
Date Started: 12/07/92
Date Completed: 12/10/92

Sampled by: Steve Muir

Sample ID: Water, SRW-008
TP-WEST

Time: none listed Date: 12/05/92

Lab ID: PH2120557

Lab Report #: H2120705

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L= Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8073 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

12/10/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries
Project Number: 0137.0010A

Date Received: 12/06/92
Date Started: 12/07/92
Date Completed: 12/10/92

Sampled by: Steve Muir

Sample ID: Water, SRW-009
TP-NW

Time: none listed

Date: 12/06/92

Lab ID: PH2120559

Lab Report #: H2120/05

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 889
HILMAR, CALIFORNIA 95324

12/10/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries
Project Number: 0137.0010A

Date Received: 12/08/92
Date Started: 12/07/92
Date Completed: 12/10/92

Sampled by: Steve Muir

Sample ID: Water, SRW-010 Time: none listed Date: 12/08/92
TP-SW COR

Lab ID: PH2120561

Lab Report #: H2120705

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 989
HILMAR, CALIFORNIA 95324

12/10/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries
Project Number: 0137.0010A

Date Received: 12/06/92
Date Started: 12/07/92
Date Completed: 12/10/92

Sampled by: Steve Muir

Sample ID: Water, SRW-011 Time: none listed Date: 12/06/92
TP-NE COR

Lab ID: PH2120563

Lab Report #: H2120705

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

12/10/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
P.O. Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schropp Ranch
Ag Industries

Date Received: 12/06/92

Date Started: 12/07/92

Project Number: 0137.0010A

Date Completed: 12/10/92

Sampled by: Steve Muir

Sample ID: Water, SRW-012 Time: none listed Date: 12/06/92
TP-FAR WEST

Lab ID: PH2120565

Lab Report #: H2120705

Method: 602

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethyl Benzene	ND	0.3
Total Xylene	ND	0.3

Methods: 5030/Mod. B015

ANALYTE	AMOUNT FOUND (ug/L)	MDL (ug/L)
TPH as Gasoline	ND	50

Notations:

ug/L = Parts Per Billion (ppb)

Leland Palmer

Leland Palmer
Laboratory Chemist

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119

Project Name: Ag Industries
 Project Number: 0137.0010A
 Sampler's Name: S. Muir
 Date: 12-6-92

Sherwood Labs, Inc.
 8071 N. Lander Avenue
 P.O. Box 937
 Milmar, Ca 95324
 (209)667-5258
 (209)667-2581 --FAX

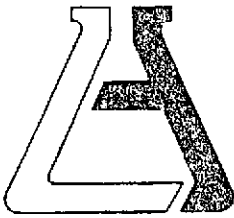
SCHROPP RANCH

2 Replicates of each sample except for 012

Sample ID	Date	Time	Type of Sample	Location	Analyses Requested	Remarks
SRW-008A	12-5-92		Water	TP-West	BTEX, TPH(G)	
008B	12-5-92			TP-West		
009A	12-6-92			TP-NW		
009B				TP-NW		
010A				TP-SW COR		
010B				TP-SW COR		
011A				TP-NE COR		
011B				TP-NE COR		
012A				TP-Far West		
			NOTHING	FOLLOW		

Relinquished By: Stephen G. Muir Received By: X Richard Palmer Date & Time: 12/6/92 16:26
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Storage Location: _____ By: _____ Date & Time: _____

Notes:



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Sherwood Laboratories (5071)
Attn: Brenda Kerr
P.O. Box 937
8071 N. Lander Ave.
Hilmar, CA 95324

LAB NO. G51878
REPORTED 04/23/93

SAMPLE

Water
Lab # H3042206
Schropp Ranch
Date Collected 04/21/93
As Submitted

RECEIVED 04/23/93

IDENTIFICATION

BASED ON SAMPLE

Lead

ND<0.002 mg/l

ASSOCIATED LABORATORIES, by:

Robert A. Webber
Vice President

RAW/gk

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

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**Sherwood
Labs**
CORPORATION

RECEIVED MAY - 3 1993

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

4/26/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: WZI Inc.
PO Box 9217
Bakersfield, CA 93389
Attn: Steve Muir

Project Name: Schropp Ranch

Date Received: 4/21/93

Sampled By: Robert Sliger

Date Started: 4/22/93

Date Completed: 4/26/93

Date Taken: 4/21/93

Sample ID: "Water"

Lab Report #: H3042315

RESULTS:	EPA 602		EPA 5030/8015(M)		
	ug/L		Ethyl	Total	ug/L
	Benzene,	Toluene,	Benzene,	Xylene	TPH-Gasoline
PH3041800	0.5	0.6	0.6	2.8	65

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

4/26/93

DHS Certification #:1400

ANALYSIS REPORT: Total Extractable Petro. Hydrocarbons

CLIENT: WZI Inc.
PO Box 9217
Bakersfield, CA 93389
Attn: Steve Muir

Project Name: Schropp Ranch
Date Received: 4/21/93
Date Started: 4/22/93
Date Completed: 4/26/93

Sampled By: Robert Sliger
Date Taken: 4/21/93

Lab Report: H3042315

Method: 3510/B015 (M)

ANALYTE (ug/L)

Diesel, Kerosene

MDL

Lab ID/Sample ID

Motor Oil

(ug/L)

PH3041801/"Water"

ND

50

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Date: 4/26/93
DHS Certification #: 1400
ANALYSIS REPORT: HALOGENATED VOLATILE ORGANICS (EPA 601)

CLIENT: WZI Inc.
PO Box 9217
Bakersfield, CA 93389

Contact: Steve Muir

Sampled By: Robert Sliger
Sample ID: "Water"
Date Taken: 4/21/93

Date Received: 4/21/93
Date Started: 4/23/93
Date Completed: 4/26/93

Lab ID: PH3041B02

Lab Report: H3042315

ANALYTE	Amount Found (ug/L)	Detection Limit (ug/L)
Bromodichloromethane	ND	0.5
Bromoform	ND	1.0
Bromomethane	ND	1.0
Carbon tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Chloroethane	ND	1.0
Chloroform	ND	0.2
Chloromethane	ND	1.0
Dibromochloromethane	ND	0.5
Dibromomethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Vinyl chloride	ND	1.0
Dichlorodifluoromethane	ND	1.0
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethylene	ND	0.5
Trans 1,2-Dichloroethylene	ND	0.5
Dichloromethane	ND	0.5
1,2-Dichloropropane	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.3
Tetrachloroethylene	ND	0.1
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.3
Trichloroethylene	ND	0.5
Trichlorofluoromethane	ND	0.5
Cis 1,3-Dichloropropylene	ND	0.5
Trans 1,3-Dichloropropylene	ND	0.5
Chloro ethyl vinyl ether	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Method Detection Limits (Hydrocarbons):

BTEX	EPA 602 (ug/L)	EPA 8020 (ug/Kg)
Benzene	0.3	3.0
Toluene	0.3	3.0
Ethyl Benzene	0.3	3.0
Total Xylene	0.4	3.0

TPH-Gasoline	EPA 5030/8015(M)	
Gasoline	1.0 mg/Kg Soil, 50 ug/L Water	

TEPH	EPA 3540/8015(M)	EPA 3510/8015(M)
Diesel	5.0 mg/Kg (Soil)	50 ug/L (Water)
Kerosene	5.0	50
Motor Oil	5.0	50



**Sherwood
Labs**
CORPORATION

8071 N. Lander Avenue, P.O. Box 937
Hilmar, California 95324
(209) 667-5258 / FAX (209) 667-2581

CHAIN OF CUSTODY RECORD

Lab Report # H3042200 - H3042215

Project Name: SHROPP RANCH

Sampler's Name _____

Project Number: _____

Date: APRIL 21, 1993

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
	4/21/93		Water	2/ V043	Shropp Ranch	STEX, TPH 601, Lead	ASAP

Relinquished by (signature) <i>Robert J. Heger</i>	Received By: <i>Joe V. Suter</i>	Date 4/21/93	Time 2:32 P.
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES:



**Sherwood
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CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

6/24/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries, Inc.
30002 Beacon Ave
Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 6/22/93

Date Started: 6/22/93

Project Number: 0137.0010

Date Completed: 6/24/93

Sampled By: S. Muir/WZI

Date Taken: 6/22/93

Lab Report #: H3062410

RESULTS: BTEX-EPA 8020
ug/Kg

TPH
EPA 5030/8015(M)
mg/Kg

	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH3063215 Tank 1, 1045	9	0.9	ND	ND	65
PH3063216 Tank 4, 1055	ND	ND	ND	ND	ND
PH3063217 School Well 1150	ND	ND	ND	ND	ND

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

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Hilmar, California 95324
(209) 667-5258 / FAX (209) 667-2581

CHAIN OF CUSTODY RECORD

Lab Report # 1302410

Project Name: SCHROPP RANCH

Sampler's Name Muir, S.

Project Number: 0137.0010

Date: 6-22-93

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
TANK 1A/D	6/22/93	1045	water	4	TANK 1	TPH(6) BTEX	
TANK 4A/D	6/22/93	1055	water	4	TANK 4	TPH(6) BTEX	
School 1A/D	6/22/93	1150	water	4	School well	TPH(6) BTEX	
NOTHING FOLLOWS							

Relinquished by (signature) <i>Stephen G. Muir</i>	Received By: <i>Jim M. Foster</i> SHERWOOD LABS	Date 6/22/93	Time 1159
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES: 4 REPLICATES FOR EACH SAMPLE



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Method Detection Limits (Hydrocarbons):

BTEX	EPA 602 (ug/L)	EPA 8020 (ug/Kg)
Benzene	0.3	3.0
Toluene	0.3	3.0
Ethyl Benzene	0.3	3.0
Total Xylene	0.4	3.0
TPH-Gasoline	EPA 5030/8015(M)	
Gasoline	1.0 mg/Kg Soil, 50 ug/L Water	
TEPH	EPA 3540/8015(M)	EPA 3510/8015(M)
Diesel	5.0 mg/Kg (Soil)	50 ug/L (Water)
Kerosene	5.0	50
Motor Oil	5.0	50



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/07/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries Inc.
30002 Beacon Avenue
West Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/02/93
Date Started: 7/02/93
Date Completed: 7/07/93

Sampled By: Tim McIsaac

Date Taken: 7/01/93

Lab Report #: H3070603

RESULTS:	EPA 602 ug/L		Ethyl Benzene,	Total Xylene	EPA 5030/8015(M) ug/L
		Benzene, Toluene,			TPH-Gasoline
PH3070302 (1) Tank	ND	ND	ND	ND	ND


Paul Freehauf
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119



**Sherwood
Labs**
CORPORATION

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P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/21/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petroleum Hydrocarbons

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch
Sampled By: Tim McIsaac
Date Sampled: 7/15/93


Date Received: 7/15/93
Date Started: 7/16/93
Date Completed: 7/19/93

Lab Report #: H3071605

RESULTS: BTEX-EPA 602
ug/L

TPH/Gasoline-EPA 5030/8015(M)
ug/L

	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH
PH3071354 TANK	ND	ND	ND	ND	ND


Paul Freehauf
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119



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8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/26/93

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 7/15/93
Date Started: 7/17/93
Date Completed: 7/21/93

Date Taken: 7/22/93

Sampled By: Tm McIsaac

Lab Report #: H3072304

RESULTS:	EPA 602 ug/L		EPA 5030/8015(M) ug/L		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH3071953 SW Corner Excavation	40	12	6.5	200	2900

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 N. Lander Avenue, P.O. Box 937
Hilmar, California 95324
(209) 667-5258 / FAX (209) 667-2581

CHAIN OF CUSTODY RECORD

Lab Report #: H13072304
Project Name: Ag Industries
Project Number: Schnapp

Sampler's Name: Tim McIsaac
Date: 7/22

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
1	7/22	11 AM	H ₂ O		SURFACE WATER OF EXCAVATION	TPH & BTEX	

Relinquished by (signature) <u>Tim McIsaac</u>	Received by: <u>April S. White</u>	Date <u>7/22/93</u>	Time <u>2:57 P</u>
Relinquished by (signature)	Received by:	Date	Time
Relinquished by (signature)	Received by:	Date	Time

NOTES:



**Sherwood
Labs**
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P.O. BOX 937
HILMAR, CALIFORNIA 95324

Method Detection Limits (Hydrocarbons):

BTEX	EPA 602 (ug/L)	EPA 8020 (ug/Kg)
Benzene	0.3	3.0
Toluene	0.3	3.0
Ethyl Benzene	0.3	3.0
Total Xylene	0.4	3.0
TPH-Gasoline	EPA 5030/8015(M)	
Gasoline	1.0 mg/Kg Soil, 50 ug/L Water	
TEPH	EPA 3540/8015(M)	EPA 3510/8015(M)
Diesel	5.0 mg/Kg (Soil)	50 ug/L (Water)
Kerosene	5.0	50
Motor Oil	5.0	50



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

Method Detection Limits (Hydrocarbons):

BTEX	EPA 602 (ug/L)	EPA 8020 (ug/Kg)
Benzene	0.3	3.0
Toluene	0.3	3.0
Ethyl Benzene	0.3	3.0
Total Xylene	0.4	3.0
TPH-Gasoline	EPA 5030/B015(M)	
Gasoline	1.0 mg/Kg Soil, 50 ug/L Water	
TEPH	EPA 3540/B015(M)	EPA 3510/B015(M)
Diesel	5.0 mg/Kg (Soil)	50 ug/L (Water)
Kerosene	5.0	50
Motor Oil	5.0	50



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/03/92

DHS Certification #: 1400

QUALITY CONTROL REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/08/92

Date Started: 7/08/92

Project Number:

Date Completed: 7/13/92

Sampled by: Tim McIsaac

Sample: PH2071092-PH2071097

QC Summary:

BTEX Std. (5 ug/Kg) RPD: <2%
TPH-Gasoline Std. (500 ug/Kg) RPD: <4%
BTEX MS/MSD Avg. Recovery: 100.4%, RPD<2%
TPH-Gasoline MS/MSD Avg. Recovery: 100.9%, RPD<4%

Paul Freehauf
Laboratory Director

CHAIN OF CUSTODY RECORD

Project Name: Ag Industries
 Project Number: 0137.0010A
 Sampler's Name: S. Muir
 Date: 12-6-92

Sherwood Labs, Inc.
 8071 N. Lander Avenue
 P.O. Box 937
 Hillmar, Ca 95324
 (209)667-5258
 (209)667-2581 --FAX

SCHROTT RANCH

2 Replicates of each sample except for 012

Sample ID	Date	Location	Type of Sample	Collection	Analysis Requested	Remarks	
SRW-008A	12-5-92		SOIL WATER	TP-West	BTEX, TPH(6)		
008B	12-5-92		↓	TP-West			
009A	12-6-92			TP-NW			
009B				TP-NW			
010A				TP-SW COR			
010B				TP-SW COR			
011A				TP-NE COR			
011B				TP-NE COR			
012A				TP-Fer West			
				NOTHING	FOLLOW S		

Relinquished By: Stephen G. Muir Received By: X Robert Palmer Date & Time: 12/6/92 16:26
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Storage Location: _____ By: _____ Date & Time: _____

Notes:



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/03/92

DHS Certification #: 1400

QUALITY CONTROL REPORT: BTEX/Total Petro. Hydrocarbons

CLIENT: Tim McIsaac
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Schrop Ranch

Date Received: 7/09/92

Date Started: 7/09/92

Project Number:

Date Completed: 7/13/92

Sampled by: Tim McIsaac

Sample: PH2071475-PH2071482

QC Summary:

BTEX Std. (5 ug/Kg) RPD: <3%

TPH-Gasoline Std. (500 ug/Kg) RPD: <5%

BTEX MS/MSD Avg. Recovery: 100.1%, RPD<3%

TPH-Gasoline MS/MSD Avg. Recovery: 99%, RPD<5%

Paul Freehauf
Laboratory Director

Report & Invoice To: **WZI Inc.**
 Post Office Box 9217
 Bakersfield, California
 93389-9217

H2120107



WZI Inc.

CHAIN OF CUSTODY DOCUMENT

Job Number: 0137.0010A

Attention: S. Muir

Schroff Ranch

Sample Type: (check one)

Drinking Water Surface Water Waste Water Oil Soil
 Sludge Other (specify) _____

Sample Description(s): VOA'S 4 EACH PER SAMPLE ON ICE

BAKER RANK

Sample Number	Date Collected	Collector's Name	Type of Analysis
SRW-001A	11-30-92	S. MUIR	TPH (G) BTEX
" - 001B			
" - 001C			
" - 001D			
SRW-002A			
002B	V	V	V
" 002C			
" 002D			
		NOTHING	FOLLOWING

Sample Relinquished by: Stephen S. Muir Time: 1634 Date: 11-30-92

Sample Received by: [Signature] Time: 1634 Date: 11-30-92

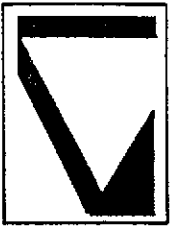
Sample Relinquished to Lab by: " Time: _____ Date: _____

Sample Received in Lab by: Leland Palmer Time: 1820 Date: 11/30/92

Sample Condition When Received By Lab: X Good, Cold Time: 1820 Date: 11/30/92

Lab Signature: X Leland Palmer Time: 1820 Date: 11/30/92

WZI Inc.
 Post Office Box 9217
 Bakersfield, California
 93389-9217



WZI Inc.

CHAIN OF CUSTODY DOCUMENT

Job Number: 0137.0010A

Attention: S. Muir

Schroff RANOL

Sample Type: (check one)

Drinking Water

Surface Water

Waste Water

Oil

Soil

Sludge

Other (specify) _____

Sample Description(s): 2 UOA'S (1) SAMPLE ON ICE
BAKER TANK NO 2

Sample Number	Date Collected	Collector's Name	Type of Analysis
SRW 003A	12-1-92	S. MUIR	TPH (L) BTEX
SRW-003B	"	"	TPH (L) BTEX
		<u>NOTHING</u>	<u>FOLLOWS</u>

Sample Relinquished by: Richard G. M... Time: 12-1-92 Date: 12-3-92

Sample Received by: _____ Time: _____ Date: _____

Sample Relinquished to Lab by: X Richard G. M... Time: 12-1-92 Date: 12-3-92

Sample Received in Lab by: Richard Palmer Time: 12/1/92 Date: 12/1/92

Sample Condition When Received By Lab: _____ Time: _____ Date: _____

Lab Signature: Y Time: _____ Date: _____

CHAIN OF CUSTODY RECORD

Project Name: McL5000 Co
 Project Number: Selnaopp Rone
 Sampler's Name: Jim McL5000
 Date: 11/11/92

Sherwood Labs, Inc.
 8071 N. Lander Avenue
 P.O. Box 937
 Milmar, Ca 95324
 (209)667-5258
 (209)667-2581 --FAX

42111203

Sample No.	Date	Time	Type of Sample	Location	Analysis Requested	Remarks
1	11/11	3 PM	H ₂ O	well sample #1	BTEX TPHC	
2	1	1	1	well sample #2	1	
3	1	1	1	school well	1	

Relinquished By: [Signature] Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: _____ Received By: _____ Date & Time: _____
 Storage Location: _____ By: _____ Date & Time: _____
 Notes: _____

Invoice To: WZI Inc.
Post Office Box 9217
Bakersfield, California
93389-9217

H2113003



WZI Inc.

CHAIN OF CUSTODY DOCUMENT

Job Number: 0137.0010A

Attention: S. Muir

Sample Type: (check one)

Drinking Water Surface Water Waste Water Oil Soil
 Sludge Other (specify) _____

Sample Description(s): WATER SAMPLES IN VOA'S ON ICE.

WATER SAMPLES
SAMPLE

Sample Number	Date Collected	Collector's Name	Type of Analysis
SRW-001A	11-25-92	S. MUIR	TPH(4), BTEX
SRW-001B	↓	↓	↓
SRW-001C			
SRW-001D			
SRW-002A			
SRW-002B			
SRW-002C			
SRW-002D			
NOTHING FOLLOWS			

Sample Relinquished by: Stephen G. Muir Time: 1340 Date: 11-25-92
Sample Received by: _____ Time: _____ Date: _____
Sample Relinquished to Lab by: _____ Time: _____ Date: _____
Sample Received in Lab by: J. L. Foster, Jr. Time: 1340 Date: 11-25-92
Sample Condition When Received By Lab: _____ Time: _____ Date: _____
Lab Signature: _____ Time: _____ Date: _____

CHAIN OF CUSTODY RECORD

Lab Report # _____

Project Name: SCHROPP RANCHA

Sampler's Name Muir, S.

Project Number: 0137.0010

Date: 6-22-93

SAMPLE NO.	DATE	TIME	TYPE OF SAMPLE	# OF CONT.	LOCATION	ANALYSIS REQUESTED	REMARKS
TANK 1A/D	6/22/93	1045	water	4	TANK 1	TPH (6) BTEX	
TANK 4 ^{A/D}	6/22/93	1055	water	4	TANK 4	TPH (6) BTEX	
School 1A/D TANK 1E	6/22/93	1150	water	4	School well	TPH (6) BTEX	
 NOTHING FOLLOWS							

Relinquished by (signature) <u>Stephen G. Muir</u>	Received By: <u>Christy Postel</u> SHERWOOD LABS	Date <u>6/22/93</u>	Time <u>1159</u>
Relinquished by (signature)	Received By:	Date	Time
Relinquished by (signature)	Received By:	Date	Time

NOTES: 4 REPLICATES FOR EACH SAMPLE



**Sherwood
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CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

04/05/94

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVE
W. Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Received: 03/30/94
Date Started: 04/03/94
Date Completed: 04/04/94

Date Taken: 03/29/94

Sampled By: Bob Sliger

Lab Report #: H4040419

RESULTS:	BTEX		TPH-Gasoline		
	EPA 602 ug/L		Ethyl Benzene,	Total Xylene	EPA 5030/8015(M) ug/L
PH4040560 School Well	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4040561 MW-1-100	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4040562 MW-2-110	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4040563 MW-3-120	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4040564 MW-4-130	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4040565 MW-5-140	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

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AUG 22 1994

WZI INC.

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/14/94

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: AG Industries, Inc.
30002 Beacon Ave.
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Project Number: 0137.0010

Date Taken: 7/11/94
Date Received: 7/13/94
Date Started: 7/13/94
Date Completed: 7/13/94

Sampler: Stephen Muir ✓

Lab Report #: H4071130

Results:	EPA 602 ug/L		EPA 5030/8015(M) ug/L		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH4070816 1	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4070817 2	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4070818 3	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4070819 4	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4070820 5	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50
PH4070821 6	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50

Paul Freehauf
Paul Freehauf
Laboratory Director

JUL 15 '94 10:31AM WZI: SB VERNON
 JUL 15 '94 10:31AM WZI: SB VERNON

P. 05

Report & Invoice To: **WZI Inc.**
 Post Office Box 9217
 Bakersfield, California
 93389-9217



WZI Inc.

CHAIN OF CUSTODY DOCUMENT

Job Number: 0137.0010

Attention: S. Muir

Sample Type: (check one)

Drinking Water
 Surface Water
 Waste Water
 Oil
 Soil
 Sludge
 Other (specify) _____

Sample Description(s): VOA'S

Sample Number	Date Collected	Collector's Name	Type of Analysis
1	7-11-94	S. MUIR	TTH(6), BTEX
2	↓	↓	↓
3			
4			
5			
6			
NOTHING FOLLOWS			

Sample Relinquished by: Stephen G. Muir Time: 1237 Date: 7-11-94
 Sample Received by: Paul Frachaf Time: 1258 Date: 7/11/94
 Sample Relinquished to Lab by: _____ Time: _____ Date: _____
 Sample Received in Lab by: _____ Time: _____ Date: _____
 Sample Condition When Received By Lab: _____ Time: _____ Date: _____
 Lab Signature: _____ Time: _____ Date: _____



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

DHS Certification #: 1400

06/07/95

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVF
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Job #: 0137.0010

Sampled By: Stephen Muir

Date Sampled: 06/01/95
Date Received: 06/02/95
Date Started: 06/06/95
Date Completed: 06/07/95

Lab Report #: H5060504

RESULTS:	BTEX		TPH-Gasoline		TPH-Gasoline
	EPA 602 ug/L		EPA 5030/8015(M) ug/L		
	Benzene	Toluene	Ethyl Benzene	Total Xylene	
PH5060244 MW1	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5060245 MW2	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5060246 MW3	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5060247 MW4	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5060248 MW5	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5060249 School Well	ND<.3	ND<.3	ND<.3	ND<.3	ND<50

Gloria L. Poling 6/7/95
Gloria Poling
Laboratory Director

AUG-24-1995 14:49

SHERWOOD LABS, INC.

20966772581 P.02



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 837
HILMAR, CALIFORNIA 95324

08/24/95

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVE
W Sacramento, CA 95601
Attn: Dick Jones

Project Name: Schropp Ranch

Date Sampled: 08/16/95
Date Received: 08/16/95
Date Started: 08/18/95
Date Completed: 08/23/95

Job #: 0137.0010

Sampled By: Stephen Muir

Lab Report #: H5081708

RESULTS:	BTEX		TPH-Gasoline		
	EPA 602 ug/L		Ethyl Benzene,	Total Xylene	EPA 5030/6015(M) ug/L
PH5082111 Schropp Well	ND<.3	ND<.3	ND<.3	ND<.3	ND<50

Gloria Poling 8/24/95
Gloria Poling
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

888: (209) 667-4119



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

08/24/95

DHS Certification #: 1400

ANALYSIS REPORT: Total Recoverable Petro. Hydrocarbons

CLIENT: Ag Industries, INC
30002 Beacon AVE
W Sacramento, CA 95691
Attn: Dick Jones

Date Sampled: 08/18/95
Date Received: 08/16/95
Date Started: 08/18/95
Date Completed: 08/23/95

Project Name: Schropp Ranch

Job #: 0137.0010

Sampled By: Stephen Muir

Lab Report #: H5001706

RESULTS: TRPH-Diesel, Kerosene, Dielectric and Motor Oils
EPA 3510/8015(M)
ug/L

PH5002111
Schropp Well

ND<50 All Analytes

Gloria L. Poling 8/24/95
Gloria Poling
Laboratory Director

OFFICE: (209) 667-5256

FAX: (209) 667-2581

BBS: (209) 667-4119



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 837
HILMAR, CALIFORNIA 95324

11/02/95

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVE
W Sacramento, CA 95891
Attn: Dick Jones

Project Name: Schropp Ranch Date Sampled: 10/30/95
Date Received: 10/31/95
Job #: 0137.0010 Date Started: 11/02/95
Date Completed: 11/03/95

Sampled By: Stephen Muir

Lab Report #: H5103121

RESULTS:	BTEX		TPH-Gasoline		
	EPA 602 ug/L		EPA 5030/8015(M) ug/L		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH5103065 SR-MW-2	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103066 SR-MW-3	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103067 SR-MW-4	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103068 SR-MW-5	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103069 School Well	ND<.3	ND<.3	ND<.3	ND<.3	ND<50

Gloria A. Poling 11/6/95
Gloria Poling
Laboratory Director

H510312

#258

CHAIN OF CUSTODY RECORD



Sherwood Labs CORPORATION

8071 N. Lander Avenue
P.O. Box 937
Hilmar, California 95324
(209) 667-5258
FAX (209) 667-2581

Bill To: AGRICULTURE INDUSTRIES

Attention: Dick Jones

Phone: _____

Page _____ of _____

Job Number: 0137-0010 Project Name: Schropp RANCH

Samplers: (Signature) Stephen G. Mac

602-BTEX
PDISP-6AS

SAMPLE NUMBER	DATE	TYPE	SAMPLE TYPE	SAMPLE INFORMATION	NO. OF CNTRS	REMARKS
SR-MW-2	10/30/95	Water	Water	Monitoring well	1	
MW-3				"	1	
MW-4				"	1	
MW-5				"	1	
School Well				"	1	
NOTHING FOLLOWS						

VOA HAS AIR SR

Relinquished By: (Signature) <u>Stephen G. Mac</u>	Date/Time <u>1231 10/31/95</u>	Received By: (Signature) <u>John P. Postle</u>	Date/Time <u>10/31/95 1231</u>	Ship Via:
Relinquished By: (Signature) _____	Date/Time _____	Received By: (Signature) _____	Date/Time _____	TURNAROUND TIME:
Relinquished By: (Signature) <u>John P. Postle</u>	Date/Time <u>10/31/95 1520</u>	Received By: (Signature) <u>Stephen R. Brown</u>	Date/Time <u>10/31/95 1520</u>	<input type="checkbox"/> 24-HR <input type="checkbox"/> 5-Day <input type="checkbox"/> 10-Day

DISTRIBUTION: Original - Accompanies Shipment; Canary Copy - Sherwood; Pink - Sampler

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

NOV-06-1995 10:21 SHERWOOD LABS, INC. 20966772581 P.06

TABLE 1

TABULATION SUMMARY OF GROUNDWATER MONITORING RESULTS
 FOR MONITORING WELLS MW-1 TO MW-9
 HAMATANI FARMS, SACRAMENTO COUNTY, CALIFORNIA
 FOR SAMPLING ON ~~JUNE 27, 1985~~

WELL NUMBER	TIME	SAMPLER	CASING ELEVATION (feet)	MEASURED GROUNDWATER DEPTH (feet)	GROUNDWATER ELEVATION (feet)	CHANGE IN GROUNDWATER ELEVATION FROM LAST SAMPLING (feet)	SAMPLE NUMBER	US EPA TEST METHOD	SIGNIFICANT ANALYTICAL RESULTS
MW-1	NS	SGM	89.85	NS	NA				WELL HEADS MISSING
MW-2	1220 1220	SGM	91.65	13.11	78.54				
MW-3	1155 1155	SGM	89.24	14.58	74.66				
MW-4	08:00 1100	SGM	88.20 88.18	13.74 14.63	74.46 73.55	0.22	NS	IA	IA
MW-5	NS 1210	SGM	90.17	14.43	75.74				
MW-6 School Well	NS NS	SGM	NS	NS	NA				
MW-7	NS								
MW-8	NS								
MW-9	08:34	SGM	88.07	17.08	70.91	-0.52	HF-MW-9	3510/8015(M) 602	All analytes ND

IA - Not Analyzed
 IS - Not Sampled



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

11/02/95

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVE
W Sacramento, CA 95891
Attn: Dick Jones

Project Name: Schropp Ranch

Date Sampled: 10/30/95
Date Received: 10/31/95
Date Started: 11/02/95
Date Completed: 11/03/95

Job #: 0137.0010

Sampled By: Stephen Muir

Lab Report #: H5103121

RESULTS:	BTEX		TPH-Gasoline		
	EPA 602 ug/L		EPA 5030/8015(M) ug/L		
	Benzene,	Toluene,	Ethyl Benzene,	Total Xylene	TPH-Gasoline
PH5103065 SR-MW-2	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103066 SR-MW-3	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103067 SR-MW-4	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103068 SR-MW-5	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH5103069 School Well	ND<.3	ND<.3	ND<.3	ND<.3	ND<50

Gloria A. Poling 11/6/95
Gloria Poling
Laboratory Director

CHAIN OF CUSTODY RECORD



Sherwood Labs
CORPORATION

8071 N. Lander Avenue
P.O. Box 937
Hilmar, California 95324
(209) 667-5258
FAX (209) 687-2581

BA To: AGRICULTURE INDUSTRIES

Attention: Dick Jones

Phone:

Page of

Job Number: 0137.0010 Project Name: Schnupp RANCH

Sampler: (Signature) Kayden G. Mac

602-BTEX
P015M-GAS

SAMPLE NUMBER	DATE	TYPE	SAMPLE TYPE	SAMPLE INFORMATION	NO. OF CNTRS	REMARKS
SR-MW-2	10/31/95	water	water	Monitoring well	1	
MW-3				"	1	
MW-4				"	1	
MW-5				"	1	VOA HAS AIR SR
School Well				"	1	
NOTHING FOLLOWS						

Relinquished By: (Signature) Kayden G. Mac Date/Time 1231 10/31/95

Received By: (Signature) Paul J. Smith Date/Time 1231 10/31/95

Ship Via: _____

Relinquished By: (Signature) Paul J. Smith Date/Time 10/31/95 1520

Received By: (Signature) Stephen R. Brown Date/Time 10/31/95 1520

TURNAROUND TIME: 24-HR 5-Day 60-Day Date _____

DISTRIBUTION: Original - Accompanies Shipment; Copy - Sherwood; Pink - Sampler

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made

FROM NIJR/WZI/WOODBRIDGE 209 369 9358
SHERWOOD LABS, INC.
20966772581 P.06
P.4



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

04/11/96

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: Ag Industries, Inc.
30002 Beacon AVE
W Sacramento, CA 95691
Attn: Dick Jones

Project Name: Schropp Ranch

Date Sampled: 04/07/96

Date Received: 04/08/96

Job #: 0137.0010

Date Started: 04/10/96

Date Completed: 04/10/96

Sampled By: Stephen Muir

Lab Report #: H6040901

RESULTS:	BTEX		TPH-Gasoline		
	EPA 602 ug/L		Ethyl Benzene,	Total Xylene	EPA 5030/8015(M) ug/L
	Benzene,	Toluene,			TPH-Gasoline
PH6040708 MW-2	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH6040709 MW-3	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH6040710 MW-4	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH6040711 MW-5	ND<.3	ND<.3	ND<.3	ND<.3	ND<50
PH6040712 School Well	ND<.3	ND<.3	ND<.3	ND<.3	ND<50

Gloria L. Poling 4/11/96

Gloria Poling
Laboratory Director

OFFICE: (209) 667-5258

FAX: (209) 667-2581

BBS: (209) 667-4119

Roy F. Weston, Inc. - Stockton Laboratory
 INORGANIC ANALYTICAL DATA PACKAGE FOR
 AGRICULTURE INDUSTRIES

DATE RECEIVED: 08/16/95

RFW LOT # :9508S995

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
---------------------	-------	-----	--------	------------	-----------	----------

SCHROPP WELL

HARDNESS	001	W	95SHD005	08/16/95	08/25/95	08/25/95
PH	001	W	95SPH067	08/16/95	08/16/95	08/16/95
PH	001 REP	W	95SPH067	08/16/95	08/16/95	08/16/95
TOTAL DISSOLVED SOLI	001	W	95SSD049	08/16/95	08/16/95	08/17/95

LAB QC:

HARDNESS	LC1 L	W	95SHD005	08/25/95	08/25/95	08/25/95
HARDNESS	LC2 L	W	95SHD005	08/25/95	08/25/95	08/25/95
HARDNESS	MB1	W	95SHD005	08/25/95	08/25/95	08/25/95
PH	LC1 L	W	95SPH067	08/16/95	08/16/95	08/16/95
PH	LC2 L	W	95SPH067	08/16/95	08/16/95	08/16/95
TOTAL DISSOLVED SOLI	LC1 L	W	95SSD049	08/16/95	08/16/95	08/16/95
TOTAL DISSOLVED SOLI	LC2 L	W	95SSD049	08/16/95	08/16/95	08/17/95
TOTAL DISSOLVED SOLI	MB1	W	95SSD049	08/16/95	08/16/95	08/16/95
TOTAL DISSOLVED SOLI	MB2	W	95SSD049	08/16/95	08/16/95	08/17/95

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 08/28/95

CLIENT: AGRICULTURE INDUSTRIES
WORK ORDER: 00000-000-000-0000-00

WESTON BATCH #: 9508S995

<u>SAMPLE</u>	<u>SITE ID</u>	<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>
-001	SCHROPP WELL	Hardness	329	MG/L	35.0
		pH	7.6	PH	0.20
		Total Dissolved Solids	1350	MG/L	10.0

Roy F. Weston, Inc. - Stockton Laboratory
 INORGANIC ANALYTICAL DATA PACKAGE FOR
 AGRICULTURE INDUSTRIES

DATE RECEIVED: 08/16/95

RFW LOT # :9508S995

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
---------------------	-------	-----	--------	------------	-----------	----------

SCHROPP WELL

IRON, TOTAL	001	W	95S0263	08/16/95	08/17/95	08/20/95
MANGANESE, TOTAL	001	W	95S0263	08/16/95	08/17/95	08/25/95

LAB QC:

CADMIUM LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
CHROMIUM LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
COPPER LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
IRON LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
MANGANESE LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/25/95
NICKEL LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
LEAD LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
ZINC LABORATORY	LC1 BS	W	95S0263	08/17/95	08/17/95	08/20/95
CADMIUM LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
CHROMIUM LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
COPPER LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
IRON LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
MANGANESE LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/25/95
NICKEL LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
LEAD LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
ZINC LABORATORY	LC2 BS	W	95S0263	08/17/95	08/17/95	08/20/95
CADMIUM, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
CHROMIUM, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
COPPER, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
IRON, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
MANGANESE, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/25/95
NICKEL, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
LEAD, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95
ZINC, TOTAL	MB1	W	95S0263	08/17/95	08/17/95	08/20/95

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 08/28/95

CLIENT: AGRICULTURE INDUSTRIES
WORK ORDER: 00000-000-000-0000-00

WESTON BATCH #: 9508S995

<u>SAMPLE</u>	<u>SITE ID</u>	<u>ANALYTE</u>	<u>RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>
-001	SCHROPP WELL	Iron, Total	0.54	MG/L	0.10
		Manganese, Total	0.028	MG/L	0.015

CHAIN OF CUSTODY RECORD



8071 N. Lander Avenue
 P.O. Box 937
 Hilmar, California 95324
 (209) 667-5258
 FAX (209) 667-2581

Bill To: Agriculture Industries

Attention: Dick Jones Phone: 96-370-5358 Page 1 of 1

H5081706

Job Number: <u>0137.0010</u>		Project Name: <u>Schropp Ranch</u>		NO. OF CNTRS		REMARKS
Sampler: (Signature) <u>Rayden G. Main</u>		P.O. Number:				
SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	SAMPLE INFORMATION	NO. OF CNTRS	REMARKS
<u>Schropp well</u>	<u>8/16/95</u>	<u>0910</u>	<u>VOA/ Amber</u>	<u>40 ml VOA, (2) & one titer amber</u>	<u>3</u>	<u>Water well sample</u>
				<u>NOTHING FOLLOWS</u>		

2020
8/15/95
8/15/95

Released By: (Signature) <u>Rayden G. Main</u>	Date/Time <u>8/16/95 1517</u>	Received By: (Signature) <u>John D. [unclear]</u>	Date/Time <u>8/16/95 1517</u>	Ship Via:
Released By: (Signature) _____	Date/Time _____	Received By: (Signature) _____	Date/Time _____	TURNAROUND TIME:
Released By: (Signature) <u>John D. [unclear]</u>	Date/Time <u>8/16/95 1632</u>	Received By: (Signature) <u>Theresa Lucia</u>	Date/Time <u>8/16/95 4:30</u>	<input type="checkbox"/> 24-HR <input type="checkbox"/> 5-Day <input type="checkbox"/> 10-Day

DISTRIBUTION: Original - Accompanies Shipment Copy - Sherwood Pink - Samples

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

P.5

TOTAL P.04

8/16-24-1995 14:59

SHERWOOD LABS, INC.

20965772581 P.04



Report Number : 25179

Date : 03/18/2002

Stephen G. Muir
Stephen Muir
18826 Lower Sacramento Rd.
Woodbridge, CA 95258

Subject : 5 Water Samples
Project Name : Schropp Ranch
Project Number :

Dear Mr. Muir,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 25179

Date : 03/18/2002

Subject : 5 Water Samples
Project Name : Schropp Ranch
Project Number :

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample SR-MW-2 for the analytes Benzene, Toluene, Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 25179

Date : 03/18/2002

Project Name : **Schropp Ranch**

Project Number :

Sample : **SR-MW-1**

Matrix : Water

Lab Number : 25179-01

Sample Date :03/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/12/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2002
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	03/12/2002
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	03/12/2002

Approved By: Joel Kiff



Report Number : 25179

Date : 03/18/2002

Project Name : **Schropp Ranch**

Project Number :

Sample : **SR-MW-2**

Matrix : Water

Lab Number : 25179-02

Sample Date :03/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/13/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/13/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/13/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/13/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	03/13/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	03/13/2002

Approved By:  Joel Kiff

Project Name : **Schropp Ranch**

Project Number :

Sample : **SR-MW-4**

Matrix : Water

Lab Number : 25179-03

Sample Date :03/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/12/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	03/12/2002
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	03/12/2002

Approved By:  Joel Kiff

Project Name : Schropp Ranch

Project Number :

Sample : SR-MW-5

Matrix : Water

Lab Number : 25179-04

Sample Date :03/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/12/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	03/12/2002
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	03/12/2002

Approved By:  Joel Kiff



Report Number : 25179

Date : 03/18/2002

Project Name : **Schropp Ranch**

Project Number :

Sample : **SR-Domestic Well**

Matrix : Water

Lab Number : 25179-05

Sample Date :03/06/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/12/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/12/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	03/12/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	03/12/2002

Approved By:  Joel Kiff

Report Number : 25179

Date : 03/18/2002

QC Report : Method Blank Data

Project Name : **Schropp Ranch**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/13/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/13/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/13/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/13/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/13/2002
Toluene - d8 (Surr)	111		%	EPA 8260B	03/13/2002
4-Bromofluorobenzene (Surr)	83.5		%	EPA 8260B	03/13/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/11/2002
Methanol	< 50	50	ug/L	EPA 8260B	03/11/2002
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	03/11/2002
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/11/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/11/2002
Toluene - d8 (Surr)	105		%	EPA 8260B	03/11/2002
4-Bromofluorobenzene (Surr)	96.7		%	EPA 8260B	03/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 25179

Date : 03/18/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Schropp Ranch**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	25077-02	72	39.8	39.8	106	88.4	ug/L	EPA 8260B	03/13/02	84.8	40.3	71.2	70-130	25
Toluene	25077-02	70	39.8	39.8	114	96.0	ug/L	EPA 8260B	03/13/02	110	64.4	52.0	70-130	25
Tert-Butanol	25077-02	<5.0	199	199	193	196	ug/L	EPA 8260B	03/13/02	97.0	98.4	1.44	70-130	25
Methyl-t-Butyl Ether	25077-02	140	39.8	39.8	151	145	ug/L	EPA 8260B	03/13/02	18.1	4.40	122	70-130	25
Benzene	25237-01	<0.50	40.0	40.0	43.3	42.1	ug/L	EPA 8260B	03/11/02	108	105	2.93	70-130	25
Toluene	25237-01	<0.50	40.0	40.0	45.3	43.6	ug/L	EPA 8260B	03/11/02	113	109	3.71	70-130	25
Tert-Butanol	25237-01	160	200	200	368	364	ug/L	EPA 8260B	03/11/02	107	104	2.35	70-130	25
Methyl-t-Butyl Ether	25237-01	79	40.0	40.0	124	128	ug/L	EPA 8260B	03/11/02	114	125	9.08	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 25179

Date : 03/18/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **Schropp Ranch**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	03/13/02	99.3	70-130
Toluene	40.0	ug/L	EPA 8260B	03/13/02	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	03/13/02	91.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	03/13/02	88.6	70-130
Benzene	40.0	ug/L	EPA 8260B	03/11/02	97.9	70-130
Toluene	40.0	ug/L	EPA 8260B	03/11/02	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	03/11/02	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	03/11/02	82.5	70-130

KIFF ANALYTICAL, LLC

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Project Contact (Hardcopy or PDF To):
Stephen G. Muir
 Company/Address:

EDF Report? Yes No
 Recommended but not mandatory to complete this section:
 Sampling Company Log Code:

Chain-of-Custody Record and Analysis Request

Phone No.: 209-369-9421 FAX No.:
 Project Number: P.O. No:

Global ID:
 EDF Deliverable To (Email Address):
SGMUIR@earthlink.net

Project Address:
3880 Main House Road
 Project Name:
Schropp Ranch

Sampler Signature:
Stephen G. Muir

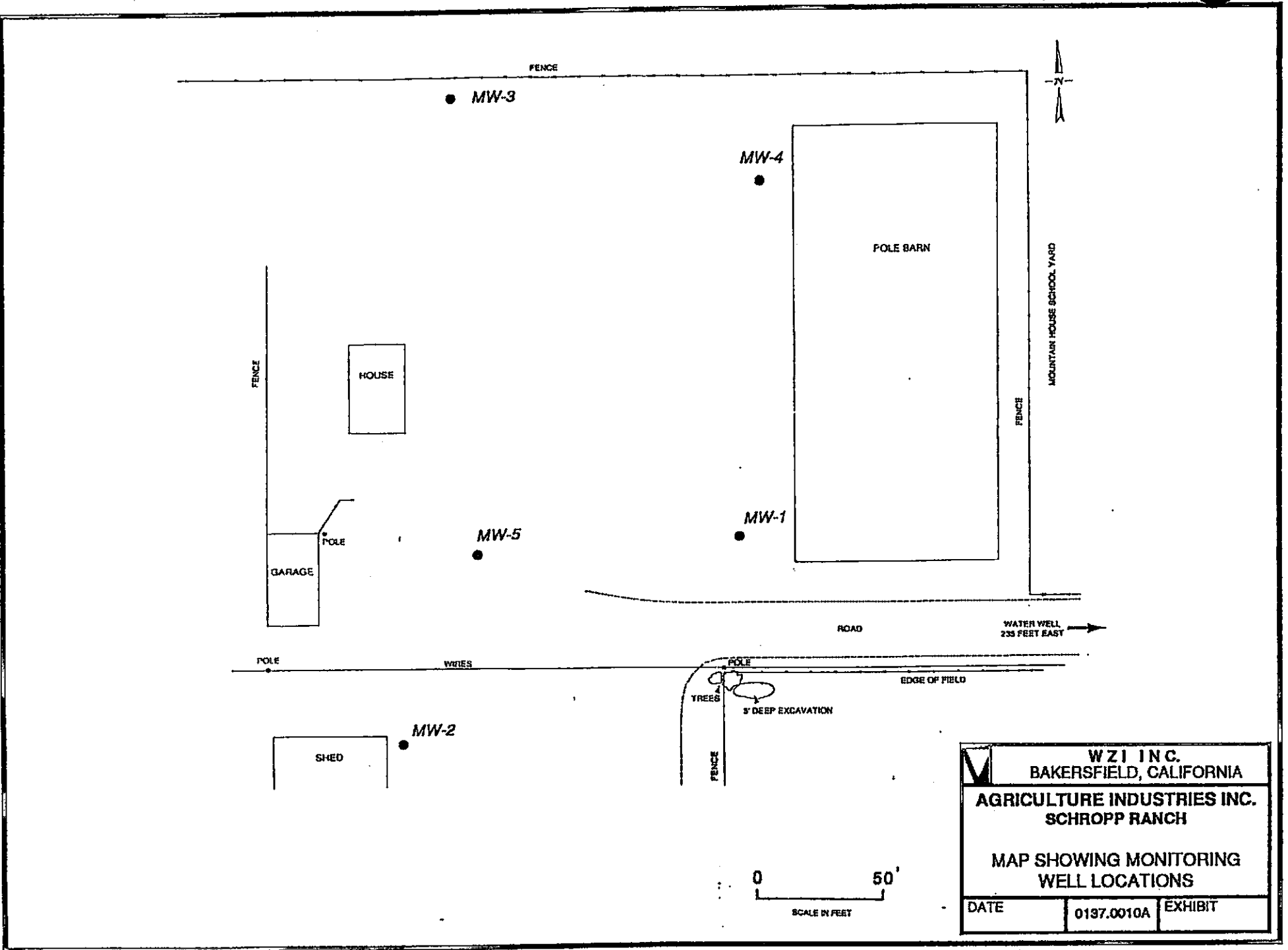
Analysis Request

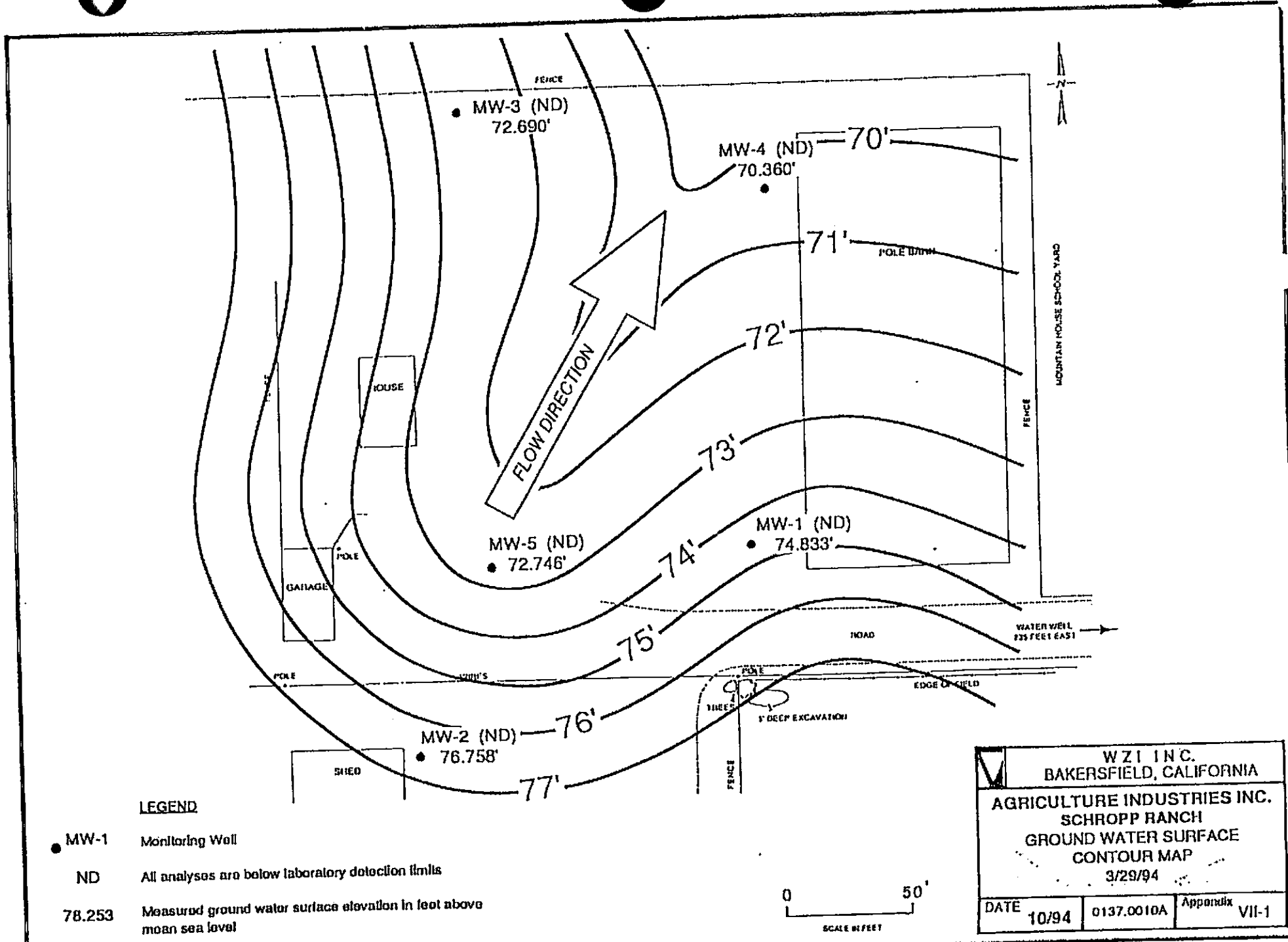
Sample Designation	Sampling		Container		Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONIS	WATER	SOIL															
SR-MW-1	3/6/02		X					X	X							X								X	01
SR-MW-2			X					X	X							X								X	02
SR-MW-4			X					X	X							X								X	03
SR-MW-5			X					X	X							X								X	04
SR-Domestic Well			X					X	X							X								X	05

Relinquished by: Stephen G. Muir Date: 3/6/02 Time: 17:27
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: 03/06/02 Time: 17:23

Received by: _____
 Received by: _____
 Received by Laboratory: Michelle Woodworth / KIFF Analytical

Remarks:
Call For Billing address
(916) 372-5595
 Bill to: AGRICULTURE INDUSTRIES



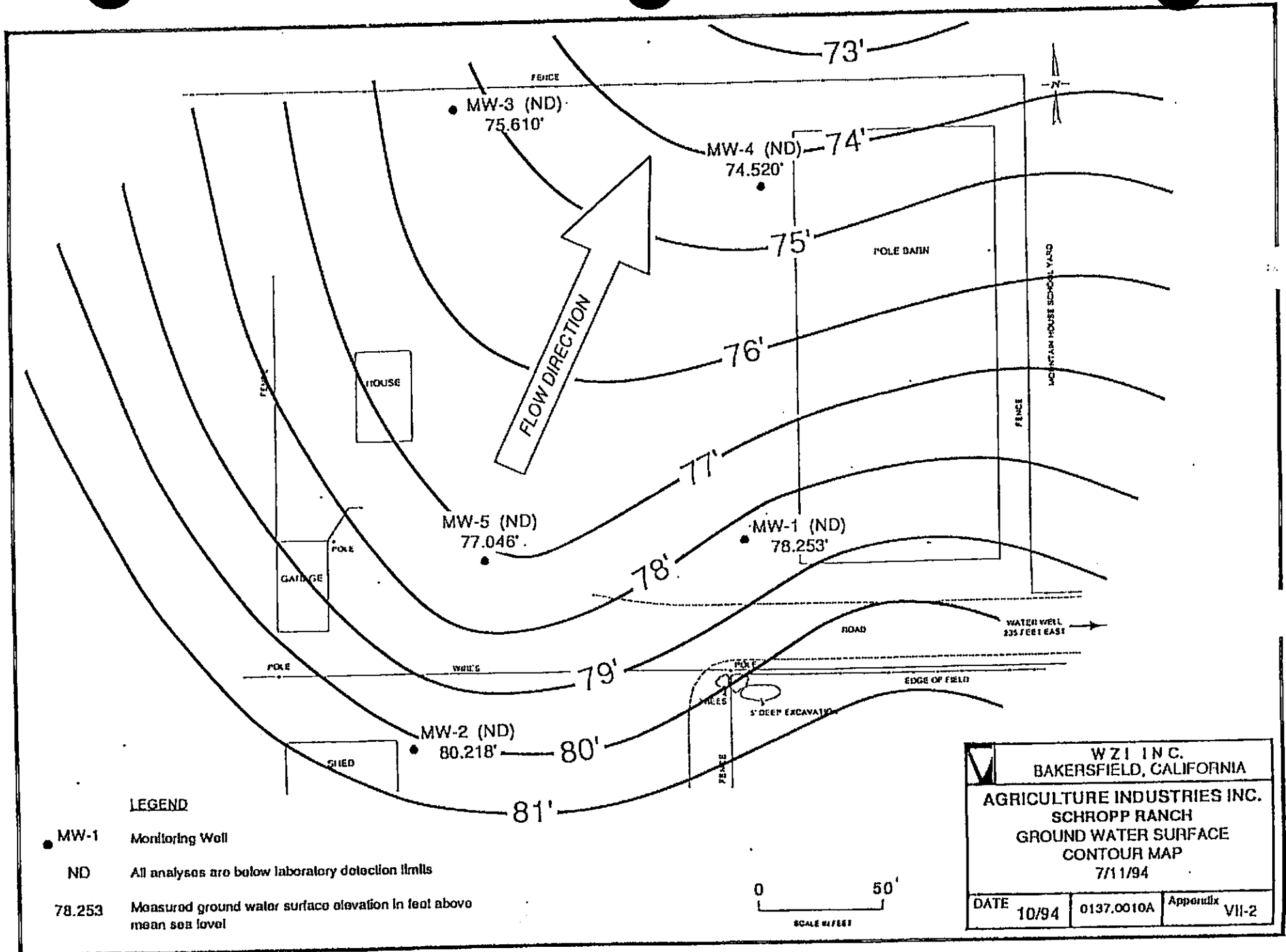


LEGEND

- MW-1 Monitoring Well
- ND All analyses are below laboratory detection limits
- 78.253 Measured ground water surface elevation in feet above mean sea level



WZ I INC. BAKERSFIELD, CALIFORNIA		
AGRICULTURE INDUSTRIES INC. SCHROPP RANCH GROUND WATER SURFACE CONTOUR MAP 3/29/94		
DATE	0137.0010A	Appendix VII-1
10/94		

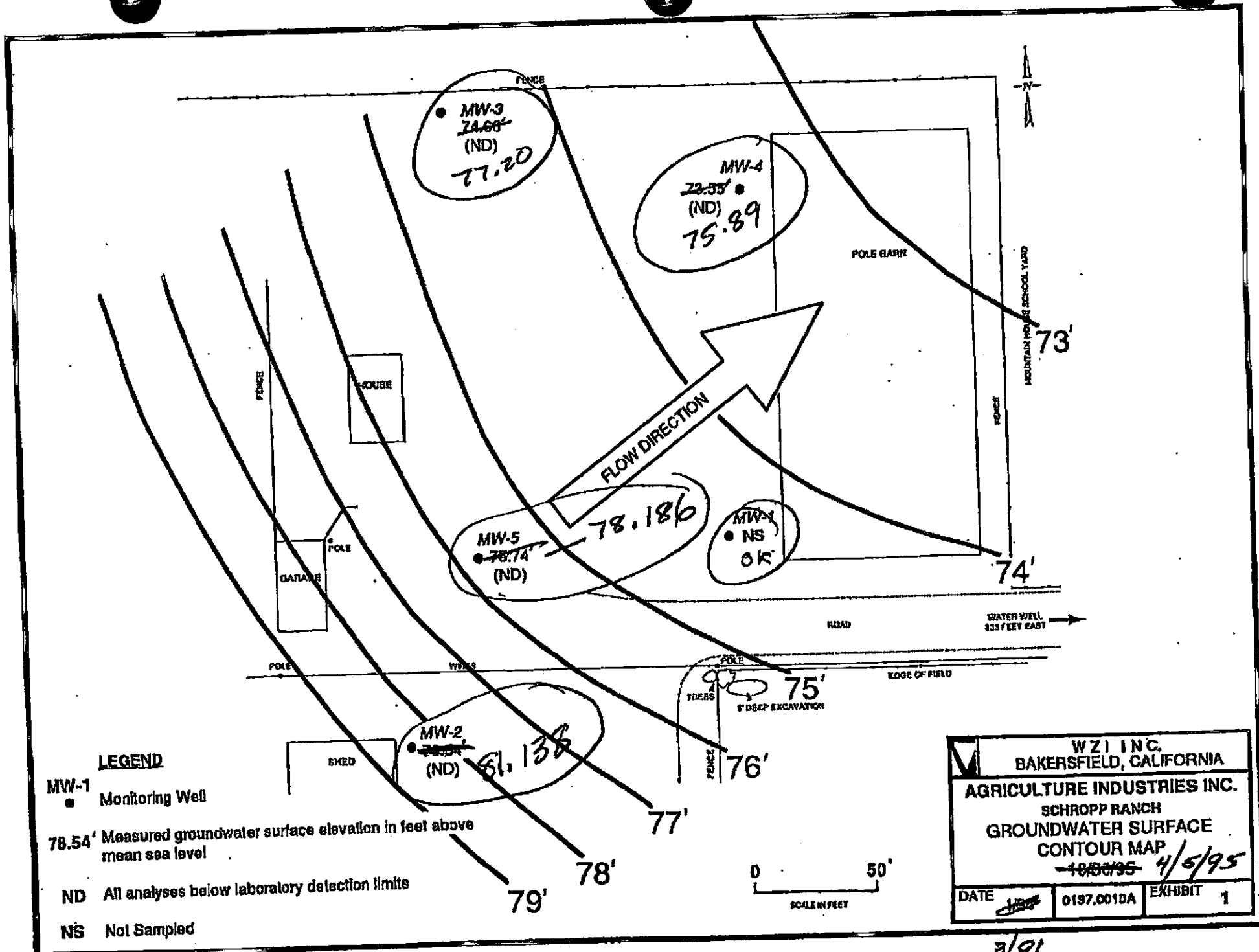


LEGEND

- MW-1 Monitoring Well
- ND All analyses are below laboratory detection limits
- 78.253 Measured ground water surface elevation in feet above mean sea level

<p>W Z I INC. BAKERSFIELD, CALIFORNIA</p>		
<p>AGRICULTURE INDUSTRIES INC. SCHROPP RANCH GROUND WATER SURFACE CONTOUR MAP 7/11/94</p>		
DATE	0137.0010A	Appendix VII-2
10/94		





LEGEND

MW-1 ● Monitoring Well

78.54' Measured groundwater surface elevation in feet above mean sea level

ND All analyses below laboratory detection limits

NS Not Sampled

WZI INC. BAKERSFIELD, CALIFORNIA		
AGRICULTURE INDUSTRIES INC.		
SCHROPP RANCH		
GROUNDWATER SURFACE		
CONTOUR MAP		
1800095 4/5/95		
DATE	0197.0010A	EXHIBIT 1



3/96

di 100,001

STATE OF CALIFORNIA

REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF HEALTH SERVICES
SOLID WASTE MANAGEMENT BOARD
DEPARTMENT OF FORESTRY



APPLICATION FOR
FACILITY PERMIT/WASTE DISCHARGE

This form is to be used for filing a/an: (check all appropriate)

- 1. REPORT OF WASTE DISCHARGE
(pursuant to Division 7 of the State Water Code)
- 2. APPLICATION FOR A HAZARDOUS WASTE FACILITY PERMIT
(pursuant to Health and Safety Code Section 25200)
- 3. APPLICATION FOR A SOLID WASTE FACILITIES PERMIT
(pursuant to Government Code Section 66796.30)
- 4. APPLICATION FOR A RUBBISH DUMP PERMIT
(pursuant to Public Resources Code Sections 4371-4375 and 4438)

FOR OFFICE USE ONLY

Form 200 Rec'd _____
 Fee (RWOCB) _____ (SWMB) _____
 Letter to Discharger _____
 Report Rec'd _____
 Effective Date _____
 CDF Notified _____
 DOHS No. _____
 SWMB No. _____

I. FACILITY

A. NAME OF FACILITY Schropp Ranch		TELEPHONE # (916) 372-5595
ADDRESS 3880 Mountain House Road Byron, California		ZIP CODE
B. NAME OF LEGAL OWNER OF FACILITY Agriculture Industries Inc.		TELEPHONE # (916) 372-5595
ADDRESS Post Office Box 1076 West Sacramento, California		ZIP CODE 95691
C. NAME OF BUSINESS OPERATING FACILITY Same as Owner		TELEPHONE # ()
ADDRESS		ZIP CODE
D. TYPE OF BUSINESS OPERATING FACILITY		
<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Government Agency		
E. NAME OF OWNER(S) OF BUSINESS OPERATING FACILITY Same as Owner		TELEPHONE # ()
ADDRESS WHERE LEGAL NOTICE MAY BE SERVED		ZIP CODE

II. REASON FOR FILING

CHECK ALL APPROPRIATE:

- | | | |
|--|---|---|
| A. <input checked="" type="checkbox"/> New discharge or facility | D. <input type="checkbox"/> Change in character of discharge | G. <input type="checkbox"/> Change in business operating facility |
| B. <input type="checkbox"/> Existing discharge or facility | E. <input type="checkbox"/> Change in place or method of disposal | H. <input type="checkbox"/> Enlargement of existing facility |
| C. <input type="checkbox"/> Increase in quantity of discharge | F. <input type="checkbox"/> Change in design or operation | I. <input type="checkbox"/> Other (explain below) |

III. TYPE OF OPERATION

CHECK ALL APPROPRIATE:

- | | | |
|---|--|--|
| A. <input type="checkbox"/> Transfer station | D. <input type="checkbox"/> Sewage treatment | G. <input type="checkbox"/> Woodwaste site |
| B. <input type="checkbox"/> Solid waste disposal site | E. <input type="checkbox"/> Industry (on-site disposal facility) | H. <input checked="" type="checkbox"/> Other (explain below) |
| C. <input type="checkbox"/> Hazardous waste disposal site | F. <input type="checkbox"/> Industry (discharge to sewer) | |

Working Ranch

IV. TYPE OF WASTE

CHECK ALL APPROPRIATE:

- | | | |
|--|--|--|
| A. <input type="checkbox"/> Sewage, sewage sludge, and/or septic tank pumpings | E. <input type="checkbox"/> Agricultural wastes | I. <input type="checkbox"/> Inert materials |
| B. <input type="checkbox"/> Industrial wastes | F. <input type="checkbox"/> Animal wastes | J. <input type="checkbox"/> Dead animals |
| C. <input type="checkbox"/> Municipal solid wastes | G. <input type="checkbox"/> Forest product wastes | K. <input type="checkbox"/> Tires |
| D. <input type="checkbox"/> Hazardous wastes | H. <input type="checkbox"/> Construction/demolition wastes | L. <input checked="" type="checkbox"/> Other (explain below) |

Petroleum contaminated soil and treated groundwater

V. SITE DESIGN CAPACITY

A. PRESENT POPULATION OR CAPACITY 20 acres	B. DESIGN POPULATION OR ULTIMATE CAPACITY 10 acres	C. LIFE EXPECTANCY (YEARS) 1 year
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REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF HEALTH SERVICES
SOLID WASTE MANAGEMENT BOARD
DEPARTMENT OF FORESTRY

**INSTRUCTIONS FOR COMPLETING APPLICATION
FOR FACILITY PERMIT/WASTE DISCHARGE**

This application form is for a permit (and/or waste discharge requirements) to discharge, receive, or dispose of liquid or solid wastes regulated by the California Regional Water Quality Control Boards (RWQCB), the Department of Health Services (DOHS), the State Solid Waste Management Board (SWMB), or the California Department of Forestry (CDF). This form and the filing fee¹ should be sent to the appropriate agency(s) as indicated below:

FOR USE	APPROPRIATE AGENCY			
	RWQCB	DOHS	SWMB ²	CDF ³
Report of Waste Discharge	X			
Application for a Hazardous Waste Facility Permit		X		
Application for a Solid Waste Facilities Permit			X	
Application for a Rubbish Dump Permit				X

If you have any questions on the completion of this form, please contact the appropriate agency for assistance.

For a direct discharge (point source discharge) to surface waters, a different application form is required in place of this Form 200. Please contact the appropriate Regional Water Quality Control Board for a National Pollutant Discharge Elimination System (NPDES) application form to apply for a permit for this type of discharge.

This application for waste disposal provides initial notice of a waste discharge. In most instances, additional information will be required, and should be submitted on 8½" x 11" paper. Complete the enclosed form and return it with any required report^{4,5} and the filing fee to each appropriate agency(s). The agency(s) will advise you of any additional information that may be required to complete this application and waste disposal report.

The effective date of the application is the date when all required information and the correct fee are received by the agency(s). You will be notified of this effective date by each agency.

¹ AMOUNT OF FILING FEES

RWQCB

Use flow or units reported in Item VI (Form WRCB 200) and the appropriate class schedule A, B, B1, B2, B3, or C (attached Filing Fee Schedule).

Make check payable to: STATE WATER RESOURCES CONTROL BOARD and mail, together with report of waste discharge, to the appropriate Regional Board. No report can be accepted without the fee.

SWMB

Local solid waste enforcement agencies shall determine the exact fee. The maximum application fee that can be required is five hundred dollars (\$500).

DOHS and CDF

No fee is required

² Check with local or county enforcement agency for specific permit requirements and/or exemptions.

³ If the site is within an incorporated city or on federal land, a copy need *not* be sent to CDF.

⁴ REQUIRED REPORT FOR DOHS: An Operation Plan.

⁵ REQUIRED REPORT FOR SWMB:

A "Report of Disposal Site Information" is required to obtain a permit to operate a disposal site.

A "Report of Station Information" is required to obtain a permit to operate a large volume transfer station (greater than 100 cubic yards per operating day).

A "Plan of Operation" is required to obtain a permit to operate a small volume transfer station (less than 100 cubic yards per operating day).

Where there is a significant change in design, operation, operator, or size of facility, details of the changes must be submitted to amend previous report.

See attachments for information to be contained in reports.

ADDITIONAL INFORMATION REQUIREMENTS

LOCATION OF DISCHARGE

The subject property is located at 3880 Mountain House Road, Byron, California and consists of approximately 488 acres. The property is composed of two parcels, Alameda Assessors Parcel Number (APN) 99B-7200-24 and 99B-7200-2-3. Existing improvements on the property are mainly in the shop area of the property and include one residence with attached garage, two shop buildings, and a barn. In addition, a pole-barn is present on the property.

The property is located on the U. S. Geological Survey Clifton Court Forebay 1:24,000 scale topographic map, near the base of the foothills of the eastern flank of the Diablo Range on a gentle northeast-sloping surface which has been dissected by small northeast flowing streams. The elevations of the property range from approximately 160 feet above mean sea level in the southwest corner of the property to 80 feet above mean sea level in the northeast corner of the property. The topography of much of the property has been modified by agricultural operations to optimize irrigation and control erosion. These modifications reflect only minor changes in the property's overall topography.

The one water well located within 1000 feet of the excavation of contaminated soil on the ranch is not used.

TYPE OF DISCHARGE

The discharge will be composed entirely of gasoline contaminated water which has been treated to remove contamination to below Maximum Contaminant Levels (MCLs).

QUANTITY

The total volume of waste water to be discharged on the ground is 600,000 gallons over a one year period at a maximum discharge rate of 72,000 gallons per day. This volume of water will be comprised of groundwater pumped from an excavation underway on the ranch. The water must be pumped to allow the excavation to continue.

QUALITY

Groundwater collected from the excavation at the Schropp Ranch has been contaminated with hydrocarbons. Groundwater concentrations of hydrocarbons indicate concentration levels of benzene at 1.18 ppm.

TREATMENT

Two to four carbon filters will be placed in series after the pump to filter the water. Calgon 200 pound units with a minimum 20 minute contact time or equal are anticipated to be used. However, the contact time may be varied if on-site bench tests indicate water treatment is enhanced by a longer or shorter contact time.

Each 200 pound filtration unit will contain Calgon Filtrasorb 300 or equal to minimize porosity occlusion. The treated effluent will be stored in a Baker tank or similar device on-site, pending laboratory results. If the stored effluent does not meet Central Valley Regional Water Quality Control Board maximum contaminant levels (MCL) the treatment cycle will be repeated until the water is in compliance. After use, carbon canisters and carbon will be disposed of properly.

WATER SUPPLY

Waste water generated in this project is gasoline-contaminated groundwater pumped from the base of an excavation.

FLOOD PROTECTION

Not applicable

Contacts

Agriculture Industries
Post Office Box 1076
West Sacramento, California 95691
(916)372-5595

CEQA/NEPA

Not applicable

SPILL PLAN

Not applicable

Liquid Waste Discharge to Surface Waters or Water Courses:

None.

Liquid Waste Discharge to Land:

All groundwater removed from the excavation will be pumped through carbon filtration, discharge to the land will be through the use of Rainbird sprinklers on an alfalfa field located on the ranch.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION

443 ROUTIER ROAD, SUITE A
SACRAMENTO, CA 95827-3098

Phone: (916) 255-3000

Fax: (916) 255-3015

APR 26 1993



JONES	
ELINGS	
BAILEY	
GRWEY	
MAYER	

R.C.#: 1678

cc: Stephen G. Muir ✓
4/26/93 D

22 April 1993

Agriculture Industries, Inc.
P.O. Box 1076
West Sacramento, CA 95691

REPORT OF WASTE DISCHARGE - SCHROPP RANCH

Thank you for the Report of Waste Discharge dated 30 March 1993
and filing fee of \$ 1,000.00.

A staff engineer will review this report for completeness and determine whether waste discharge requirements are needed for the facility. Any proposed requirements will be forwarded to you and to any interested party for comments before we recommend that the requirements be adopted by the Regional Board.

If you have any questions on this matter, you can contact the engineer for your county who is Wendy Cohen (916) 255-3075

William H. Crooks

WILLIAM H. CROOKS
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD —
CENTRAL VALLEY REGION**

3443 ROUTIER ROAD, SUITE A
SACRAMENTO, CA 95827-3098
PHONE: (916) 255-3000
FAX: (916) 255-3015



4 May 1993

Mr. Richard G. Jones, President
Agriculture Industries, Inc.
P.O. Box 1076
West Sacramento, CA 95691

NOTIFICATION OF APPLICABILITY OF GENERAL WASTE DISCHARGE REQUIREMENTS (ORDER NO. 91-25000) - AGRICULTURE INDUSTRIES, INC., SCHROPP RANCH, ALAMEDA COUNTY (ORDER NO. 91-25005)

You have submitted information to complete the Report of Waste Discharge for the above referenced project. Based on the information in your submittal, it is approved under our General Order for Land Disposal of Ground Water from Cleanup of Petroleum Fuel Pollution Waste Discharge Requirements (General Order). Enclosed is a copy of the General Order. All the requirements contained in the General Order will be applicable to your project. You are hereby assigned General Order No. 91-25005 for the Schropp Ranch Soil Cleanup and Dewatering Project

Enclosed is a copy of Monitoring and Reporting Program No. 91-25005 which prescribes minimum wastewater monitoring requirements for compliance with the General Order. Please note that the Monitoring and Reporting program sets forth minimum requirements, and that additional monitoring may be necessary for process control or for evaluating the effectiveness of the ground water system at your site.

PROJECT LOCATION

The ground water contamination plume, treatment system, and disposal area are at 3880 Mountain House Road, Byron, California in Section 6, T2S, R4E, MDB&M, with surface water drainage to Old River, as shown in Attachments A and B, which are attached and part of the Order by reference. Schropp Ranch is an active farm, currently growing alfalfa.

PROJECT DESCRIPTION

Agricultural Industries, Inc., proposes to discharge treated ground water from dewatering during cleanup of soils at an underground storage tank leak site by spray irrigation to a crop of alfalfa. Extracted ground water will pass through a series of 20,000 gallon Baker Tanks after removal of any free product. The water is then passed through activated carbon trains, which consist of carbon vessels containing 200 pounds of carbon. The discharge from the carbon trains will be to 20,000 gallon Baker Tanks. Each batch of water will be tested to determine if waste discharge limitations will be met prior

Mr. Richard Jones
Agriculture Industries, Inc.

-2-

to discharge to the dredge disposal area. If limitations are potentially exceeded, then the water will be sent through the carbon vessels again. It is anticipated that the maximum discharge volume during any one time will be 10,000 gallons. No runoff from the alfalfa fields will occur during and after irrigation.

GENERAL INFORMATION

1. The project shall be constructed and operated in accordance with the requirements contained in the General Order and in accordance with the information submitted in the Report of Waste Discharge.
2. Regional Board staff shall be notified at least 24 hours prior to the start of project construction activities.
3. The required annual fee (as specified in the annual billing you will receive from the State Water Resources Control Board) shall be submitted until this Notice of Applicability is officially revoked.
4. Discharge of material other than ground water from the investigation and cleanup of petroleum fuel pollution is prohibited.
5. The discharge of wastes or wastewater into any surface water or surface water drainage course is prohibited.
6. Failure to abide by the conditions of General Order could result in an enforcement action as authorized by provisions of the California Water Code.

If you have any questions or comments regarding this permit, please contact Alexander MacDonald at (916) 255-3025.


WILLIAM H. CROOKS
Executive Officer

Enclosure: General Order No. 91-25000
Standard Provisions

cc: Mr. Brian Oliva, Alameda County Environmental Health Department, Oakland
Mr. Stever Muir, WZI, Inc., Bakersfield

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 91-25005

FOR

AGRICULTURE INDUSTRIES, INC.
SCHROPP RANCH
SOIL REMEDIATION AND DEWATERING
ALAMEDA COUNTY

INFLUENT MONITORING

Influent samples shall be collected after the last connection before the wastes enter the treatment process. Influent samples should be representative of the volume and nature of the influent. Times of collection of a grab sample shall be recorded. The following shall constitute the influent monitoring program:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Petroleum Hydrocarbons ¹	mg/l	Grab	Each Batch ²
Benzene ³	µg/l	Grab	Each Batch ²
Ethyl Benzene ³	µg/l	Grab	Each Batch ²
Toluene ³	µg/l	Grab	Each Batch ²
<u>Xylene³</u>	µg/l	Grab	Each Batch ²

¹ EPA Method 8015, Modified, GCFID.

² Each batch consists of 20,000 gallons or less.

³ EPA Method 602, or an equivalent method.

EFFLUENT MONITORING

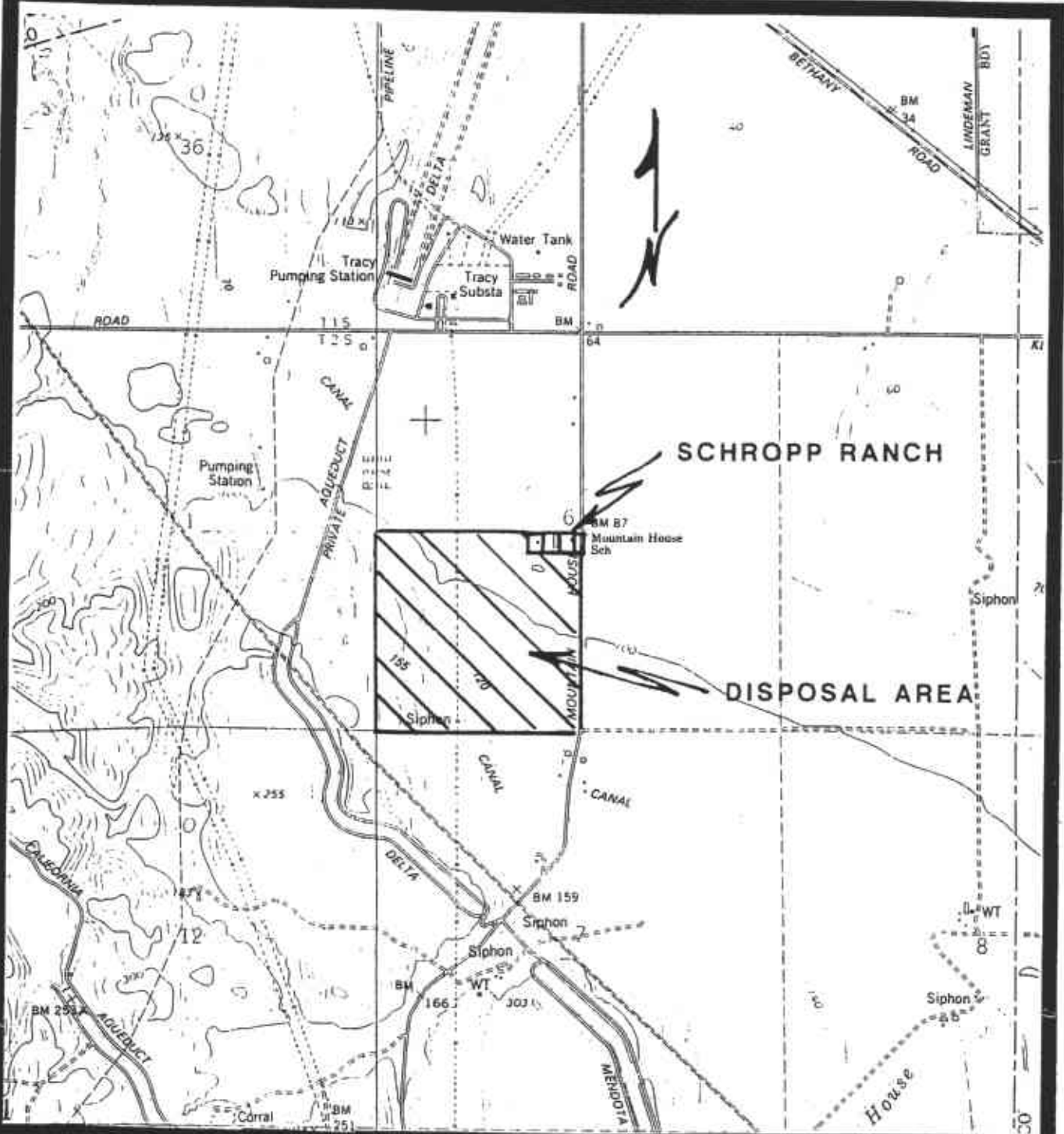
Effluent samples shall be collected downstream from the last connection through which wastes can be admitted into the discharge. The sample can be taken from the Baker Tank receiving effluent from the treatment system. Effluent samples should be representative of the volume and nature of the discharge. Time of collection of a grab sample shall be recorded. The following shall constitute the effluent monitoring program:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Petroleum Hydrocarbons ¹	mg/l	Grab	Each Batch ²
Benzene ³	µg/l	Grab	Each Batch ²
Ethyl Benzene ³	µg/l	Grab	Each Batch ²
Toluene ³	µg/l	Grab	Each Batch ²
<u>Xylene³</u>	µg/l	Grab	Each Batch ²

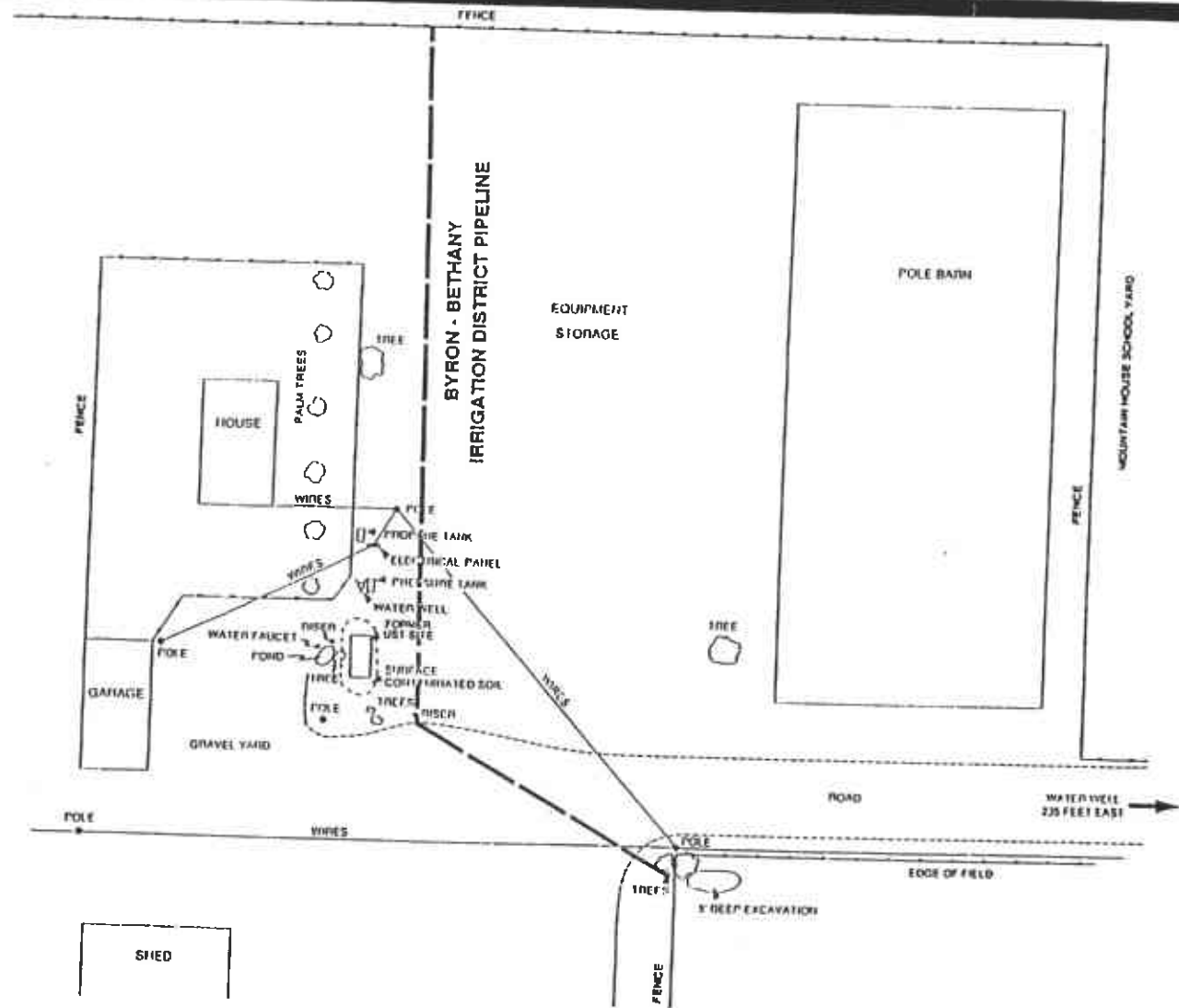
¹ EPA Method 8015, Modified, GCFID.

² Each batch consists of 20,000 gallons or less.

³ EPA Method 602, or an equivalent method.



ATTACHMENT A
AGRICULTURE INDUSTRIES, INC., SCHROPP RANCH
ALAMEDA COUNTY
SECTION 6, T2S, R4E, MDB&M
U.S.G.S. 7.5' CLIFTON COURT QUAD
SCALE 1" = 2000'



ATTACHMENT B
AGRICULTURE INDUSTRIES, INC., SCHROPP RANCH
ALAMEDA COUNTY
SITE MAP

4800 Easton Drive, Suite 114
Bakersfield, California 93309

Post Office Box 9217
Bakersfield, California 93389

805-326-1112
805-326-0191 FAX

83 East Shaw Avenue, Suite 250
Fresno, California 93710

209-222-1667
209-222-2630 FAX

WZI INC

July 24, 1992

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109
ATTN: ENFORCEMENT DISTRICT

**RE: Notice of Intent to Conduct Aeration of Hydrocarbon Contaminated Soil
Schropp Ranch
3880 Mountain House Road
Byron, California
Alameda County**

TO WHOM IT MAY CONCERN:

WZI has been retained to assist the owners of Schropp Ranch, located at 3880 Mountain House Road, Byron, California to remediate hydrocarbon contaminated soil from a previous underground storage tank. Alameda County Department of Environmental Health has been given a workplan for Site Assessment and Remediation of hydrocarbon contaminated soil and groundwater. This plan is currently under review.

Initial exploratory excavation removed approximately 1,000 yards of gasoline contaminated soil from the subsurface which has been stockpiled and covered with visqueen to prevent uncontrolled aeration.

WZI Inc. intends to begin soil remediation of the approximately 1,000 cubic yards of gasoline contaminated soil at the above address no later than August 1, 1992 by uncontrolled aeration of not more than 120 cubic yards per day as set forth in Bay Area Air Quality Management District Administrative Requirement No. 8-40-405. Page 2-1-9 exempts small projects that are anticipated to be shorter than ninety (90) days from having to obtain a permit from Bay Area Air Quality Management District.

This notification is in accordance with Reporting Requirements outlined in Administrative Requirement No. 8-40-405 and is at least five (5) days prior to initiation of the soil remediation effort.

No sensitive receptors are located within 1,000 feet of the projected downwind gradient.

Remediation operations are anticipated to be less than ninety (90) days. In the event that remediation is not achieved within ninety (90) days we will cease operations and apply for an Authority to Construct permit.

Gasoline contaminated soil levels are estimated to be not significantly greater than 100 parts per million Total Petroleum Hydrocarbon (Gasoline) based on the attached analyses.

If you have any questions please do not hesitate to contact myself in our Bakersfield office at (805) 326-1112 or our Lodi field office at (209) 339-8791. Thank you very much.

Sincerely,



Stephen G. Muir

Manager, Geotechnical Services

Certified Engineering Geologist No. 1224

SGM/cr

Attachment

cc: Scott Applin- Bay Area Air Quality Management District
Brian Olivia- Alameda County Environmental Health
Dick Jones- Agriculture Industries

0137.0010.015



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 8 26 Time: 1530 Date: 7/02/92

Lab ID: PH2071045

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	110	3.0
Ethyl Benzene	26	3.0
Total Xylene	308	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	104	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 6 46" Time: 1530 Date: 7/02/92

Lab ID: PH2071043

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	45	3.0
Ethyl Benzene	15	3.0
Total Xylene	115	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	80	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name:

Date Received: 7/06/92

Date Started: 7/06/92

Date Completed: 7/08/92

Project Number:

Sampled by: Tim McIsaac

Sample ID: Soil 5 36¹ Time: 1530

Date: 7/02/92

Lab ID: PH2071042

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	8	3.0
Ethyl Benzene	ND	3.0
Total Xylene	7	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	6	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 4 ^{48"} Time: 1530 Date: 7/02/92

Lab ID: PH2071041

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	4	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	2.4	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 3 *FL* Time: 1530 Date: 7/02/92

Lab ID: PH2071040

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0

Paul Freehauf
Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 2 72" Time: 1530 Date: 7/02/92

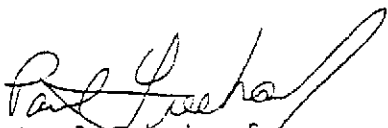
Lab ID: PH2071039

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	ND	3.0
Ethyl Benzene	ND	3.0
Total Xylene	ND	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	ND	1.0


Paul Freehauf
Laboratory Director



**Sherwood
Labs**
CORPORATION

8071 NORTH LANDER AVENUE
P.O. BOX 937
HILMAR, CALIFORNIA 95324

7/08/92

DHS Certification #: 1400

ANALYSIS REPORT: BTEX/Total Petro. Hydrocarbons as Gasoline

CLIENT: McIsaac Co.
PO Box 788
Los Banos, CA 93635
Attn: Tim McIsaac

Project Name: Date Received: 7/06/92
Date Started: 7/06/92
Project Number: Date Completed: 7/08/92

Sampled by: Tim McIsaac

Sample ID: Soil 1 ²⁴ Time: 1530 Date: 7/02/92

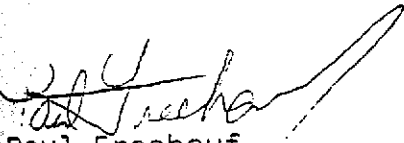
Lab ID: PH2071038

Method: 8020

ANALYTE	AMOUNT FOUND (ug/Kg)	MDL (ug/Kg)
Benzene	ND	3.0
Toluene	5	3.0
Ethyl Benzene	ND	3.0
Total Xylene	4	3.0

Methods: 5030/Mod. 8015

ANALYTE	AMOUNT FOUND (mg/Kg)	MDL (mg/Kg)
TPH as Gasoline	2.6	1.0


Paul Freehauf
Laboratory Director



WZI INC.

Bakersfield
4700 Stockdale Highway, Suite 120
Post Office Box 9217
Bakersfield, California 93389
805/326-1112 805/326-0191 FAX

Fresno
470 East Herndon Avenue, Suite 203
Fresno, California 93720
209/261-9160
209/261-9171 FAX

September 27, 1993

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109
Attn: Enforcement District

**Re: Notice of Intent to Conduct Aeration of Hydrocarbon Contaminated Soil
Schropp Ranch
3880 Mountain House Road
Byron, California
Alameda County**

To whom it may concern:

WZI is currently assisting the owners of Schropp Ranch, located at 3880 Mountain House Road, Byron, California to remediate hydrocarbon contaminated clayey soil from a previous underground storage tank. This work is being conducted under oversight of the Alameda County Department of Environmental Health Department.

WZI Inc. began soil remediation of approximately 4,000 cubic yards of gasoline contaminated soil at the above address on September 15, 1993 by uncontrolled aeration of not more than 120 cubic yards per day as set forth in Bay Area Air Quality Management District Administrative Requirement No. 8-40-405. Page 2-1-9 exempts small projects that are anticipated to be shorter than ninety (90) days from having to obtain a permit from Bay Area Air Quality Management District.

No sensitive receptors are located within 1,000 feet of the projected downwind gradient.

Remediation operations are anticipated to be less than ninety (90) days. In the event that remediation is not achieved within ninety (90) days we will cease operations and apply for an Authority to Construct permit.

Gasoline contaminated clayey soil levels are estimated to be not significantly greater than 50 parts per million Total Petroleum Hydrocarbon (Gasoline) and HNU meter readings have consistently been nondetected.

If you have any questions please do not hesitate to contact myself in our Bakersfield office at (805) 326-1112 or our Lodi field office at (209) 339-8791. Thank you very much.

Sincerely,



Stephen G. Muir
Manager, Geotechnical Services

SGM/er
Attachment

cc: Scott Applin- Bay Area Air Quality Management District
Brian Oliva- Alameda County Environmental Health
Dick Jones- Agriculture Industries

WZI INC.
DOCUMENT APPROVAL SHEET AND JOB TICKET

JOB NUMBER: 0137,0010 ORDERED BY: SLK
CLIENT NAME: Ag Ind
DATE/TIME DOCUMENT MUST GO OUT: 9/27
TRANSFER FILE NAME(s) (if applicable): _____

Date/Time Needed: 9/27 Draft: Final: _____
Date/Time Needed: 9/27 Draft: _____ Final:
Date/Time Needed: _____ Draft: _____ Final: _____
Date/Time Needed: _____ Draft: _____ Final: _____
Date/Time Needed: _____ Draft: _____ Final: _____
Date/Time Needed: _____ Draft: _____ Final: _____
Date/Time Needed: _____ Draft: _____ Final: _____
Date/Time Needed: _____ Draft: _____ Final: _____

WORD PROCESSING USE ONLY

Document: SLK File: 01370010 031 Dir.: 01370010
Document: _____ File: _____ Dir.: _____
Document: _____ File: _____ Dir.: _____
Document: _____ File: _____ Dir.: _____

SPECIAL DISTRIBUTION INSTRUCTIONS

PLEASE GIVE TO _____ FOR PROOFING/SIGNATURE
FED EX? _____ FAX? _____ PHONE: () _____ FAX: () _____

MANAGEMENT APPROVAL

APPROVAL: SP DATE: _____ APPROVAL: _____ DATE: _____

This form must remain with the document at all times and be filed with the file copy of the document.
NO DOCUMENT WILL BE MAILED/FAXED, ETC. WITHOUT MANAGEMENT APPROVAL

COPY

California Regional Water Quality Control Board Central Valley Region

3443 Rautier Road, Suite A
phone: (916) 255-3000

* Sacramento, CA 95827-3098
fax: (916) 255-3015



FAX TRANSMITTAL PAGE

Date: 4-15-93

To: Sue Kaiser / Bob Beaylock

From: Alex McDonald

Sender's Phone: (916) 255- 3025 or CALNET 8-494- _____

Number of Pages
(including cover): 4

Subject: SEARIP ROW

Comments: _____

If any problems occur in receiving, please call one of the numbers listed above.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
CENTRAL VALLEY REGION**

OUTIER ROAD, SUITE A
MUNICIPAL CENTER, WEST SACRAMENTO, CA 95827-3098
PHONE: (916) 255-3000
FAX: (916) 255-3015



15 April 1993

Mr. Richard G. Jones
President
Agricultural Industries, Inc.,
P. O. Box 1076
West Sacramento, CA 95691

APPLICATION FOR WASTE DISCHARGE REQUIREMENTS, SCHROPP RANCH, ALAMEDA COUNTY

Thank you for the submittal of the subject application. Regional Board staff have reviewed it and provide the following comments:

1. The application contains the information that the ground water has been found to contain up to 1.18 mg/l benzene. The concentrations of other contaminants that will be in the extracted ground water must also be supplied. This would include EPA Method 601 and 602 (or 8010 and 8020) constituents, total petroleum hydrocarbons, and lead.

Without this information, the proposed treatment and discharge system cannot be evaluated for adequacy.
2. The proposal states that ground water will be treated to below MCLs prior to discharge. Enclosed is a copy of the general permit with the effluent limitations that must be met.
3. There are several proposals included in the application dealing with disposal of the treated ground water. Of all the proposals, irrigation of alfalfa would be the only option allowed under the general permit for land disposal. The option of surface water discharge would be allowed only under an NPDES permit. The NPDES permit would require substantial additional information and should only be pursued if absolutely necessary. If irrigation is to be used, then the fields on which the disposal will occur needs to be indicated a map of the site. In addition, off-site runoff from the fields will not be allowed during and after disposal.
4. It is proposed to dewater the excavation and discharge the ground water into a holding tank prior to the carbon units to remove sediments. The ground water would then be treated in the carbon vessels prior to discharge to another holding tank. The water would then be tested prior to assure that the water meets permit limits prior to disposal. If the water did not meet limits it would then be run through the carbon units again until

Mr. Richard Jones

-2-

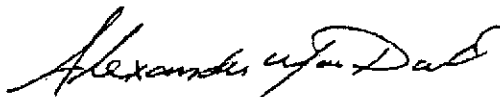
15 April 1993

the concentrations of pollutants was reduced to below the permit limits. This approach is acceptable, however, refinement of actual field operations will need to be made to make this approach work. For example, will dewatering be performed only in batches of volumes that storage has been provided for? How much turnaround time will allowed for analysis of the wastewater? It may be better to have more than one storage tank available so that dewatering/treatment can keep going while awaiting the results of sample analysis.

5. How frequently will the samples be collected? What will be analyzed for in the samples? Where will the samples be collected? What will the sample collection method? Standard sampling protocols, chain of custody procedures, and sample QA/QC procedures need to be specified.

These questions need to be addressed and the information supplied before the waste discharge requirements for the discharge can be completed. I have spoken to your consultants at WZI and they have answered some of the questions listed and not listed here. I have also faxed them a copy of this letter to speed up the transmission of the information.

If you have any questions regarding this matter, please call me at (916) 255-3025.


ALEXANDER MACDONALD
Project Engineer

AMM

cc: Mr. Brian Oliva, Alameda County Environmental Health Dept., Oakland

WASTE DISCHARGE REQUIREMENTS
GENERAL ORDER FOR LAND DISPOSAL
OF GROUND WATER FROM CLEANUP OF
PETROLEUM FUEL POLLUTION

-4-

3. If the Executive Officer finds that the proposed discharge qualifies for coverage under this Order, the Discharger shall be issued a Notification of Applicability statement. Individual dischargers are not covered by this Order until they have been issued a Notification of Applicability by the Executive Officer.

B. DISCHARGE PROHIBITIONS

1. Discharge of material other than ground water from the investigation and cleanup of petroleum fuel pollution, or discharge from the investigation of petroleum fuel pollution where other contaminants exist in the ground water, is prohibited.
2. The discharge of wastes or wastewater into any surface water or surface water drainage course is prohibited.
3. Creation of pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code, is prohibited.

C. EFFLUENT LIMITATIONS

1. The discharge of an effluent in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>30-Day Median</u>	<u>Daily Maximum</u>
Total Petroleum Hydrocarbons (3050 GCFID)	µg/l	<50	100
Benzene	µg/l	<0.5	5*
Ethyl Benzene	µg/l	<0.5	5*
Toluene	µg/l	<0.5	5*
Xylene	µg/l	<0.5	5*
Lead	µg/l	5	50

* The sum of the concentrations of benzene, ethyl benzene, toluene, and xylene in any single sample shall not exceed 5 µg/l.

2. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.
3. By-pass or overflow of untreated or partially treated wastewater is prohibited.
4. The discharge shall remain within the designated disposal area at all times.

ADDITIONAL INFORMATION REQUIREMENTS

LOCATION OF DISCHARGE

The subject property is located at 3880 Mountain House Road, Byron, California and consists of approximately 488 acres. The property is composed of two parcels, Alameda Assessors Parcel Number (APN) 99B-7200-24 and 99B-7200-2-3. Existing improvements on the property are mainly in the shop area of the property and include one residence with attached garage, two shop buildings, and a barn. In addition, a pole-barn is present on the property.

The property is located on the U. S. Geological Survey Clifton Court Forebay 1:24,000 scale topographic map, near the base of the foothills of the eastern flank of the Diablo Range on a gentle northeast-sloping surface which has been dissected by small northeast flowing streams. The elevations of the property range from approximately 160 feet above mean sea level in the southwest corner of the property to 80 feet above mean sea level in the northeast corner of the property. The topography of much of the property has been modified by agricultural operations to optimize irrigation and control erosion. These modifications reflect only minor changes in the property's overall topography.

The one water well located within 1000 feet of the excavation of contaminated soil on the ranch is not used.

TYPE OF DISCHARGE

The discharge will be composed entirely of gasoline contaminated water which has been treated to remove contamination to below Maximum Contaminant Levels (MCLs).

QUANTITY

The total volume of waste water to be discharged on the ground is 600,000 gallons over a one year period at a maximum discharge rate of 72,000 gallons per day. This volume of water will be comprised of groundwater pumped from an excavation underway on the ranch. The water must be pumped to allow the excavation to continue.

QUALITY

Groundwater collected from the excavation at the Schropp Ranch has been contaminated with hydrocarbons. Groundwater concentrations of hydrocarbons indicate concentration levels of benzene at 1.18 ppm.

TREATMENT

Two to four carbon filters will be placed in series after the pump to filter the water. Calgon 200 pound units with a minimum 20 minute contact time or equal are anticipated to be used. However, the contact time may be varied if on-site bench tests indicate water treatment is enhanced by a longer or shorter contact time.

Each 200 pound filtration unit will contain Calgon Filtrasorb 300 or equal to minimize porosity occlusion. The treated effluent will be stored in a Baker tank or similar device on-site, pending laboratory results. If the stored effluent does not meet Central Valley Regional Water Quality Control Board maximum contaminant levels (MCL) the treatment cycle will be repeated until the water is in compliance. After use, carbon canisters and carbon will be disposed of properly.

WATER SUPPLY

Waste water generated in this project is gasoline-contaminated groundwater pumped from the base of an excavation.

FLOOD PROTECTION

Not applicable

Contacts

Agriculture Industries
Post Office Box 1076
West Sacramento, California 95691
(916)372-5595

CEQA/NEPA

Not applicable

SPILL PLAN

Not applicable

Liquid Waste Discharge to Surface Waters or Water Courses:

None.

Liquid Waste Discharge to Land:

All groundwater removed from the excavation will be pumped through carbon filtration. discharge to the land will be through the use of Rainbird sprinklers on an alfalfa field located on the ranch.

**Attachment A to
General Order For Land Disposal
of Groundwater From Cleanup of
Petroleum Fuel Pollution**

A. Wastewater Treatment System and Characteristics

1. Description of Events:

The site was inspected on April 13, 1992 and substantial field work was conducted during April 20 to 24, 1992. The initial field investigation revealed no signs of natural depressions, chemicals or raw materials, hazardous wastes or solid wastes stored on site, on-site landfills, pits or sumps. There is a high-voltage power transmission line that crosses the west portion of the property.

A gasoline dispenser was present approximately 50 feet northeast of the northeast corner of the shop building and immediately next to the reported former location of the underground fuel storage tank. A 550 gallon gasoline tank with a stamped number of 680 was present near the northwest corner of the pole barn that was reportedly removed from the subsurface during January, 1992. The tank bottom is extremely rusty and shows evidence of major integrity loss in ability to hold liquid product.

Minor surface hydrocarbon staining in the shop area in the vicinity of the former underground fuel storage tank that is visible on aerial photographs was not visible during the surface investigation. Limited exploratory trenching was conducted to determine if soil hydrocarbon contamination was found in the subsurface.

With the exception of the underground fuel storage tank, the site investigation did not reveal any natural, cultural, recreational or scientific values of special significance associated with the property pertaining to sole source aquifers, wetlands, coastal dunes and beaches, threatened and endangered species, wild/scenic rivers, critical and unique habitat, archaeological resources, historic buildings, structures and sites, designated natural landmarks and recreational areas.

Groundwater collected from the excavation at the Schropp Ranch has been contaminated with hydrocarbons. Groundwater concentrations of hydrocarbons indicate concentration levels of benzene at 1.18 ppm.

2. Narrative of Systems:

Preliminary Groundwater Extraction Design

Pump and Treat: Carbon Filtration (G1)

In order to effectively reduce the gasoline fuel contaminant levels in groundwater at Schropp Ranch, the groundwater would be physically removed by pumping, and placed through a treatment system that will separate the gasoline fuel from the water. A proven technology for this type of remediation uses carbon adsorption units for removal of hydrocarbon contaminants. Using a submersible pump in the bottom of the excavation in the vicinity of the former underground storage tank would draw water out of the aquifer and deliver it to the activated carbon treatment system at the rate of one to five gallons per minute. The water would be pumped into a 20,000 gallon holding tank prior to processing. The treatment train would consist of an initial oil/water gravity separator to remove any free products prior to reaching the adsorption units. This pretreatment would help prevent fouling or plugging of the treatment system. After pretreatment, two to four canisters containing 200 pounds of activated carbon would be connected in series to remove dissolved hydrocarbons and reduce the level of contamination to less than 0.1 ppm. Discharge from the canisters can either be directed to the field adjacent to the site, reinjected back into the aquifer, or directed to a surface water conduit. After use, the carbon canisters can either be shipped as is to an appropriate designated landfill, or sent to an incineration facility.

Granular activated carbon filtration provides an economically feasible and practical means for water pollution control. The filtration process involves passing contaminated water through porous granules of activated carbon. The organic pollutants are attracted to the surface of the pores where they are held by weak physical forces. The large surface area/mass ratio for activated carbon (approximately 1,000 m²/g) gives it tremendous adsorptive capacity. In the manufacturing process of granular activated carbon, many pores are produced within each granule. It is this internal porosity that provides each grain with such large surface area. Large organic molecules and non-polar substances are preferentially attracted to the pore space walls as the contaminated water passes through the activated carbon. The effluent quality of an activated carbon system is strongly influenced by the:

- **Influent Waste Stream Characteristics**
- **Contact Time**
- **Carbon Medium Used**

Each of these factors are discussed detail below.

Influent Waste Stream Characteristics

Influent waste stream characteristics that affect treatment include pH, turbidity and any other unidentified organic material. The adsorption rate of organics increases with

decreasing pH of water. Adsorption is very poor when the pH is greater than nine. When filtering turbid water, suspended solids plug pore openings, occlude porosity, and reduce the surface area of the carbon resulting in decreased efficiency. The adverse effects of treating turbid water in the carbon filtration system may be reduced by first treating the water in a gravity separator and then passing it through an in line filter as determined by the contractor.

Rates and Carbon Medium

The size of the carbon medium used effects the rate of adsorption. Finer grades enhance the rate of adsorption by increasing the number of pore openings thereby reducing the contact time. However, fine grades may reduce efficiency of the system by trapping sediment and closing off pore openings.

The proposed groundwater treatment system is designed to reduce benzene and other gasoline related component levels in groundwater to less than 0.1 parts per billion (ppb) at Schropp Ranch prior to discharge. This will be accomplished in four steps which include pumping water from the excavated pit, removing sediment, treating the water with a carbon filtration system or air stripping system and sprinkling the water on roads at the site. The cycle will be repeated until contaminant levels are less than the current 0.1 ppb benzene established by the CRWQCB-CVR. The following is a chronology of tasks to be accomplished including design criteria.

- **A pit will be excavated in the contaminated zone to an approximate depth of 32 feet. Allowing for a seasonal groundwater rise of five feet during the summer months a minimum of two feet of water should be present in the pit. The area surrounding the pit where water treatment operations will be conducted will be sloped toward the pit, prohibiting any spillage from flowing off-site. In order to proceed with excavation on contaminated soil, aquifer withdrawal will be done by placing an inlet pipe within the excavated pit. The inlet pipe will be screened and wrapped in geofabric. Water will be pumped intermittently from the pit into the gravity separator.**
- **A gravity separator will be installed upstream of the carbon filter units to ensure the filters do not become clogged with sediment. The gravity settling unit will be equipped with a set of erect and hanging baffles to trap floating hydrocarbons and sediments. The gravity separator will be designed with an overflow rate of 150 gpd/ft². Alternative configurations utilizing slating baffles and/or in line filters for silt removal will be reviewed for performance if submitted by the contractor.**
- **Downstream of the gravity separator an additional pump will be required to deliver flow through the carbon filters. A valve will regulate pump flow to ensure the carbon filters are not pressurized in excess of manufacturer's recommendations.**
- **Two to four carbon filters will be placed in series after the pump. Calgon 200 pound units with a minimum 20 minute contact time or equal are anticipated to be used. However, the contact time may be varied if on-site bench tests indicate water treatment is enhanced by a longer or shorter contact time.**

Each 200 pound filtration unit will contain Calgon Filtrasorb 300 or equal to minimize porosity occlusion. The treated effluent will be stored in a Baker tank or similar device on-site, pending laboratory results. If the stored effluent does not meet Central Valley Regional Water Quality Control Board maximum contaminant levels (MCL) the treatment cycle will be repeated until the water is in compliance. After use, carbon canisters and carbon will be disposed of properly.

Discharge

After the MCL is met, the water discharged used was irrigation water on the property.

Contaminant Monitoring

Samples of water will be obtained from the Baker tank and submitted for benzene and TPH-G analysis. After set up of the initial treatment process (i.e. the number of reiterations to achieve the MCL is established) effluent monitoring will occur on an as needed basis during the remediation period or as required by CRWQCB-CVR.

Water Sampling

All equipment that is used during this project for sampling or depth measurement shall be decontaminated by steam cleaning or a TSP wash and triple rinse procedure prior to use and before reusing when purging or sampling.

3. Water Supply Wells

The water supply for the property consists of two sources. Domestic water supply is from a water well located in the yard portion of the shop area. No information is known regarding this water well. This well currently supplies all water needs for the family living in the residence at the property with the exception of drinking needs. The family has been using bottled water for the past two years according to the tenant farmer. The irrigation water source for agriculture operations is through the Byron Bethany Irrigation District. This district has a 24 inch concrete pipeline that crosses through the main shop area. This pipeline is near the end of the water delivery system and delivers water to the north to one additional farm property.

A water well for the Mountain House Elementary School is located approximately 600 feet east of the shop area. This well produces groundwater from an unknown depth. According to the school principal, this water is not used for drinking purposes. Additional water wells within 2000 feet are located to the north near the Tracy Substation and to the south near residences.

4. **Location Maps**

- | | |
|------------|------------------------------------|
| Exhibit 1. | Location Map |
| Exhibit 2. | Assessors Parcel Map |
| Exhibit 3. | Site Map |
| Exhibit 4. | Topographic Map |
| Exhibit 5. | Current Excavation Limits |
| Exhibit 6. | Map of Potential Excavation Limits |

5. **Treatment System Average and Maximum Flows**

Discharge will not exceed 72,000 gallons per day or a total volume for the project of 600,000 gallons.

6. **Operation Plan**

See #2; Narrative

7. **The following analyses will be performed prior to discharge. No discharge will be made without RWQCB approval.**

- a. Chlorinated volatile hydrocarbons (EPA Method 601 or 8010)
- b. Aromatic volatile hydrocarbons (EPA Method 602 or 8020)
- c. Total Petroleum Hydrocarbons in the Gasoline and Diesel ranges (3550 GCFID)
- d. Lead, Soluble lead or tetraethyl lead (Graphite Furnace AA or equivalent)
- e. Chlorinated pesticides (EPA Method 608 or 8080)
- f. General mineral analysis, including electric conductivity, total dissolved solids, chloride, sulfate, nitrate and pH.

B. Site Hydrogeology

In general, two fresh water bearing units are present in the vicinity of the property. These are comprised of the upper and lower zones of the Tulare Formation, which are hydrologically separated by an aquiclude, the Corcoran Clay Member. Groundwater beneath the Corcoran Clay constitutes the major potable groundwater resource in the area. This groundwater is generally not in hydrologic communication with near surface groundwater because of the clay aquiclude. The zone above the Corcoran Clay includes the water table zone, unless local shallow clay lenses produce confined or semi-confined conditions (Hotchkiss and Balding, 1971). In the northern San Joaquin Valley some water wells perforated deep (50 to 100 feet) within the upper Tulare Formation have water levels markedly lower than nearby shallow wells (20 to 50 feet), indicating localized hydrologic separation due to shallow confining clay layers. San Joaquin County Local Health District personnel indicate that several intervening clay layers are present in the property area between ground surface and the top of the Corcoran Clay Member (about 100 feet). It is, therefore extremely likely that semi-confined conditions exist beneath the property area. These clay layers would also discourage downward migration of any surface hydrocarbon spill liquids.

Groundwater flow in the property area appears to be generally to the northeast, toward the San Joaquin River, although locally groundwater may flow north or northwest. Depth to groundwater is on the order of 26 to 30 feet deep. Groundwater levels are known to fluctuate in the area in response to irrigation and seasonal change. However, information on typical ranges of fluctuation is not available.



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0137.0010

FAX LEAD SHEET

To: Alex McDonald

Company: CRW@CB

From: Steve Minn

Subject: _____

Message: I will call Tuesday or
Wednesday to discuss. Property owner
is anxious for project to proceed
immediately

Total Number of Pages, Include Cover Page: 4

Date Transmitted: 5-3-93

Fax Number: 916-361-5686 - 255-3015

Telephone Number: 916-361-5600 - 255-3000

Charge Number: 0137.0010

File Number: 0137.0010

CONFIRMING TELEPHONE NUMBER IS (805) 326-1112

WZI INC. FAX NUMBER IS (805) 326-0191

Oper.: Date Sent: 5/3 Time Sent: 0:00 Initials: AC Return Original: Y N Copy Sender: Y N

01370010

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WZI INC.

April 30, 1993

Mr. Alexander MacDonald
California Regional Water Quality Control Board-Central Valley Region
3443 Routier Road, Suite A
Sacramento, California 95827-3098

**Re: Response to CRWQCB-CVR Staff Questions Regarding
Request for Waste Discharge Permit to Support Site Assessment Operations
Schropp Ranch, Alameda County
R.C. # 1678**

Dear Alexander:

WZI Inc. is pleased to respond to CRWQCB-CVR staff review questions for the application for waste discharge of ground water to support site assessment excavation completion at Schropp Ranch, 3880 Mountain House Road, Byron, California. A copy of the staff response letter dated April 15, 1993 is attached for reference. The responses are numbered in the same order as the questions.

1. Concentrations of other potential contaminants in the ground water proposed to be removed from the excavation have been sampled and analyzed by EPA Test Methods 601, 602, 3510, and organic lead by a California state certified laboratory. A water sample was obtained on April 21, 1993, from the central portion of the excavation at a depth of approximately 1 foot below water surface. This sample should be representative of the water contained in the excavation. Analytical results and chain of custody documents for the sample are attached to this letter. All constituents were reported to be below detection limits or below daily maximum limits set forth in the CRWQCB General Permit limitations as set forth in the attached letter. It should be stressed that this water sample is judged typical of excavation water containing the hydrocarbon constituents prior to entering the carbon filter system.
2. MCL's of the ground water to be discharged have been recognized by WZI and Agriculture Industries as indicated on the attached CRWQCB letter. All water to be discharged will be in compliance with the daily and 30-day median concentrations or discharge operations will cease immediately.

3. Water being discharged from this proposed system will be applied to the acreage on the Responsible Party property only. All water will be sprinkled onto the alfalfa crop. A map is included to show the location of the discharge by sprinkler onto the alfalfa field. No surface runoff will occur. All discharged water will remain on the Responsible Party property.
4. Four 20,000 gallon holding tanks will be utilized in the system to hold water prior to carbon treatment and post-treatment water awaiting sprinkler discharge on the alfalfa field. It is anticipated that after dewatering of the main excavation and backfilling only small volumes of water (10,000 gallons or less) will be handled in support of future excavation activities. As the excavation progresses, the removed contaminated soil will be backfilled immediately with clean fill dirt to approximately 2 feet above the water table. This will substantially reduce the volume of ground water filling the excavation bottom.

We estimate the water removed from the excavation and pumped into one or possibly two 20,000 gallon holding tanks will suffice for the pre-carbon filter holding system. We will have an additional 20,000 gallon holding tank kept in reserve.

It should be stressed that the system we propose will not be in continuous use. The system will only be used when water is encountered that must be removed in order to excavate contaminated soil below the water table.

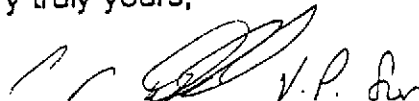
5. Water filtered by the carbon canisters will be passed into a single 20,000 gallon tank and held until discharge. It is anticipated that one water sample per week during the active portion of the system will be collected and submitted for analyses to a California state certified laboratory and analyzed for EPA Method 602 and 5030/8015M. Samples will be obtained using criteria established in the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites. Water samples will be collected from a depth of one foot under the water surface from the tank awaiting final discharge. A copy of the WZI Standard Operating Procedure for collection of water samples is attached to this letter for reference. These procedures will be followed.

CRWQCB-CVR staff will be provided copies of water sample analytical results upon request or can be included as part of a planned quarterly ground water monitoring well program for the site that will start after the first monitoring wells are drilled in June, 1993.

If water to be discharged does not meet the MCL standards as outlined in the attached CRWQCB letter, then the water will be recycled through the carbon canister system until it meets MCL standards prior to discharge.

If you have any additional questions either Sue Kiser or myself will be happy to respond to them. We can be contacted at (805) 326-1112. We would appreciate your speedy review and approval of the plan as we would like to conclude the excavation phase of this project immediately. Thank you very much.

Very truly yours,



Stephen G. Muir
Manager, Geotechnical Services
Certified Engineering Geology # 1224

SGM/er
0137.0010.027
Attachments/Enclosures
WZI water sampling protocol
CRWQCB-CVR staff letter dated April 15, 1993
Analytical results from water sample taken April 21, 1993
Map showing proposed waste water discharge