

**PHASE 1 ENVIRONMENTAL  
SITE ASSESSMENT  
AND LIMITED SITE CHARACTERIZATION  
McMILLAN FARM PROPERTY  
CORONA COUNTY, CALIFORNIA**

**PROJECT NO. 31558.2  
MARCH 21, 2002**

Prepared For:

Bluestone Communities  
1300 N. Bristol Street, Suite 214  
Newport Beach, California 92660

Attention: Mr. Ralph Emerson

**LOR** GEOTECHNICAL GROUP, INC.  
Soil Engineering ▲ Geology ▲ Environmental

March 21, 2002

Bluestone Communities  
1300 N. Bristol Street, Suite 214  
Newport Beach, California

Project No. 31558.2

Attention: Mr. Ralph Emerson

Attached herewith is the Phase 1 Environmental Site Assessment and Limited Site Characterization conducted by this firm for the 530± acre McMillan Farm project generally located southeast of Eagle Glen Parkway and I-15 in the city of Corona, Riverside County, California.

This Phase 1 Environmental Site Assessment and Limited Site Characterization was authorized by Bluestone Communities based upon a scope of services generally outlined in our proposal letter dated January 22, 2002.

We appreciate the opportunity to provide this Phase 1 Environmental Site Assessment and Limited Site Characterization for this property. If you have any questions or comments regarding this assessment, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,  
**LOR Geotechnical Group, Inc.**

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**EXECUTIVE SUMMARY**

A Phase 1 Environmental Site Assessment and Limited Site Characterization was conducted by this firm for The McMillan Farm property. The 530 ± acre citrus grove is generally located southeast of Eagle Glen Parkway and I-15, in the city of Corona, Riverside County, California. The present and past site usage has generally been citrus groves and/or vacant land.

The majority of the site was utilized from the at least 1962 until the present as citrus groves. Prior to the 1962 aerial photograph, the site was vacant land. Structures presently on the site include propane powered wind machines, above ground storage tanks, one mobile home, one steel storage building, a retention basin, and several power poles. The above ground tanks consist of a 1000 gallon gasoline tank, a 500 gallon diesel tank, a former 10,000 gallon smudge pot fuel tank, a 10,000 gallon plastic fertilizer tank and a 1,000 ± gallon domestic water tank.

There are reportedly five water wells located on the site. Water for irrigation is obtained from two of these wells and one well supplies domestic water to the mobile home. No below ground storage tanks are on the site. No illegal dumping of household trash and debris has occurred on the site. On the northeast side of the Parcel 1 approximately 400 old smudge pots have been stored. The smudge pots reportedly have not been used in at least the last 12 years. No stained soil was visible in the area of the smudge pots. Three five gallon containers of waste oil are currently stored behind the metal storage shed and should be removed and properly disposed of. A shed located west of Parcel 4 and may not be on the property contains chlordane powder and has pesticide contaminated soil beneath it. This area will need to be cleaned up and properly disposed of. There are no sites listed with the regulatory agencies within a one mile radius of the property which might pose an adverse environmental impact to the site. However, Liston Aluminum located north of Parcel 7 will be visited by the California EPA which may reveal contamination at the site.

The results of our Limited Site Characterization indicated that trace amounts of organochlorine pesticides, chiefly DDT, is present in the site soils. All but two samples indicate the levels are below those at which the soil would be considered a hazardous waste by regulatory agencies having jurisdiction. Application of risk assessment

methodology conducted by the US EPA and Cal EPA, indicate unrestricted use of the property is warranted.

We would recommend the following: The shed located on the west side of Parcel 4 if on the site should have the chlordane powder and 30 gallon drum of diesel fuel removed and properly disposed of, the shed should be dismantled and the wood shed floor and all pesticide contaminated soil under and around the shed removed and properly disposed of. The three 5 gallon cans of waste oil located behind the metal storage building on Parcel 3 should be recycled.

### **INTRODUCTION**

During February 2002, a Phase I Environmental Site Assessment was conducted by this firm for the 530 ± acres McMillan Farm property (Assessor's Parcel Numbers 279-240-001, 009, 279-190-018, -034, 282-030-003,-004, -005, -006, -008 and 282) located in the city of Corona, Riverside County, California. The Phase I Environmental Site Assessment (ESA) was conducted for Bluestone Communities and their designates in general conformance with the Standard Practice For Environmental Site Assessments (ASTM E 1527-00). The purpose of this Phase 1 ESA was to identify to the extent feasible pursuant to the processes described within, recognized environmental conditions in connection with the property. Concurrent with our Phase I ESA, a Limited Site Characterization was conducted. The Limited Site Characterization was conducted to assess levels of organochlorine pesticides present in the site soils and to conduct other testing necessary to determine the presence of petroleum hydrocarbons and other hazardous constituents at the site.

The location of the site, within its regional setting, is presented on the attached Index Map, Enclosure A-1, within Appendix A.

The scope of the Phase I ESA included: A reconnaissance of the property and immediate vicinity; a compilation, review and interpretation of published reports and data available from various private, public and regulatory agencies; review and analysis of historical aerial photographs; interviews with individuals knowledgeable about the site as well as public and regulatory agencies; and preparation of this report. The findings of our Phase I Environmental Site Assessment, as well as our conclusions and recommendations, are presented in the following sections of this report.

### METHODOLOGY AND PROCEDURES

During our research for this site assessment various public agencies and individuals were contacted in order to provide insight into the previous and current uses of the site, with respect to hazardous and/or toxic waste. Agencies, such as the Regional Water Quality Control Board, County of Riverside, Department of Environmental Health and Agricultural Office, and the City of Corona Fire and Building Departments were contacted for information regarding hazardous materials records, permits and underground storage tanks at the site. In addition, federal, and state lists and databases were reviewed to ascertain the presence of known environmentally impaired sites within the immediate area of the property and to determine their impact to the site, if any.

### GEOLOGIC AND HYDROLOGIC SETTING

The site is located within the northwestern portion of the Perris Plain. The Perris Plain lies within the larger Peninsular Ranges geomorphic province of southern California. The Peninsular Ranges geomorphic province is characterized by a series of northwesterly trending mountain ranges separated by intervening valleys, such as the Perris Plain. The Perris Plain is a mass of chiefly crystalline rock of Cretaceous age which has been uplifted in relation to the surrounding and subsequently eroded down to its present level. While the Perris Plain is considered stable, it is bound by active fault zones on all sides. These fault zones include the San Jacinto fault, adjacent to the south of the south, on the northwest, the Elsinore fault on the west, and the Cucamonga fault on the north.

The majority of the site lies within the Bedford Canyon Wash emanating from the Santa Ana Mountains adjacent to the south. This wash is comprised of relatively young alluvial sediments. Erosion of these mountains in his lower portion of the site has resulted in the deposition of relatively unconsolidated alluvial units across the wash. Steep, nearly vertical side walls traverse both the north and south portions of the wash, indicating a relatively youthful erosional surface. The depth of these units at the site was not determined during this study, but are considered to be on the order of several hundred feet or more to the older sedimentay bedrock and crystalline bedrock which underlies the valley floor.

Several portions of the southeastern edges of the site lie above the adjacent wash as bluffs. These bluffs are underlain by older alluvial materials and relatively shallow bedrock and the Vaqueros Formation. The bedrock is locally described as siltstone and sandstone.

Irrigation water for the site is obtained from wells on the sites. According to the grove operations manager there are five wells on the site. Of the five wells, only two provide water for irrigation. He said the depth to groundwater was approximately 160 feet. The Spring 2001 Cooperative Well Measurement Program Report, distributed by the Western Municipal Water District, the water master for the area, listed four wells in the area. All of these wells are located approximately one-half mile to the northeast, near Temescal Creek. The depth to groundwater within these wells is approximately 20 feet. We talked to Mr. George Kurbero with the Elsinore Valley Water District and he indicated the groundwater in the area of the site has high TDS, but not nitrates. He said they have two wells located about one quarter of a mile northeast of the site by the Temescal Creek. Groundwater in these well is shallow due to their proximity to the creek. Based on this information groundwater at the site, should be in excess of 100 feet and flow to the northeast following the natural slope of the area to the Temescal Creek.

### HISTORY OF SITE USAGE

In addition to our interview with the current site owner/grove operator, which is provided in the Site Reconnaissance section of this report, aerial photographs taken of the site and surrounding region between 1931 and 2000 were reviewed by a geologist from this firm. We also contacted the City of Corona Building Department and since this area was recently incorporated by the City of Corona, the City Building Department referred our inquiry into building permits to the County of Riverside Building and Safety Department. Additionally, an environmental chain of title was conducted for the site to provide ownership history and determine if any environmental liens were levied against the property.

#### Aerial Photograph Review

A search was conducted for available aerial photographs for the area on file at the Riverside County Flood Control District, by a geologist from this firm. The search

reviewed aerial photographs taken of the site and surrounding area in 1931, 1962, 1974, 1980, 1984, 1990, 1995, and 2000.

The aerial photographs reviewed consisted of vertical aerial stereo graphic photographic pairs of varying scales. These photographs were viewed using stereoscopes with magnifications of 2X, and 4X for three-dimensional enhancement. Due to the relatively large photographic scales involved, the analysis and subsequent interpretation of detail from aerial photographs sometimes requires a degree of subjective judgement. The degree of certainty on the interpretation of details depends upon such factors as the scale and the quality for the photograph. However, an analysis of aerial photographs will reveal the general site history as to the relative use of the land, possible ground disturbance, activities, etc.

A summary of the site and surrounding conditions during the various times, as reflected in the photographs is given below:

**1. September 24, 1931. Photo Nos.:360-363. Scale 1" = 1000'.**

In these early photographs the site and the immediate surrounding region are composed of relatively undeveloped land in a rural, natural state. The bulk of the site is situated within the lower lying regions of Bedford Canyon Wash, with some of the portions of the site on upraised terraces along the south region. A similar terrace is also adjacent to the north.

The vegetation on the site consists of sparse brush across the lower canyon area, and predominately weeds and sparse brush along the terraces and hills. In addition, there is a small grove of olive trees located on the upper terrace to the southwest (Parcel 5). There are no apparent structures visible on the site in these early photographs. Although there may be a small well along the far northwest end of the site. There is a small reservoir located on the bluff above the site, just offsite to the northwest near the western portion of the site. There is also a very straight line running across the site at this location, which may be a buried water line. In addition there is a small reservoir located just west of the far southwest end of the site. The nearest structure visible appears to be a residence located just south of Parcel 2 across Glen Road. Adjacent to Parcel 8 is a citrus grove.

**2. January 30, 1962. Photo Nos.:3:503-504. Scale 1" = 2000'.**

The subject site remains essentially as described in the earlier photographs with the exception that much of the site is now covered with citrus orchards. This process has resulted in the flattening of the northern terrace. The adjacent terrace to the north has also been planted with groves. A small reservoir has been built along the southern portion of this adjacent grove in the vicinity of where the present day Eagle Glen Road meets the access road to the site. The adjacent site to the west, also contains groves. Two residences are adjacent to the north of the southwest portion of the site where the present day golf clubhouse and associated outbuilding are located. The Liston Aluminum property is now developed with numerous buildings. The previously noted grove adjacent to the east is now mature. The previously noted residence south of Glen Road is gone and a hole has been excavated in its place. Extending east from this is a very large quarry operation. Large ponds (approximately 12 to 15) are present on the eastern portion of this mining operation, east of Temescal Canyon Road. A very large building and large storage yard is present just north of the Liston Aluminum property, north of Cajalco Road. A reservoir is present adjacent to the south of Parcel 6. Parcels 7 and 8, east of future Interstate 15, do not contain groves.

**3. May 24, 1974. Photo Nos.: 367-369. Scale 1" = 2000'.**

The subject site remains essentially as described in the earlier photographs. Several residences are scattered north and south of the site. The northeastern most parcel, (Parcel 7) now contains groves. Interstate 15 is now present. A structure adjacent to the access road to the site appears to be a small storage unit and some small above ground tanks. These may or may not be on the site. Also, another similar structure is present north of the center portion of Parcel 4.

**4. April 10, 1980. Photo Nos.:385-386. Scale 1" = 2000'.**

The subject site remains essentially as described in the earlier photographs. The large quarry to the east contains a lot of water and appears vacant. Homes are more abundant north of the site. Another smaller quarry operation is visible north of the site beyond the adjacent groves. The small reservoir south of Parcel 6 is dry and appears not to be in use any longer.

5. February 4, 1984. Photo Nos.:1130-1132. Scale 1" = 2000'.

The subject site remains essentially as described in the earlier photographs, however the citrus groves are becoming mature and cover much of the detail on the site. Another above ground tank south of the previously noted storage unit and above ground tank is present at the bottom of the access road to the site. The large building to the north across Cajalco Road has expanded with a quarry operation.

6. January 21,1990. Photo Nos.:8-7,8-8 Scale 1" = 2000'.

The subject site remains essentially as described in the earlier photographs, except that Parcel 8 now contains a young grove. The quarry operation to north has grown quite large.

7. January 30,1995. Photo Nos.:8-9-,8-10 Scale 1" = 2000'.

The subject site remains essentially as described in the earlier photographs, except that there is a small building and a mobile home located near the center of the site. The adjacent groves to the north are gone. The quarry to the north is extremely large with nearly 20 ponds. To the south of the Liston Aluminum property is another large facility with four large buildings and numerous smaller buildings. The previously noted storage unit and above ground tanks along the access road to the site are now gone.

8. March 11, 2000. Photo Nos.:8-8; 8-10 Scale 1" = 2000'.

The subject site remains essentially as described in the earlier photographs, except that the trees within the north portion of Parcel 4 have been removed. In addition there are several (approximately nine) large piles of tree removal debris in this area. A tract of homes has been constructed along the upper terrace to the north of the site and a golf course has been constructed west of the site. The large quarry operation to the north is void of any structures and it appears that the topography is being leveled. Earth moving equipment is present. The cellular tower on Parcel 7 is visible. The reservoir on Parcel 2 appears dry.

### County Building Records

The County of Riverside Department of Building and Safety was contacted for building permits. They searched their records and indicated that they had the following records for the site: 1984-electrical for a well, 1988-a 20 horsepower irrigation pump, 1997-cell tower and block wall, and 2001-six cabinets for cell tower.

### Environmental Chain of Title

An Environmental Chain of Title was conducted for the site by Bank Information Solutions, Inc. Their search revealed the site was originally owned by the Corinta Ranch Company from prior to 1940. The various parcels that make up the site were sold to individuals over the years. The McMillan's obtained ownership in 1986 and purchased the last parcel in 2001, no environmental liens were listed for the property. A copy of the Environmental Chain of Custody is presented in Appendix B.

### Site History Summary

Based on our review it, appears the site was utilized as citrus groves from prior to 1962 until the present. Those areas that were vacant land prior to 1962 stayed that way up to the present. The current day groves were planted between 1953 and 1962 and have been in continuous operation ever since except for APN 245-030-2 and -8 which were cleared prior to 1990. According to Mr. Gary McMillan, the grove was initially oranges but were changed to grapefruit when he purchased the property. Several structures, including wind machines, buildings, irrigation equipment and above ground tanks have been constructed at the site through the years.

### SITE RECONNAISSANCE

A site reconnaissance was conducted on February 6 and 7, 2002, by Mr. M. Kevin Osmun of this firm. To orient our site reconnaissance a copy of four Assessor's Parcel Maps, a Proposed Parcel Usage Map by AEI-CASC Engineering, Inc. and a color aerial photograph were provided for our use. Copies of these parcel maps and the aerial photograph are presented within Appendix A.

The majority of the site is or was citrus groves. The remaining acreage is vacant land in a relatively natural state drainage is to the northeast.

Power lines are present throughout some of the property for power to buildings and irrigation pumps and wells. Some of these contain transformers. We did not note any soil staining under the transformers which would indicated leakage. The power poles are owned by Southern California Edison (SCE) and when the site is developed the power poles will be removed and the transformers checked for PCB's by SCE prior to disposal.

The property is currently owned by Gary McMillan and is called McMillan Farms. He indicated he took over most of the site approximately twelve years ago when he removed the existing orange trees and planted grapefruit. He filled out a Key Site Manager Questionnaire which we sent to him. The questionnaire is presented within Appendix C. Mr. McMillan informed us that the grove manager, Fidel is on the site daily and would answer any questions we had regarding the site and its operation. During our site visit we contacted Fidel who provided access to all operations buildings and provided an overview of grove operations and answered any questions we had regarding equipment on the site and its use.

The site is composed of several parcels of land generally located southeast of Eagle Glen Parkway (except for  $53 \pm$  acres) and Interstate 15. The parcels range in size from 10 to  $160 \pm$  acres. During our site reconnaissance we were able to distinguish between parcels by topographic features, dirt roads, or man-made features, however, not all parcel boundaries, especially within the existing groves could be exactly defined. Because of the size of the project the parcel descriptions are separated by parcel number based on the Proposed Parcel Usage Map by AEI-CASC Engineering, Inc., as shown on Enclosure A-6, within Appendix A.

#### Parcel 1

Parcel 1 is shown as  $43.17 \pm$  acres on the Parcel Usage Map and is part of APN 279-240-009 and 279-190-1. The parcel is bordered by Eagle Glen Parkway on the west, Parcel 3 on the south, I-15 on the north and northeast, and Bedford Canyon Wash and Parcel 2 on the southeast. Currently the sites is planted with grapefruit. The exact number of wind machines on Parcel 1 is hard to determine as it blends into Parcel 3

to the south but there appears to be four on the site. Each wind machine is propane powered and has an associated 1,000 ± gallon propane tank with each one. There is a chain link fence followed by a small drainage on the west side of the site. Another drainage exists along the north and northeast side of the site adjacent to I-15. Caltrans has a chain link fence along their right of way. These smaller drainages empty into Bedford Canyon Wash on the southeast side of the parcel. Bedford Canyon Wash is approximately three feet deep in this area and has some small erosion control berms constructed of native soil within it. Approximately four hundred smudge pots were stored on the northeast side of the site. The grove manager indicated they had never used them and they had been stored there since they purchased the property. We examined several of the smudge pots and they all appeared empty and dry. We did not see any soil staining under or around the smudge pots. We obtained two soil samples, one from near each end of the row for testing of Total Petroleum Hydrocarbons. Both tests showed none detected.

#### Parcel 2

Parcel 2 is shown as 18.70 ± acres on the Parcel Usage Map and is part of APN 279-240-009. The parcel is elevated above Parcel 1 and Bedford Canyon Wash to the west and the I-15 Freeway to the east. The Parcel is planted in grapefruit. To the south of the site are scattered residential ranches. Located in the southwest corner of the parcel is an approximate 500 foot diameter by 10 feet deep water reservoir. The reservoir had a deteriorating lining of an asphaltic material. Two samples of the asphaltic material were taken for testing of asbestos content and both were negative.

#### Parcel 3

Parcel 3 is shown as 128.84 ± acres on the Parcel Usage Map and is part of APN 279-190-034, -018, 282-030-008, -006, -005, 004. The parcel is essentially bounded by Eagle Glen Parkway to the west, Bedford Canyon Wash to the east, Parcel 4 to the southwest and Parcel 1 to the north. Present on the north part of Parcel 3 is an Elsinore Valley Water District pipeline which supplies water to an irrigation pump for the groves. Several irrigation water filters were noted. One propane powered wind machine and one fallen down wind machine were also on the north portion of Parcel 3. We also noted a trailer mounted tank, approximately 1,000 gallons in the area of the fallen down wind machine. The use of the trailer mounted tank was unclear but

appeared to have not been used for many years. Beehives with 55 gallon and smaller water containers were noted in the northeast corner of Parcel 3. Power poles with transformers run through the north and center portion of the site. No staining of the soil was noted below the power pole transformers.

The northeast approximate one-quarter of Parcel 3 is native while the rest is planted with grapefruit. The native areas has a heavy cover of brush and small trees and several drainages which are part of the Bedford Canyon Wash run through it. We did not note any structures or stored materials in this area. Along the southeast portion of Parcel 3 is an area for storage of old equipment and materials. Located in this area were wooden platforms, an old trailer mounted smudge pot oil tank (500 ± gallons) welded and barbed wire fencing, PVC and fiberglass coated pipe, steel pipe and fittings, metal roofing, wooden stakes, railroad ties, two old pickup trucks, numerous car parts, an empty five gallon drum, irrigation water filter tanks, an old empty above ground tank, a five gallon bucket of roofing tar, chain link fencing, pump motor, valves and fittings, a five gallon bucket partially filled with grease, wood boxes, old farm equipment, wood pallets, packing boxes, and an approximate 1,000 gallon trailer mounted tank which had no oil odor and may have been used for water. No staining of the ground was noted in this storage area.

Located near the center portion of Parcel 3 is a mobile home and approximately 30 foot by 80 foot metal storage building. The mobile home has a propane tank and septic system for sewage disposal. The metal storage building has a concrete floor and is separated into three areas. The northeast corner of the building is an approximate 15 foot by 30 foot locked room for pesticide storage. We noted seven cases of Krovar, small containers of Lorsban, Diazanone, a bag of rodent bait, a bag of lime, several back pack sprayers, a five gallon mixing bucket, and a half empty 2 ½ gallon plastic bottle of liquid Lorsban. No staining of the concrete floor was noted. In the southeast corner of the metal storage building is another approximate 15 foot by 30 foot locked tool area. This contained chains, nuts and bolts, wire, belts, sprayer parts, oil cans, fire extinguisher, PVC fittings and glue, filters, battery charger, and hand tools. No staining of the concrete floor was noted within this area.

The remaining area of the metal storage building (approximately 30 foot by 50 foot) is used to store a small tractor, a welder, grinder, air compressor, and other small machines. We noted a 30-gallon drum used for trash, two 5-gallon containers, one for

nuts and bolts and one for gasoline, five boxes of Krovar, two 30-gallon plastic containers of roundup, two bags of Urea 46 fertilizer, three 55-gallon drums, one for new oil, one for waste oil, and one empty drum, and three 5-gallon containers of specialty oil for the wind machines. Also noted was a 50-gallon spray tank that mounts onto a truck, a 30-gallon plastic drum of quick absorb and several spray hoses.

Located outside, at the back of the metal storage building, is a camper shell, three 5-gallon containers of waste oil, metal roofing and an aviary. Located in front of and southeast of the metal storage building is a 1,000 gallon above ground gasoline fuel tank and to the east a 500-gallon above ground diesel tank. The tanks are for on-site equipment operations. No significant staining of the soil was noted beneath either of the above ground fuel tanks.

Located on the west side of Parcel 3 there were four former above ground tanks for smudge pot oil. They were located behind the present day chain link fence between the property and Eagle Glen Parkway. Access is by gates in the chain link fence. Based on aerial photographs and the project maps, four tanks were located together and one further south. Only the one further south (approximately 10,000 gallons) remains today. According to Mr. Gary McMillan the four tanks were not part of his property and that's why they were removed during the development of the adjacent property with single family homes. He was not sure if the 10,000 gallon tank was on his property. We walked over the area of the four former above ground tanks and it appears that an elevated bench was built above the existing roadway for the tanks. Vehicles would then pull up below the tanks to be filled with oil or diesel. The area of these four former above ground tanks is overgrown and evidence of their former location was sparse, however, we did not note any stained soil in the area.

The remaining 10,000 ± gallon above ground tank appeared to be empty. It was constructed on or had gravel around it. We noted some staining of the gravel at the outflow pipe but this may have been from the tar used at the pipe joint. We took a soil sample where the outlet pipe exited the tank and at the end of the outlet pipe where it would empty into the trucks. The samples were tested for total petroleum hydrocarbons and resulted in none detected and 110 ppm, respectively. Located immediately south of the 10,000 ± gallon above ground tank is what appears to be an old well or water pump set up and a water tank trailer. According to the grove manager, the water tank was for fertilizer and he indicated they had also used the

10,000 ± gallon tank in the past for fertilizer. Located on the southwest portion of Parcel 3 is a above ground 10,000 ± gallon plastic fertilizer tank. An approximately 1,000 gallon plastic water tank, is located on the southeast portion of Parcel 3 adjacent a water well. This water tank is used to supply domestic water to the mobile home located in the center of Parcel 3.

#### Parcel 4

Parcel 4 is shown as 52.36 ± acres on the Parcel Usage Map and is part of APN 282-030-603 and 282-040-003. The north approximate one-half of Parcel 4 is a former citrus grove which is now vacant. Evidence of the past grove operations are the tree grindings and other green waste and small irrigation pipe. Located on the west side of this vacant area, outside the chain link fence that runs along the west side of the property, is a small wood framed shed. The wood shed has sheet metal siding and a metal roof that may have extended to the north. On the north side of the shed was stored metal pipe. On the south side of the shed was a 30-gallon drum approximately two-thirds full of diesel fuel. Inside the shed, which had a wooden floor, was a workbench with some pipe fittings, paint cans, hydraulic hoses, and three bags of copper sulfate. Based on the deteriorated condition of the shed and its contents it had not been used in many years. On the floor were three one gallon cans, one plastic gallon milk container, an empty 5-gallon bucket, an empty one gallon can of plastic pipe adhesive, an empty one gallon gas can, a small box of silica sand, and a small box of white powder. Samples were taken of the white powder and of the soil under the wooden shed floor. Both samples showed significant levels of pesticides.

We noted a small pile of roof shingles in the area of the shed on Parcel 4 and took two samples to test for asbestos. Both samples were negative for asbestos. Several small ½ to ¾" PVC pipe were also noted in this area. The pipe was painted blue and appeared to be for irrigation.

The approximate south half of Parcel 4 contains relatively young grapefruit trees. Southwest of the site is a golf course which has two metal maintenance buildings. We noted some irrigation water from the adjacent golf course slope coming onto Parcel 4. Southeast of the site is the Bedford Canyon Wash.

Parcel 5

Parcel 5 is shown as 63.38 ± acres on the Parcel Usage Map and is a part of APN 282-040-003. Parcel 5 is elevated above the Bedford Canyon Wash and has a dirt road heading up to it from Parcel 4 which appears to be partially fill. On the west side of Parcel 5 at the end of the road going up to the site, is an irrigation water pump with associated power poles. One of the power poles has three transformers. No soil staining was noted under the transformers. The parcel is planted with grapefruit trees. The southeast side of the site is bordered by a steep natural drainage. Some brick and concrete was placed at the top of one of the drainages for erosion control. There are several above ground irrigation water filter tanks on the site. The access to the adjacent Parcel 6 to the southeast is at the southeast corner of Parcel 5 and is a dirt road over a filled in canyon with a rock covering as erosion control. South of the site is vacant native land. Northeast of this parcel is also vacant native land.

Parcel 6

Parcel 6 is shown as 14.06 ± acres on the Parcel Usage Map and is a part of APN 282-040-003. Parcel 6, like Parcel 5, is elevated with a steep canyon on the west separating Parcels 5 and 6. The canyon is filled with heavy brush and trees. We did not notice any debris or trash dumped in the canyon. The parcel is all grapefruit trees except the very south end where a dirt bike trail. Bike jumps have been constructed by digging out adjacent areas and stock piling the dirt to make jumps. This extends onto the vacant land south of the site. East of this parcel is vacant land and scattered residences/ranches. At the time of our site visit, grove maintenance was spraying Krovar (week killer) under the trees on Parcel 6.

Parcel 7

Parcel 7 is shown as 17.24 ± acres on the Parcel Usage Map and is part of APN 279-240-001. Parcel 7, like the adjacent Parcel 8 to the east, is located on the north side of I-15 while the rest of the parcels are located south of I-15. The site is planted with grapefruit trees. A cell tower with associated equipment is located on the west side of this parcel. Bedford Canyon Wash runs along the east side of this parcel. Liston Aluminum Company is located north of this parcel and sits about a foot higher in elevation. Liston Aluminum is a recycling facility. We noted several large buildings on

the site. Immediately adjacent to the site are trucks, roll off bins, pieces of metal, and a pile of bottle caps. No drums or barrels were located adjacent to the site. A cell tower facility is also located on the Liston Aluminum Company property. Chain link fencing surrounds Parcel 7 except for the east side which is the Bedford Canyon Wash. Power poles are present through the center of the site.

#### Parcel 8

Parcel 8 is shown as 31.17 ± acres on the Parcel Usage Map and is part of APN 279-240-001. The site is bordered by the I-15 on the southwest and Bedford Canyon Wash to the northwest. The site is planted with grapefruit trees and has one propane powered wind machine. On the northeast side of this parcel is Quickcrete, a concrete block and bagged concrete manufacturer. Southeast of this parcel is vacant land and a quarry. Adjacent to this parcel at the Quickcrete Company, they have stored river rock, silica sand, concrete, and red brick, some of which has spilled on the site. Additionally, we noted some roll off containers and five 55-gallon drums stored on pallets. Three of these drums are plastic and two are steel. They appear to contain waste oil. No significant staining of the ground under the drums was noted. No staining of the soil on the site was noted in this area.

In summary most of the property is or was a citrus grove. The site topography varies by up to 100 plus feet and portions are deep canyons while other areas such as Bedford Canyon Wash, are relatively shallow. Site structure includes; irrigation water wells and pumps, power poles, propane powered wind machines, above ground fertilizer tanks, water and fuel tanks, a mobile home, large metal storage building and irrigation water filter tanks. Not recently used are a 10,000 ± gallon above ground smudge pot oil/diesel tank, several trailer mounted fertilizers tanks, pesticide storage shed, and approximately 400 smudge pots. Only the pesticide storage shed on the west side of Parcel 4 appears to be of concern based on residual pesticide levels detected in the soil and in the white powder stored within the shed.

#### Inspection of Adjacent Parcels

During our reconnaissance of the subject site, observations, limited by access, of the immediately adjacent properties were conducted. The property to the south of the site is vacant land, west of the site is a golf course and single family residences. North of

the site is the I-15 freeway and Listen Aluminum, Quickcrete and a quarry. East of the site are ranches with single family residences. No high voltage power lines are present on or adjacent to the site.

Color photographs of the site and adjacent properties are presented within Appendix A.

### REGULATORY AGENCY RECORDS REVIEW

Regulatory and public agencies were contacted, as a part of this Phase 1 Environmental Site Assessment for information regarding landfills, underground storage tanks (UST), hazardous waste sites, or knowledge of hazardous waste on the site and surrounding properties. For accidental spills of hazardous materials within the County of Riverside Department of Environmental Health, generally acts as the lead agency. The Regional Water Quality Control Board (RWQCB), Santa Ana Region, generally becomes the lead agency for groundwater remedial investigations.

The County of Riverside Department of Environmental Health was contacted for information regarding the site. We provided the current site address and they indicated they did not have any files on the site. A copy of their letter is provided in Appendix H.

The City of Corona Fire Department was contacted and they indicated they did not have any records for that area as they had not been provided by the County of Riverside Fire Department. We contacted the County Fire Department and they referred our inquiry to the County Health Department.

The County of Riverside Agricultural Commission Office was contacted regarding pesticide use at the site. They indicated their records go back only three years, the current year plus two additional years. They reviewed their records for the site and the copy of the pesticides list provided by McMillan Farm Management and they indicated these were in agreement with their records. They said McMillan was a licensed and registered pesticide applicator and the pesticides listed, if applied in accordance with the manufacturers recommendations, are environmentally safe.

## REGULATORY DATABASE REVIEW

We contracted with Track Information Services, Inc. (Track), to conduct a regulatory agency database search. The results of the search is summarized below with a copy of their report provided within Appendix D.

### CERCLIS/NPL Sites

Pursuant to the Comprehensive Environmental Response Conservation and Liability Act of 1980 (CERCLA), the U.S. Environmental Protection Agency (EPA), has developed and maintained lists of contaminated properties under the Federal Superfund Program.

There were no sites identified within a one-half mile radius of the subject property which are included on the January 2002 Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS).

There were no sites within a one mile radius of the site listed on the January 2002 National Priority List (NPL).

### RCRIS/Generators/TSD Facility

The EPA Resource Conservation and Recovery Information System (RCRIS) List for Hazardous Waste Generators dated January of 2002, was reviewed to determine if any such generators were located within one-quarter mile of the site. No such sites were found within that radius.

The EPA RCRIS List for Treatment Storage and Disposal (TSD) Facilities dated January 2002 was reviewed to identify sites located within a one-half mile radius of the site. No such sites were identified.

### ERNS Sites

The EPA Emergency Response Notification System database dated December, 2000 was reviewed and the subject site was not listed. The closest listing was illegal dumping at Cajalco and Temescal Canyon Roads. The material was drug lab waste, which was cleaned up by the local authorities.

### State Sites

The list of State sites derived from the Cal EPA, Department of Toxic Substance Control, dated October 2000, was reviewed and one site was listed within one mile of the site. The site is Liston Aluminum Company, which had twenty five tons of stockpiled hazardous material (lead and zinc) on the site. The material was reprocessed in 1985 and the site status is now closed. We contacted the lead agency in that case, the RWQCB and reviewed their records. Their records had letters from concerned citizens regarding dumping of waste at Liston Aluminum. Apparently in 1985 the dumping occurred and was cleaned up by Liston but the exact disposal of the material was never really resolved. There were suspicions of illegal dumping at the site for a few years but never was proven. The file mentions seepage pits with dumped waste in them but again never proven. The last correspondence is a letter dated 2001 from the California, EPA, Department of Toxic Substance Control, stating they will be making a site visit. If and when this site visit is conducted, contamination maybe found at this site.

### Leaking Underground Storage Tanks

The State Water Quality Control Board (SWQCB), maintains a list of all leaking underground storage tanks (LUST) within their region. The August , 2001 list was reviewed to identify sites within one-half mile of the subject property and there were no sites identified.

### UST's/AST's

The State Water Resources Control Board list of above ground storage tanks (AST's) dated January 2002 listed one site within a one-quarter mile radius. The site is Metropolitan Water District Power Plant.

### Landfills

No landfills, were identified within a one-half mile radius of the site during a review of the November 2001 California Waste Management Board Solid Waste Information Systems (SWIS) List. The Cal EPA Department of Toxic Substance Control Facility

Inventory database, dated April 1998 was reviewed and there were not sites listed within a one-half mile radius of the site.

#### Division of Oil and Gas

Map W1-4, from the Long Beach office of the DOG, was reviewed to determine if any abandoned or producing gas or/oil wells were present within one-half mile of the site. The review showed an abandoned well in Section 17 and one in Section 21, but they do not appear to be within a one-half mile radius of the site.

#### Database Summary

Based on the information provided by the public, regulatory and governmental agencies and information obtained during our records search, site reconnaissance, and literature review, the site does not appear to be a hazardous waste property or border zone property as defined in Section 25221 of the State of California's Health and Safety Code.

#### **LIMITED SITE CHARACTERIZATION**

Due to the sites past history of agricultural use, soil sampling for pesticides persistent in the environment was conducted during our site reconnaissance. The sampling was conducted using hand equipment to obtain samples at depths from 0.0 to 1.0 feet below the existing ground surface. Pesticides testing included organochlorine pesticides and selected samples tested for Carbamate/UREA Pesticides and Chlorinated Herbicides. Additional samples were taken of suspected asbestos containing material and of soil in suspected areas of petroleum hydrocarbon contamination. These additional samples are discussed in detail under Miscellaneous Field Sampling.

#### Soil Sampling Methodology and Procedure

The field sampling equipment consisted of hand shovels, several small stainless steel scoops, and clean glass jars. A total of 385 discrete soil samples were obtained and composited into 77 samples. Of these 77 composite samples, 8 samples were tested discretely. The approximate location of our soil samples are presented on the attached Soil Sample Location Map, Enclosure E-1, within Appendix E.

To minimize the chance of cross-contamination between samples, all sampling equipment was decontaminated prior to its use in the following manner:

- Wash with water and Alconox detergent solution
- Rinse twice with distilled water

All samples were collected in clean glass jars, labeled and placed in a cooler chilled with blue ice for delivery by LOR to the laboratory for analysis. Chain of Custody (CoC) forms were completed for all samples and are presented in Appendix D.

All field work was documented in the following manner. The sample labels were filled out with the sample number, location, depth, requested analysis, and the date and time of sampling. Upon delivery of the samples to the laboratory for analysis, the CoC form was signed by authorized personnel and a copy was retained by LOR. Because of the number of samples the samples were tested by two laboratories, Del Mar Analytical and Applied P & CH Labs, both State Certified Hazardous Waste testing laboratories.

The quality assurance/quality control (QA/QC) program in effect during the performance of all field activities included the following items:

- Complete documentation of all field activities.
- Use of appropriate CoC forms.
- Use of clean sample equipment.
- Proper equipment decontamination according to accepted EPA Protocol.

#### Laboratory Test Results

Laboratory testing was conducted on all the composite samples collected, then eight random discrete samples. These were tested for the presence of organochlorine pesticides in accordance with EPA method 8081A. Additionally ten discrete soil samples were tested for Carbamate/UREA Pesticides EPA method 632 and Chlorinated Herbicides EPA 8151. The results of these tests are tabulated below with the complete laboratory data presented within Appendix E.

Sample ID	Organochlorne Pesticides (ppm)	Carbamate/Urea Pesticides (ppm)	Chlorinated Herbicides (ppm)
1A-E	0.319 DDT	--	---
2A-E	0.397 DDT	ND	ND
3C	0.308 DDT	--	---
3A-E	0.192 DDT	--	---
4A-E	0.163 DDT	--	---
5A-E	0.290 DDT	--	---
6A-E	0.612 DDT	ND	ND
7A-E	0.341 DDT	--	---
8A-E	0.620 DDT	--	---
9A-E	0.506 DDT	--	---
10A-E	0.530 DDT	--	---
11A-E	0.333 DDT	--	---
12A-E	0.450 DDT	--	---
13C	0.234 DDT	--	---
13A-E	0.840 DDT	--	---
14A-E	0.588 DDT	--	---
15A-E	0.740 DDT	ND	ND
16A-E	0.453 DDT	--	---
17A-E	0.069 DDT	--	---
18A-E	0.307 DDT	--	---
19A-E	0.360 DDT	--	---
20C	1.450 DDT	--	---
20A-E	0.500 DDT	--	---
21A-E	0.214 DDT 0.009 Dieldrin	ND	ND
22A-E	0.054 DDT 0.003 Dieldrin	--	---

Sample ID	Organochlorne Pesticides (ppm)	Carbamate/Urea Pesticides (ppm)	Chlorinated Herbicides (ppm)
23A-E	0.125 DDT 0.005 Dieldrin	--	---
24A-E	0.189 DDT 0.007 Dieldrin	--	---
25A-E	0.162 DDT 0.009 Dieldrin	--	---
26A-E	0.092 DDT 0.004 Dieldrin	--	---
27A-E	0.158 DDT 0.013 Dieldrin	--	---
28A-E	0.002 DDT	--	---
29A-E	ND	--	---
30A-E	0.003 DDT	--	---
31A-E	ND	--	---
32A-E	0.002 DDT	0.051 Baygon 0.001 Carbaryl 0.014 Carbofuran 0.052 3-Hydroxycarbofuran 0.555 Methicarb 0.050 Duiron 0.010 Monuron 0.140 Propham	ND
33A-E	0.004 DDT	--	---
34C	0.011 DDT	--	---
34A-E	0.006 DDT	--	---
35A-E	0.005 DDT	--	---
36A-E	0.040 DDT	--	---
37A-E	0.093 DDT	--	---
38A-E	0.043 DDT	--	---
39A-E	0.007 DDT	--	---
40A-E	0.002 DDT	--	---
41A-E	0.030 DDT	--	---
42A-E	0.190 DDT	--	---
43A-E	0.060 DDT	--	---

Sample ID	Organochlorne Pesticides (ppm)	Carbamate/Urea Pesticides (ppm)	Chlorinated Herbicides (ppm)
44C	0.045 DDT	—	---
44A-E	0.258 DDT	—	---
45A-E	0.434 DDT	—	---
46A-E	0.123 DDT	—	---
47A-E	0.179 DDT	0.096 Baygon 0.001 Carbaryl 0.024 Carbofuran 0.016 3-Hydroxycarbofuran 0.597 Methiocarb 0.010 Duiron 0.020 Monuron 0.300 Propham	ND
48A-E	0.011 DDT	—	---
49A-E	0.255 DDT	—	---
50A-E	0.549 DDT	—	---
51A-E	0.023 DDT	—	---
52A-E	0.178 DDT	—	---
53A-E	0.287 DDT	—	---
54-57	SAMPLE #'s NOT USED	—	---
58A-E	0.020 DDT	—	---
59A-E	0.003 DDT	—	---
60A-E	0.100 DDT	—	---
61A-E	ND	—	---
62A-E	0.036 DDT	—	---
63C	0.094 DDT	—	---
63A-E	0.069 DDT	ND	ND
64A-E	0.060 DDT	—	---
65A-E	0.050 DDT	—	---
65A A-E	0.091 DDT	—	---
66A-E	ND	—	---
67A-E	ND	—	---
68C	0.095 DDT	—	---

Sample ID	Organochlorne Pesticides (ppm)	Carbamate/Urea Pesticides (ppm)	Chlorinated Herbicides (ppm)
68A-E	ND	—	---
69A-E	ND	—	---
70A-E	ND	0.072 Baygon 0.003 Carbaryl 0.023 3-Hydroxycarbofuran 0.221 Methiocarb 0.020 Siduron	ND
71A-E	0.002 DDT	—	---
72A-E	0.041 DDT	—	---
72C	0.071 DDT	—	---
73A-E	0.157 DDT	0.021 Baygon 0.004 Carbofuran 0.003 3-Hydroxycarbofuran 0.115 Methiocarb	ND
74A-E	0.186 DDT	—	---
75A-E	ND	—	---
76A-E	ND	—	---
77-85	SAMPLE ID NOT USED	—	---
86A-E	ND	—	---
87A-E	ND	—	---
88A-E	0.009	—	---
89A-E	0.382	—	---

ND - None Detected, ppm - Parts per million, DDT - Includes the metabolite DDD and DDE.

The composite test results (composite of 5 samples) indicate the pesticide DDT and its metabolites DDE and DDD are present in concentrations from none detected up to 0.840 parts per million (ppm). This is about an average of 0.50 ppm. The eight discrete samples tested, or approximately 10 percent, indicate levels from 0.011 to 1.45 ppm. Except for the 1.45 ppm, the discrete samples were in good correlation with the composite sample, generally showing up to two times the composite concentration. Discrete sample 20C at 1.45 ppm is about three times the composite sample concentration. A trace amount of Carbamate/Urea pesticides were also found in some of the composite samples taken. These levels are orders of magnitude below

the US EPA Preliminary Remediation Goals and should pose no risk to the proposed residential development.

#### Additional Pesticide Sampling

After reviewing the initial test data for the Organochlorine Pesticide levels in the composite and discrete samples taken at the site it was determined to obtain several more discrete samples for testing. These were obtained on March 13, 2002 using the previous sampling protocol. These samples were taken in areas where the composite samples showed over 0.5 ppm of DDT and from the areas adjacent to where the 1.45 ppm of DDT was found on area 20. The results are tabulated below with the laboratory data presented within Appendix F.

SAMPLE ID	AREA	ORGANOCHLORINE PESTICIDES PPM
S-6	6	0.516
S-8	8	0.556
S-9	9	0.064
S-10	10	1.33
S-14	14	0.602
S-15	15	0.633
S-19	19	0.239
S-21	21	0.082
S-50	50	0.154

PPM - Parts Per Million

#### Miscellaneous Field Sampling

During our site reconnaissance the following areas were identified as having potential concerns. The old 10,000 ± gallon above ground smudge pot oil tank which may be on the site, the asphalt shingles located on the west side of Parcel 4, the asphaltic material lined retention basin south of Parcel 2, the 400 ± smudge pots stored on the northwest side of Parcel 1, and the small shed which may or not be on the site on the

west side of Parcel 4. To address these areas, we obtained samples of the asphaltic shingles on the west side of Parcel 4 and from the asphaltic material lining the retention basin south of Parcel 2. We obtained two soil samples from the smudge pot storage area on the northeast side of Parcel 1 for testing of total petroleum hydrocarbon. A soil sample was obtained at the end of the outlet pipe and another was obtained where the outlet pipe connected to the old 10,000± gallon above ground smudge pot oil tank. A soil sample was obtained beneath the wood floor of the shed located west of Parcel 4 and tested for organochlorine pesticides. Additionally, a sample was taken of the white powder in the shed and tested for metals and organochlorine pesticides. The results of these tests are tabulated below with the laboratory results presented in Appendix G.

Sample ID	Location	Analytical Result
Shed Floor	Soil under shed floor	Chlordane 78 ppm Endrin 2.4 ppm DDT - 53.9 ppm
Shed Powder	Approximately 5 lbs. in shed	Chlordane - 80,000 ppm* Metals - Background Levels
T-1	At 10,000 gallon AGT connection	TRPH - ND
T-2	At 10,000 gallon ACT outlet	TRPH - 110 ppm
Smudge Pots Smudge Pots	West side of smudge pot storage East side of smudge pot storage	TRPH - ND TRPH - ND
1	Shingles on west side Parcel 4	Asbestos - ND
2	Shingles on west side Parcel 4	Asbestos - ND
3	Retention Basin - Side	Asbestos - ND
4	Retention Basin - Bottom	Asbestos - ND
ND - None Detected, ppm - Parts Per Million, * - estimated		

Data Discussion

The test data from our limited site characterization and miscellaneous testing indicates the following:

- There appears to be no residual hydrocarbons from smudge pot oil at the smudge pot storage area on the north side of Parcel 1
- The roofing shingles and retention basin asphaltic materials do not contain asbestos
- The former 10,000 gallon above ground storage tank that may or may not be on the site does not have any residual hydrocarbons at the area where the outlet pipe enters the tank. The stained soil in this area appears to be from the joint compound. A minor amount of petroleum hydrocarbons was detected where the trucks filled at the outlet pipe. This appears to be a very shallow staining on the order of six inches deep. In any case it does not appear to be at a level or amount to be of regulatory concern.
- The approximately 10 foot by 10 foot shed which may or may not be located on the property west of Parcel 4 has very high levels of the pesticide DDT, Endrin, and Chlordane in the soil beneath the wood floor. The white powder (approximately 5 pounds) within the shed appears to be the pesticide Chlordane. The Chlordane powder as well as and some soil under and in the area of the shed, will have to be removed from the site and properly disposed of.
- The levels of DDT encountered in the composite and discrete soil samples, except for two, collected over the site indicate residual concentrations of DDT and in some very small cases Dieldrin in the soil should pose no health risk. However, if soil is to be exported off the site, it should be checked to assure that it has less than 1 ppm DDT. A more detailed explanation of the risk characterization from the residual DDT at the site is presented below.

#### Risk Characterization Studies

DDT as discussed below, is meant to include both its metabolites DDD and DDE. DDT is considered to be a probable human carcinogenic by the US and California EPA. Previous studies have shown no correlation between DDT and human cancer, however, the weight of evidence from animal studies prompted the regulatory agencies to regard DDT as a "probable" human carcinogen. The US EPA, 1999 Preliminary Remediation Goals (PRG's) which are risk based on inhalation, dermal contact and ingestion, list DDT at 1.7 ppm at the level of which one excess cancer risk in one

million ( $1 \times 10^{-6}$ ) may be expected. The 1.7 ppm is also listed as the Preliminary Remediation Goal for residential soil. The 1.7 ppm is above the maximum concentration we obtained in our testing which was 1.45 ppm. They also list Dieldrin, which was found on only Parcel 4, at a level of 0.03 ppm at the level which would cause one excess cancer in one million. This is well above the levels detected at the site. The US EPA PRG's combined current EPA toxicity values with "standard" exposure factors to estimate contaminant concentrations, in this case DDT, in soil that are protective of humans, including sensitive groups, over a lifetime. This is an agreement with the US EPA Guidelines.

In a guidance document provided by the CAL EPA (1998), Chapter 8, DDT in Soil: Guidance for The Assessing of Health Risk to Humans, they list several categories of risk scenarios. These include a seventy year resident, typical residential children (ages 1-17), thirty year home maker, etc. The highest risk from residential exposure to DDT in soil is for a High Risk Scenario Residential Child which is a  $7 \times 10^{-7}$  or seven excess cancers in ten million over a lifetime. This is for a concentration of 1 ppm of DDT in the soil. The highest concentration we found was 1.45 ppm. If this is multiplied by the  $7 \times 10^{-7}$  you get  $1 \times 10^{-6}$  or one excess cancer in one million over a lifetime. All the other concentrations of DDT in the soil encountered on the site would produce lower cancer risks over a lifetime. Based on this data, the residual concentrations of pesticides in the soil from the citrus grove operation do not pose a significant risk to the planned residential development. It should also be noted that these values are conservative and are likely to overstate the actual risk. Except for the export of soil from the site, which should be tested for DDT prior to its removal, unrestricted use of the property is warranted. A copy of the analytical laboratory test results and the Chain of Custody forms are presented within Appendix E through G.

### CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in general conformance with the scope of work required by ASTM E 1527-00 for the approximately  $530 \pm$  acre McMillan Farm generally located to the southeast of Eagle Glen Parkway and I-15, within the city of Corona, Riverside County, California. This assessment has revealed no adverse environmental conditions associated with the site except the following: a small shed located west of Parcel 4 has Chlordane powder and pesticide contaminated soil. If this shed, is part of the site, then the Chlordane powder and pesticide

contaminated soil under and around the shed should be properly disposed of. Waste oil stored behind the metal building on Parcel 3 in three 5-gallon cans should also be properly disposed of. The organochlorine pesticide DDT was found in most of the soil samples obtained from present or former groves on the site. A trace amount of Dieldrin was also found in a few of the samples. The levels detected were all below a level which would prove to be a risk to human health. However, any soil from the site, if it is to be hauled off-site should be tested for DDT to assure it is below the regulatory level of 1 ppm. No significant human health risk from exposure to the levels of organochlorine pesticides currently present in the soil is expected. Further, when grading of the site is completed this risk will be even further reduced.

### LIMITATIONS

LOR Geotechnical Group, Inc. has performed our services within the limits prescribed by our client, with the usual thoroughness and competence of the Environmental Profession. LOR Geotechnical Group, Inc. (LOR) makes no other warranty or representation, either express or implied.

The conclusions in this report are based upon readily available data obtained from interviews with public, regulatory and governmental agencies, literature researched and information provided by consultants. It is assumed and expected that the information provided by these third parties is accurate. LOR does not guarantee the accuracy or completeness of the information provided by third parties nor shall LOR be responsible for errors, omissions or damages arising out of the use of that information. The information obtained was solely for the project and scope of services described.

This report and the contents resulting from this assessment are not intended or represented to be suitable for extensions or modifications of the project area, or for use on any other project.

Bluestone Communities  
March 21, 2002

Project No. 31558.2

**CLOSURE**

We appreciate this opportunity to be of service and trust this report provides the information desired at this time. Should questions arise, please do not hesitate to contact this office.

Respectfully submitted,  
LOR Geotechnical Group, Inc.



M. Kevin Osmun, REA II 20058  
Vice President

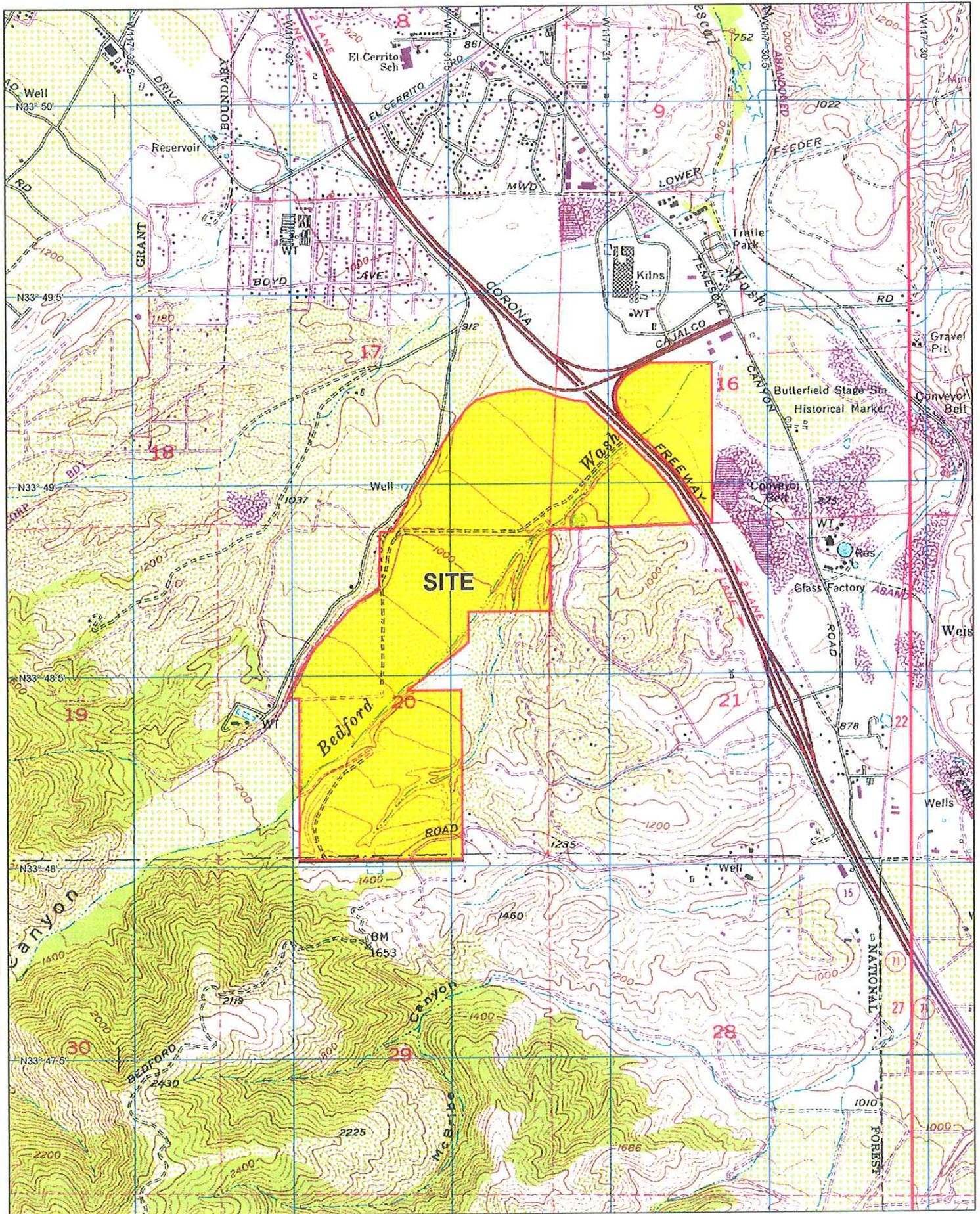


MKO:tg

Distribution: Addressee (2)

**APPENDIX A**

**INDEX MAP  
ASSESSOR'S PARCEL MAPS  
PARCEL USAGE MAP  
COLOR AERIAL PHOTOGRAPH  
COLOR PHOTOGRAPHS**

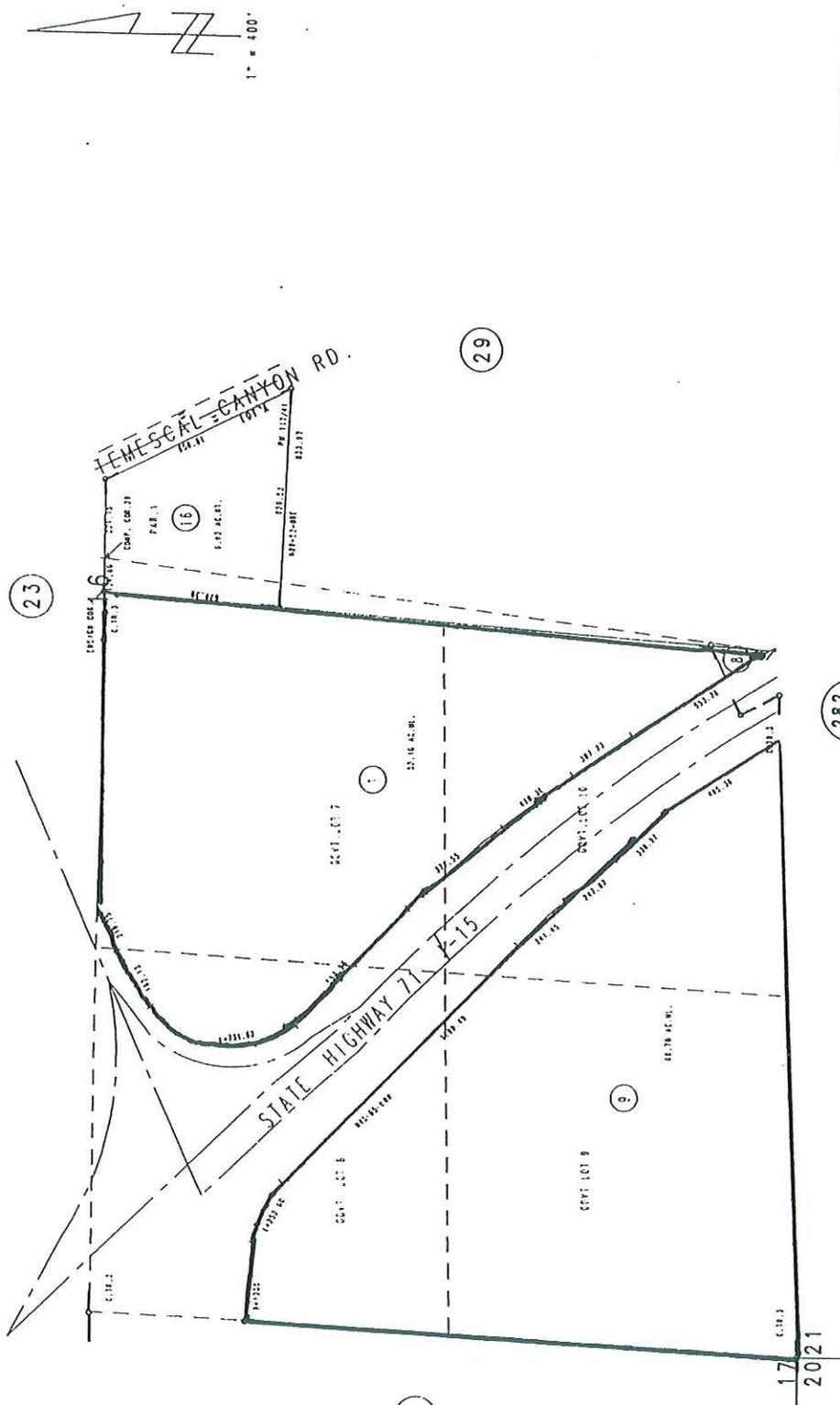


279-24  
10-33-1

T.R.A. 059-001

POR. S1/2 SEC. 16 T4SR6W

THIS MAP IS FOR  
ASSESSMENT PURPOSES ONLY



REVISIONS	
DATE	DESCRIPTION
10/33/1	1-1
10/33/1	1-2
10/33/1	1-3
10/33/1	1-4
10/33/1	1-5
10/33/1	1-6
10/33/1	1-7
10/33/1	1-8
10/33/1	1-9
10/33/1	1-10

282  
05

DATE: 10/33/1  
BY: [Signature]  
FOR: [Signature]  
SCALE: AS SHOWN  
PROJECT: [Signature]

DATE: 10/33/1  
BY: [Signature]  
FOR: [Signature]  
SCALE: AS SHOWN  
PROJECT: [Signature]

ASSESSOR'S MAP BK. 279 PG. 24  
Riverside County, Calif.

ATTORNEY

PM 117/41-43 PM. NO. 18798

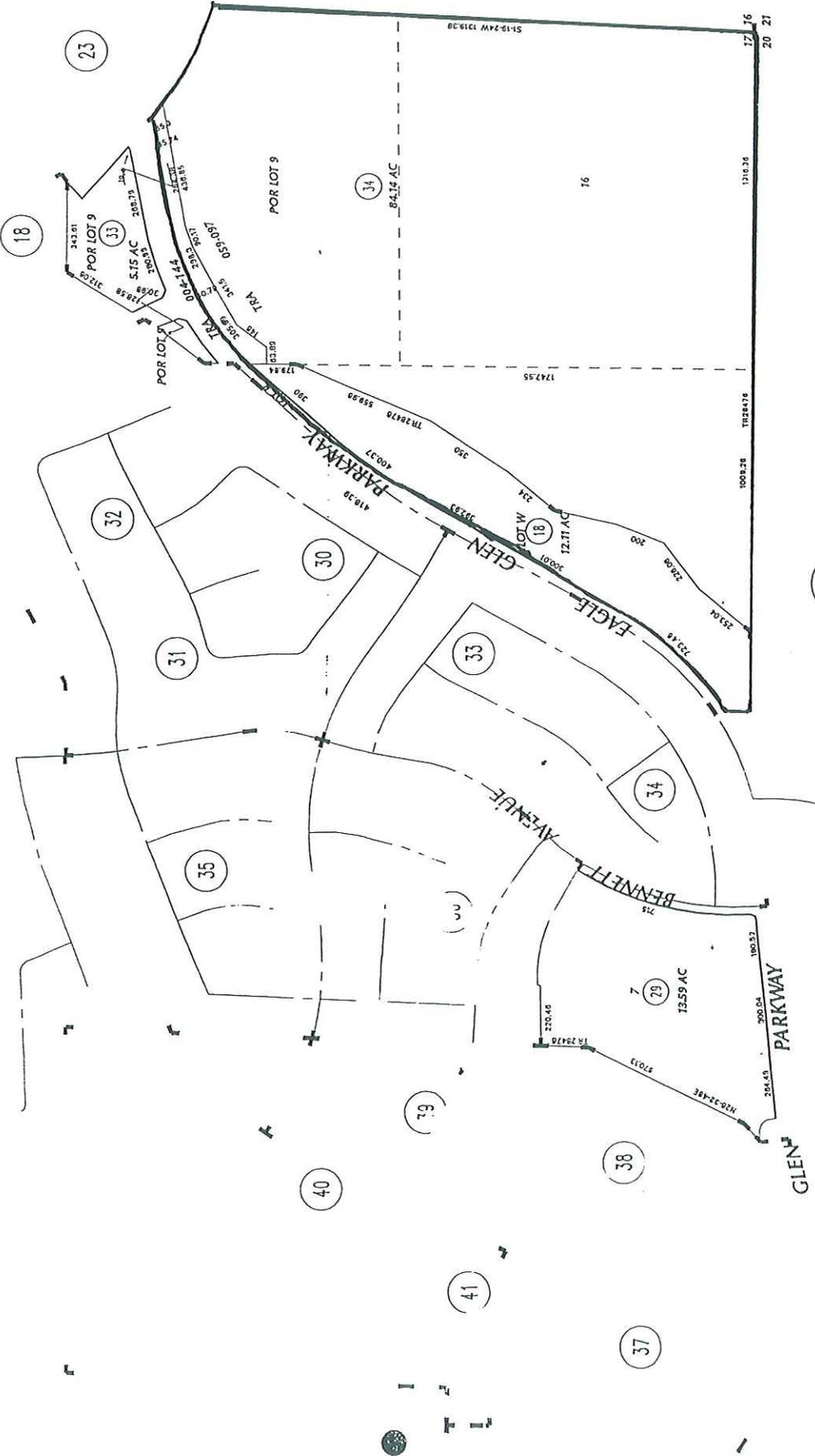
JUN. 1977  
REV. APR. 1993

THIS MAP IS PREPARED FOR THE PURPOSES OF THE LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES. THE LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES OF THE CITY OF CORONA MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

SEC 20 T. R. 6  
CITY OF CORONA

T. R. A.  
004-143  
004-144  
059-097

10-35-01



DATE: 05/22/16  
 607-2  
 DEED 52784-5 2/14  
 MB 16/0 CORONITA TR NO. 3  
 LLA 281.0  
 RS 02/34-55, RS 31/06, RS 32/92

ASSESSOR'S MAP BK. 279 PG. 19  
 Riverside County, Calif.

MB 270/90-102 TR NO 28476

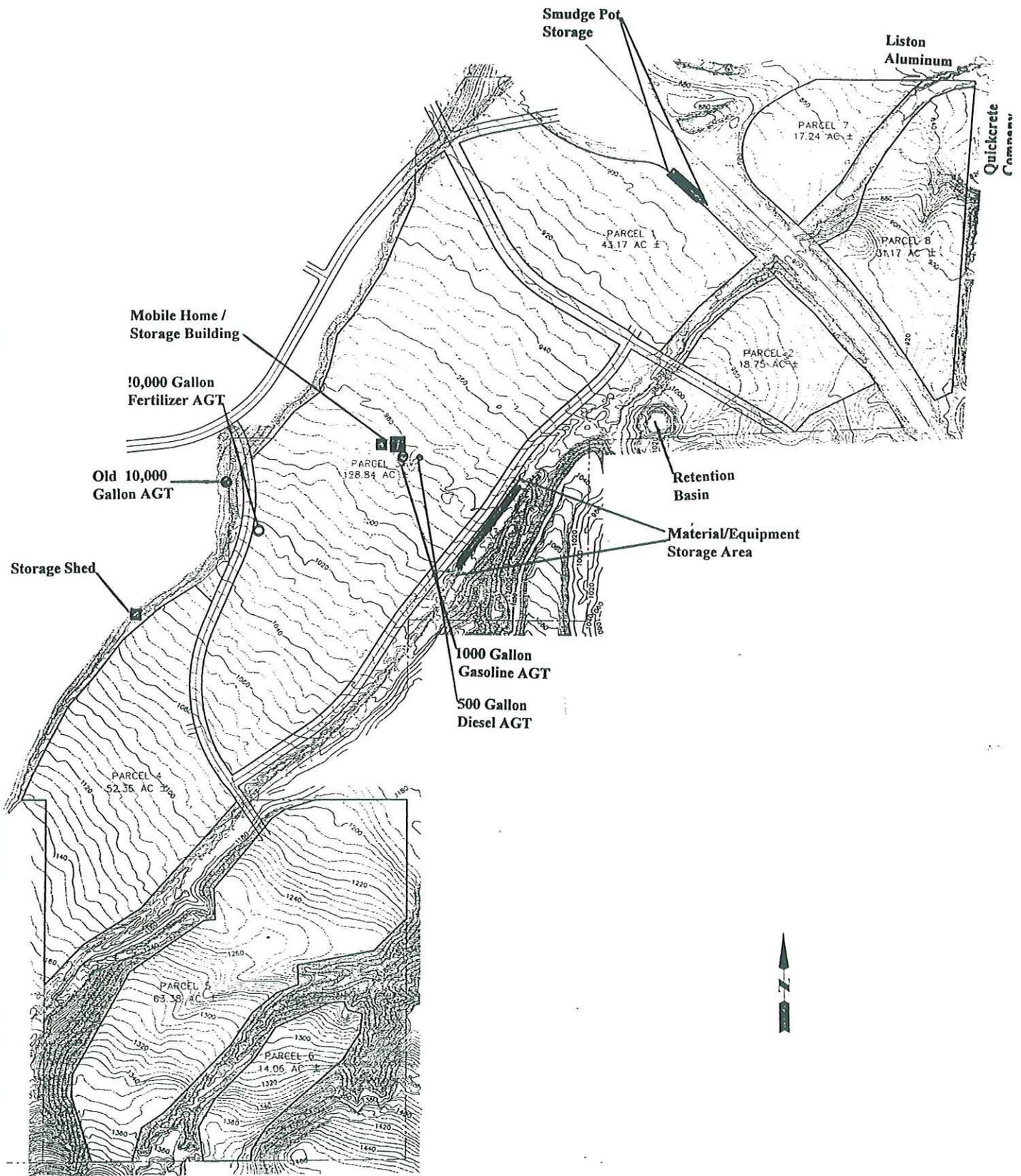
Jun 2001

DATE	OLD NUMBER	NEW NUMBER
01/79	2	8, PG. 13
01/79	1	9, 10
01/79	10, 1022	11
01/79	3, 17, 18	11-13
11/79	12	PG. 30, 31, 32
01/79	13	PG. 33, 34
01/79	14, 15	PG. 35, 36
01/79	16, 17	PG. 37, 38
01/79	18, 19	PG. 39, 40
01/79	20, 21	PG. 41, 42
01/79	22	PG. 43
01/79	23	PG. 44
01/79	24	PG. 45
01/79	25	PG. 46
01/79	26	PG. 47
01/79	27	PG. 48
01/79	28	PG. 49
01/79	29	PG. 50
01/79	30	PG. 51
01/79	31	PG. 52
01/79	32	PG. 53
01/79	33	PG. 54
01/79	34	PG. 55
01/79	35	PG. 56
01/79	36	PG. 57
01/79	37	PG. 58
01/79	38	PG. 59
01/79	39	PG. 60
01/79	40	PG. 61
01/79	41	PG. 62
01/79	42	PG. 63

282  
0.3

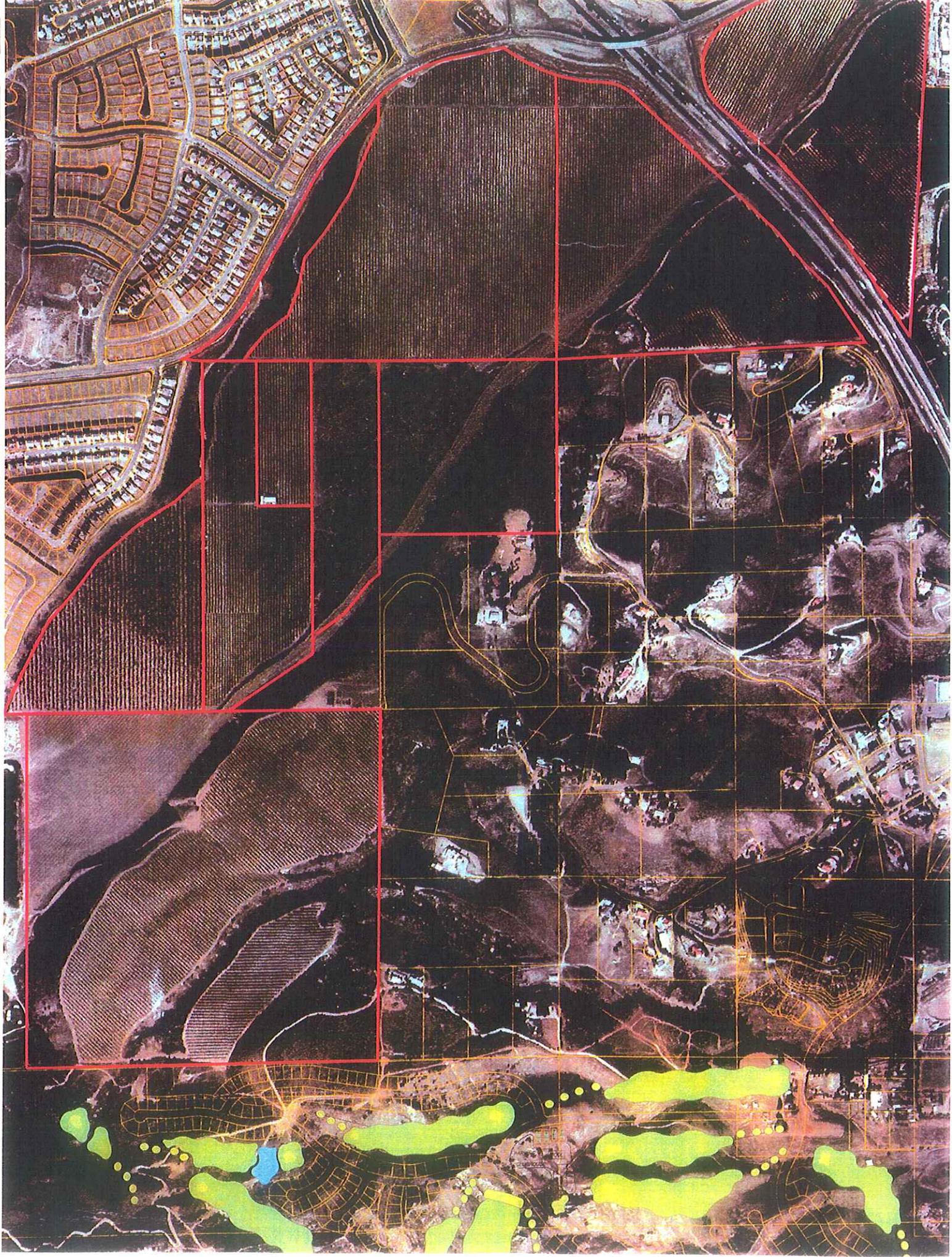


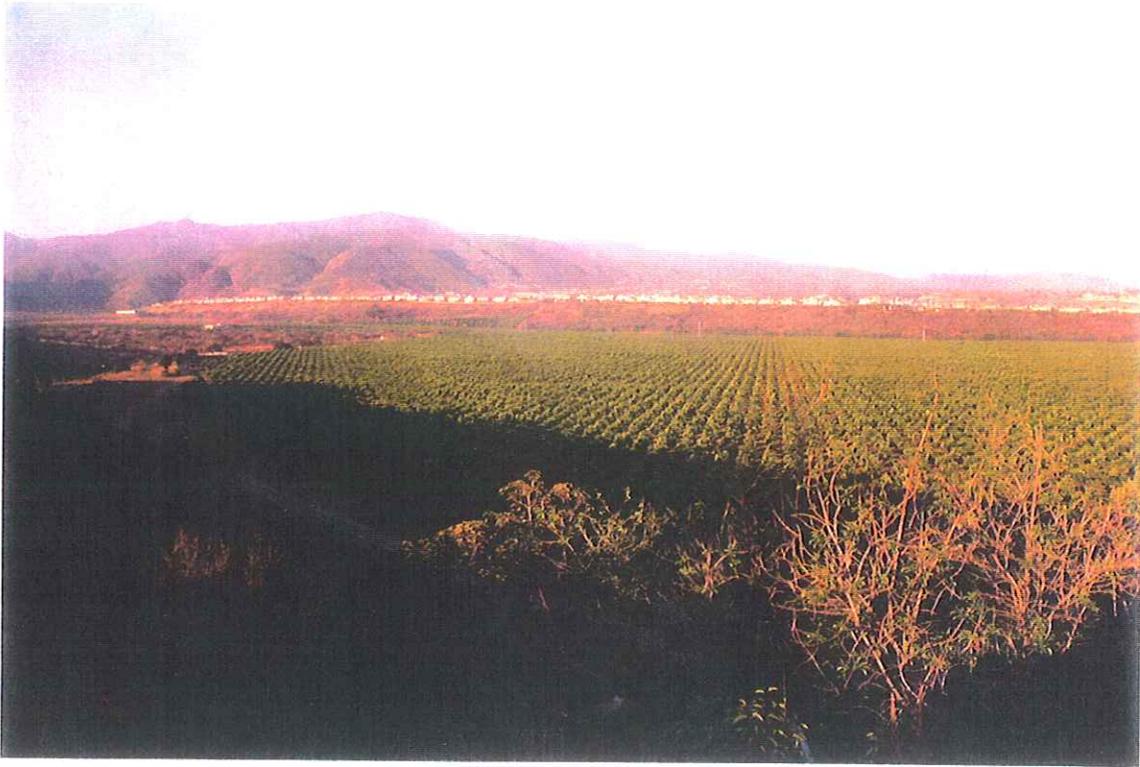




### PARCEL USAGE MAP

PROJECT:	MCMILLAN PROPERTY	PROJECT NO.:	31558.2
CLIENT:	BLUESTONE COMMUNITIES	ENCLOSURE:	A-6
<b>LOR Geotechnical Group, Inc.</b>		DATE:	MARCH 2002
		SCALE:	REDUCED COPY





VIEW FACING WESTERLY FROM PARCEL 2 SHOWING THE SOUTH SIDE OF PARCEL 1 TO THE RIGHT AND PARCEL 3 TO THE LEFT. PROPANE POWERED WIND MACHINES ARE VISIBLE IN THE BACKGROUND. RESIDENTIAL DEVELOPMENT IS SHOWN WEST OF THE SITE.



VIEW FACING NORTHWESTERLY FROM PARCEL 2 SHOWING THE NORTH PORTION OF PARCEL 1. OLD SMUDGE POT STORAGE AREA IS VISIBLE IN THE CENTER OF PHOTOGRAPH BETWEEN THE GROVES AND 1-15 FREEWAY.



VIEW FACING WEST AT NORTH END OF PARCEL 1 SHOWING THE APPROXIMATELY 400 OLD SMUDGE POTS STORED ON THE SITE. THE SMUDGE POTS WERE DRY AND NO STAINED SOIL WAS VISIBLE. THE I-15 FREEWAY AND CAJALCO ROAD OVERCROSSING IS VISIBLE TO THE RIGHT.



VIEW FACING EAST SHOWING THE OLD SMUDGE POTS WITH PARCEL 2 SHOWN IN THE BACKGROUND (ELEVATED). TWO SAMPLES OF THE SOIL UNDER THE SMUDGE POTS WERE TAKEN FOR HYDROCARBON TESTING.



VIEW FACING NORTH AT CHANNEL BETWEEN PARCELS 2 AND 3 SHOWING A SMALL AMOUNT OF GREEN WASTE, CONCRETE COVERED STEEL PIPE AND OLD PACKING BOX. PARCEL 2 IS TO THE RIGHT.



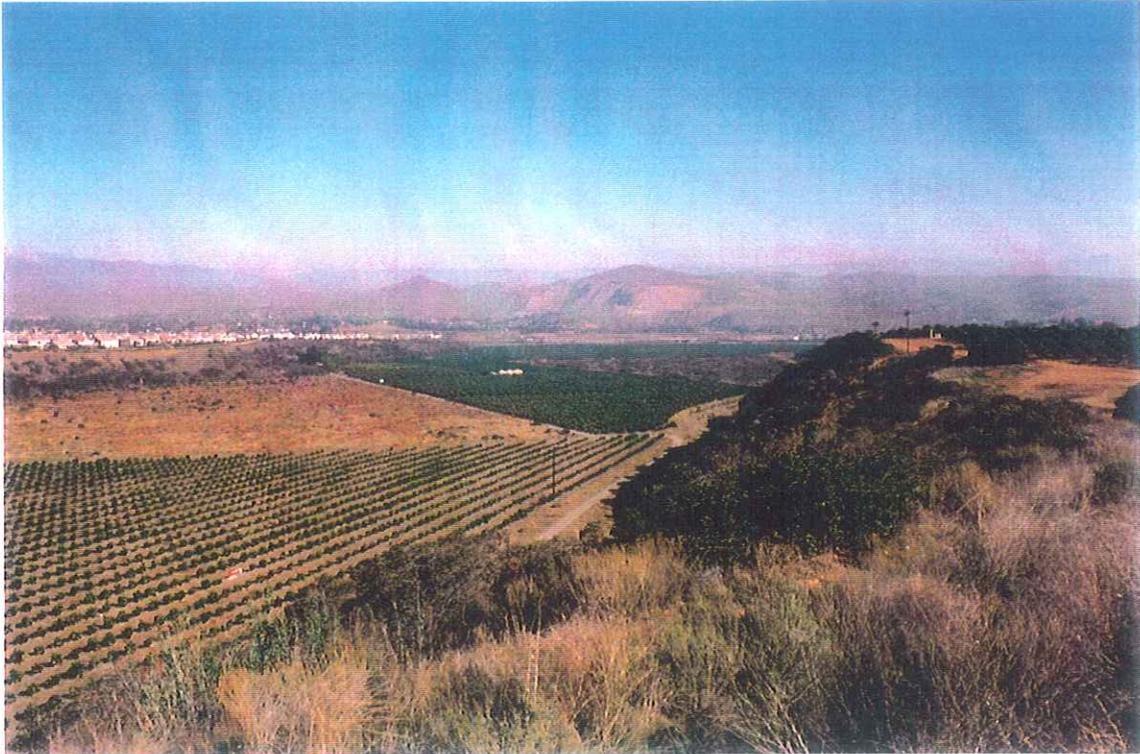
VIEW FACING SOUTH FROM PARCEL 2 SHOWING THE RIDGE EAST OF PARCEL 3 WHICH HAS ALWAYS BEEN VACANT LAND. COVERED STRUCTURE TO THE LEFT IN THE CANYON BOTTOM OWNED BY ADJACENT HOMEOWNER.



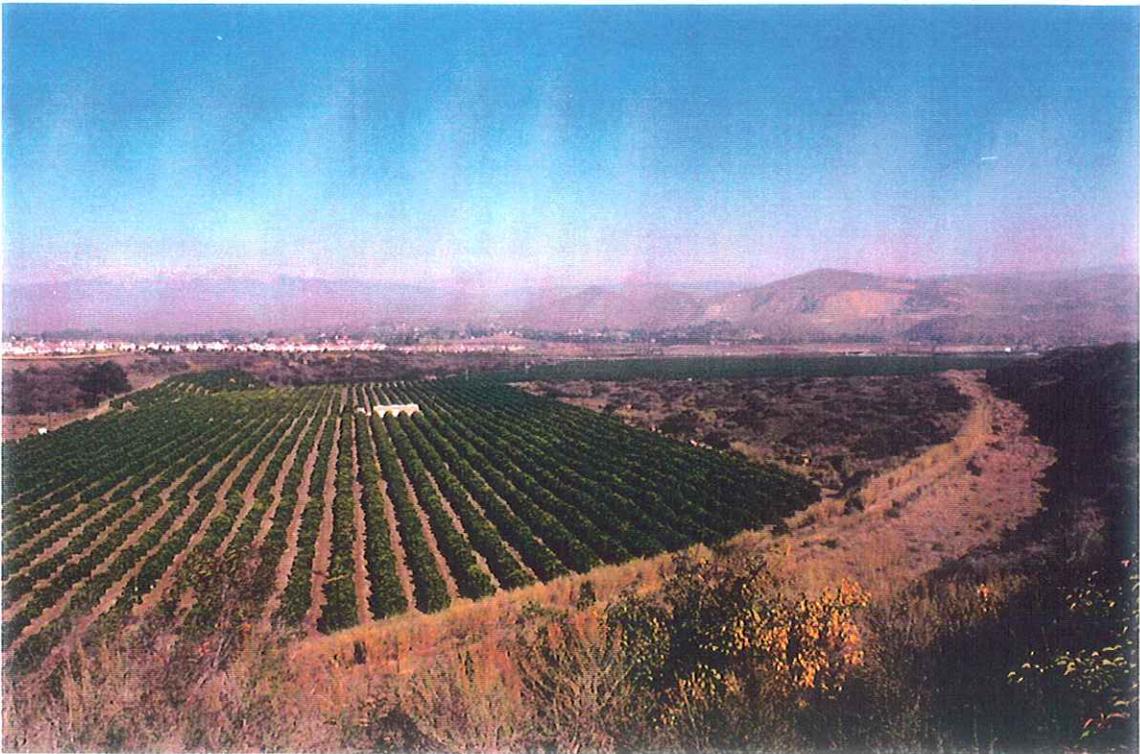
**VIEW FACING NORTH ON THE EAST SIDE OF PARCEL 2 SHOWING THE SITE TO THE LEFT AND SCATTERED RESIDENTIAL/RANCH PROPERTIES TO THE RIGHT (EAST). THE OLD RESERVOIR LOCATED IS LOCATED LEFT OF THE PHOTOGRAPHER.**



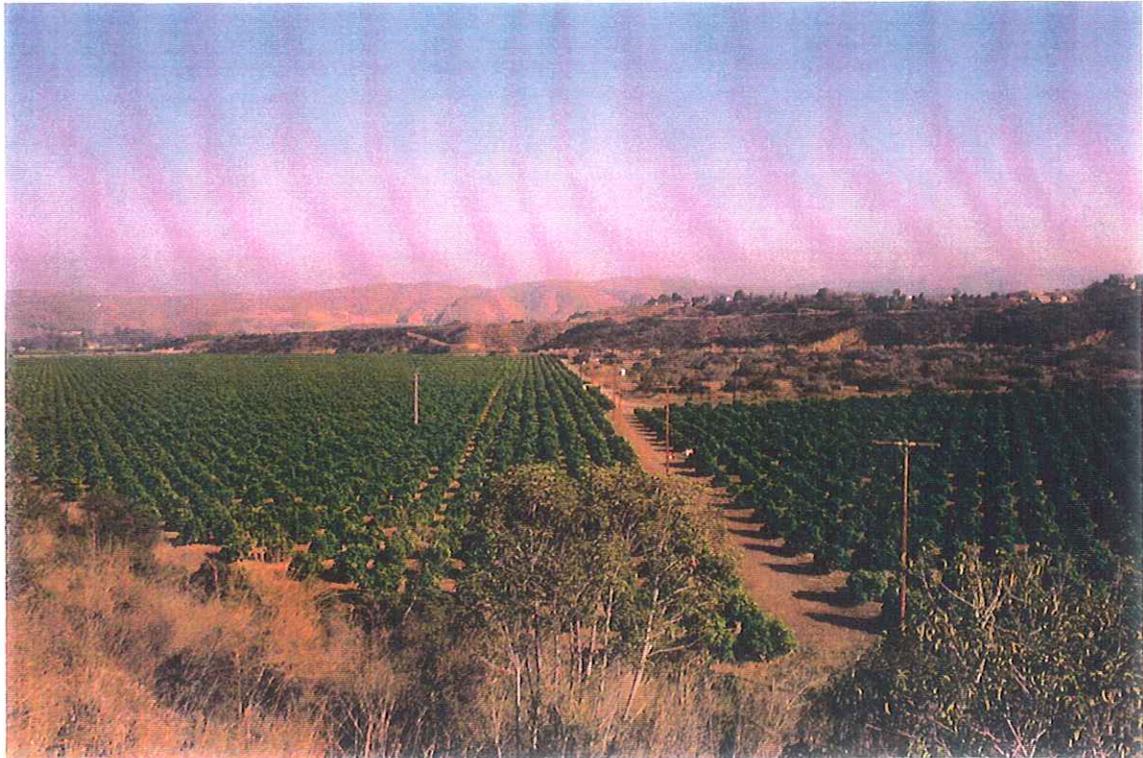
**VIEW OF ONE OF SEVERAL DRAINAGE PIPES THAT ENTER THE EAST SIDE OF PARCEL 2. THEY DRAIN THE SMALL VALLEYS EAST OF THE SITE BETWEEN THE SCATTERED RESIDENTIAL/RANCH PROPERTIES.**



VIEW FACING NORTH FROM PARCEL 5 SHOWING PARCEL 4 TO THE LEFT AND PARCEL 3 TO THE RIGHT. THE WHITE OBJECT IN THE CENTER OF THE PHOTOGRAPH IS THE MOBILE HOME AND STORAGE FACILITY ON PARCEL 3.



SIMILAR VIEW AS PREVIOUS PICTURE BUT SHOW MOSTLY PARCEL 3, STORAGE FACILITY, AND MOBILE HOME ARE SHOWN IN THE CENTER OF PICTURE. VISIBLE ON THE LEFT IS A 10,000 GALLON PLASTIC FERTILIZER TANK. ON THE RIGHT SIDE OF THE GROVE, ADJACENT THE VACANT LAND, IS STORAGE OF OLD EQUIPMENT AND MATERIAL.



**VIEW FACING EAST OF THE NORTH PORTION OF PARCEL 3 AND SOUTH PART OF PARCEL 1. PROPANE POWERED WIND MACHINE IS TO THE LEFT. A WATER FILTER IS VISIBLE ON THE RIGHT SIDE OF THE DIRT ROAD. IN THE BACKGROUND IS A WELL SITE TO THE LEFT AND PORTABLE BATHROOMS ON THE RIGHT (WITHIN THE VACANT PART OF PARCEL 3).**



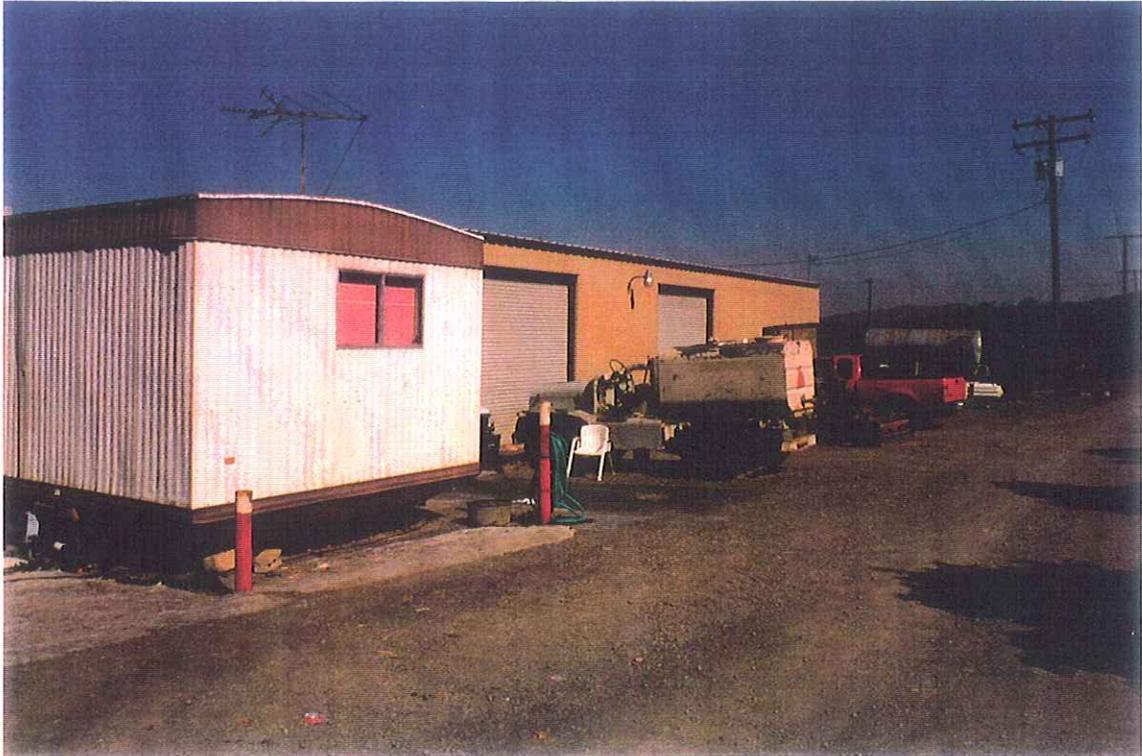
**CLOSE UP OF ONE OF SIX WIND MACHINES ON PARCEL 3 AND PARCEL1 WHICH ARE ALL PROPANE POWERED.**



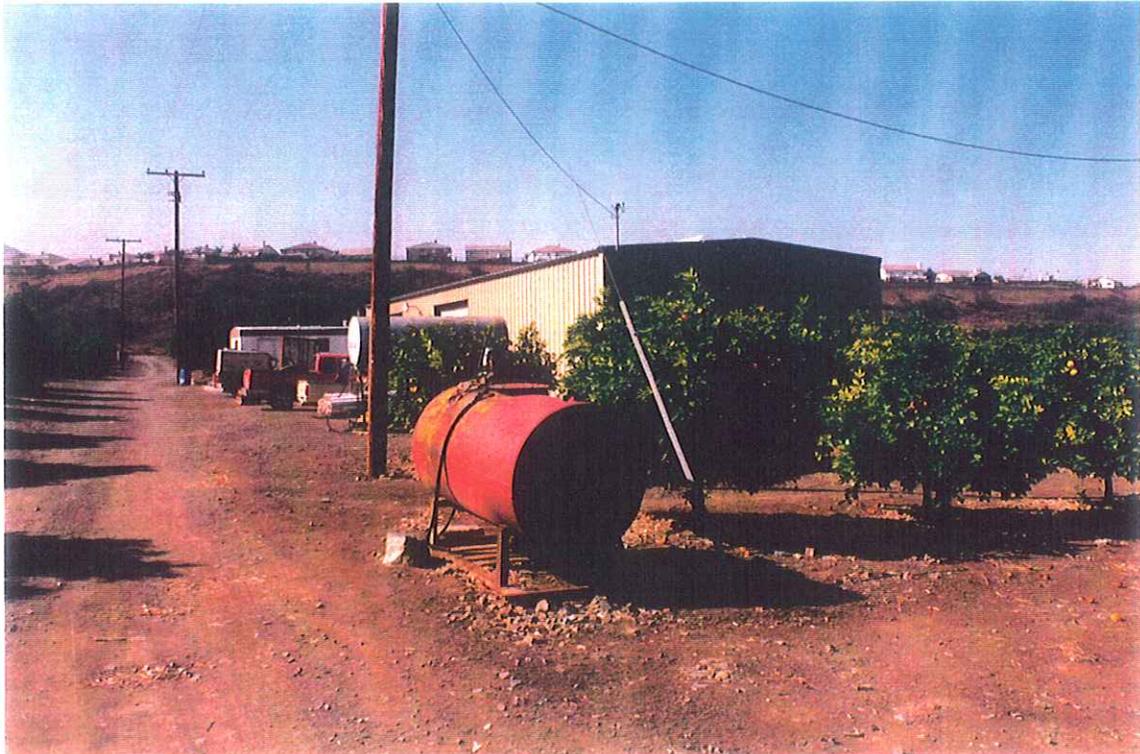
CLOSE UP OF WELL WITH ELSINOR VALLEY PIPELINE WARNING POST (BLUE) IN FOREGROUND. THE RED TANKS ARE FILTER TANKS FOR THE IRRIGATION WATER. ONE OF SEVERAL POWER POLES WITH TRANSFORMERS ON THE SITE ARE ALSO SHOWN.



CLOSE UP OF A FALLEN WIND MACHINE (BACKGROUND) WITH LARGE CONCRETE FOUNDATION TO THE LEFT. A WATER TRAILER WAS ALSO PRESENT IN THIS NORTHEAST AREA OF PARCEL 3.



VIEW OF MOBILE HOME AND STORAGE BUILDING LOCATED NEAR THE CENTER OF PARCEL 3. VISIBLE IS A 1,000 GALLON ABOVE GROUND GAS TANK.



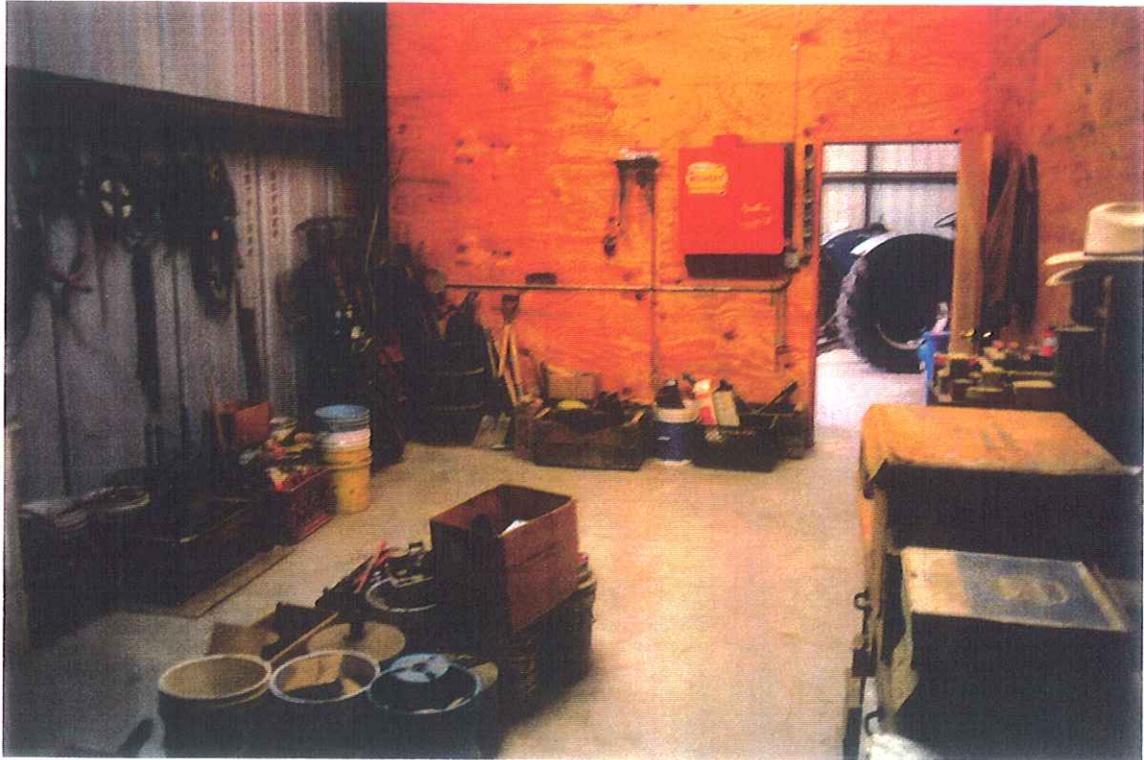
VIEW OF 500 GALLON DIESEL ABOVE GROUND FUEL TANK, 1,000 GALLON GASOLINE TANK AND OLD TRUCKS AT THE STORAGE BUILDING AND MOBILE HOME.



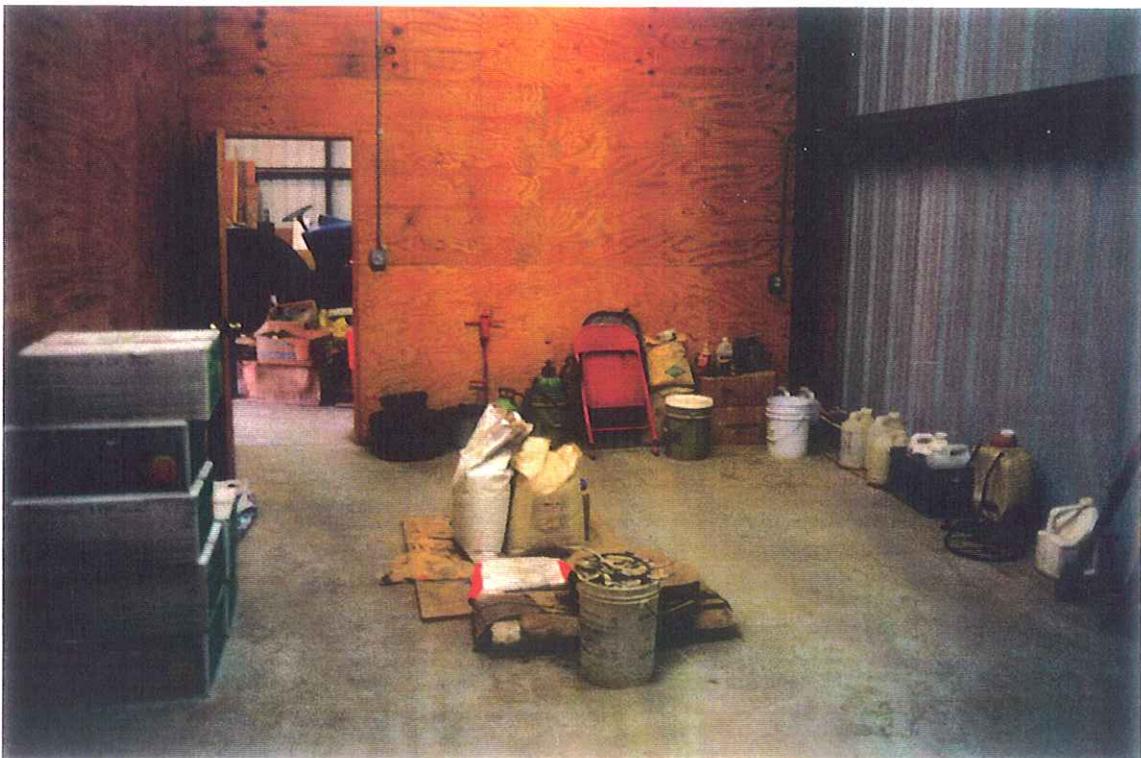
VIEW OF THE BACK OF THE STORAGE BUILDING WHICH HAD THREE 5 GALLON GAS CANS FILLED WITH USED OIL NEXT TO THE RED TRUCK TOP. METAL ROOFING AND AVIARY FOLLOWED BY THE MOBILE HOME ARE SHOWN.



VIEW FACING EAST INSIDE OF STORAGE BUILDING SHOWING TOOLS, TRACTOR AND 3, 55 GALLON DRUMS OF NEW OIL, USED OIL, AND ONE EMPTY DRUM.



VIEW OF LOCKED TOOL AREA IN THE SOUTHEAST CORNER OF STORAGE BUILDING.



VIEW OF THE LOCKED PESTICIDE STORAGE AREA IN THE NORTHEAST CORNER OF THE STORAGE BUILDING.



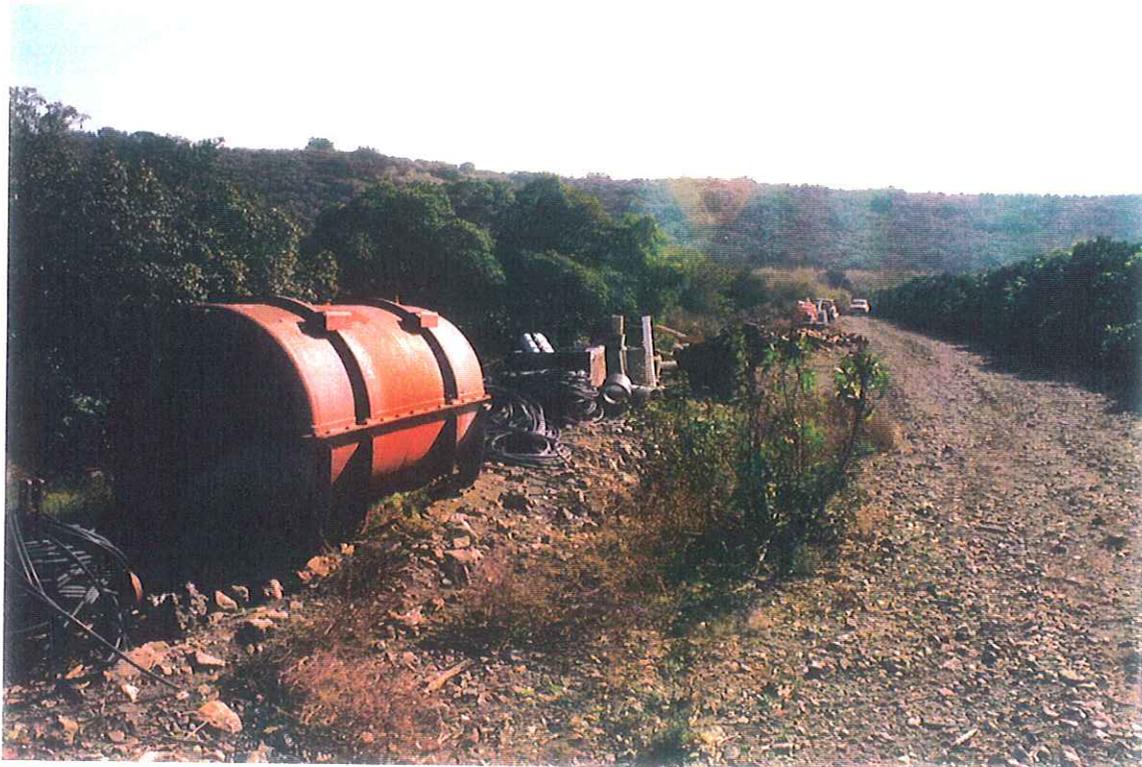
**VIEW OF APPROXIMATELY 10,000 GALLON OLD ABOVE GROUND DIESEL/SMUDGE POT OIL STORAGE TANK ON RIGHT. WHAT APPEARED TO BE AN OLD WELL IS VISIBLE OF THE LEFT OF THE TANK, FOLLOWED BY A GREEN WATER TRAILER. THESE ARE LOCATED ON THE WEST SIDE OF PARCEL 3 DOWN FROM EAGLE GLEN ROAD.**



**CLOSE UP OF THE OLD ABOVE GROUND DIESEL/SMUDGE POT OIL STORAGE TANK. SOIL SAMPLES TO BE TESTED FOR HYDROCARBONS WERE TAKEN BELOW THE RAISED FILL PIPE AND WHERE THE FILL PIPE ENTERS THE TANK.**



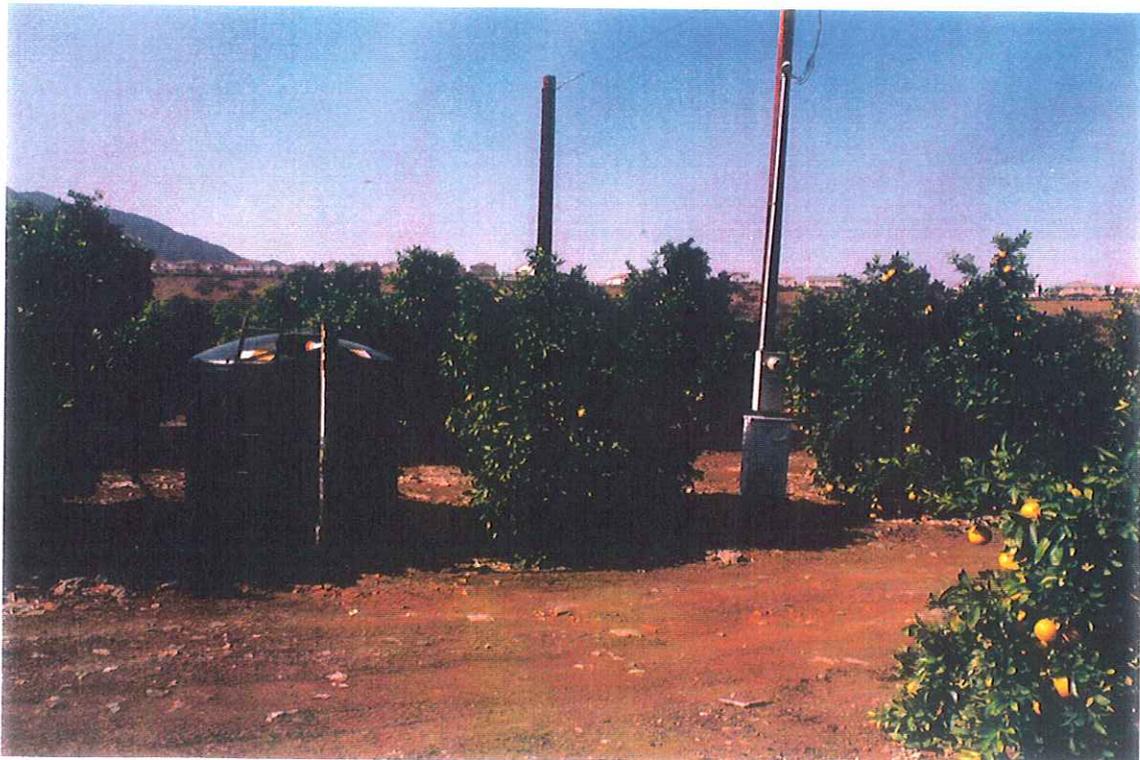
VIEW FACING SOUTH OF OLD EQUIPMENT AND MATERIALS STORED ON THE SOUTHEAST PORTION OF PARCEL 3. WE NOTED PLASTIC AND STEEL PIPE, OLD FARM EQUIPMENT, AND A TRUCK, WOOD, ROOFING, BARBED WIRE, WATER TANK, FILTER TANKS, AND PACKING BOXES.



VIEW, ABOUT HALFWAY DOWN, OF THE STORED EQUIPMENT AND MATERIALS ON THE SOUTHEAST PORTION OF PARCEL 3.



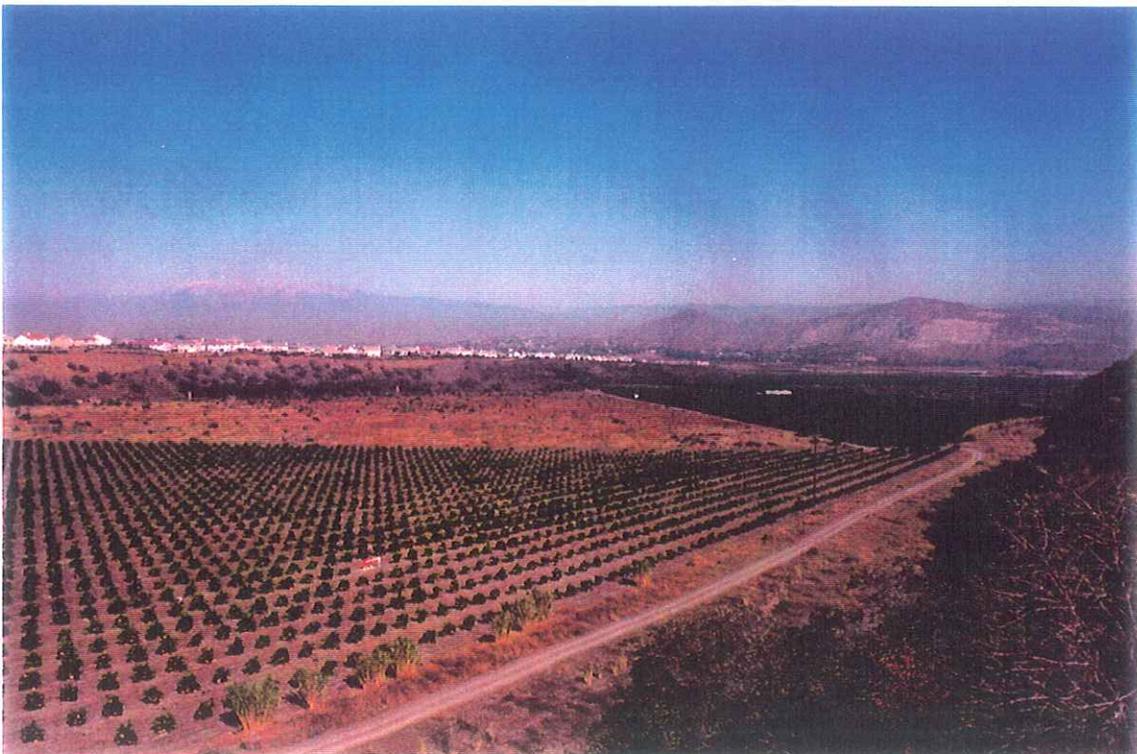
VIEW FACING NORTH OF THE OLD STORED EQUIPMENT AND MATERIALS ON THE SOUTHEAST PORTION OF PARCEL 3.



VIEW OF THE DOMESTIC WATER TANK (PLASTIC) ADJACENT A WELL SITE ON THE SOUTH PORTION OF PARCEL 3. THE WELL IS LOCATED TO THE RIGHT OF THE POWER POLE OUT OF THE PICTURE.



VIEW FACING NORTHWESTERLY FROM PARCEL 5 SHOWING THE SOUTH HALF OF PARCEL 4 WITH THE GOLF COURSE TO THE LEFT (SOUTHWEST) OF THIS PORTION OF THE SITE. THE TWO LARGE BUILDINGS ARE THE GOLF COURSE MAINTENANCE BUILDINGS. RESIDENCES ARE VISIBLE IN THE BACKGROUND.



VIEW FACING NORTHERLY SHOWING PARCEL 4 WITH THE YOUNG CITRUS TREES ON THE SOUTH AND A VACANT TRIANGULAR NORTH PORTION. PARCEL 3 WITH THE MOBILE HOME/STORAGE BUILDING AND 10,000 GALLON FERTILIZER TANK ADJACENT THE DIRT ROAD ARE VISIBLE IN THE BACKGROUND.



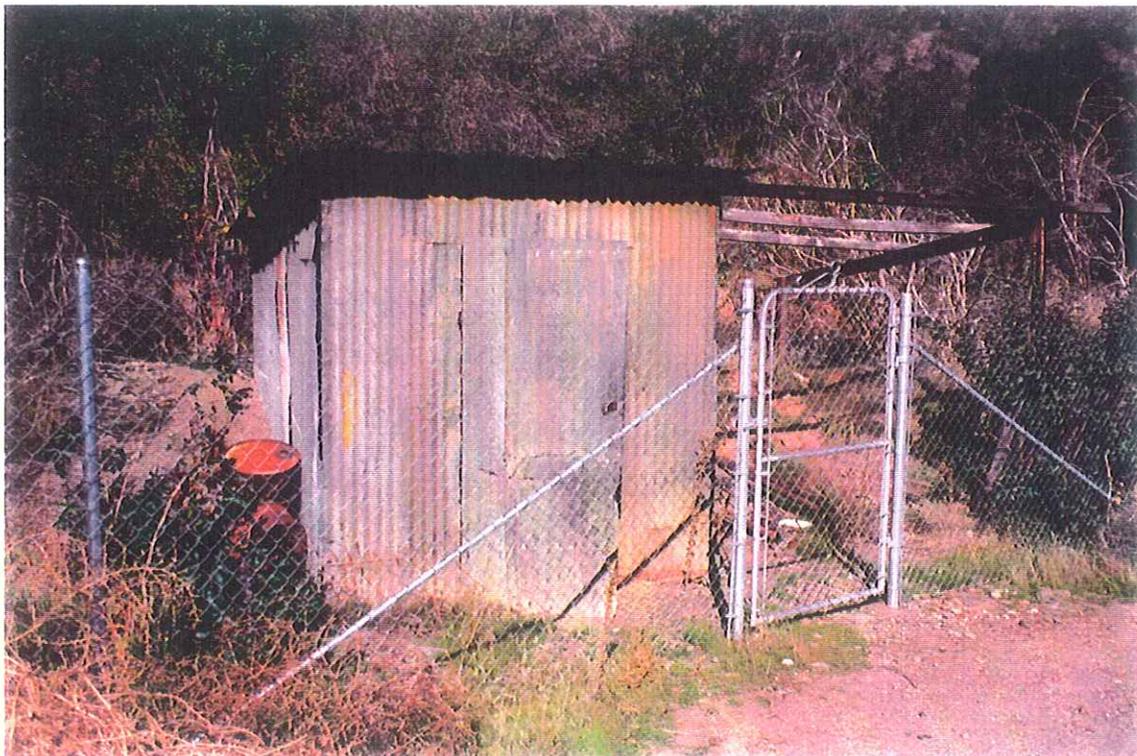
GROUND VIEW OF THE SOUTH PART OF PARCEL 4 WITH BEDFORD CANYON WASH TO THE RIGHT AND GOLF COURSE MAINTENANCE BUILDING TO THE LEFT.



CLOSE UP OF THE VACANT PART OF PARCEL 4. NOT SEEN BUT LOCATED IN THE BACKGROUND OF THE PICTURE ADJACENT THE PALM TREE IS AN OLD SHED.



LOCATED ON THE WEST SIDE OF PARCEL 4 IN THE UNDEVELOPED AREA ARE SEVERAL PVC PIPES WHICH ARE PAINTED BLUE. THESE INDICATE SOME DEVELOPMENT OF THE AREA.



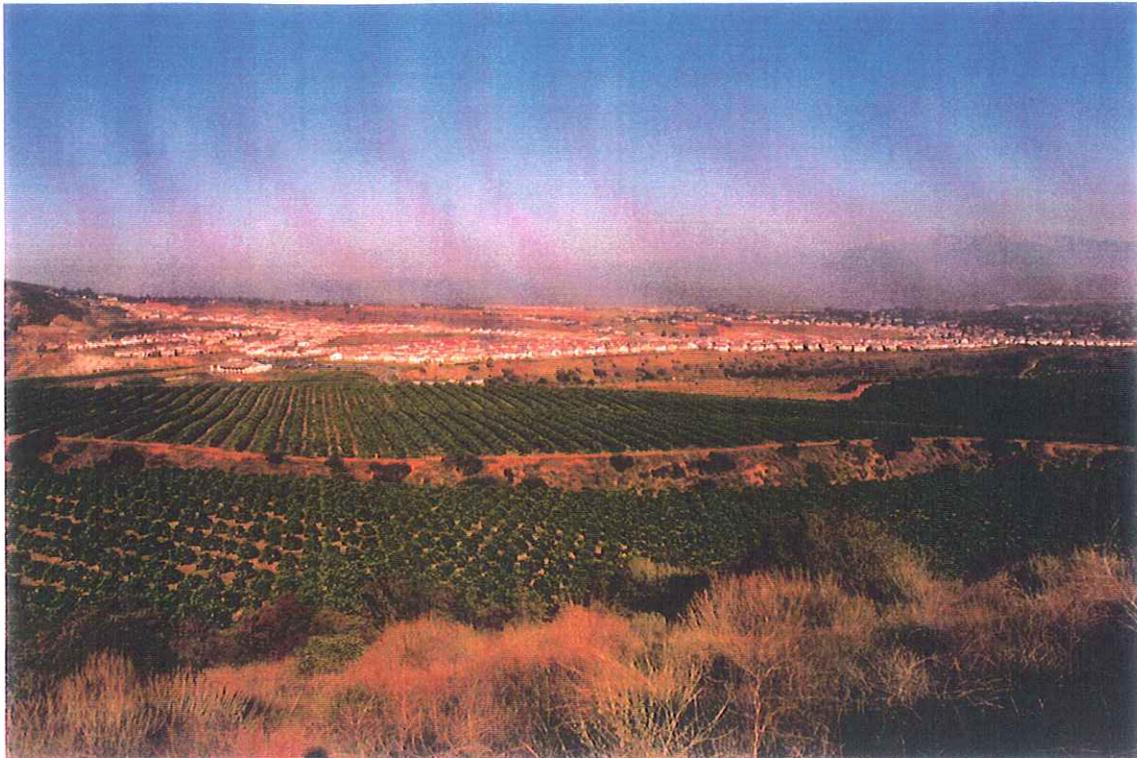
VIEW OF THE OLD SHED LOCATED ON THE NORTHWEST SIDE OF PARCEL 4. METAL PIPE IS LOCATED TO THE NORTH OF THE SHED. A 30 GALLON DRUM APPROXIMATELY TWO-THIRD FULL OF DIESEL FUEL IS LOCATED TO THE SOUTH.



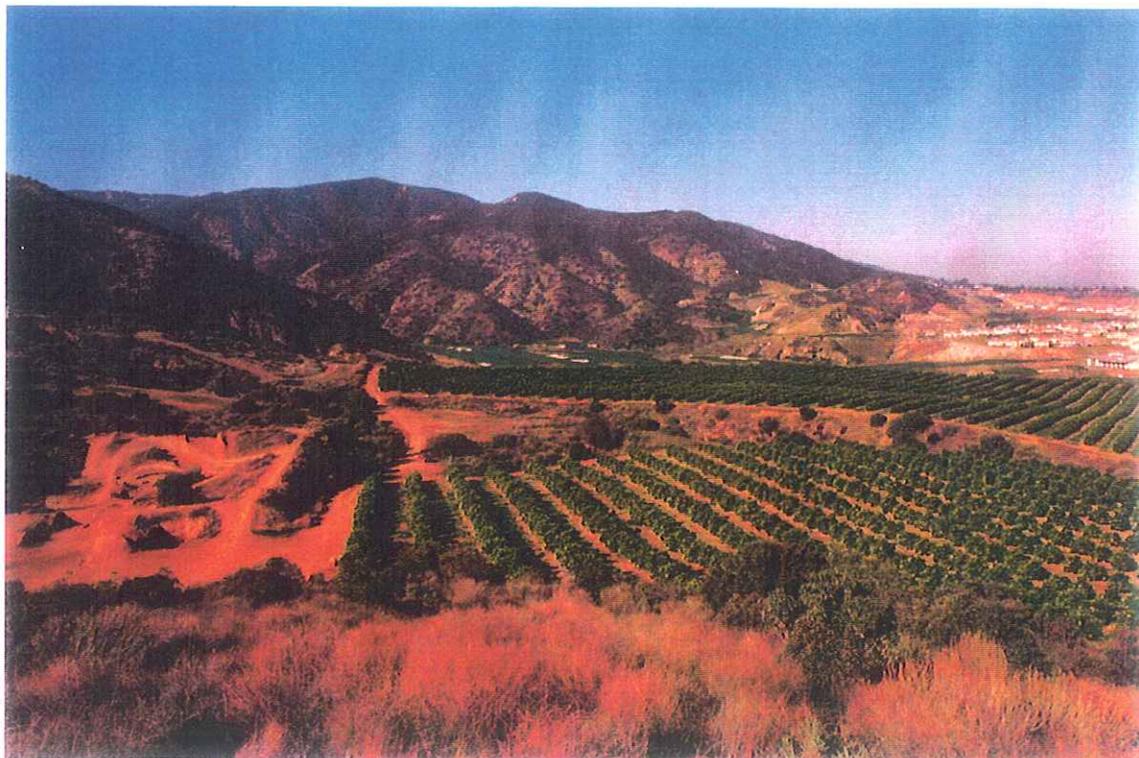
VIEW OF INSIDE OF THE OLD SHED WHICH HAD A WOODEN FLOOR. THREE BAGS OF COPPER SULFATE, PIPE FITTINGS, SILICA SAND, SEVERAL 1 AND 5 GALLON CANS (UNMARKED), WERE ALSO PRESENT. A SAMPLE WAS OBTAINED BENEATH THE WOOD FLOOR AND OF A WHITE POWDER IN THE SHED.



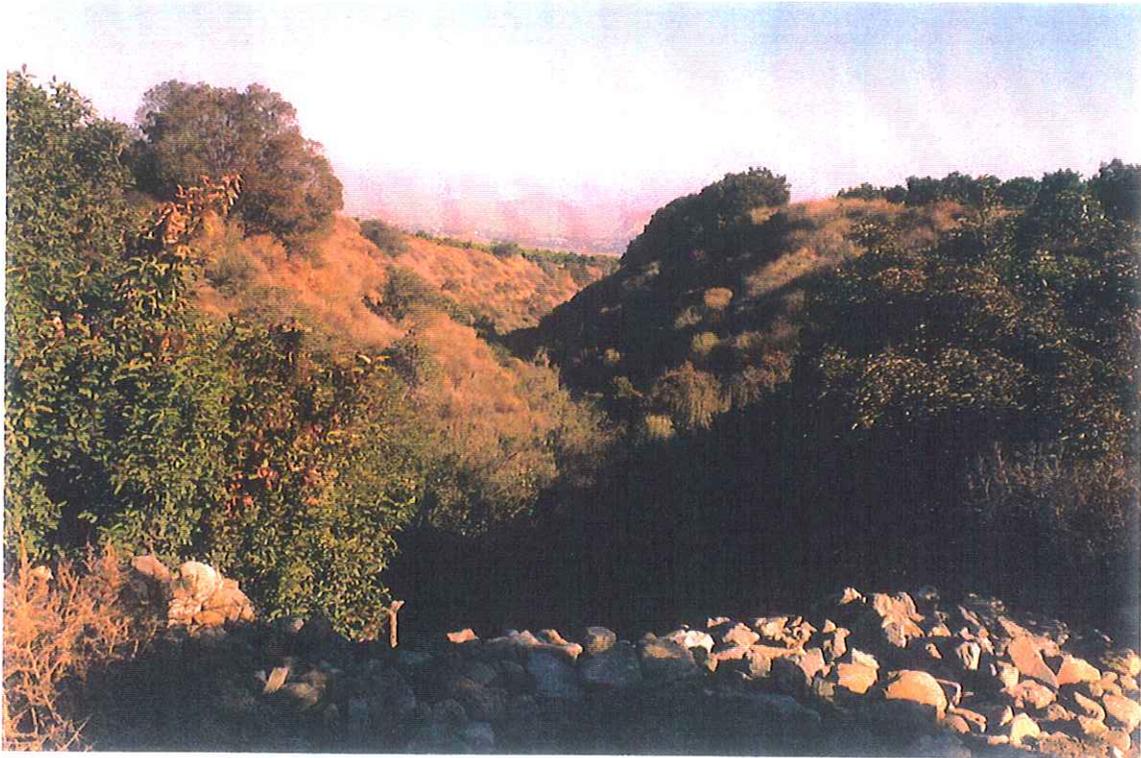
VIEW FACING NORTHERLY SHOWING PARCEL 6 IN FOREGROUND AND PARCEL 5 IN BACKGROUND. VACANT LAND IS SHOWN EAST OF PARCEL 6 FROM WHERE THE PICTURE WAS TAKEN.



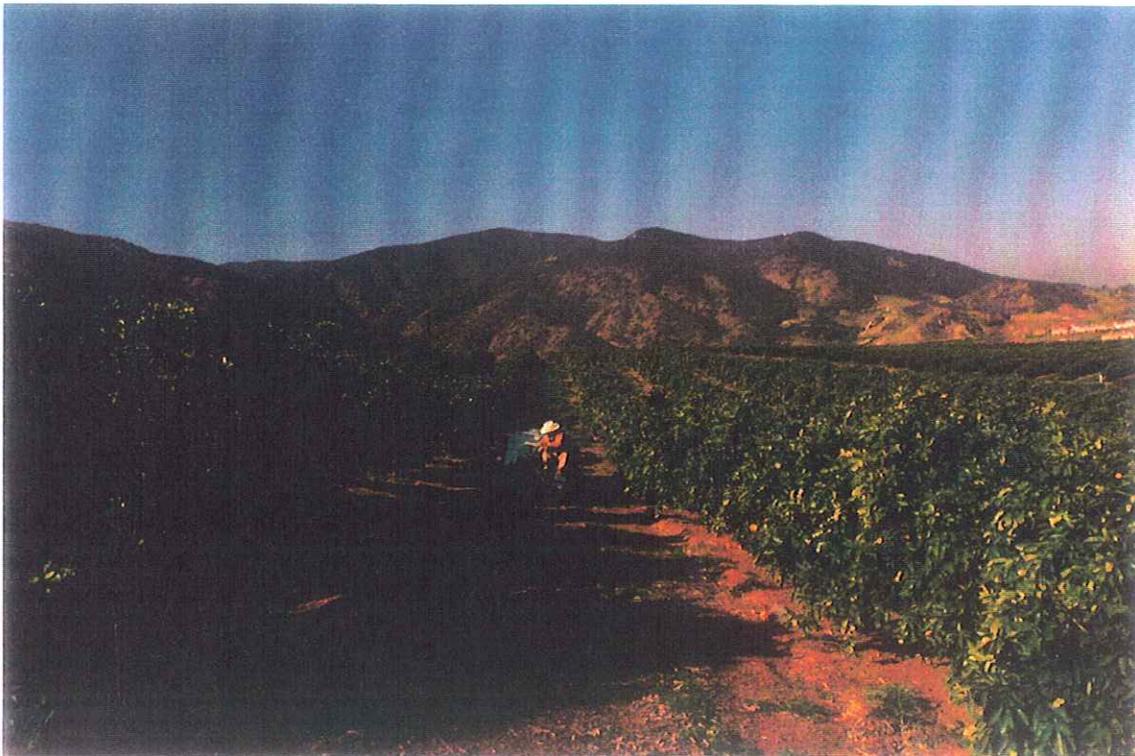
**VIEW FACING WESTERLY SHOWING PARCEL 6 IN FOREGROUND AND PARCEL 5 IN BACKGROUND WITH A STEEP DRAINAGE SEPARATING THE PARCELS.**



**VIEW FACING WEST SHOWING THE SOUTH SIDE OF PARCEL 6 IN FOREGROUND WHICH HAD DIRT BIKE TRAILS CONSTRUCTED ON IT AND THE ADJACENT PROPERTY. PARCEL 5 IS IN THE BACKGROUND FOLLOWED BY THE GOLF COURSE.**



VIEW FACING NORTH AT THE DRAINAGE BETWEEN PARCEL 5 AND PARCEL 6. THE ROCK IN FOREGROUND IS FOR EROSION CONTROL OF THE FILL PLACED TO CROSS THE DRAINAGE.



VIEW OF MAINTENANCE MAN SPRAYING THE WEED KILLER KROVAR UNDER THE TREES ON PARCEL 5.



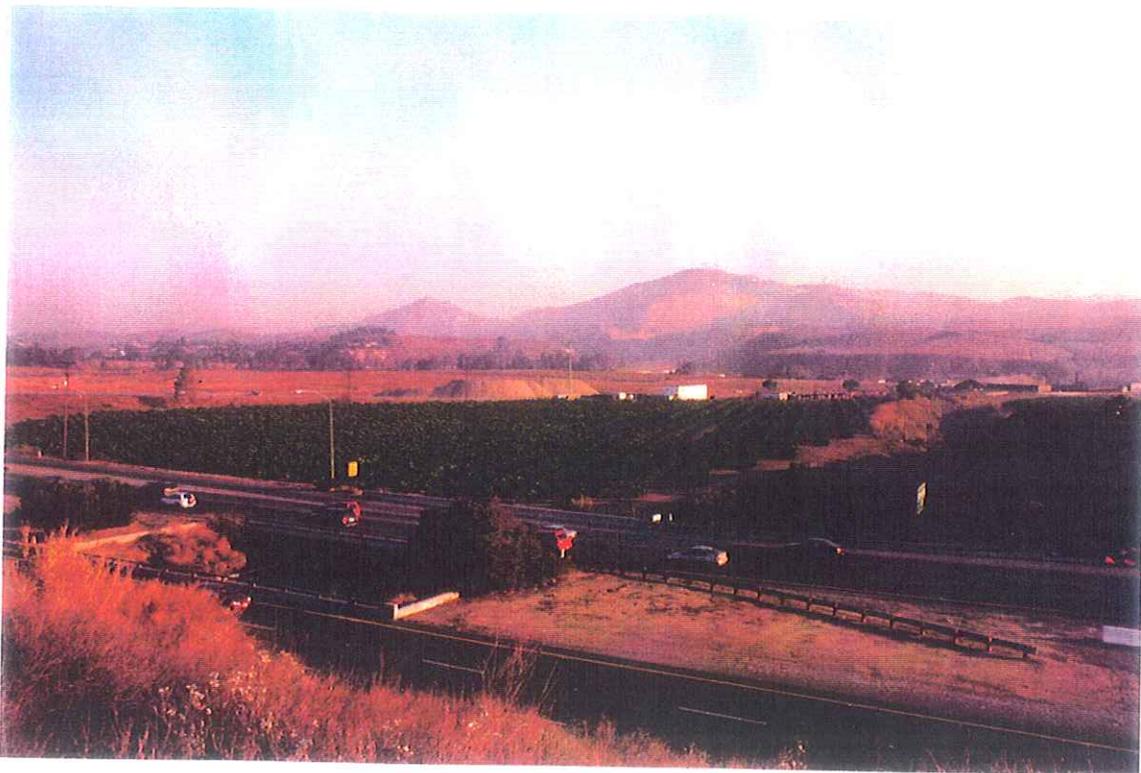
VIEW OF BROKEN CONCRETE AND BLOCK USED FOR EROSION CONTROL AT ONE OF THE DRAINAGES ON THE NORTHEAST SIDE OF PARCEL 5. NO TRASH WAS NOTED.



VIEW OF IRRIGATION FILTERS ON THE WEST SIDE OF PARCEL 5.



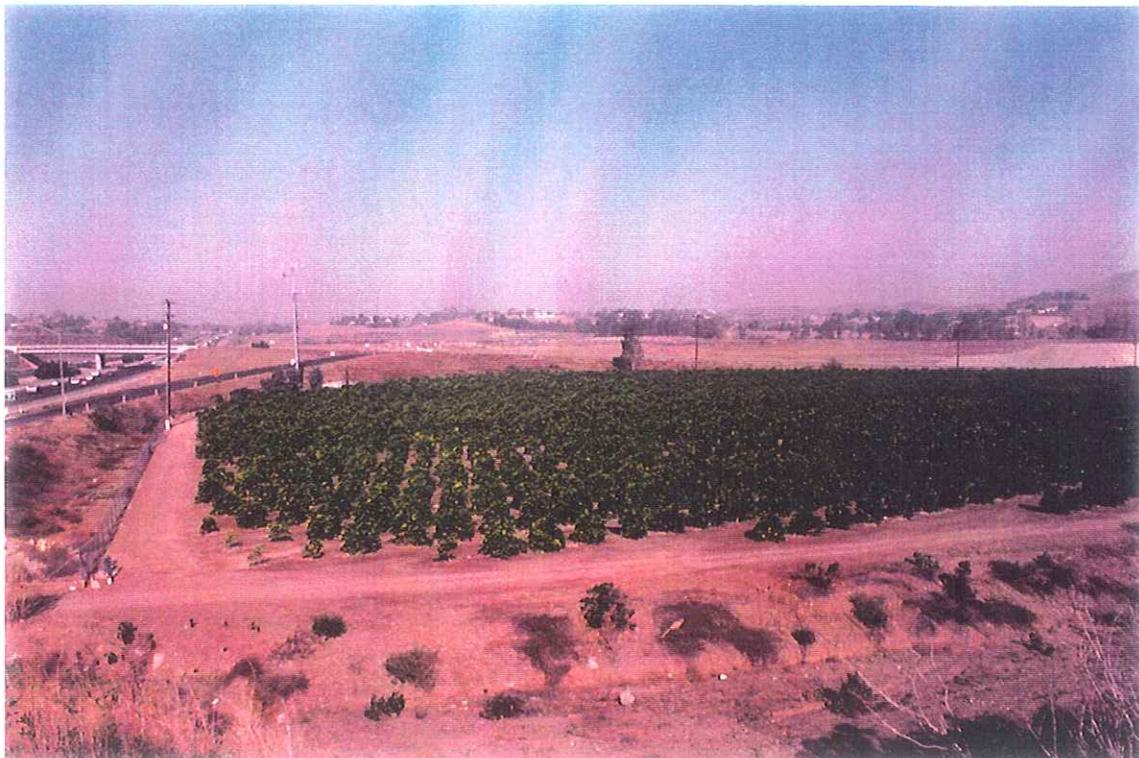
VIEW OF PUMP ON THE WEST SIDE OF PARCEL 5 WITH GROVES IN THE BACKGROUND.



VIEW FACING NORTHEASTERLY FROM PARCEL 2 SHOWING PARCEL 7 TO THE LEFT WITH LISTON ALUMINUM IN THE BACKGROUND. BEDFORD CANYON WASH SEPARATES PARCEL 7 AND 8. THE I-15 FREEWAY IS ALSO SHOWN.



SIMILAR VIEW AS PREVIOUS PHOTO, THIS TIME TAKEN FROM PARCEL 8.



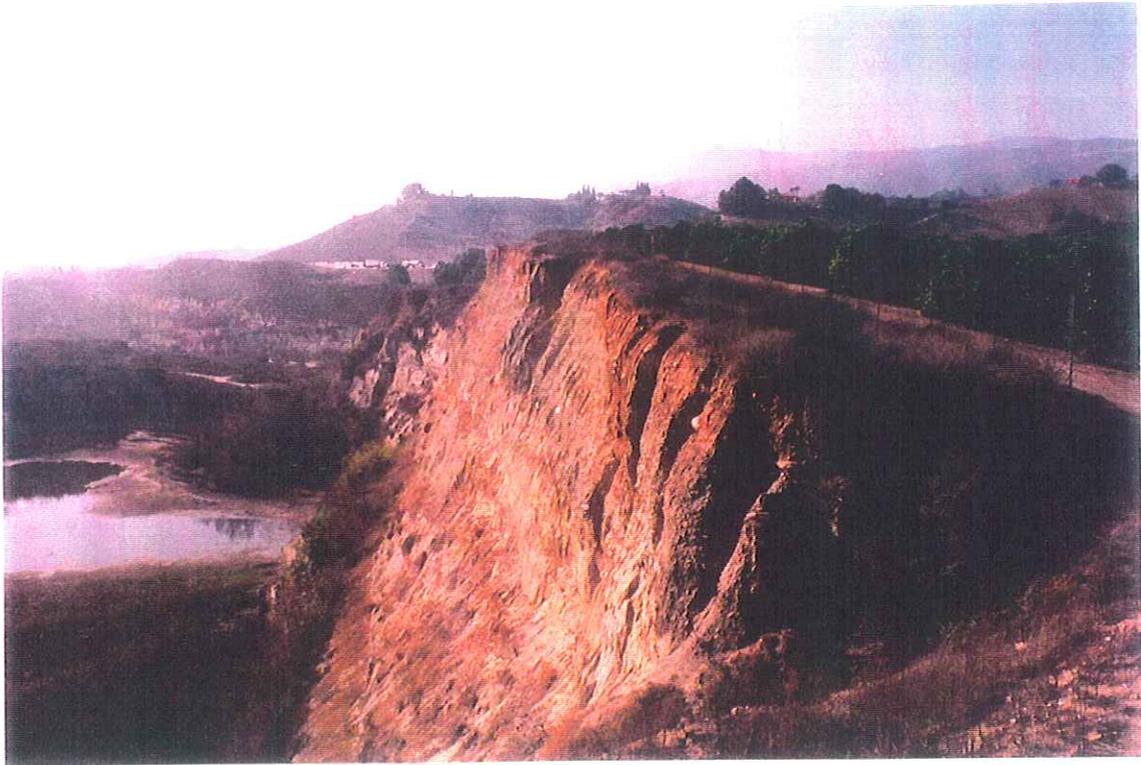
VIEW FACING WESTERLY FROM PARCEL 8 SHOWING THE SOUTH PORTION OF PARCEL 7 WITH THE I-15 FREEWAY AND CAJALCO ROAD OFFRAMP TO THE LEFT. A TELEPHONE CELL TOWER AND EQUIPMENT IS VISIBLE IN THE BACKGROUND.



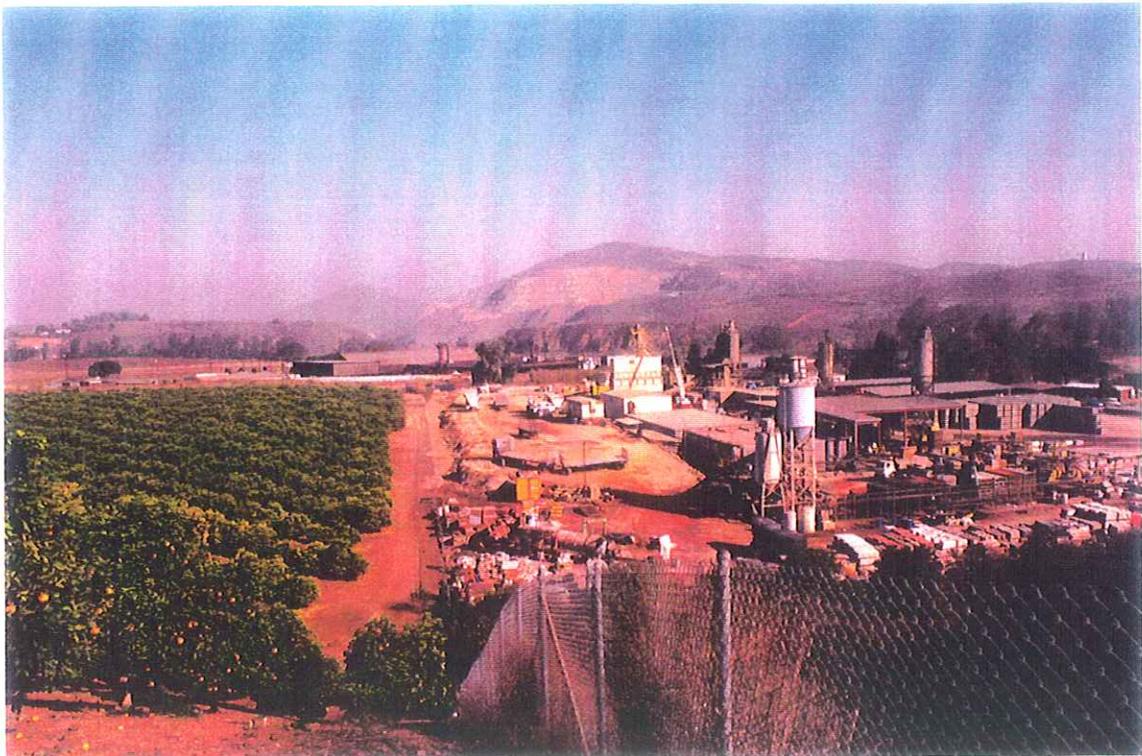
CLOSE UP OF THE CELL TOWER AND EQUIPMENT LOCATED ON THE NORTHWEST PORTION OF PARCEL 7 ADJACENT THE CAJALCO ROAD OFFRAMP.



VIEW FACING NORTHWESTERLY FROM ADJACENT PROPERTY TO THE EAST SHOWING PARCEL 8.



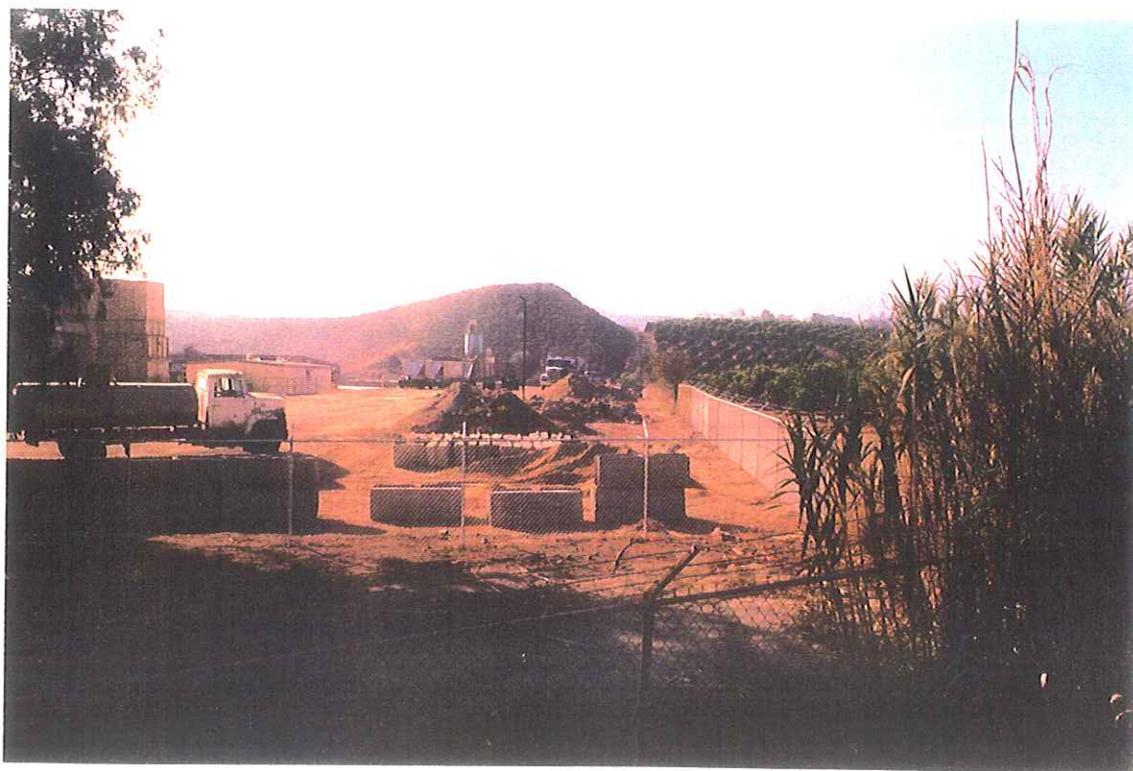
FROM SAME LOCATION AS THE PREVIOUS PHOTO SHOWING THE QUARRY LOCATED SOUTHEAST OF PARCEL 8.



VIEW FACING NORTH SHOWING PARCEL 8 TO THE LEFT AND QUICKCRETE, A CONCRETE BLOCK, BAGGED CONCRETE MANUFACTURER ADJACENT TO THE RIGHT.



CLOSE UP OF SOME OF THE MATERIALS STORED NEXT TO PARCEL 8 ON THE QUICKCRETE PROPERTY. THE 55 GALLON DRUMS APPEAR TO HAVE WASTE OIL. THEY HAVE NOT LEAKED AND ARE SET UP ON A PALLET.



VIEW FACING SOUTH SHOWING PARCEL 8 TO THE RIGHT AND QUICKCRETE TO THE LEFT.

**APPENDIX B**

**ENVIRONMENTAL CHAIN OF TITLE**



**Banks  
Information  
Solutions, Inc.**

## **Environmental Chain of Title**

**March 1, 2002**

### **CLIENT**

**LOR Geotechnical  
Attention: Kevin Osmun  
6121 Quail Valley Court  
Riverside, CA 92507  
Phone:  
Fax:**

### **SITE**

**Property in  
Corona, CA (Riverside County)  
Client #: N/A**

---

**Project #: 111677B**

## HISTORICAL OWNERSHIP REPORT

### PROPERTY DESCRIPTION

**LEGAL DESCRIPTION:** See copy of attached document for complete legal description.

**SUBJECT PARCEL NUMBER:** 282-030-003

### TABLE SUMMARY

<b>DATE</b>	<b>DOCUMENT TYPE</b>	<b>GRANTOR (Seller/Lessor)</b>	<b>GRANTEE (Buyer/Lessee)</b>	<b>PARCEL or LOT #</b>	<b>DOCUMENT NUMBER</b>
05-24-2001	Grant Deed	Sunnywoods Corporation	Gary L. McMillan and Patricia A. McMillan, h/w	Subject Parcel	Document #: 2001-230206
05-24-2001	Grant Deed	Tatsuzo Susaki	Sunnywoods Corporation	Subject Parcel	Document #: 2001-230205
07-07-71	Grant Deed	D. W. Hendrickson, et al.	Tatsuzo Susaki	Subject Parcel	Document #: 71-85309
09-26-49	Grant Deed	Corinta Ranch Company	D. W. Hendrickson, et al.	Subject Parcel	Document #: 49-57841
Prior to 1940	N/A	-Acquired title to property prior to 1940-	Corinta Ranch Company	N/A	N/A

**Recording Requested By**  
**First American Title Company**

RECORDING REQUESTED BY

First American Title Ins. Co.

AND WHEN RECORDED MAIL TO:

Gary L. McMillan  
 Patricia A. McMillan  
 29379 Rancho California Rd. #201  
 Temecula, CA 92591-5210

A.P.No.: 282-030-003 TRA #: 054-097 Order No: 36

DOC # 2001-230200

08/24/2001 08:10A Fee:12.00

Page 1 of 3 Doc T Tax Paid

Recorded in Official Records

County of Riverside

Gary L. Oran

Assessor, County Clerk & Recorder



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A	R	L						142

**GRANT DEED**

(12)  
 T  
 YS

THE UNDERSIGNED GRANTOR(S) DECLARE(S) THAT DOCUMENTARY TRANSFER TAX IS COUNTY \$605.00

- computed on full value of property conveyed, or
- computed on full value less value of liens or encumbrances remaining at time of sale,
- unincorporated area: [ ] City of \_\_\_\_\_ and

FOR A VALUABLE CONSIDERATION, Receipt of which is hereby acknowledged.

Sunnywoods Corporation of California, a California corporation

hereby GRANT(S) to

Gary L. McMillan and Patricia A. McMillan, husband and wife as Community Property

the following described property in the unincorporated area, County of Riverside, State of California:

Legal Description as set forth in Exhibit "A" attached hereto and made a part hereof.

Sunnywoods Corporation of California,  
 a California corporation

By: Takco Hashii  
 Takco Hashii

Document Date: April 12, 2001

STATE OF CALIFORNIA )  
 COUNTY OF \_\_\_\_\_ )  
 On May 7, 2001 before me, Charung Panjanon, Notary Public.

personally appeared Takco Hashii  
 personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.  
 Signature Charung Panjanon



THIS area for official notarial seal.

Mail Tax Statements to: SAME AS ABOVE

3005531-4

**DESCRIPTION**

That certain property situated in the State of California, County of Riverside, City of , described as follows:

**Parcel 1:**

That portion of the northwest quarter of Section 20, Township 4 south, Range 6 west, San Bernardino Base and Meridian, as shown by United States of Government Survey, described as follows:

Beginning at the southeast corner of said northwest quarter;  
Thence south 89 degrees 17' 15" west, along the south line of said northwest quarter, 1490.86 feet;  
Thence north 23 degrees 00' 40" east 132.22 feet;  
Thence north 26 degrees 13' 15" east 308.62 feet;  
Thence north 28 degrees 06' 45" east 271.13 feet;  
Thence north 40 degrees 41' 15" east 302.15 feet;  
Thence north 36 degrees 33' 15" east 321.19 feet;  
Thence north 48 degrees 24' 15" east 363.02 feet;  
Thence north 56 degrees 44' 15" east 360.49 feet;  
Thence north 45 degrees 48' 45" east 204.82 feet;  
Thence north 89 degrees 54' 45" east 45.55 feet, more or less, to a point on the east line of said northwest quarter, distant thereon north 0 degrees 03' 15" west 1733.74 feet from the southeast corner thereof;  
Thence south 0 degrees 03' 15" east, along said east line, 1733.74 feet, to the point of beginning;

Excepting therefrom a one-half interest in and to any oil, gas, or other minerals, as reserved in deed from Robert A. Mc Millan et al to D. W. Hendrickson et al, recorded December 21, 1956;

Said property is also shown as Parcel 1 on Record of Survey entitled "Record of Survey of a portion of Section 20, Township 4 south, Range 6 west, San Bernardino Base and Meridian" on file in book 25 page 13 of Records of Survey, Records of Riverside County, California.

**Parcel 2:**

A permanent easement and right of way for ingress and egress to and from said Parcel 1 across the following described real property:

In the County of Riverside, State of California; the northwest quarter of the west one half of the southwest quarter of Section 20 and the southeast quarter of Section 19, Township 4 south, Range 6 west, San Bernardino Base and Meridian; and that portion of the southerly one half of Government Lot 7 which lies southeast of a line drawn from the northeast corner of said southerly one half of Government Lot 7 to the southwest corner thereof; and all of Government Lots 8, 10, 14, and 15, in Section 17, Township 4 south, Range 6 west, San Bernardino Base and Meridian.



2001-236206  
05/24/FRM1 0A 001  
2 of 3

Parcel 3:

A permanent easement and right of way for the purpose of installing, using, maintaining, repairing and replacing an irrigation pipeline to said Parcel 1;

Together with necessary ingress and egress to install, maintain, repair and replace all necessary pumps and equipment to operate the same, across the following described real property:

In the County of Riverside, State of California; the northwest quarter of the west one half of the southwest quarter of Section 20 and the southeast quarter of Section 19, Township 4 south, Range 6 west, San Bernardino Base and Meridian; and that portion of the southerly one half of Government Lot 7 which lies southeast of a line drawn from the northeast corner of said southerly one half of Government Lot 7 to the southwest corner thereof; and all of Government Lots 8, 10, 14, and 15, in Section 17, Township 4 south, Range 6 west, San Bernardino Base and Meridian;

Together with all those certain rights, uses, covenants, and conditions, as set out in that certain Agreement and Addendum thereto, recorded December 21, 1956 as instrument nos. 86105 and 86102, respectively, of Official Records of Riverside County, California.



2091-236296  
03/24/2001 09:00:01  
3 of 3

## HISTORICAL OWNERSHIP REPORT

### PROPERTY DESCRIPTION

**LEGAL DESCRIPTION:** N/A

**SUBJECT PARCEL NUMBER:** 282-030-005, 282-030-004, 279-240-009, 279-240-001

### TABLE SUMMARY

DATE	DOCUMENT TYPE	GRANTOR (Seller/Lessor)	GRANTEE (Buyer/Lessee)	PARCEL or LOT #	DOCUMENT NUMBER
06-30-88	Affidavit of Probate	Richard McMillan and Christie McMillan, h/w	Christie McMillan, a 50% interest	Subject Parcel	Document #: 88-182221
11-13-86	Grant Deed	Ellsworth Jones, Inc.	Richard McMillan and Christie McMillan, h/w a 50% interest and Gary McMillan and Patricia McMillan, h/w a 50% interest	Subject Parcel	Document #: 86-288509
12-23-68	Grant Deed	Middleton-Fish Ranch Company	Ellsworth Jones, Inc.	Subject Parcel	Document #: 68-124742
07-17-57	Grant Deed	Corinta Ranch Company	Middleton-Fish Ranch Company	Subject Parcel	Document #: 57-6448
Prior to 1940	N/A	-Acquired title to property prior to 1940-	Corinta Ranch Company	N/A	N/A

## HISTORICAL OWNERSHIP REPORT

### **TITLE RESEARCH NOTES**

- Notes: No deed copies have been obtained for inclusion with this report.
- ASTM Notes: ASTM E 1527-97, Section 7.3 on Historical Use Information requires a review of "*Reasonably Ascertainable standard historical sources.*"
- "Reasonably Ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable."
- This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.
- Banks Information Solutions, Inc. has determined that the ASTM E 1527-97, Section 7.3 requirements has been met for the subject property searched in this report. Land title records required to obtain additional information regarding the subject property were not "reasonably ascertainable" at the time of this report.
- Environmental Liens: No environmental liens have been located affecting the property in question.
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### SOURCES AND LIMITATIONS

This report has been produced from a limited search of the public land records and/or real property deed records of the county and state as defined in the legal description below for a 50 year period up through the indicated date as shown on this report. This limited search includes only the recorded deeds and most easements and surface leases affecting the ownership history of the subject property. No Environmental liens were found to exist after an exclusive search for such amongst the county records. This report is being provided for use only as a limited part of an overall Phase I Environmental Site Assessment as performed by a qualified Environmental Engineer/Consultant as specified in the ASTM Standard E 1527-97 and as specified in the Comprehensive Environmental Response, Compensation and Liabilities Act of 1980, as amended, and may not be relied upon for any other purpose.

This report is not to be considered an Abstract, a Title Commitment, Title Opinion, Title Guaranty, or a representation of the legal status of the property. The information presented is simply a report of instruments filed of record pertaining to the above property and was obtained from the county public records. No guaranty as to the integrity or correctness of said records is implied. In the process of compiling the information presented in this report, the public records were accessed primarily by the name(s) shown in the vesting instrument only and although reasonable care was taken to provide accuracy, this report and provider does not claim responsibility for instruments filed under any variation of name(s) and/or legal description.

## HISTORICAL OWNERSHIP REPORT

### GLOSSARY

There are certain terms used in Chain of Title searches, which may require clarification. This glossary is designed to provide definitions for some of the most common terms.

<b>1. ENVIRONMENTAL LIEN:</b>	The Environmental Lien is a record of a document/instrument filed by the City, County, State or Federal Government that prevents the conveyance of a property because of severe environmental problems existing on the premises.
<b>2. BREAK IN CHAIN:</b>	<p>There may appear to be a break in the chain of title as indicated when the sequential tracing of ownership fails. An example of a break would be: <i>Smith to Jones. . . Jones to Wilson. . . White to Black</i>. The missing link is from Wilson to White. There are several possible reasons for this occurrence.</p> <ul style="list-style-type: none"><li>• Due to the size or other physical characteristics of the property, there could be multiple owners at any time when tracing the history of the ownership of the property.</li><li>• There could be an "easement title" over some portion of the property, allowing for use of that portion for a specific purpose.</li><li>• There could be a "multi-percentage interest" in the property, with concurrent multiple owners making up 100% of the fee title. Then, a percentage owner deeds out his particular interest or a percentage of this interest to one or more parties. This causes a perceived break in the chain.</li></ul>
<b>3. EASEMENT:</b>	An easement is the right to enter and use another person's property: a non-possessor right to use another person's real property. Traditionally easements are granted to utility companies and other service organizations or as a right of access to another property.
<b>4. MULTIPLE OWNERS:</b>	<p>When "others" or "et al" appears on the report in the owner category, it indicates multiple ownership of a single parcel, with too many names to record in summary. It is frequently used to denote more than a single owner. If the owners are a married couple, both names may appear on the report or may be denoted by "et ux".</p> <p>The term "owners" is usually used to indicate owners of multiple parcels, all recorded under a document that covers the multiple parcels.</p>
<b>5. MULTIPLE PARCELS:</b>	Some properties are created by combining several adjoining parcels into one large parcel. When this occurs; there might be several different owners until the time of unification of the property. Sometimes the ownership appears to be cloudy until each owner conveys his/her interest to the single owner of the new larger parcel.

**If you encounter any difficulties or have questions,  
call Banks at 1-800-531-5255  
We are happy to assist you.**

**APPENDIX C**

**KEY SITE MANAGER QUESTIONNAIRE**

January 31, 2002

Client: McMillan Farm Management  
Address: 29379 Rancho California Rd, Suite 201  
City State Zip: Temecula, CA 92591

Project No. 31444.8

Attention: Gary McMillan

**ENVIRONMENTAL SITE ASSESSMENT**  
**Key Site Manager Questionnaire**  
ASTM Standard E 1528-00

TO THE BEST OF YOUR KNOWLEDGE DO ANY OF THE FOLLOWING DOCUMENTS OR SITUATIONS EXIST, OR HAVE YOU BEEN MADE AWARE OF THEM IN THE PAST?

Question				IF YES, BRIEFLY EXPLAIN USE SEPARATE SHEET IF NECESSARY
	Yes	No	Unk	
		✓		
1a. Is the property used for an industrial use?		✓		
1b. Is any adjoining property used for an industrial use?				
2a. Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?		✓		
2b. Did you observe evidence or do you have any prior knowledge that any adjoining property has been used for an industrial use in the past?		✓		
3a. Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment plant, storage, disposal, processing, or recycling facility? (if applicable, identify which)		✓		
3b. Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment plant, storage, disposal, processing, or recycling facility? (if applicable, identify which)		✓		

Question				IF YES, BRIEFLY EXPLAIN USE SEPARATE SHEET IF NECESSARY
	Yes	No	Unk	
4a. Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment plant, storage, disposal, processing, or recycling facility? (if applicable, identify which)		✓		
4b. Did you observe evidence or do you have any prior knowledge that any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment plant, storage, disposal, processing, or recycling facility? (if applicable, identify which)		✓		
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of > 5 gal (19 L) in volume, or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?	✓			Few pesticide and herbicide chemicals & barrel of motor oil in barn
5b. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of > 5 gal (19 L) in volume, or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?	✓			From time to time pesticides have temporarily been stored in barn
6a. Are there currently any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		✓		
6b. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?		✓		
7a. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?		✓		
7b. Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?		✓		
8a. Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		✓		
8b. Did you observe evidence or do you have any prior knowledge that there have been previously any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		✓		
9a. Is there currently any stained soil on the property?		✓		
9b. Did you observe evidence or do you have any prior knowledge that there has been previously any stained soil on the property?		✓		
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the property?		✓		Above ground, diesel & Gasoline tanks located at barn aboveground propane tanks for wind-machines.

Question				IF YES, BRIEFLY EXPLAIN USE SEPARATE SHEET IF NECESSARY
	Yes	No	Unk	
10b. Did you observed evidence or do you have any prior knowledge that there have been previously any registered or unregistered storage tanks (above or underground) located on the property?		✓		
11a. Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?		✓		
11b. Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?		✓		
12a. Is there currently evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		✓		
12b. Did you observe evidence or do you have any prior knowledge that there have been previously any leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		✓		
13a. If the property is served b a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		✓		
13b. If the property is served by a private well or non-public water system is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental health agency?		✓		
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?		✓		
15a. Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		✓		
15b. Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?	✓			See #5A
15c. Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?				
15d. Has the owner of occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		✓		

Question				IF YES, BRIEFLY EXPLAIN USE SEPARATE SHEET IF NECESSARY
	Yes	No	Unk	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, contamination of, the property or recommended further assessment of the property?		✓		
17. Does the owner or occupant of the property know of any past, threatened or pending lawsuits or administrative proceedings concerning a release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?		✓		
18a. Does the property discharge waste water (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system?		✓		
18b. Does the property discharge waste water (not including sanitary waste or storm water) onto or adjacent to the property and/or into a sanitary sewer system?		✓		
19. Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		✓		
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?		✓		

The OWNER/OCCUPANT portion of the questionnaire was completed by:

Name:	Gary McMillan
Title:	Co-owner
Firm:	McMillan Farm Management
Address:	29379 Rancho California Rd., Suite 210 Temecula, CA92591
Phone:	909/676-2045
Date:	February 6, 2001
Preparer's relationship to the site:	Co-owner
Preparer's relationship to the client:	Same

Clients relationship to the site (for example, principal, owner, prospective buyer, lender, etc.):

Copies of the completed questionnaire have been filed at:

LOR Geotechnical Group, Inc. 6121 Quail Valley Court, Riverside, California 92507

Copies of the completed questionnaire have been mailed or delivered to:

OWNER/OCCUPANT represents that to the best of their knowledge the above statements and facts are true and correct and to the best of their actual knowledge no material facts have been suppressed or misstated.

Signature: Gary L. McMillan Date: 2-6-02

**APPENDIX D**

**TRACK REGULATORY DATABASE**

*TRACK ► INFO SERVICES, LLC*  
**Environmental FirstSearch™ Report**

TARGET PROPERTY:

**4161 EAGLE GLEN PKWY**

**CORONA CA 91720**

Job Number: 31558.2

**PREPARED FOR:**

LOR Geotechnical Group, Inc.

6121 Quail Valley Court

Riverside, CA 92507

02-13-02



*Tel: (619) 562-4842*

*Fax: (619) 562-4844*

*Environmental FirstSearch*  
*Search Summary Report*

**Target Site:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

**FirstSearch Summary**

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2 >	ZIP	TOTALS
NPL	Y	01-09-02	1.00	0	0	0	0	0	0	0
CERCLIS	Y	01-09-02	0.50	0	0	0	0	-	0	0
RCRA TSD	Y	01-14-02	0.50	0	0	0	0	-	0	0
RCRA COR	Y	01-14-02	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	01-14-02	0.25	0	0	0	-	-	1	1
RCRA NLR	Y	01-14-02	0.25	0	0	0	-	-	0	0
ERNS	Y	12-31-00	0.12	0	1	-	-	-	4	5
FINDS	Y	07-08-01	0.25	0	0	1	-	-	2	3
State Sites	Y	10-25-00	1.00	0	1	0	0	0	0	1
Spills-1990	Y	01-15-02	0.25	0	1	0	-	-	1	2
SWL	Y	11-13-01	0.50	0	0	0	0	-	1	1
REG UST/AST	Y	01-03-02	0.25	0	0	1	-	-	2	3
Leaking UST	Y	08-31-01	0.50	0	0	0	0	-	1	1
State Wells	Y	NA	0.50	0	0	0	0	-	0	0
Federal Wells	Y	NA	0.50	0	0	0	0	-	0	0
- TOTALS -				0	3	2	0	0	12	17

**Notice of Disclaimer**

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services' databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

**Waiver of Liability**

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services' services proceeding are signifying an understanding of TRACK Info Services' searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

*Environmental FirstSearch  
Site Information Report*

Request Date: 02-13-02  
Requestor Name: m. kevin osmun  
Standard: ASTM

Search Type: AREA  
Job Number: 31558.2  
FILTERED REPORT

**Target Address:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

*Demographics*

Sites: 17	Non-Geocoded: 12	Population: NA
Radon: NA		

*Site Location*

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-117.52298	-117:31:23	Easting: 451597.309
Latitude:	33.813521	33:48:49	Northing: 3741408.954
			Zone: 11

*Comment*

Comment: MCMILLAN FARM
------------------------

*Additional Requests/Services*

Adjacent ZIP Codes: 1.00 Mile(s)	Services:
----------------------------------	-----------

ZIP Code	City Name	ST	Dist/Dir	Sel	Requested?	Date
91719	CORONA	CA	0.00 --	Y	Sanborns	N
					Aerial Photographs	N
					Topo Maps (hardcopy)	N
					City Directories	N
					Title Search	N
					Municipal Reports	N
					Online Topo Map	N

*Environmental FirstSearch  
Sites Summary Report*

**TARGET SITE:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

**JOB:** 31558.2  
MCMILLAN FARM

**TOTAL:** 17                    **GEOCODED:** 5                    **NON GEOCODED:** 12                    **SELECTED:** 4

<b>ID</b>	<b>DB Type</b>	<b>Site Name/ID/Status</b>	<b>Address</b>	<b>Dist/Dir</b>	<b>Map ID</b>
3	STATE	LISTON ALUMINUM COMPANY SITE CAL33330023/CERTIFIED	9107 CAJALCO ROAD CORONA CA 91719	0.04 NE	3
12	SPILLS	LISTON ALUMINUM BRICK COMPANY SLC8_72	20401 TEMESCAL CANYON RD CORONA CA	0.05 NE	1
1	ERNS	UNKNOWN 357207/HIGHWAY RELATED	COJALCO RD AT TEMESCAL CYN EL CERRITOS CA 91719	0.12 NE	4
15	UST	MWD/TEMESCAL POWER PLANT RIVERSIDECO81404	CAJALCO RD NEAR TEMESCAL CYN R CORONA CA 91719	0.13 NE	5
2	FINDS	CALMAT CO CAD983615576	17900 CAJALCO RD CORONA CA 91719	0.23 NE	2

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

**JOB:** 31558.2  
MCMILLAN FARM

**TOTAL:** 17      **GEOCODED:** 5      **NON GEOCODED:** 12      **SELECTED:** 4

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
10	FINDS	EARTH PRODUCTS RECYCLING CA0001984707	BEDFORD CNYN RD/GEORGET CORONA CA 91720	NON GC	
17	LUST	HUNCO DEVELOPMENT 083301243T/CASE CLOSED	TEMESCAL CANYON RD CORONA CA 91720	NON GC	
13	SPILLS	MURDOCK HOLDING CO. (PACIFIC CLY) SLC8_71	20325 TEMESCAL CANYON RD CORONA CA	NON GC	
4	UST	OWL ROCK PRODUCTS PRADO/DUPLICATE RIVERSIDECO81437	11901 TEMESCAL CANYON RD CORONA CA 91719	NON GC	
14	SWL	RUBE TUCKER LANDFILL SWIS33-AA-0024/CLOSED	6TH STREET/RADIO RD AT I-15 FR CORONA CA	NON GC	
5	RCRAGN	STANDARD READY MIX CONCRETE CAD981662703/SGN	2300 TEMESCAL CANYON RD CORONA CA 91719	NON GC	
11	FINDS	STANDARD READY MIX CONCRETE INC CAD981662703	2300 TEMESCAL CANYON RD CORONA CA 91719	NON GC	
6	ERNS	UNKNOWN 291232/UNKNOWN (NRC)	WEIRECK WEST OF TEMESCAL CANYO EL CERRITO CA 91720	NON GC	
7	ERNS	UNKNOWN 178904/UNKNOWN (NRC)	INDIAN TRUCK TRAIL SOUTH I-15 GLEN IVY CA 91720	NON GC	
9	ERNS	UNKNOWN 185947/FIXED FACILITY	EL SOBRANTE & TEMESCAL CANYON EL CERRITO CA 91720	NON GC	
8	ERNS	UNKNOWN 319191/HIGHWAY RELATED	I-15 SB NORTH OF INDIAN TRUCK EL CERRITO CA 91720	NON GC	
16	UST	WESTERN WASTE INDUSTRIES TISID-STATE36783/ACTIVE	800 TEMESCAL CNYN CORONA CA 91719	NON GC	

# Environmental FirstSearch Normalized Summary Report

Site Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Dist/Dir \_\_\_\_\_  
 Map ID \_\_\_\_\_  
 TOTAL SITES \_\_\_\_\_  
 Databases \_\_\_\_\_

Site Name Address	Dist/Dir	Map ID	TOTAL SITES	NP	CE	RT	RC	RG	RN	ER	NS	FN	TR	ST	SP	80	LF	PM
LISTON ALUMINUM COMPANY S 9107 CAJALCO ROAD CORONA CA 91719	0.04 NE	3	1															
LISTON ALUMINUM BRICK COM 20401 TEMESCAL CANYON RD CORONA CA	0.05 NE	1	1															
UNKNOWN COJALCO RD AT TEMESCAL CYN EL CERRITOS CA 91719	0.12 NE	4	1															
MWD/TEMESCAL POWER PLANT CAJALCO RD NEAR TEMESCAL CY CORONA CA 91719	0.13 NE	5	1															
CALMAT CO 17900 CAJALCO RD CORONA CA 91719	0.23 NE	2	1															
TOTALS																		

NP - NPL Site    RG - RCRA GEN    FN - FINDS    US - UST    AC - ACEC    NU - Nuclear Permits    RE - Releases  
 CE - CERCLIS    RN - RCRA NLR    TR - TRIS    LS - LUST    WE - Wetlands    HS - Historic Sites  
 RT - RCRA TSD    ER - ERNS    ST - State Sites    PW - PWS    FP - Floodplains    FL - Federal Land Use  
 RC - RCRA COR    NS - NPDES    SP - 90's Spills    AQ - Aquifers    RP - Receptors    FW - Federal Wells

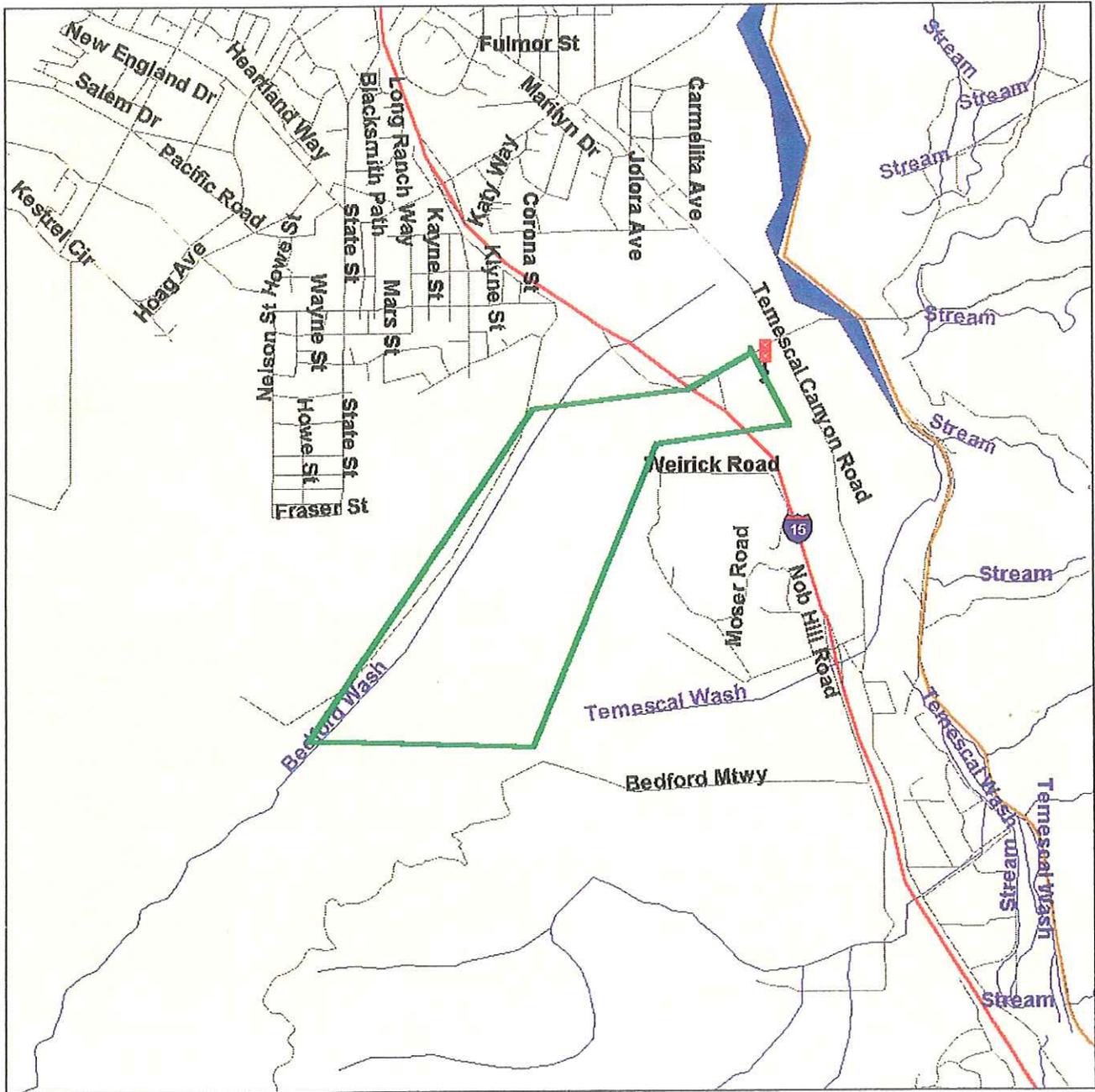


# Environmental FirstSearch

1 Mile Radius from Area  
ASTM Map: NPL, RCACOR, STATE Sites



**4161 EAGLE GLEN PKWY, CORONA CA 91720**



Source: 1999 U.S. Census TIGER Files

- Area Polygon .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....
- Railroads .....
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

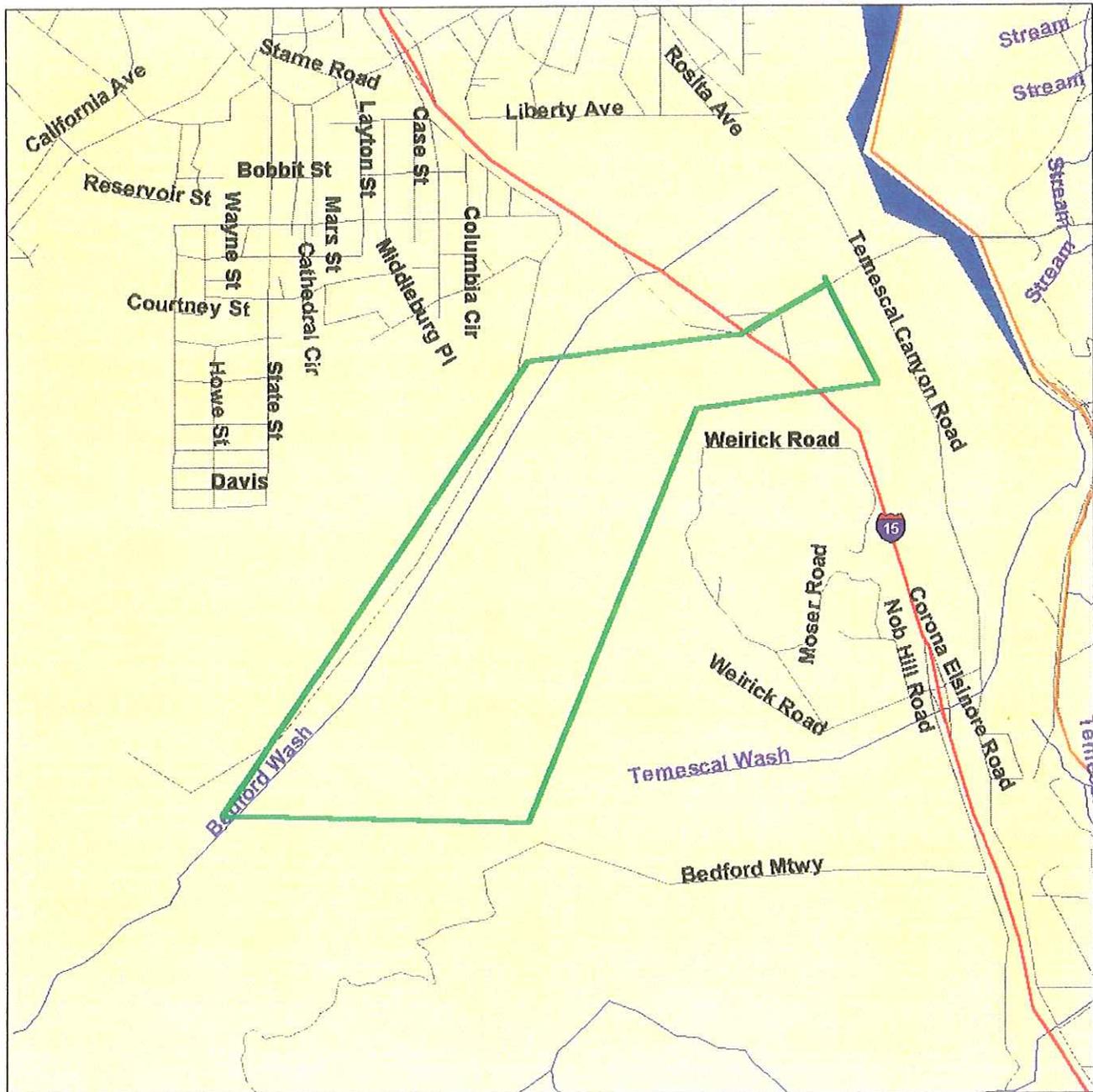


# Environmental FirstSearch

.5 Mile Radius from Area  
ASTM Map: CERCLIS, RCRATSD, LUST, SWL



**4161 EAGLE GLEN PKWY, CORONA CA 91720**



Source: 1999 U.S. Census TIGER Files

- Area Polygon 
  - Identified Site, Multiple Sites, Receptor   
  - NPL, Solid Waste Landfill (SWL) or Hazardous Waste 
  - Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft Radius

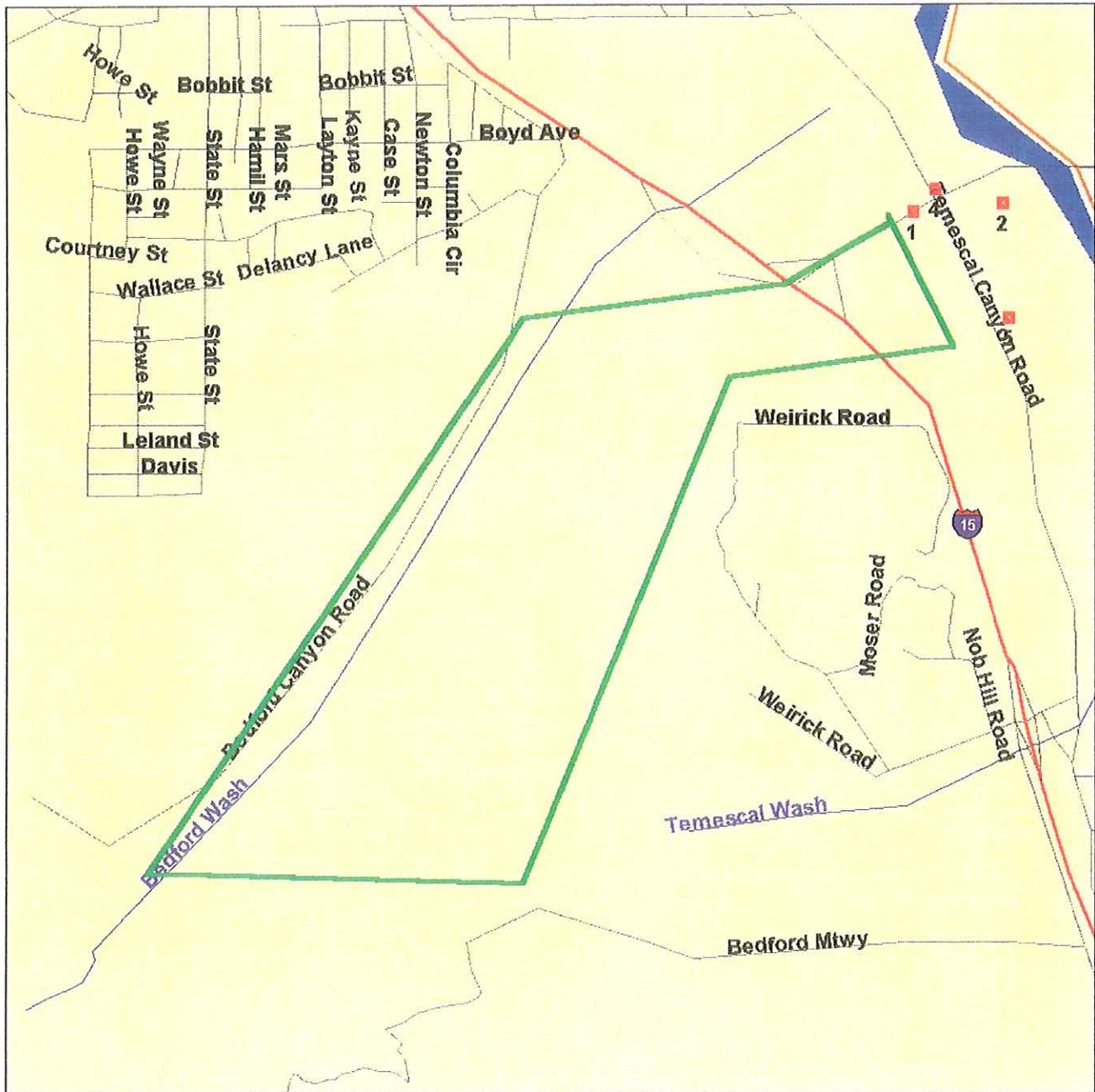


# Environmental FirstSearch

.25 Mile Radius from Area  
ASTM Map: RC RAGEN, ERNS, UST



## 4161 EAGLE GLEN PKWY, CORONA CA 91720



Source: 1999 U.S. Census TIGER Files

- Area Polygon 
  - Identified Site, Multiple Sites, Receptor 
  - NPL, Solid Waste Landfill (SWL) or Hazardous Waste 
  - Railroads 
- Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

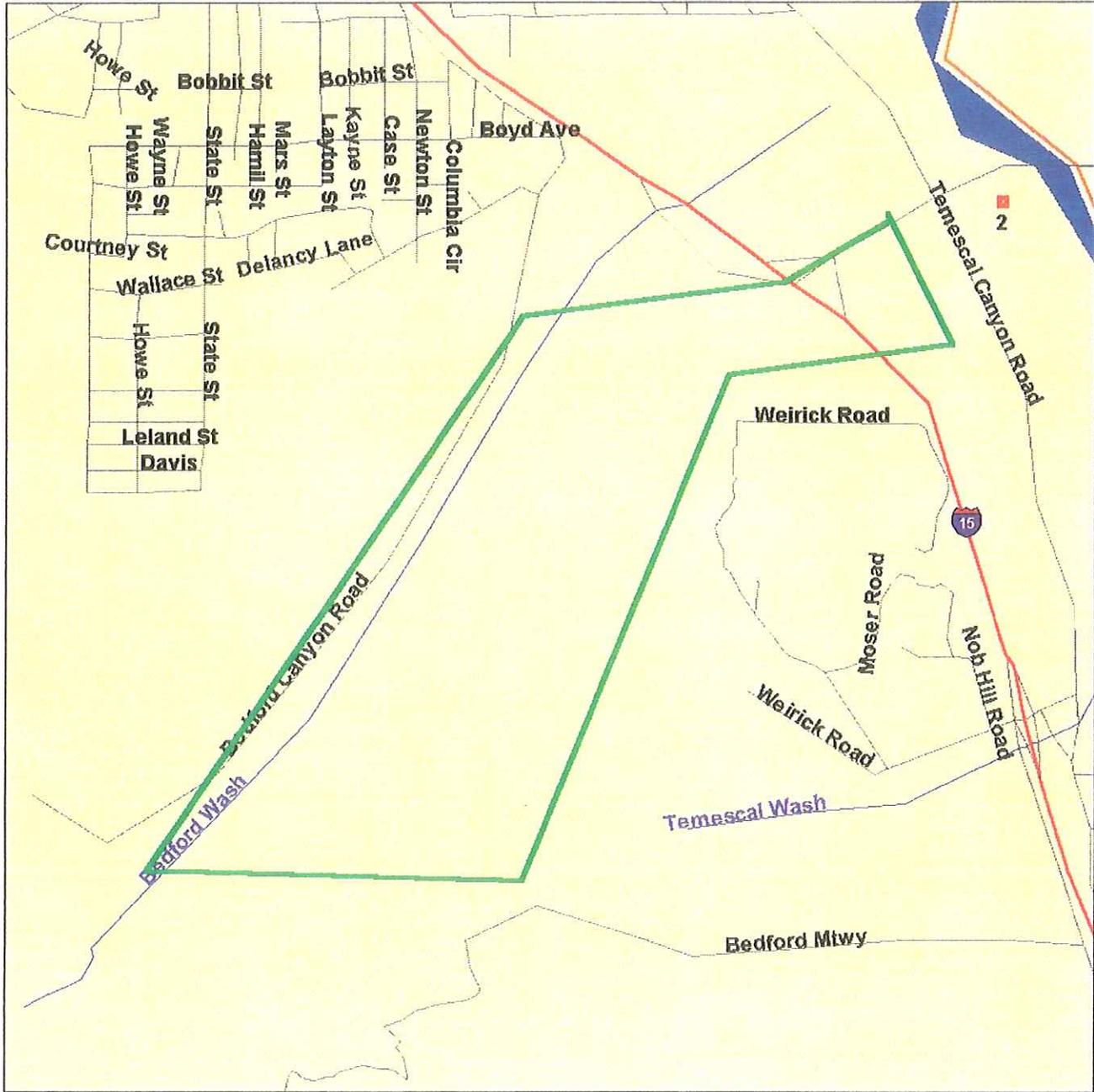


# Environmental FirstSearch

.25 Mile Radius from Area  
Non-ASTM Map: FINDS, Spills 90



**4161 EAGLE GLEN PKWY, CORONA CA 91720**



Source: 1999 U.S. Census TIGER Files

- Area Polygon 
- Identified Site, Multiple Sites, Receptor   
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste 
- National Historic Sites and Landmark Sites  
- Railroads 

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft Radius





*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

**JOB:** 31558.2  
MCMILLAN FARM

STATE SPILLS SITE			
SEARCH ID: 12	DIST/DIR: 0.05 NE	MAP ID: 1	
NAME: LISTON ALUMINUM BRICK COMPANY	REV: 07/01/2001	ID1: SLC8_72	
ADDRESS: 20401 TEMESCAL CANYON RD	ID2:		
CORONA CA	STATUS:		
RIVERSIDE	PHONE:		
CONTACT:			
Lead Agency: REGIONAL BOARD			
Case Type: SOIL			
Status: CLOSED			
Substance:			
Thomas Brothers Guide Location:			





**Environmental FirstSearch  
Federal Databases and Sources**

1. **NPL: National Priority List.** The EPA's list of confirmed or proposed Superfund sites.

*Updated quarterly.*

2. **CERCLIS: Comprehensive Environmental Response Compensation and Liability Information System.** The EPA's database of current and potential Superfund sites currently or previously under investigation.

*Updated quarterly.*

3. **RCRIS: Resource Conservation and Recovery Information System.** The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List).

*Updated quarterly.*

4. **ERNS: Emergency Response Notification System.** The EPA's database of EPA emergency response actions.

*Updated quarterly.*

5. **NPDES: National Pollution Discharge Elimination System.** The EPA's database of all permitted facilities receiving and discharging effluents to and from the environment.

*Updated semi-annually.*

6. **FINDS: The Facility Index System.** The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility.

*Updated quarterly.*

## ENVIRONMENTAL FIRST SEARCH CALIFORNIA DATABASES AND SOURCES

### CAL SITES (ST)

Source: The CAL EPA, Department of Toxic Substances Control (DTSC)  
Phone: (916) 323-3400

The CAL EPA Department of Toxic Substances Control (DTSC) maintains a database of information on properties (or sites) in California where hazardous substances have been released, or where the potential for such release exists. The types of properties in the CalSites database are categorized as: Annual Workplan, Backlogged Properties, Certified/Delisted Sites, No Further Action, Preliminary Endangerment Assessment in Progress, Preliminary Endangerment Assessment Required, Removal Action Required, Expedited Remedial Action Program, Voluntary Cleanup Program, Deed Restricted Properties, and Referred Properties. For more information on individual sites call the number listed above.

### CORTESE (ST)

Source: The CAL EPA, Department of Toxic Substances Control (DTSC)  
Phone: (916) 445-6532

Pursuant to Government Code Section 65962.5, the Hazardous Waste and Substances Sites List has been compiled by Cal/EPA, Hazardous Materials Data Management Program. The CAL EPA Dept. of Toxic Substances Control compiles information from subsets of the following databases to make up the CORTESE list:

- A) The Dept. of Toxic Substances Control; contaminated or potentially contaminated hazardous waste sites listed in the CAL Sites database. formerly known as ASPIS are included (CAL SITES formerly known as ASPIS).
- B) The California State Water Resources Control Board; listing of Leaking Underground Storage Tanks are included (LTANK)
- C) The California Integrated Waste Management Board; Sanitary Landfills which have evidence of groundwater contamination or known migration of hazardous materials (formerly WB-LF, now AB 3750).

Track Info Services collects each of the above data sets individually and lists them separately in the following First Search categories in order to provide more current and comprehensive information: CALSITES: SPL, LTANK: LUST, WB-LF: SWL

### SLIC NORTH BAY/SOUTH BAY (ST)

Source: The CAL EPA S.F. Bay Regional Water Quality Control Board  
Phone: (510) 622-2358

The CAL EPA San Francisco Bay Regional Water Quality Control Board maintains a report of sites in the north and south bay that have records of spills, leaks, and investigation cleanups. This was formerly referred to as the North Bay Toxics List and South Bay Site Management System. The two lists were combined with other information and now part of the North & South Bay SLIC Report.

### SWIS SOLID WASTE INFORMATION SYSTEM (SWL)

Source: The Integrated Waste Management Board  
Phone: (916) 255-2331

The California Integrated Waste Management Board maintains a database on solid waste facilities, operations, and disposal sites throughout the state of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. For more information on individual sites call the number listed above.

Note: This database has poor locational information regarding many sites listed; therefore, some sites may not be locatable or plottable in First Search reports.

### WMUDS (SWL)

Source: The State Water Resources Control Board  
Phone: (916) 227-4365

Note: This database has poor locational information regarding many sites listed; therefore, some sites may not be locatable or plottable in First Search reports.

The Waste Management Unit Database System (WMUDS) is maintained by the State Water Resources Control Board. It tracks management units for several regulatory programs related to waste management and its potential impact on groundwater. Two of these programs (SWAT & TPCA) are no longer on-going regulatory programs as described below. Chapter 15 (SC15) is still an on-going regulatory program and information is updated periodically. The WMUDS System contains information from the following agency databases: Facility, Waste Management Unit (WMU), Waste Discharger System (WDS), SWAT, Chapter 15, TPCA, RCRA, Inspections, Violations, and Enforcement's.

**Notes Regarding SWAT Ranks 1-5**

In a 1993 Memorandum of Understanding, the State Water Resources Control Board agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board. The SWAT Program began in 1984. In 1984, legislature was passed requiring testing of water and air media at all solid waste disposal sites. The law required SWRCB to rank all solid waste disposal sites in groups of 150 each, according to the threat they may pose on water quality. The law required the operators of each of the 150 sites in a given rank to submit a water quality "solid waste assessment test" (SWAT) report. Rank groups 1-5 consisted of 750 sites of which 562 submitted a SWAT Report or exemption questionnaire (undetermined leak status). Sites in ranks 1 - 5 contain some detailed information, whereas, sites in ranks 6 and beyond generally do not, therefore per the suggestion of the WRCB sites in ranks 1 - 5 were integrated with the First Search database. The SWAT Program ran from 1985 - 1995.

**Notes Regarding TPCA (Formerly referred to as Toxic Pits)**

From 1984 - 1991 the State Water Resources Control Board maintained a list of sites referred to as having Toxic Pits containing hazardous substances. Generally these sites were factories and refineries.

**Notes Regarding SC 15 (Formerly referred to as Sub Chapter 15)**

Subchapter 15 now referred to as Chapter 15 is the current regulatory program enforced by the Water Resources Control Board regarding landfills, surface impoundment's, and other sites. The WRCB maintains a database Chapter 15 to track these facilities. The Chapter 15 Program is part of the Core Regulatory Program for waste treatment, storage, or disposal sites. Statute specifically requires the State Water Resources Control Board to develop regulations to "ensure adequate protection of water quality and statewide uniformity in the siting, operation, and closure of waste discharge sites." These regulations are found in California Code of Regulations [CCR] Title 27 [solid waste, including mining waste] and CCR Title 23, Division 3, Chapter 15 [hazardous waste]. The regulations establish a classification system for waste and disposal sites and include requirements for siting, construction, operation, monitoring and cleanup, and closure. Program functions include issuance and amendment of waste discharge requirements, inspections to determine compliance, review of dischargers' self-monitoring reports, review of other technical reports, review of closure plans, and informal and formal enforcement actions. Statewide, the Program includes over 1100 waste treatment, storage, or disposal sites (landfills, surface impoundment's, waste piles, and land treatment units).

**LUSTIS (LU)**

Source: The State Water Resources Control Board

Phone: (916) 227-4416

The State Water Resources Control Board maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks.

Information for this database is collected from the states regional boards quarterly and integrated with this database.

**AST Aboveground Storage Tank (US)**

Source: The State Water Resources Control Board

Phone: (916) 227-4364

The Above Ground Petroleum Storage Act became State Law effective January 1, 1990. In general, the law requires owners or operators of AST's with petroleum products to file a storage statement and pay a fee by July 1, 1990 and every two years thereafter, take specific action to prevent spills, and in certain instances implement a groundwater monitoring program. This law does not apply to that portion of a tank facility associated with the production oil and regulated by the State Division of Oil and Gas of the Dept. of Conservation.

SWEEPS / FIDS State Registered Underground Storage Tanks (US)

Source: The State Water Resources Control Board, & CAL EPA Dept of Toxic Substances Control

Phone: (916) 227-4404

Until 1994 the State Water Resources Control Board maintained a database of registered underground storage tanks statewide referred to as the SWEEPS System. The SWEEPS UST information was integrated with the CAL EPA's Facility Index System database (FIDS) which is a master index of information from numerous California agency environmental databases. That was last updated in 1994. Track Info Services included the UST information from the FIDS database in its First Search reports for historical purposes to help its clients identify where tanks may possibly have existed. For more information on specific sites from individual paper files archived at the State Water Resources Control Board call the number listed above.

**COUNTY, CITY, AND CUPA DATABASES & SOURCES**

ALAMEDA COUNTY CUPA'S (US)

County of Alameda Source: Department of Environmental Health

Phone: (510) 567-6700

City of Berkeley Source: Toxics Management Division Phone: (510) 705-8150

City of Fremont Source: Fremont Fire Department

Phone: (510) 494-4279

City of Hayward Source: Hayward Fire Department

Phone: (510) 583-4910

Cities of Livermore/Pleasanton Source: Livermore-Pleasanton Fire Dept.

Phone: (925) 454-2362

City of Newark Source: Newark Fire Department

Phone: (510) 790-7254

KERN COUNTY CUPA (US)

County of Kern Source: Environmental Health Department  
Phone: (805) 862-8700  
City of Bakersfield Source: Fire Department Phone: (805) 326-3979

KINGS COUNTY CUPA (US)

Source: Environmental Health Services Phone: (209) 584-1411

LAKE COUNTY CUPA (US)

Source: Division of Environmental Health Phone: (707) 263-2222

LASSEN COUNTY CUPA (US)

Source: Department of Agriculture Phone: (530) 251-8110

LOS ANGELES COUNTY CUPA'S (US)

County of Los Angeles

Source: Fire Department Phone: (323) 890-4043

County of Los Angeles

Source: Environmental Programs Division Phone: (626) 458-3517

City of Burbank

Source: Fire Department Phone: (818) 238-3391

City of El Segundo

Source: Fire Department Phone: (310) 322-4311

City of Glendale

Source: Fire Department Phone: (818) 548-4030

City of Long Beach/Signal Hill

Source: Bureau of Environmental Health Phone: (562) 570-4132

City of Los Angeles

Source: Bureau Fire Prevention & Public Safety Phone: (213) 485-7543

City of Pasadena

Source: Fire Department Phone: (626) 744-4115

City of Santa Fe Springs

Source: Fire Department Phone: (562) 944-9713

City of Santa Monica

Source: Environmental Program Division Phone: (310) 458-8227

City of Torrance

Source: Fire Prevention Division Phone: (310) 618-2973

City of Vernon

Source: Environmental Health Phone: (213) 583-8811

MADERA COUNTY CUPA (US)

Source: Environmental Health Department Phone: (209) 675-7823

MARIN COUNTY CUPA (US)

County of Marin

Source: Office of Waste Management Phone: (415) 499-6647

City of San Rafael

Source: Fire Department Phone: (415) 485-3308

MARIPOSA COUNTY CUPA (US)

Source: Health Department Phone: (209) 966-0200

MENDOCINO COUNTY CUPA (US)

Source: Environmental Health Department Phone: (707) 463-4466

MERCED COUNTY CUPA (US)

Source: Division of Environmental Health Phone: (209) 385-7391

MODOC COUNTY CUPA (US)

Source: Department of Agriculture Phone: (530) 233-6401

MONO COUNTY CUPA (US)

Source: Health Department Phone: (760) 932-5261

MONTEREY COUNTY CUPA (US)

Source: Environmental Health Division Phone: (831) 755-4511

NAPA COUNTY CUPA (US)

Source: Hazardous Materials Section Phone: (707) 253-4269

NEVADA COUNTY CUPA (UST)

Source: Environmental Health Department Phone: (530) 265-1452

ORANGE COUNTY CUPA'S (US)

County of Orange Source: Environmental Health Department

Phone: (714) 667-3771

City of Anaheim

Source: Environmental Protection UST Section Phone: (714) 765-4050

City of Fullerton

Source: Fire Dept. Community Safety & Services Phone: (714) 738-3160

City of Orange

Source: Orange City Fire Department Phone: (714) 288-2541

City of Santa Ana

Source: Santa Ana Fire Department Phone: (714) 647-5700

ORANGE COUNTY GROUNDWATER CLEANUP PROGRAM (OT)

County of Orange

Source: Environmental Health Department Phone: (714) 667-3771

ORANGE COUNTY LANDFILL SITES (SWL)

County of Orange

Source: Environmental Health Department Phone: (714) 667-3771

PLACER COUNTY CUPA (US)

County of Placer

Source: Division of Environmental Health Phone: (530) 889-7335

Source: Field Office Tahoe City Phone: (530) 581-6240

City of Roseville

Source: Roseville Fire Department Phone: (916) 774-5805

PLUMAS COUNTY CUPA (UST)

Source: Environmental Health Department Phone: (530) 283-6355

RIVERSIDE COUNTY CUPA (US)

Source: Environmental Health Department Phone: (909) 358-5055

SACRAMENTO COUNTY (US)

Source: Environmental Mgmt Dept, Haz. Mat. Div. Phone: (916) 875-8550

SAN BENITO COUNTY CUPA (US)

City of Hollister

Source: Environmental Service Department Phone: (831) 636-4325

SAN BERNARDINO COUNTY CUPA'S (US)

County of San Bernardino

Source: Fire Department, Haz. Mat. Div. Phone: (909) 387-3080

City of Hesperia

Source: Hesperia Fire Prevention Department Phone: (760) 947-1603

City of Victorville

Source: Victorville Fire Department Phone: (760) 955-5229

SAN DIEGO COUNTY CUPA (US)

Source: Hazardous Materials Management Division Phone: (619) 338-2242

SAN DIEGO COUNTY HE 17/58

Source: The San Diego County Dept. of Environmental Health

Phone: (619) 338-2231

**PERMITS:** The HE17/58 database tracks establishments issued permits and the status of their permits in relation to compliance with federal, state, and local regulations that the County oversees. It tracks if a site is a hazardous waste generator, TSD, gas station, has underground tanks, violations, or unauthorized releases. For more information on a specific file call the Haz Mat Duty Specialist at the phone number listed above.

**LUST:** The San Diego County Dept. of Environmental Health maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks within its HE17/58 database. For more information on a specific file call the Haz Mat Duty Specialist at phone number listed above.

SAN FRANCISCO COUNTY CUPA (US)

Source: Department of Public Health Phone: (415) 252-3991

SAN JOAQUIN COUNTY CUPA (US)

Source: Environmental Health Division Phone: (209) 468-3446

SAN LUIS OBISPO COUNTY CUPA'S (US)

County of San Luis Obispo

Source: Environmental Health Division Phone: (805) 781-5555

City of San Luis Obispo

Source: City Fire Department Phone: (805) 781-7380

SAN MATEO COUNTY CUPA (US)

Source: Environmental Health Department Phone: (650) 363-4305

SANTA BARBARA COUNTY CUPA (US)

Source: Co Fire Dept Protective Services Div Phone: (805) 681-5500

SANTA CLARA COUNTY CUPA'S (US)

County of Santa Clara

Source: Hazardous Materials Compliance Division Phone: (408) 299-6930

Source: Santa Clara Co Central Fire Prot. Dist. Phone: (408) 378-4010

Includes cities of Campbell, Cupertino, Los Gatos, & Morgan Hill

City of Gilroy

Source: Community Development Dept Phone: (408) 848-0430

City of Milpitas

Source: Milpitas Fire Department Phone: (408) 942-3266

City of Mountain View

Source: Mountain View Fire Department Phone: (650) 903-6378

City of Palo Alto

Source: Palo Alto Fire Department Phone: (650) 329-2184

City of San Jose

Source: Fire Department Phone: (408) 277-4659

City of Santa Clara

Source: Santa Clara Fire Department Phone: (408) 984-4109

City of Sunnyvale

Source: Department of Public Safety Phone: (408) 730-7212

SANTA CRUZ COUNTY CUPA (US)

Source: Environmental Health Department Phone: (831) 454-2022

SHASTA COUNTY CUPA (US)

Source: Environmental Health Department Phone: (530) 225-5787

SIERRA COUNTY CUPA (US)

Source: Health Department Phone: (530) 993-6700

SISKIYOU COUNTY CUPA (US)

Source: Environmental Health Department Phone: (530) 841-4040

SONOMA COUNTY CUPA'S (US)

County of Sonoma

Source: Department Of Environmental Health Phone: (707) 525-6560

City of Healdsburg / City of Sebastapol

Source: Healdsburg Fire Department Phone: (707) 431-3360

City of Petaluma

Source: Fire Marshal Phone: (707) 778-4389

City of Santa Rosa

Source: Santa Rosa Fire Department

Phone: (707) 543-3500

STANISLAUS COUNTY CUPA (US)

Source: Dept. of Env. Rsrchs. Haz. Mat. Div. Phone: (209) 525-6700

SUTTER COUNTY CUPA (US)

Source: Department of Agriculture Phone: (530) 822-7500

TEHAMA COUNTY CUPA (US)

Source: Department of Environmental Health Phone: (530) 527-8020

TRINITY COUNTY CUPA (US)

Source: Department of Health Phone: (530) 623-1358

TULARE COUNTY CUPA (US)

Source: Environmental Health Department Phone: (209) 733-6441

TUOLUMNE COUNTY CUPA (US)

Source: Environmental Health Phone: (209) 533-5990

VENTURA COUNTY CUPA'S ((US: BWT UST'S & CERTIFIED UST'S)

County of Ventura

Source: Environmental Health Division Phone: (805) 654-2435

City of Oxnard

Source: Fire Department Phone: (805) 385-7717

City of Ventura

Source: Ventura Fire Department Phone: (805) 654-7792

YOLO COUNTY CUPA (US)

Source: Environmental Health Department Phone: (530) 666-8646

YUBA COUNTY CUPA (US)

Source: Yuba County of Emergency Services Phone: (530) 741-6254

*Environmental FirstSearch*  
*Street Name Report for Streets within .25 Mile(s) of Target Property*

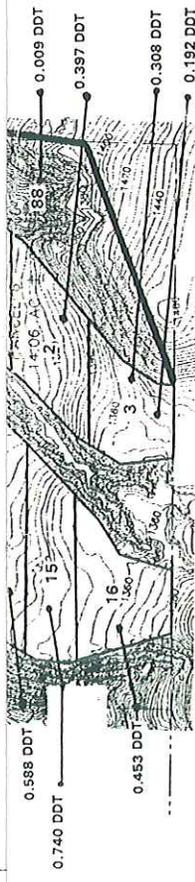
**TARGET SITE:** 4161 EAGLE GLEN PKWY  
CORONA CA 91720

**JOB:** 31558.2  
MCMILLAN FARM

<b>Street Name</b>	<b>Dist/Dir</b>	<b>Street Name</b>	<b>Dist/Dir</b>
Addicott Cir	0.25 NW		
Bedford Canyon Rd	0.00 --		
Bedford Motor Way	0.13 SE		
Belmont Ave	0.00 --		
Cajalco Rd	0.00 --		
Center St	0.04 NE		
Chestnut St	0.00 --		
Columbia Cir	0.25 NW		
Corona Elsinore Rd	0.00 --		
Fair Oaks Ave	0.13 NE		
Gambier Ct	0.15 SE		
Georgetown Dr	0.24 NW		
Glen Rd	0.00 --		
Greg Alan Ct	0.11 SE		
I-15	0.00 --		
Marland Ave	0.00 --		
Mesa Dr	0.00 --		
Mesa Rd	0.00 --		
Newton St	0.25 NW		
North St	0.08 NE		
Oriole Rd	0.00 --		
Popely Pass Dr	0.03 SE		
Sargent Ave	0.00 --		
Sunset Rd	0.00 --		
Sycamore St	0.19 NE		
Temescal Canyon Rd	0.09 NE		
Vine St	0.06 NE		
Weirick Rd	0.11 SE		
West St	0.04 NE		

**APPENDIX E**

**LABORATORY TEST DATA FOR PESTICIDE  
SAMPLES  
SOIL SAMPLE LOCATION MAP**



## SOIL SAMPLE LOCATION MAP

<b>PROJECT:</b>	PROJECT NO.:	31558.2
<b>CLIENT:</b>	MCMILLAN FARM PROPERTY, CORONA, CALIFORNIA	ENCLOSURE NO. E-1
	BLUESTONE COMMUNITIES	DATE: MARCH 2002
		SCALE: REDUCED COPY

**LOR Geotechnical Group, Inc.**



# Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710  
Tel: (909) 590-1828 Fax: (909) 590-1498

# Chain of Custody

Please Print in pen Page 2 of 3

Client: FORGETTECHNICAL GROUP Contact: M. Kevin OSMUN Tel #: 653-1760 Fax #: 653-1741  
Address: 621 QUAIL VALLEY CT City: Riverside State: CA Zip code: 92507  
Bill to: SAMT

Project Name/Code: BLUESTONE Job #: 31558, 2 P.O. #  
Project Address: \_\_\_\_\_ APCL Quotation # \_\_\_\_\_

Due Date:  Regular  Rush: \_\_\_\_\_ days \_\_\_\_\_ hours Sampled by: \_\_\_\_\_

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items	Remarks
16 A-E		22-02-12	Soil	Chilled	5	8157	Composite
17 A-E		807			5		1460
18 A-E		844			5		
19 A-E		758			5		
20 A-E		835			5		
21 A-E		835			5		
22 A-E		955			5		
23 A-E		1010			5		
24 A-E		1041			5		
25 A-E		1051			5		
26 A-E		1113			5		
27 A-E		1133			5		
28 A-E		1208			5		
29 A-E		205			5		
30 A-E		140			5		

QC Requirement:  Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data  CLP;  ACE  AFCEE  NEESA (E, C or D);  Other \_\_\_\_\_ (Please specify)

Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_\_\_ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions:  Intact;  Broken. Cooler Seal:  Intact;  Broken;  None. Tag # \_\_\_\_\_ Temperature:  Room  Cold ( \_\_\_\_\_ °C).

Relinquished by M. Kevin Osmun Date/Time 2/4/02 1925 Received by [Signature] Date/Time 2/4/02 1955A  
Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

APCL USE ONLY Service # \_\_\_\_\_ Note: \_\_\_\_\_

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.



# APCL Analytical Report

Submitted to:  
 Lor Geotechnical Group, Inc  
 Attention: Kevin Osmun  
 6121 Quail Valley Ct  
 Riverside CA 92507  
 Tel: (909)653-1760 Fax: (909)653-1741

Service ID #: 801-021458 Received: 02/04/02  
 Collected by: Extracted: 02/05/02  
 Collected on: 02/02/02 Tested: 02/07-08/02  
 Reported: 02/11/02  
 Sample Description: Soil  
 Project Description: 31558.2 Bluestone

## Analysis of Soil Samples (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				1A-E	2A-E	3A-E	4A-E
				02-01458-1	02-01458-2	02-01458-3	02-01458-4
Organochlorine pesticides (a)							
Dilution Factor				10	10	10	1
Aldrin	8081A	µg/kg	1.7	<17	<17	<17	<1.7
beta-BHC	8081A	µg/kg	1.7	<17	<17	<17	<1.7
alpha-BHC	8081A	µg/kg	1.7	<17	<17	<17	<1.7
delta-BHC	8081A	µg/kg	1.7	<17	2J	<17	<1.7
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<17	<17	<17	<1.7
alpha-Chlordane	8081A	µg/kg	1	<10	<10	<10	<1
gamma-Chlordane	8081A	µg/kg	1	<10	<10	<10	<1
4,4'-DDD	8081A	µg/kg	3	40	60	22J	10
4,4'-DDE	8081A	µg/kg	3	210	250	130	118 (b)
4,4'-DDT	8081A	µg/kg	3	69	87	40	35
Dieldrin	8081A	µg/kg	3	<30	<30	<30	<3
Endosulfan I	8081A	µg/kg	1.7	<17	<17	<17	<1.7
Endosulfan II	8081A	µg/kg	3	<30	<30	<30	<3
Endosulfan sulfate	8081A	µg/kg	5	<50	<50	<50	<5
Endrin	8081A	µg/kg	3	<30	<30	<30	<3
Endrin aldehyde	8081A	µg/kg	3	<30	<30	<30	<3
Endrin ketone	8081A	µg/kg	2	<20	<20	<20	<2
Heptachlor	8081A	µg/kg	1.7	<17	<17	<17	<1.7
Heptachlor epoxide	8081A	µg/kg	1.7	<17	<17	<17	<1.7
Methoxychlor	8081A	µg/kg	10	<100	<100	<100	<10
Toxaphene	8081A	µg/kg	100	<1000	<1000	<1000	<100

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				5A-E 02-01458-5	6A-E 02-01458-6	7A-E 02-01458-7	8A-E 02-01458-8
<b>Organochlorine pesticides</b>							
Dilution Factor				5	5	5	10
Aldrin	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
beta-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
alpha-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
delta-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
alpha-Chlordane	8081A	µg/kg	1	<5	<5	<5	<10
gamma-Chlordane	8081A	µg/kg	1	<5	<5	<5	<10
4,4'-DDD	8081A	µg/kg	3	31	120	32	80
4,4'-DDE	8081A	µg/kg	3	200	362	220	350
4,4'-DDT	8081A	µg/kg	3	59	130	89	190
Dieldrin	8081A	µg/kg	3	<15	<15	<15	<30
Endosulfan I	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
Endosulfan II	8081A	µg/kg	3	<15	<15	<15	<30
Endosulfan sulfate	8081A	µg/kg	5	<25	<25	<25	<50
Endrin	8081A	µg/kg	3	<15	<15	<15	<30
Endrin aldehyde	8081A	µg/kg	3	<15	<15	<15	<30
Endrin ketone	8081A	µg/kg	2	<10	<10	<10	<20
Heptachlor	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
Heptachlor epoxide	8081A	µg/kg	1.7	<8.5	<8.5	<8.5	<17
Methoxychlor	8081A	µg/kg	10	<50	<50	<50	<100
Toxaphene	8081A	µg/kg	100	<500	<500	<500	<1000

Component Analyzed	Method	Unit	PQL	Analysis Result			
				9A-E 02-01458-9	10A-E 02-01458-10	11A-E 02-01458-11	12A-E 02-01458-12
<b>Organochlorine pesticides</b>							
Dilution Factor				10	10	10	10
Aldrin	8081A	µg/kg	1.7	<17	<17	<17	<17
beta-BHC	8081A	µg/kg	1.7	<17	<17	<17	<17
alpha-BHC	8081A	µg/kg	1.7	<17	<17	<17	<17
delta-BHC	8081A	µg/kg	1.7	<17	<17	<17	<17
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<17	<17	<17	<17
alpha-Chlordane	8081A	µg/kg	1	<10	<10	<10	<10
gamma-Chlordane	8081A	µg/kg	1	<10	<10	<10	<10
4,4'-DDD	8081A	µg/kg	3	67	120	89	84
4,4'-DDE	8081A	µg/kg	3	340	310	180	270
4,4'-DDT	8081A	µg/kg	3	99	100	64	96
Dieldrin	8081A	µg/kg	3	<30	<30	<30	<30
Endosulfan I	8081A	µg/kg	1.7	<17	<17	<17	<17
Endosulfan II	8081A	µg/kg	3	<30	<30	<30	<30
Endosulfan sulfate	8081A	µg/kg	5	<50	<50	<50	<50
Endrin	8081A	µg/kg	3	<30	<30	<30	<30
Endrin aldehyde	8081A	µg/kg	3	<30	<30	<30	<30
Endrin ketone	8081A	µg/kg	2	<20	<20	<20	<20
Heptachlor	8081A	µg/kg	1.7	<17	<17	<17	<17
Heptachlor epoxide	8081A	µg/kg	1.7	<17	<17	<17	<17
Methoxychlor	8081A	µg/kg	10	<100	<100	<100	<100
Toxaphene	8081A	µg/kg	100	<1000	<1000	<1000	<1000

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				13A-E 02-01458-13	14A-E 02-01458-14	15A-E 02-01458-15
<b>Organochlorine pesticides</b>						
Dilution Factor				20	10	10
Aldrin	8081A	µg/kg	1.7	<34	<17	<17
beta-BHC	8081A	µg/kg	1.7	<34	<17	<17
alpha-BHC	8081A	µg/kg	1.7	<34	<17	<17
delta-BHC	8081A	µg/kg	1.7	<34	<17	<17
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<34	<17	<17
alpha-Chlordane	8081A	µg/kg	1	<20	<10	<10
gamma-Chlordane	8081A	µg/kg	1	<20	<10	<10
4,4'-DDD	8081A	µg/kg	3	170	88	120
4,4'-DDE	8081A	µg/kg	3	480	350	460
4,4'-DDT	8081A	µg/kg	3	190	150	160
Dieldrin	8081A	µg/kg	3	<60	<30	<30
Endosulfan I	8081A	µg/kg	1.7	<34	<17	<17
Endosulfan II	8081A	µg/kg	3	<60	<30	<30
Endosulfan sulfate	8081A	µg/kg	5	<100	<50	<50
Endrin	8081A	µg/kg	3	<60	<30	<30
Endrin aldehyde	8081A	µg/kg	3	<60	<30	<30
Endrin ketone	8081A	µg/kg	2	<40	<20	<20
Heptachlor	8081A	µg/kg	1.7	<34	<17	<17
Heptachlor epoxide	8081A	µg/kg	1.7	<34	<17	<17
Methoxychlor	8081A	µg/kg	10	<200	<100	<100
Toxaphene	8081A	µg/kg	100	<2000	<1000	<1000

Component Analyzed	Method	Unit	PQL	Analysis Result		
				2A-E 02-01458-2	6A-E 02-01458-6	15A-E 02-01458-15
<b>Chlorinated herbicides</b>						
Dilution Factor				1	1	1
Acifluorfen	8151A	µg/kg	20	<20	<20	<20
Bentazon (Basagran)	8151A	µg/kg	10	<10	<10	<10
Chloramben	8151A	µg/kg	10	<10	<10	<10
2,4-D	8151A	µg/kg	10	<10	<10	<10
2,4-DB	8151A	µg/kg	10	<10	<10	<10
Dalapon (dichloroacetic acid)	8151A	µg/kg	20	<20	<20	<20
Dicamba	8151A	µg/kg	10	<10	<10	<10
3,5-Dichlorobenzoic	8151A	µg/kg	10	<10	<10	<10
Dichloroprop	8151A	µg/kg	10	<10	<10	<10
Dinoseb (DNBP)	8151A	µg/kg	20	<20	<20	<20

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				2A-E	6A-E	15A-E
				02-01458-2	02-01458-6	02-01458-15
MCPA	8151A	µg/kg	2000	< 2000	< 2000	< 2000
MCPP	8151A	µg/kg	2000	< 2000	< 2000	< 2000
4-Nitrophenol	8151A	µg/kg	10	< 10	< 10	< 10
Pentachlorophenol (PCP)	8151A	µg/kg	10	< 10	< 10	< 10
Picloram	8151A	µg/kg	10	< 10	< 10	< 10
2,4,5-T	8151A	µg/kg	10	< 10	< 10	< 10
2,4,5-TP (Silvex)	8151A	µg/kg	10	< 10	< 10	< 10

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

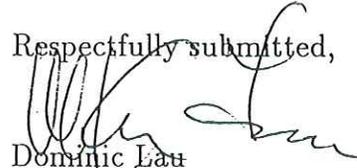
J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Sample duplicates were composited before analysis.

(b) Analyzed with a dilution factor of 5.

Respectfully submitted,



Dominic Lau

Laboratory Director  
Applied P & Ch Laboratory



# Applied P & Ch Laboratory

# Chain of Custody

13760 Magnolia Ave. Chino CA 91710  
 Tel: (909) 590-1828 Fax: (909) 590-1498

Please Print in pen Page 1 of 3

Client: LDR Geotechnical Corp Contact: M. Fernando Osuna Tel #: 909 883-1760 Fax #: 653-1741

Address: 6121 Quail Valley Ct City: Riverside State: CA Zip code: 92507

Bill to: Sam Job # 31558 A.P.C.L. Quotation # \_\_\_\_\_

Project Name/Code: Bluestone APCL Quotation # \_\_\_\_\_

Due Date:  Regular  Rush: \_\_\_\_\_ days \_\_\_\_\_ hours Sampled by: \_\_\_\_\_

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items	Remarks
1A-E		2-2-02	Soil	Chilled	5	1808, 8151, 632	Compare
2A-E		7-20			5		
3A-E		8-15			5		
4A-E		8-31			5		
5A-E		8-31			5		
6A-E		9-01			5		
7A-E		9-12			5		
8A-E		9-28			5		
9A-E		9-20			5		
10A-E		9-56			5		
11A-E		10-15			5		
12A-E		10-41			5		
13A-E		11-06			5		
14A-E		11-35			5		
15A-E		11-49			5		
		12-15			5		

**74158**

QC Requirement:  Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data;  GLP;  ACE;  AFCEE;  NDESA; \_\_\_\_\_ (E, C or D);  Other \_\_\_\_\_ (Please specify)

Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_\_\_ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions:  Intact;  Broken. Cooler Seal:  Intact;  Broken;  None. Tag # \_\_\_\_\_ Temperature:  Room  Cold ( \_\_\_\_\_ °C).

Relinquished by MM Date/Time 2/14/02 1:32 Received by [Signature] Date/Time 2/14/02 1935A

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

APCL USE ONLY Service # \_\_\_\_\_ Note: \_\_\_\_\_

Client's understand that all terms described in the proposal, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the contract have been broken.



# Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710  
Tel: (909) 590-1828 Fax: (909) 590-1498

## APCL

# Chain of Custody

Please Print in pen Page 1 of 3

Client: LOR GEOTECHNICAL CORP Contact: M. FEIN OSMAN Tel #: 909 883-1760 Fax #: 653-1741  
Address: 6121 QUAIL VALLEY CT City: RIVERSIDE, CA State: CA Zip code: 92507  
Bill to: SAME

Project Name/Code: Buckstone Job # 31558.P.O.#  
Project Address: \_\_\_\_\_ APCL Quotation # \_\_\_\_\_

Due Date:  Regular  Rush: \_\_\_\_\_ days \_\_\_\_\_ hours Sampled by: \_\_\_\_\_

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items				Remarks
						8081	8151	632		
1A-E		2-2-02 7:45	Soil	Chilled	5	X	X	X		Composite
2A-E		8:15			5	X	X	X		
3A-E		8:31			5	X	X	X		
4A-E		8:42			5	X	X	X		
5A-E		9:01			5	X	X	X		
6A-E		9:12			5	X	X	X		
7A-E		9:28			5	X	X	X		
8A-E		9:40			5	X	X	X		
9A-E		9:56			5	X	X	X		
10A-E		10:15			5	X	X	X		
11A-E		10:41			5	X	X	X		
12A-E		11:06			5	X	X	X		
13A-E		11:31			5	X	X	X		
14A-E		11:49			5	X	X	X		
15A-E		12:15			5	X	X	X		

**1458**  
60 L  
2/14/02

**1599**

QC Requirement:  Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data  CLP;  ACE  AFCEE  NEBSA (E, C or D);  Other \_\_\_\_\_ (Please specify)

Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_\_\_ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions:  Intact;  Broken. Cooler Seal:  Intact;  Broken;  None. Tag # \_\_\_\_\_ Temperature:  Room  Cold ( \_\_\_\_\_ °C).

Relinquished by MM Keed Date/Time 2/14/02 19:35 Received by [Signature] Date/Time 2/14/02 19:35A  
Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

APCL USE ONLY Service # \_\_\_\_\_ Note: \_\_\_\_\_

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the contract have been breached.

# APCL Analytical Report

Submitted to:  
Lor Geotechnical Group, Inc  
Attention: Kevin Osmun  
6121 Quail Valley Ct  
Riverside CA 92507  
Tel: (909)653-1760 Fax: (909)653-1741

Service ID #: 801-021460 Received: 02/04/02  
Collected by: Extracted: 02/04-05/02  
Collected on: 02/02/02 Tested: 02/06-08/02  
Reported: 02/11/02  
Sample Description: Soil  
Project Description: 31558.2 Bluestone

## Analysis of Soil Samples (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				16A-E	17A-E	18A-E	19A-E
				02-01460-1	02-01460-2	02-01460-3	02-01460-4
Organochlorine pesticides (a)							
Dilution Factor				10	1	10	10
Aldrin	8081A	µg/kg	1.7	<17	<1.7	<17	<17
beta-BHC	8081A	µg/kg	1.7	<17	<1.7	<17	<17
alpha-BHC	8081A	µg/kg	1.7	<17	<1.7	<17	<17
delta-BHC	8081A	µg/kg	1.7	<17	<1.7	<17	<17
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<17	<1.7	<17	<17
alpha-Chlordane	8081A	µg/kg	1	<10	<1	<10	<10
gamma-Chlordane	8081A	µg/kg	1	<10	<1	<10	<10
4,4'-DDD	8081A	µg/kg	3	63	5	40	40
4,4'-DDE	8081A	µg/kg	3	280	43	190	210
4,4'-DDT	8081A	µg/kg	3	110	21	77	110
Dieldrin	8081A	µg/kg	3	<30	<3	<30	<30
Endosulfan I	8081A	µg/kg	1.7	<17	<1.7	<17	<17
Endosulfan II	8081A	µg/kg	3	<30	<3	<30	<30
Endosulfan sulfate	8081A	µg/kg	5	<50	<5	<50	<50
Endrin	8081A	µg/kg	3	<30	<3	<30	<30
Endrin aldehyde	8081A	µg/kg	3	<30	<3	<30	<30
Endrin ketone	8081A	µg/kg	2	<20	<2	<20	<20
Heptachlor	8081A	µg/kg	1.7	<17	<1.7	<17	<17
Heptachlor epoxide	8081A	µg/kg	1.7	<17	<1.7	<17	<17
Methoxychlor	8081A	µg/kg	10	<100	<10	<100	<100
Toxaphene	8081A	µg/kg	100	<1000	<100	<1000	<1000

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				20A-E 02-01460-5	21A-E 02-01460-6	22A-E 02-01460-7	23A-E 02-01460-8
<b>Organochlorine pesticides</b>							
Dilution Factor				10	5	1	5
Aldrin	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
beta-BHC	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
alpha-BHC	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
delta-BHC	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
alpha-Chlordane	8081A	µg/kg	1	<10	<5	<1	<5
gamma-Chlordane	8081A	µg/kg	1	<10	<5	<1	<5
4,4'-DDD	8081A	µg/kg	3	50	30	9.0	30
4,4'-DDE	8081A	µg/kg	3	290	84	15	32
4,4'-DDT	8081A	µg/kg	3	160	100	30	63
Dieldrin	8081A	µg/kg	3	<30	9J	3J	5J
Endosulfan I	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
Endosulfan II	8081A	µg/kg	3	<30	<15	<3	<15
Endosulfan sulfate	8081A	µg/kg	5	<50	<25	<5	<25
Endrin	8081A	µg/kg	3	<30	<15	<3	<15
Endrin aldehyde	8081A	µg/kg	3	<30	<15	<3	<15
Endrin ketone	8081A	µg/kg	2	<20	<10	<2	<10
Heptachlor	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
Heptachlor epoxide	8081A	µg/kg	1.7	<17	<8.5	<1.7	<8.5
Methoxychlor	8081A	µg/kg	10	<100	<50	<10	<50
Toxaphene	8081A	µg/kg	100	<1000	<500	<100	<500

Component Analyzed	Method	Unit	PQL	Analysis Result			
				24A-E 02-01460-9	25A-E 02-01460-10	26A-E 02-01460-11	27A-E 02-01460-12
<b>Organochlorine pesticides</b>							
Dilution Factor				5	5	1	5
Aldrin	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
beta-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
alpha-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
delta-BHC	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
alpha-Chlordane	8081A	µg/kg	1	<5	<5	<1	<5
gamma-Chlordane	8081A	µg/kg	1	<5	<5	<1	<5
4,4'-DDD	8081A	µg/kg	3	41	44	12	30
4,4'-DDE	8081A	µg/kg	3	78	45	33	67
4,4'-DDT	8081A	µg/kg	3	70	73	47	61
Dieldrin	8081A	µg/kg	3	7J	9J	4	13J
Endosulfan I	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
Endosulfan II	8081A	µg/kg	3	<15	<15	<3	<15
Endosulfan sulfate	8081A	µg/kg	5	<25	<25	<5	<25
Endrin	8081A	µg/kg	3	<15	<15	<3	<15
Endrin aldehyde	8081A	µg/kg	3	<15	<15	<3	<15
Endrin ketone	8081A	µg/kg	2	<10	<10	<2	<10
Heptachlor	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
Heptachlor epoxide	8081A	µg/kg	1.7	<8.5	<8.5	<1.7	<8.5
Methoxychlor	8081A	µg/kg	10	<50	<50	<10	<50
Toxaphene	8081A	µg/kg	100	<500	<500	<100	<500

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				58A-E 02-01460-13	59A-E 02-01460-14	60A-E 02-01460-15
<b>Organochlorine pesticides</b>						
Dilution Factor				1	1	1
Aldrin	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
beta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
alpha-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
delta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
alpha-Chlordane	8081A	µg/kg	1	<1	<1	<1
gamma-Chlordane	8081A	µg/kg	1	<1	<1	<1
4,4'-DDD	8081A	µg/kg	3	2J	1J	6.7
4,4'-DDE	8081A	µg/kg	3	21	1J	55
4,4'-DDT	8081A	µg/kg	3	16	0.8J	38
Dieldrin	8081A	µg/kg	3	<3	<3	<3
Endosulfan I	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Endosulfan II	8081A	µg/kg	3	<3	<3	<3
Endosulfan sulfate	8081A	µg/kg	5	<5	<5	<5
Endrin	8081A	µg/kg	3	<3	<3	<3
Endrin aldehyde	8081A	µg/kg	3	<3	<3	<3
Endrin ketone	8081A	µg/kg	2	<2	<2	<2
Heptachlor	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Heptachlor epoxide	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Methoxychlor	8081A	µg/kg	10	<10	<10	<10
Toxaphene	8081A	µg/kg	100	<100	<100	<100

Component Analyzed	Method	Unit	PQL	Analysis Result
				21A-E 02-01460-6
<b>Chlorinated herbicides</b>				
Dilution Factor				1
Acifluorfen	8151A	µg/kg	20	<20
Bentazon (Basagran)	8151A	µg/kg	10	<10
Chloramben	8151A	µg/kg	10	<10
2,4-D	8151A	µg/kg	10	<10
2,4-DB	8151A	µg/kg	10	<10
Dalapon (dichloroacetic acid)	8151A	µg/kg	20	<20
Dicamba	8151A	µg/kg	10	<10
3,5-Dichlorobenzoic	8151A	µg/kg	10	<10
Dichloroprop	8151A	µg/kg	10	<10
Dinoseb (DNBP)	8151A	µg/kg	20	<20

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				21A-E	
				02-01460-6	
MCPA	8151A	µg/kg	2000	< 2000	
MCPP	8151A	µg/kg	2000	< 2000	
4-Nitrophenol	8151A	µg/kg	10	< 10	
Pentachlorophenol (PCP)	8151A	µg/kg	10	< 10	
Picloram	8151A	µg/kg	10	< 10	
2,4,5-T	8151A	µg/kg	10	< 10	
2,4,5-TP (Silvex)	8151A	µg/kg	10	< 10	

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

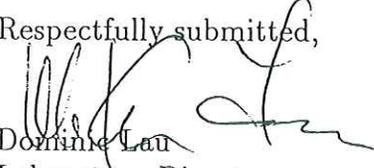
"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Sample duplicates were composited before analysis.

Respectfully submitted,

  
Dominic Lau  
Laboratory Director  
Applied P & Ch Laboratory

# APCL Analytical Report

Submitted to:

Lor Geotechnical Group, Inc

Attention: Kevin Osmun

6121 Quail Valley Ct

Riverside CA 92507

Tel: (909)653-1760 Fax: (909)653-1741

Service ID #: 801-021462

Collected by:

Collected on: 02/02/02

Sample Description: Soil

Project Description: 31558.2 Bluestone

Received: 02/04/02

Extracted: 02/04-05/02

Tested: 02/05-08/02

Reported: 02/11/02

## Analysis of Soil Samples (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				61A-E	62A-E	63A-E	64A-E
				02-01462-1	02-01462-2	02-01462-3	02-01462-4
<b>Organochlorine pesticides (a)</b>							
Dilution Factor				1	1	1	1
Aldrin	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
beta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
alpha-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
delta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
alpha-Chlordane	8081A	µg/kg	1	<1	<1	<1	<1
gamma-Chlordane	8081A	µg/kg	1	<1	<1	<1	<1
4,4'-DDD	8081A	µg/kg	3	<3	1J	0.8J	5
4,4'-DDE	8081A	µg/kg	3	<3	26	46	32
4,4'-DDT	8081A	µg/kg	3	<3	8.9	22	23
Dieldrin	8081A	µg/kg	3	<3	<3	<3	<3
Endosulfan I	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
Endosulfan II	8081A	µg/kg	3	<3	<3	<3	<3
Endosulfan sulfate	8081A	µg/kg	5	<5	<5	<5	<5
Endrin	8081A	µg/kg	3	<3	<3	<3	<3
Endrin aldehyde	8081A	µg/kg	3	<3	<3	<3	<3
Endrin ketone	8081A	µg/kg	2	<2	<2	<2	<2
Heptachlor	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
Heptachlor epoxide	8081A	µg/kg	1.7	<1.7	<1.7	<1.7	<1.7
Methoxychlor	8081A	µg/kg	10	<10	<10	<10	<10
Toxaphene	8081A	µg/kg	100	<100	<100	<100	<100

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				65A-E 02-01462-5	65AA-E 02-01462-6	86A-E 02-01462-7
<b>Organochlorine pesticides</b>						
Dilution Factor				1	1	1
Aldrin	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
beta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
alpha-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
delta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
alpha-Chlordane	8081A	µg/kg	1	<1	<1	<1
gamma-Chlordane	8081A	µg/kg	1	<1	<1	<1
4,4'-DDD	8081A	µg/kg	3	5	1J	<3
4,4'-DDE	8081A	µg/kg	3	27	70	<3
4,4'-DDT	8081A	µg/kg	3	18	20	<3
Dieldrin	8081A	µg/kg	3	<3	<3	<3
Endosulfan I	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Endosulfan II	8081A	µg/kg	3	<3	<3	<3
Endosulfan sulfate	8081A	µg/kg	5	<5	<5	<5
Endrin	8081A	µg/kg	3	<3	<3	<3
Endrin aldehyde	8081A	µg/kg	3	<3	<3	<3
Endrin ketone	8081A	µg/kg	2	<2	<2	<2
Heptachlor	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Heptachlor epoxide	8081A	µg/kg	1.7	<1.7	<1.7	<1.7
Methoxychlor	8081A	µg/kg	10	<10	<10	<10
Toxaphene	8081A	µg/kg	100	<100	<100	<100

Component Analyzed	Method	Unit	PQL	Analysis Result		
				87A-E 02-01462-8	88A-E 02-01462-9	89A-E 02-01462-10
<b>Organochlorine pesticides</b>						
Dilution Factor				1	1	10
Aldrin	8081A	µg/kg	1.7	<1.7	<1.7	<17
beta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<17
alpha-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<17
delta-BHC	8081A	µg/kg	1.7	<1.7	<1.7	<17
gamma-BHC (Lindane)	8081A	µg/kg	1.7	<1.7	<1.7	<17
alpha-Chlordane	8081A	µg/kg	1	<1	<1	<10
gamma-Chlordane	8081A	µg/kg	1	<1	<1	<10
4,4'-DDD	8081A	µg/kg	3	<3	2J	40
4,4'-DDE	8081A	µg/kg	3	<3	1J	250
4,4'-DDT	8081A	µg/kg	3	<3	6.2	92
Dieldrin	8081A	µg/kg	3	<3	<3	<30
Endosulfan I	8081A	µg/kg	1.7	<1.7	<1.7	<17
Endosulfan II	8081A	µg/kg	3	<3	<3	<30
Endosulfan sulfate	8081A	µg/kg	5	<5	<5	<50
Endrin	8081A	µg/kg	3	<3	<3	<30
Endrin aldehyde	8081A	µg/kg	3	<3	<3	<30
Endrin ketone	8081A	µg/kg	2	<2	<2	<20
Heptachlor	8081A	µg/kg	1.7	<1.7	<1.7	<17
Heptachlor epoxide	8081A	µg/kg	1.7	<1.7	<1.7	<17
Methoxychlor	8081A	µg/kg	10	<10	<10	<100
Toxaphene	8081A	µg/kg	100	<100	<100	<1000

# APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				63A-E 02-01462-3
<b>Chlorinated herbicides</b>				
Dilution Factor				1
Acifluorfen	8151A	µg/kg	20	< 20
Bentazon (Basagran)	8151A	µg/kg	10	< 10
Chloramben	8151A	µg/kg	10	< 10
2,4-D	8151A	µg/kg	10	< 10
2,4-DB	8151A	µg/kg	10	< 10
Dalapon (dichloroacetic acid)	8151A	µg/kg	20	< 20
Dicamba	8151A	µg/kg	10	< 10
3,5-Dichlorobenzoic	8151A	µg/kg	10	< 10
Dichloroprop	8151A	µg/kg	10	< 10
Dinoseb (DNBP)	8151A	µg/kg	20	< 20
MCPA	8151A	µg/kg	2000	< 2000
MCPP	8151A	µg/kg	2000	< 2000
4-Nitrophenol	8151A	µg/kg	10	< 10
Pentachlorophenol (PCP)	8151A	µg/kg	10	< 10
Picloram	8151A	µg/kg	10	< 10
2,4,5-T	8151A	µg/kg	10	< 10
2,4,5-TP (Silvex)	8151A	µg/kg	10	< 10

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

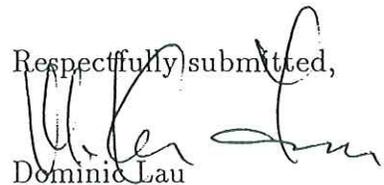
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Sample duplicates were composited before analysis.

Respectfully submitted,



Dominic Lau

Laboratory Director

Applied P & Ch Laboratory



# Applied P & Ch Laboratory

# Chain of Custody

13760 Magnolia Ave. Chino CA 91710  
Tel: (909) 590-1828 Fax: (909) 590-1498

Please Print in pen Page 1 of 1

Client: LOR GEOTECHNICAL GROUP Contact: M. Kevin O'Mara Tel #: 653-1760 Fax #: 653-1741  
Address: 6121 QUAIL VALLEY CT City: Riverside State: CA Zip code: 92507

Project Name/Code BLUESTONE Job # 31571.2 P.O. #  
Project Address APCL Quotation #

Due Date:  Regular  Rush: \_\_\_ days \_\_\_ hours Sampled by:

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items				Remarks
						White - With report	Yellow - Lab copy	Pink - Originator	Other	
3A-E	5 JARS LABELED A-E	2-2-02	Soil		5					Run Jar labeled C
13A-E	"	11/25	}		5					"
20A-E	"	8/21			5					"
63A-E	"	1/21			5					"
<p>Take Jar labeled C and Run individual sample</p> <p>8081A Method from each Sample 3, 13, 20, 63</p> <p>TOTAL OF 4 ADDITIONAL SAMPLES TO BE RUN</p> <p><i>M. Kevin O'Mara</i></p>										
<p>1599</p>										
<p>Field 2-13-01</p>										

QC Requirement:  Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data  CLP;  ACE  AFCEE  NEBSA \_\_\_ (E, C or D);  Other \_\_\_ (Please specify)

Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions:  Intact;  Broken. Cooler Seal:  Intact;  Broken;  None. Tag # \_\_\_ Temperature:  Room  Cold (\_\_\_ °C).

Relinquished by \_\_\_ Date/Time \_\_\_ / \_\_\_ / \_\_\_ Received by \_\_\_ Date/Time \_\_\_ / \_\_\_ / \_\_\_

Relinquished by \_\_\_ Date/Time \_\_\_ / \_\_\_ / \_\_\_ Received by \_\_\_ Date/Time \_\_\_ / \_\_\_ / \_\_\_

APCL USE ONLY Service #

Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate the service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

# APCL Analytical Report

Submitted to:  
 Lor Geotechnical Group, Inc  
 Attention: Kevin Osmun  
 6121 Quail Valley Ct  
 Riverside CA 92507  
 Tel: (909)653-1760 Fax: (909)653-1741

Service ID #: 801-021599  
 Collected by:  
 Collected on: 02/02/02  
 Sample Description: Soil  
 Project Description: 31558.2 Bluestone

Received: 02/04/02  
 Extracted: 02/14/02  
 Tested: 02/14-15/02  
 Reported: 02/19/02

## Analysis of Soil Samples <sup>(a)</sup>

Component Analyzed	Method	Unit	PQL	Analysis Result			
				3C 02-01599-1	13C 02-01599-2	20C 02-01599-3	63C 02-01599-4
<b>Organochlorine pesticides</b>							
Dilution Factor				10	10	20	1
Aldrin	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
beta-BHC	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
alpha-BHC	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
delta-BHC	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
gamma-BHC (Lindane)	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
alpha-Chlordane	8081A	µg/kg	1	< 10	< 10	< 20	ND
gamma-Chlordane	8081A	µg/kg	1	< 10	< 10	< 20	ND
4,4'-DDD	8081A	µg/kg	3	28J	24J	140	7.6
4,4'-DDE	8081A	µg/kg	3	230	150	890	53
4,4'-DDT	8081A	µg/kg	3	50	60	420	33
Dieldrin	8081A	µg/kg	3	< 30	< 30	< 60	ND
Endosulfan I	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
Endosulfan II	8081A	µg/kg	3	< 30	< 30	< 60	ND
Endosulfan sulfate	8081A	µg/kg	5	< 50	< 50	< 100	ND
Endrin	8081A	µg/kg	3	< 30	< 30	< 60	ND
Endrin aldehyde	8081A	µg/kg	3	< 30	< 30	< 60	ND
Endrin ketone	8081A	µg/kg	2	< 20	< 20	< 40	ND
Heptachlor	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
Heptachlor epoxide	8081A	µg/kg	1.7	< 17	< 17	< 34	ND
Methoxychlor	8081A	µg/kg	10	< 100	< 100	< 200	ND
Toxaphene	8081A	µg/kg	100	< 1000	< 1000	< 2000	ND

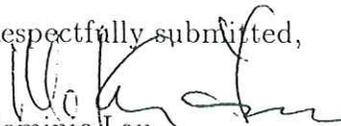
PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

<sup>(a)</sup> Additional analysis requested on 02/13/02.

Respectfully submitted,  
  
 Dominic Lau  
 Laboratory Director  
 Applied P & Ch Laboratory



**Centrum  
Analytical  
Laboratories, Inc.**

CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

Client: LOR Geotechnical  
6121 Quail Valley Court  
Riverside, CA 92507

Date Sampled: 02/02/02  
Date Received: 02/04/02  
Job Number: 19977

Project: Bluestone

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**CASE NARRATIVE**

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The following information applies to samples which were received on 02/04/02 :

The samples were received at the laboratory chilled and sample containers were intact.

The EPA 8318 analysis was subcontracted to ELAP Lab #1268. The original report is attached to, but is not part of, this report.

The EPA 8151A analysis was subcontracted to ELAP Lab #1230. The original report is attached to, but is not part of, this report.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 03/04/02.

Report approved by:



Tom Wilson  
Laboratory Director



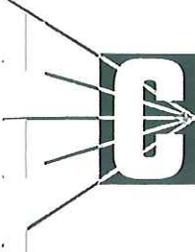
Rodolfo Vergara, Jr.  
Quality Assurance Manager

ELAP Lab# 2419

DL : Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND : Not Detected -- The compound was analyzed for but was not found to be present at or above the detection limit.

NA : Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



**Centrum  
Analytical  
Laboratories, Inc.**

CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

Client: LOR Geotechnical  
6121 Quail Valley Court  
Riverside, CA 92507

Date Sampled: 02/07/02  
Date Received: 02/07/02  
Job Number: 20005

Project: Bluestone

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**CASE NARRATIVE**

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The following information applies to samples which were received on 02/07/02 :

The samples were received at the laboratory chilled and sample containers were intact.

The Asbestos analysis was subcontracted to CAM Lab, Fontana, CA. The original report is attached to, but is not part of, this report.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 02/14/02.

Report approved by:



Tom Wilson  
Laboratory Director



Rodolfo Vergara, Jr.  
Quality Assurance Manager

ELAP Lab# 2419

DL : Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND : Not Detected -- The compound was analyzed for but was not found to be present at or above the detection limit.

NA : Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.

**QC Report - EPA 418.1 Total Recoverable Petroleum Hydrocarbons**

Matrix: Soil  
Batch #: 4181S1395

**Batch Accuracy Results**

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Reference Oil	60	96	72 - 131	Pass

Analytical Notes:

**Batch Precision Results**

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Sample Recovery mg/Kg	Sample Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Reference Oil	58	56	4%	22%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate

## QC Sample Report - EPA 8081A Pesticides

Matrix: Soil

Batch #: PESTS0413

### Batch Accuracy Results

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0165	92	32 - 127	Pass
Heptachlor	0.0165	101	34 - 111	Pass
Aldrin	0.0165	87	42 - 122	Pass
Dieldrin	0.080	91	36 - 146	Pass
Endrin	0.080	102	30 - 147	Pass
DDT	0.080	96	25 - 160	Pass

Analytical Notes:

### Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0153	0.0152	1%	25%	Pass
Heptachlor	0.0168	0.0155	8%	25%	Pass
Aldrin	0.0145	0.0156	7%	25%	Pass
Dieldrin	0.0607	0.0623	3%	25%	Pass
Endrin	0.0682	0.0629	8%	25%	Pass
DDT	0.0640	0.0639	0%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate



### QC Sample Report - EPA 8081A Pesticides

Matrix: Soil  
Batch #: PESTS0411

#### Batch Accuracy Results

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0165	101	32 - 127	Pass
Heptachlor	0.0165	103	34 - 111	Pass
Aldrin	0.0165	95	42 - 122	Pass
Dieldrin	0.080	110	36 - 146	Pass
Endrin	0.080	99	30 - 147	Pass
DDT	0.080	97	25 - 160	Pass

Analytical Notes:

#### Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0168	0.0173	3%	25%	Pass
Heptachlor	0.0172	0.0170	1%	25%	Pass
Aldrin	0.0159	0.0163	2%	25%	Pass
Dieldrin	0.0730	0.0662	10%	25%	Pass
Endrin	0.0659	0.0616	7%	25%	Pass
DDT	0.0645	0.0734	13%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate





**Centrum Analytical Laboratories, Inc.**  
 1401 Research Park Drive, Suite 100  
 Riverside, CA 92507  
 Voice: 909.779.0310 • 800.798.9336  
 Fax: 909.779.0344

**Chain of Custody Record**

Centrum Job # 19977

www.centrum-labs.com lab@centrum-labs.com

3299 Hill Street, Suite 305  
 Signal Hill, CA 90806  
 Voice: 562.498.7005  
 Fax: 562.498.8617

Page 1 of 3

Project No: 3155812		Project Name: Bluestone		Please Circle Analyses Requested										Turn-Around Time													
Project Manager: MIKEUD OSMUN		Phone: 653-1760		Fax: 653-1741		8015M: Gas only		8021B: BTEX/MIBE Only		418.1 (TRPH), 413.2, 1664		GC or GCMS Volatiles by 5035*		GCMS: 8260B, 8021B, 624, 5242		GCMS: MIBE Cont. Only, BTEX/Oxygenates Only		GCMS: 8270C, 625		8080: Pesticides, PCBs, Pesu/PCB		Metals: Title 22 (CAM), RCRA, PP		PH, TDS, TSS, Conductivity		Flashpoint, Hex Cr	
Client Name: LOR Geotech, Inc.		Address: (Report and Billing) 6121 Quail Valley Ct Riverside CA 92507		Site location		Containers: # and type		Sample matrix		Time sampled		Date sampled		Sample ID (As it should appear on report)		Date		Time sampled		Site location		Containers: # and type		Turn-Around Time			
Centrum ID (Lab use only)	Sample ID	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	8015M: Diesel, Fuel Screen, Carbon Chain	8021B: BTEX/MIBE Only	418.1 (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 5242	GCMS: MIBE Cont. Only, BTEX/Oxygenates Only	GCMS: 8270C, 625	8080: Pesticides, PCBs, Pesu/PCB	Metals: Title 22 (CAM), RCRA, PP	PH, TDS, TSS, Conductivity	Flashpoint, Hex Cr	Turn-Around Time	Remarks/Special Instructions								
1-5	28 A-E	7/20	7:47	Soil		5/G												24 Hr. RUSH*	Composite	131							
6-20	29 A-E		8:10															48 Hr. RUSH*		132							
11-85	30 A-E		8:22															Normal TAT		133							
16-40	31 A-E		8:46																	134							
21-85	32 A-E		9:20																	135							
26-30	33 A-E		9:55																	136							
31-35	34 A-E		10:20																	*FROM JOB C INNOVATIONALLY PER CLIENT 2/13/08	138						
38-40	35 A-E		10:30																		139						
43-45	36 A-E		10:59																		140						
48-50	37 A-E		11:20																								
1) Relinquished by: (Sampler's Signature)		Date: 2-4		Time: 8:47		3) Relinquished by:		Date:		Time:		To be completed by Laboratory personnel:		Samples chilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field		Custody seals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal							
2) Received by:		Date:		Time:		4) Received by:		Date:		Time:		Custody seals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal		Sample Locator No.									
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.		Date: 2/4/08		Time: 8:47		5) Relinquished by:		Date:		Time:		All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal		Sample Disposal		Sample Locator No.									
6) Received for Laboratory by: <i>Quinn [Signature]</i>		Date: 2/4/08		Time: 8:47		6) Received for Laboratory by:		Date:		Time:		All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal		Sample Disposal		Sample Locator No.									



**Centrum Analytical Laboratories, Inc.**  
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### Chain of Custody Record

Centrum Job # **19977**

3299 Hill Street, Suite 305  
 Signal Hill, CA 90806  
 Voice: 562.498.7005  
 Fax: 562.498.8617  
 www.centrum-labs.com  
 lab@centrum-labs.com

Page **3** of **3**

Project No: <b>31558.2</b>		Project Name: <b>Bluestone</b>		Please Circle Analyses Requested										Turn-Around Time															
Project Manager: <b>Mike D'Amico</b>		Phone: <b>653-1760</b>		Fax: <b>653-1741</b>		8015M: Diesel, Fuel Screen, Carbon Chain		8015M: Gas only		8021B: BTEX/MIBE Only		418.1 (TRPH), 413.2, 1664		GC or GCMS Volatiles by 5035*		GCMS: 8260B, 8021B, 624, 524.2		GCMS: MIBE Conf. Only, BTEX/Oxygens Only		GCMS: 8270C, 625		8080: Pesticides, PCBs, Pest/PCB		Metals: Title 22 (CAM), RCRA, PP		pH, TDS, TSS, Conductivity		Flashpoint, Hex Cr	
Client Name: <b>KOR Geo Technical</b>		Address: <b>6121 Quail Valley Ct Riverside CA</b>		Site location		Sample matrix		Time sampled		Date sampled		Sample ID (As it should appear on report)		Containers: # and type		Remarks/Special Instructions		Requested due date:		<input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input checked="" type="checkbox"/> Normal TAT		*Requires PRIOR approval, additional charges apply Requested due date: _____							
Centrum ID (Lab use only)	Sample ID	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	8015M: Diesel, Fuel Screen, Carbon Chain	8015M: Gas only	8021B: BTEX/MIBE Only	418.1 (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 524.2	GCMS: MIBE Conf. Only, BTEX/Oxygens Only	GCMS: 8270C, 625	8080: Pesticides, PCBs, Pest/PCB	Metals: Title 22 (CAM), RCRA, PP	pH, TDS, TSS, Conductivity	Flashpoint, Hex Cr	Turn-Around Time	Requested due date:	Remarks/Special Instructions								
101-108	48 A-E	2-20-02	2:26	Soil		57C									X							Composite	151						
106-110	49 A-E		2:41			57C									X								152						
111-115	50 A-E		2:59												X								153						
116-120	51 A-E		3:15												X								154						
121-125	52 A-E		3:39												X								155						
126-130	53 A-E		4:00												X								156						
	A-E																												
	A-E																												
	A-E																												
	A-E																												
1) Relinquished by: (Sampler's Signature) <i>Mike D'Amico</i>		Date:	Time:	3) Relinquished by:		Date:	Time:	To be completed by Laboratory personnel:		Samples chilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field		Custody seals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal		<input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Lab disposal											
2) Received by:		Date:	Time:	4) Received by:		Date:	Time:	5) Relinquished by:		Date:		Time:		6) Received for Laboratory by:		Date:		Time:		<input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input checked="" type="checkbox"/> Hand carried		Sample Locator No.							
			2-4	5:47																	A								
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.																													
Laboratory Notes:																													





**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
Project: Bluestone  
Job No.: 19977  
Matrix: Soil  
Analyst: TPW

Date Sampled: 02/02/02  
Date Received: 02/04/02  
Date Extracted: 02/06/02  
Date Analyzed: 02/09/02  
Batch Number: PESTS0410

Pesticides	Sample ID: RL	Blank mg/Kg	28 A-E mg/Kg	29 A-E mg/Kg	30 A-E mg/Kg	31 A-E mg/Kg	32 A-E mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.002	ND	0.002	ND	0.003	ND	0.002
4,4'-DDT	0.002	ND	ND	ND	ND	ND	ND
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	28 A-E	29 A-E	30 A-E	31 A-E	32 A-E
Tetrachloro-m-xylene	101	104	109	117	107	104



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19977  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/02/02  
 Date Received: 02/04/02  
 Date Extracted: 02/06/02  
 Date Analyzed: 02/09/02  
 Batch Number: PESTS0410

	Sample ID:	33 A-E	34 A-E	35 A-E	36 A-E	37 A-E	38 A-E
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	ND	ND	0.004	0.007	0.043
4,4'-DDE	0.002	0.004	0.004	0.005	0.026	0.060	0.23
4,4'-DDT	0.002	ND	0.002	ND	0.010	0.026	0.17
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	33 A-E	34 A-E	35 A-E	36 A-E	37 A-E	38 A-E
Tetrachloro-m-xylene		106	116	107	106	105	96



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
Project: Bluestone  
Job No.: 19977  
Matrix: Soil  
Analyst: TPW

Date Sampled: 02/02/02  
Date Received: 02/04/02  
Date Extracted: 02/06/02  
Date Analyzed: 02/09/02  
Batch Number: PESTS0410

	Sample ID:	39 A-E	40 A-E	41 A-E	42 A-E	43 A-E	44 A-E
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	ND	ND	0.015	0.004	0.025
4,4'-DDE	0.002	0.005	0.002	0.022	0.13	0.049	0.16
4,4'-DDT	0.002	0.002	ND	0.008	0.045	0.007	0.078
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	39 A-E	40 A-E	41 A-E	42 A-E	43 A-E	44 A-E
Tetrachloro-m-xylene		112	97	97	104	107	106

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19977  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/02/02  
 Date Received: 02/04/02  
 Date Extracted: 02/06/02  
 Date Analyzed: 02/09/02  
 Batch Number: PESTS0410

	Sample ID:	45 A-E	46 A-E	47 A-E
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND
Chlordane	0.010	ND	ND	ND
4,4'-DDD	0.002	0.034	0.007	0.016
4,4'-DDE	0.002	0.29	0.088	0.11
4,4'-DDT	0.002	0.11	0.028	0.053
Dieldrin	0.002	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND
Endrin	0.002	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND
Heptachlor	0.001	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND
Toxaphene	0.020	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	45 A-E	46 A-E	47 A-E
Tetrachloro-m-xylene		95	99	101

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19977  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/02/02  
 Date Received: 02/04/02  
 Date Extracted: 02/06/02  
 Date Analyzed: 02/10/02  
 Batch Number: PESTS0411

Pesticides	Sample ID: RL	Blank mg/Kg	48 A-E mg/Kg	49 A-E mg/Kg	50 A-E mg/Kg	51 A-E mg/Kg	52 A-E mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	ND	0.017	0.049	ND	0.014
4,4'-DDE	0.002	ND	0.008	0.17	0.34	0.019	0.13
4,4'-DDT	0.002	ND	0.003	0.066	0.16	0.004	0.034
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	48 A-E	49 A-E	50 A-E	51 A-E	52 A-E
Tetrachloro-m-xylene	79	88	88	77	92	90



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
Project: Bluestone  
Job No.: 19977  
Matrix: Soil  
Analyst: TPW

Date Sampled: 02/02/02  
Date Received: 02/04/02  
Date Extracted: 02/06/02  
Date Analyzed: 02/10/02  
Batch Number: PESTS0411

Sample ID: 53 A-E		
Pesticides	RL	mg/Kg
Aldrin	0.001	ND
Alpha-BHC	0.001	ND
Beta-BHC	0.001	ND
Delta-BHC	0.001	ND
Gamma-BHC (Lindane)	0.001	ND
Chlordane	0.010	ND
4,4'-DDD	0.002	0.019
4,4'-DDE	0.002	0.20
4,4'-DDT	0.002	0.068
Dieldrin	0.002	ND
Endosulfan I	0.001	ND
Endosulfan II	0.002	ND
Endosulfan sulfate	0.002	ND
Endrin	0.002	ND
Endrin Aldehyde	0.002	ND
Endrin Ketone	0.010	ND
Heptachlor	0.001	ND
Heptachlor Epoxide	0.001	ND
Methoxychlor	0.010	ND
Toxaphene	0.020	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID: 53 A-E	
Tetrachloro-m-xylene	90



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19982  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/04/02  
 Date Received: 02/04/02  
 Date Extracted: 02/06/02  
 Date Analyzed: 02/10/02  
 Batch Number: PESTS0411

Pesticides	Sample ID: RL	Blank mg/Kg	66 A-E mg/Kg	67 A-E mg/Kg	68 A-E mg/Kg	69 A-E mg/Kg	70 A-E mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.002	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.002	ND	ND	ND	ND	ND	ND
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	66 A-E	67 A-E	68 A-E	69 A-E	70 A-E
Tetrachloro-m-xylene	79	69	62	82	87	82



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19982  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/04/02  
 Date Received: 02/04/02  
 Date Extracted: 02/06/02  
 Date Analyzed: 02/10/02  
 Batch Number: PESTS0411

	Sample ID:	71 A-E	72 A-E	73 A-E	74 A-E	75 A-E	76 A-E
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.002	ND	0.004	0.015	0.014	ND	ND
4,4'-DDE	0.002	ND	0.023	0.092	0.13	ND	ND
4,4'-DDT	0.002	0.002	0.014	0.050	0.042	ND	ND
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	71 A-E	72 A-E	73 A-E	74 A-E	75 A-E	76 A-E
Tetrachloro-m-xylene		74	74	75	80	72	74



**QC Sample Report - EPA 8081A Pesticides**

Matrix: Soil  
Batch #: PESTS0410

**Batch Accuracy Results**

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0165	101	32 - 127	Pass
Heptachlor	0.0165	90	34 - 111	Pass
Aldrin	0.0165	104	42 - 122	Pass
Dieldrin	0.080	96	36 - 146	Pass
Endrin	0.080	90	30 - 147	Pass
DDT	0.080	99	25 - 160	Pass

Analytical Notes:

**Batch Precision Results**

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0168	0.0151	11%	25%	Pass
Heptachlor	0.0151	0.0156	3%	25%	Pass
Aldrin	0.0174	0.0153	13%	25%	Pass
Dieldrin	0.0639	0.0715	11%	25%	Pass
Endrin	0.0599	0.0594	1%	25%	Pass
DDT	0.0662	0.0580	13%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate



**QC Sample Report - EPA 8081A Pesticides**

Matrix: Soil  
Batch #: PESTS0411

**Batch Accuracy Results**

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0165	101	32 - 127	Pass
Heptachlor	0.0165	103	34 - 111	Pass
Aldrin	0.0165	95	42 - 122	Pass
Dieldrin	0.080	110	36 - 146	Pass
Endrin	0.080	99	30 - 147	Pass
DDT	0.080	97	25 - 160	Pass

Analytical Notes:

**Batch Precision Results**

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0168	0.0173	3%	25%	Pass
Heptachlor	0.0172	0.0170	1%	25%	Pass
Aldrin	0.0159	0.0163	2%	25%	Pass
Dieldrin	0.0730	0.0662	10%	25%	Pass
Endrin	0.0659	0.0616	7%	25%	Pass
DDT	0.0645	0.0734	13%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate



**QC Sample Report - EPA 8081A Pesticides**

Matrix: Soil

Batch #: PESTS0413

**Batch Accuracy Results**

Sample ID: Laboratory Control Sample

Analytical Notes:

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0165	92	32 - 127	Pass
Heptachlor	0.0165	101	34 - 111	Pass
Aldrin	0.0165	87	42 - 122	Pass
Dieldrin	0.080	91	36 - 146	Pass
Endrin	0.080	102	30 - 147	Pass
DDT	0.080	96	25 - 160	Pass

**Batch Precision Results**

MS/MSD Sample ID: Laboratory Control Sample

Analytical Notes:

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0153	0.0152	1%	25%	Pass
Heptachlor	0.0168	0.0155	8%	25%	Pass
Aldrin	0.0145	0.0156	7%	25%	Pass
Dieldrin	0.0607	0.0623	3%	25%	Pass
Endrin	0.0682	0.0629	8%	25%	Pass
DDT	0.0640	0.0639	0%	25%	Pass

MS: Matrix Spike Sample

MSD: Matrix Spike Duplicate

**Calscience**  
**Environmental**  
**Laboratories, Inc.**

February 13, 2002

Marilu Escher  
Centrum Analytical Laboratories, Inc.  
1401 Research Park Drive  
Suite 100  
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.: 02-02-0168**  
**Client Reference: Bluestone/19982**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/5/02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

  
\_\_\_\_\_  
Michael J. Crisostomo  
Quality Assurance Manager

**Calscience**  
**Environmental**  
**Laboratories, Inc.**

February 13, 2002

Marilu Escher  
Centrum Analytical Laboratories, Inc.  
1401 Research Park Drive  
Suite 100  
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.:** 02-02-0167  
**Client Reference:** Bluestone/19977

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/5/02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

  
\_\_\_\_\_  
Michael J. Crisostomo  
Quality Assurance Manager

Centrum Analytical Laboratories, Inc.  
 1401 Research Park Drive  
 Suite 100  
 Riverside, CA 92507-2111

Date Received: 02/05/02  
 Work Order No: 02-02-0167  
 Preparation: EPA 8151A  
 Method: EPA 8151A

Project: Bluestone/19977

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite 32 A-E	02-02-0167-1	02/02/02	Solid	02/06/02	02/08/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	290	1.14		ug/kg	2,4-D	ND	110	1.14		ug/kg
Dicamba	ND	11	1.14		ug/kg	2,4,5-TP (Silvex)	ND	11	1.14		ug/kg
MCPP	ND	11000	1.14		ug/kg	2,4,5-T	ND	11	1.14		ug/kg
MCPA	ND	11000	1.14		ug/kg	2,4-DB	ND	110	1.14		ug/kg
Dichlorprop	ND	110	1.14		ug/kg	Dinoseb	ND	57	1.14		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	50	30-130									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite 47 A-E	02-02-0167-2	02/02/02	Solid	02/06/02	02/09/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	250	1		ug/kg	2,4-D	ND	100	1		ug/kg
Dicamba	ND	10	1		ug/kg	2,4,5-TP (Silvex)	ND	10	1		ug/kg
MCPP	ND	10000	1		ug/kg	2,4,5-T	ND	10	1		ug/kg
MCPA	ND	10000	1		ug/kg	2,4-DB	ND	100	1		ug/kg
Dichlorprop	ND	100	1		ug/kg	Dinoseb	ND	50	1		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	69	30-130									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-033-193	N/A	Solid	02/06/02	02/08/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	250	1		ug/kg	2,4-D	ND	100	1		ug/kg
Dicamba	ND	10	1		ug/kg	2,4,5-TP (Silvex)	ND	10	1		ug/kg
MCPP	ND	10000	1		ug/kg	2,4,5-T	ND	10	1		ug/kg
MCPA	ND	10000	1		ug/kg	2,4-DB	ND	100	1		ug/kg
Dichlorprop	ND	100	1		ug/kg	Dinoseb	ND	50	1		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	91	30-130									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Quality Control - LCS/LCS Duplicate

Centrum Analytical Laboratories, Inc.  
 1401 Research Park Drive  
 Suite 100  
 Riverside, CA 92507-2111  
 Project: Bluestone/19977

Date Received: 02/05/02  
 Work Order No: 02-02-0167  
 Preparation: EPA 8151A  
 Method: EPA 8151A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-193	Solid	GC 7	02/06/02	02/08/02	020201671

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
2,4-D	91	101	30-130	10	0-30	
2,4,5-T	78	79	30-130	1	0-30	
2,4-DB	84	84	30-130	0	0-30	



Work Order Number: 02-02-0167

---

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.



Centrum Analytical Laboratories, Inc.  
 1401 Research Park Drive  
 Suite 100  
 Riverside, CA 92507-2111

Date Received: 02/05/02  
 Work Order No: 02-02-0168  
 Preparation: EPA 8151A  
 Method: EPA 8151A

Project: Bluestone/19982

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite 70 A-E	02-02-0168-1	02/04/02	Solid	02/06/02	02/09/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	320	1.29		ug/kg	2,4-D	ND	130	1.29		ug/kg
Dicamba	ND	13	1.29		ug/kg	2,4,5-TP (Silvex)	ND	13	1.29		ug/kg
MCPP	ND	13000	1.29		ug/kg	2,4,5-T	ND	13	1.29		ug/kg
MCPA	ND	13000	1.29		ug/kg	2,4-DB	ND	130	1.29		ug/kg
Dichlorprop	ND	130	1.29		ug/kg	Dinoseb	ND	65	1.29		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	52	30-130									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite 73 A-E	02-02-0168-2	02/04/02	Solid	02/06/02	02/09/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	340	1.34		ug/kg	2,4-D	ND	130	1.34		ug/kg
Dicamba	ND	13	1.34		ug/kg	2,4,5-TP (Silvex)	ND	13	1.34		ug/kg
MCPP	ND	13000	1.34		ug/kg	2,4,5-T	ND	13	1.34		ug/kg
MCPA	ND	13000	1.34		ug/kg	2,4-DB	ND	130	1.34		ug/kg
Dichlorprop	ND	130	1.34		ug/kg	Dinoseb	ND	67	1.34		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	70	30-130									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-033-193	N/A	Solid	02/06/02	02/08/02	020201671

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dalapon	ND	250	1		ug/kg	2,4-D	ND	100	1		ug/kg
Dicamba	ND	10	1		ug/kg	2,4,5-TP (Silvex)	ND	10	1		ug/kg
MCPP	ND	10000	1		ug/kg	2,4,5-T	ND	10	1		ug/kg
MCPA	ND	10000	1		ug/kg	2,4-DB	ND	100	1		ug/kg
Dichlorprop	ND	100	1		ug/kg	Dinoseb	ND	50	1		ug/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>							
		<u>Limits</u>									
2,4-Dichlorophenylacetic acid	91	30-130									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Centrum Analytical Laboratories, Inc.  
 1401 Research Park Drive  
 Suite 100  
 Riverside, CA 92507-2111  
 Project: Bluestone/19982

Date Received: 02/05/02  
 Work Order No: 02-02-0168  
 Preparation: EPA 8151A  
 Method: EPA 8151A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-193	Solid	GC 7	02/06/02	02/08/02	020201671

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
2,4-D	91	101	30-130	10	0-30	
2,4,5-T	78	79	30-130	1	0-30	
2,4-DB	84	84	30-130	0	0-30	

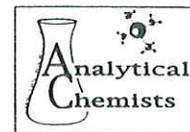


Work Order Number: 02-02-0168

---

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.





February 28, 2002

Centrum Analytical Labs  
1401 Research Park Dr  
Suite 100  
Riverside, CA 92507

Attn: Marilu Escher

Job No: 56692

DL

---

LABORATORY REPORT

---

Samples Received: Two (2) Samples  
Date Received: 02/05/2002  
Purchase Order No: 19982

The samples were analyzed as follows:

<u>Analysis</u>	<u>Page</u>
Carbamate and Urea Pesticides by HPLC	2 - 6

West Coast Analytical Services, Inc.

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D.V. Northington, Ph.D.  
Quality Assurance Officer

---

  
Charles Jacks, Ph.D.  
Senior Staff Chemist

---

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February 28, 2002

Centrum Analytical Labs  
1401 Research Park Dr  
Suite 100  
Riverside, CA 92507

Attn: Marilu Escher

Job No: 56693

DL

---

LABORATORY REPORT

---

Samples Received: Two (2) Samples

Date Received: 02/05/2002

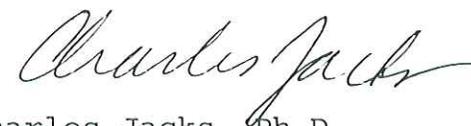
Purchase Order No: 19977

The samples were analyzed as follows:

<u>Analysis</u>	<u>Page</u>
Carbamate and Urea Pesticides by HPLC	2 - 6

---

  
D.J. Northington, Ph.D.  
Quality Assurance Officer

  
Charles Jacks, Ph.D.  
Senior Staff Chemist

---

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West Coast Analytical Services, Inc.

## WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu Escher

Job No: 56693  
February 28, 2002

Reference: EPA 8318

## Carbamate and Urea Pesticides by HPLC

Sample ID: Composite 32A-E

## Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	50	10
Linuron	ND	10
Monuron	10	10
Neburon	ND	10
Propham	140	20
Siduron	ND	20

## Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	51	1
Carbaryl	1	1
Carbofuran	14	1
3-Hydroxycarbofuran	52	1
Methiocarb	555	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

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WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
 Attn: Marilu Escher

Job No: 56693  
 February 28, 2002

Carbamate and Urea Pesticides by HPLC

Sample ID: Composite 47A-E

Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	10	10
Linuron	ND	10
Monuron	20	10
Neburon	ND	10
Propham	300	20
Siduron	ND	20

Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	96	1
Carbaryl	1	1
Carbofuran	24	1
3-Hydroxycarbofuran	16	1
Methiocarb	597	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

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## WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu EscherJob No: 56693  
February 28, 2002

## Carbamate and Urea Pesticides by HPLC

Sample ID: Method Blank

## Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	ND	10
Linuron	ND	10
Monuron	ND	10
Neburon	ND	10
Propham	ND	20
Siduron	ND	20

## Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	ND	1
Carbaryl	ND	1
Carbofuran	ND	1
3-Hydroxycarbofuran	ND	1
Methiocarb	ND	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Date Analyzed: 02-18-02

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## WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu Escher

Job No: 56693  
February 28, 2002

## Quality Control Summary

Sample: Laboratory Fortified Blank  
Units: ppb ( $\mu\text{g}/\text{kg}$ )

<u>Analyte</u>	<u>Sample Result</u>	<u>Amount Spiked</u>	<u>LFB1 Result</u>	<u>%Rec</u>	<u>LFB2 Result</u>	<u>%Rec</u>	<u>RPD</u>
Aldicarb	ND	50	44	88	44	88	0
Aldicarb Sulfone	ND	50	33	66	33	66	0
Aldicarb Sulfoxide	ND	50	46	92	46	92	0
Chlorpropham/ Barban	ND	1000	990	99	1000	100	1
Baygon (Propoxur)	ND	50	44	88	44	88	0
Carbaryl	ND	50	40	80	39	78	3
Carbofuran	ND	50	42	84	43	86	2
Devrinol	ND	1000	880	88	890	89	1
Diuron	ND	200	190	95	190	95	0
Fluometuron	ND	200	190	95	190	95	0
3-Hydroxycarbofuran	ND	50	46	92	47	94	2
Linuron	ND	200	190	95	190	95	0
Methomyl	ND	50	41	82	43	86	5
Methiocarb	ND	50	41	82	41	82	0
Monuron	ND	200	190	95	190	95	0
Neburon	ND	200	200	100	200	100	0
Oxamyl	ND	50	51	102	52	104	2
Propham	ND	1000	820	82	870	87	6
Siduron	ND	1000	940	94	960	96	2

Limits have not been established.

Date Extracted: 02-07-02

Date Analyzed: 02-18-02

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## WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu Escher

Job No: 56693  
February 28, 2002

Sample: Batch QC  
Units: ppb ( $\mu\text{g}/\text{kg}$ )

<u>Analyte</u>	<u>Sample Result</u>	<u>Amount Spiked</u>	<u>MS Result</u>	<u>%Rec</u>	<u>MSD Result</u>	<u>%Rec</u>	<u>RPD</u>
Aldicarb	ND	50	44	88	39	78	12
Aldicarb Sulfone	ND	50	40	80	37	74	8
Aldicarb Sulfoxide	ND	50	44	88	42	84	5
Chlorpropham/ Barban	ND	1000	840	84	850	85	1
Baygon (Propoxur)	72	50	51	N/A	63	N/A	21
Carbaryl	3	50	40	74	37	68	8
Carbofuran	ND	50	43	86	38	76	12
Devrinol	ND	1000	840	84	790	79	6
Diuron	ND	200	190	95	180	90	5
Fluometuron	ND	200	180	90	160	80	12
3-Hydroxycarbofuran	23	50	55	64	52	58	6
Linuron	ND	200	180	90	160	80	12
Methomyl	ND	50	45	90	42	84	7
Methiocarb	221	50	197	N/A	128	N/A	42
Monuron	ND	200	190	95	170	85	11
Neburon	ND	200	170	85	160	80	6
Oxamyl	ND	50	53	106	50	100	6
Propham	ND	1000	890	89	790	79	12
Siduron	20	1000	900	88	850	83	6

N/A - Not Applicable; Spike less than sample amount.

Limits have not been established.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

This report is to be reproduced in its entirety.

## WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu Escher

Job No: 56692  
February 28, 2002

Reference: EPA 8318

## Carbamate and Urea Pesticides by HPLC

Sample ID: Composite 70A-E

## Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	ND	10
Linuron	ND	10
Monuron	ND	10
Neburon	ND	10
Propham	ND	20
Siduron	20	20

## Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	72	1
Carbaryl	3	1
Carbofuran	ND	1
3-Hydroxycarbofuran	23	1
Methiocarb	221	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

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WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
 Attn: Marilu Escher

Job No: 56692  
 February 28, 2002

Carbamate and Urea Pesticides by HPLC

Sample ID: Composite 73A-E

Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	ND	10
Linuron	ND	10
Monuron	ND	10
Neburon	ND	10
Propham	ND	20
Siduron	ND	20

Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	21	1
Carbaryl	ND	1
Carbofuran	4	1
3-Hydroxycarbofuran	3	1
Methiocarb	115	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

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Centrum Analytical Labs  
 Attn: Marilu Escher

Job No: 56692  
 February 28, 2002

## Carbamate and Urea Pesticides by HPLC

Sample ID: Method Blank

## Urea Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Chlorpropham/Barban *	ND	20
Devrinol	ND	20
Fluometuron	ND	10
Diuron	ND	10
Linuron	ND	10
Monuron	ND	10
Neburon	ND	10
Propham	ND	20
Siduron	ND	20

## Carbamate Pesticides

<u>Analyte</u>	<u>Parts Per Billion (<math>\mu\text{g}/\text{kg}</math>)</u>	<u>Detection Limit</u>
Aldicarb	ND	1
Aldicarb Sulfone	ND	1
Aldicarb Sulfoxide	ND	1
Baygon (Propoxur)	ND	1
Carbaryl	ND	1
Carbofuran	ND	1
3-Hydroxycarbofuran	ND	1
Methiocarb	ND	1
Methomyl	ND	1
Oxamyl	ND	1

\* These compounds coelute

\*\* Results were obtained based on a single analytical column and unspecific detector, therefore, they are subject to interference.

Date Extracted: 02-07-02

Date Analyzed: 02-18-02

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WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
 Attn: Marilu Escher

Job No: 56692  
 February 28, 2002

Quality Control Summary

Sample: Laboratory Fortified Blank  
 Units: ppb ( $\mu\text{g}/\text{kg}$ )

<u>Analyte</u>	<u>Sample Result</u>	<u>Amount Spiked</u>	<u>LFB1 Result</u>	<u>%Rec</u>	<u>LFB2 Result</u>	<u>%Rec</u>	<u>RPD</u>
Aldicarb	ND	50	44	88	44	88	0
Aldicarb Sulfone	ND	50	33	66	33	66	0
Aldicarb Sulfoxide	ND	50	46	92	46	92	0
Chlorpropham/ Barban	ND	1000	990	99	1000	100	1
Baygon (Propoxur)	ND	50	44	88	44	88	0
Carbaryl	ND	50	40	80	39	78	3
Carbofuran	ND	50	42	84	43	86	2
Devrinol	ND	1000	880	88	890	89	1
Diuron	ND	200	190	95	190	95	0
Fluometuron	ND	200	190	95	190	95	0
3-Hydroxycarbofuran	ND	50	46	92	47	94	2
Linuron	ND	200	190	95	190	95	0
Methomyl	ND	50	41	82	43	86	5
Methiocarb	ND	50	41	82	41	82	0
Monuron	ND	200	190	95	190	95	0
Neburon	ND	200	200	100	200	100	0
Oxamyl	ND	50	51	102	52	104	2
Propham	ND	1000	820	82	870	87	6
Siduron	ND	1000	940	94	960	96	2

Limits have not been established.

Date Extracted: 02-07-02

Date Analyzed: 02-18-02

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WEST COAST ANALYTICAL SERVICE, INC.

Centrum Analytical Labs  
Attn: Marilu Escher

Job No: 56692  
February 28, 2002

Sample: Composite 70A-E  
Units: ppb ( $\mu\text{g}/\text{kg}$ )

<u>Analyte</u>	<u>Sample Result</u>	<u>Amount Spiked</u>	<u>MS Result</u>	<u>%Rec</u>	<u>MSD Result</u>	<u>%Rec</u>	<u>RPD</u>
Aldicarb	ND	50	44	88	39	78	12
Aldicarb Sulfone	ND	50	40	80	37	74	8
Aldicarb Sulfoxide	ND	50	44	88	42	84	5
Chlorpropham/ Barban	ND	1000	840	84	850	85	1
Baygon (Propoxur)	72	50	51	N/A	63	N/A	21
Carbaryl	3	50	40	74	37	68	8
Carbofuran	ND	50	43	86	38	76	12
Devrinol	ND	1000	840	84	790	79	6
Diuron	ND	200	190	95	180	90	5
Fluometuron	ND	200	180	90	160	80	12
3-Hydroxycarbofuran	23	50	55	64	52	58	6
Linuron	ND	200	180	90	160	80	12
Methomyl	ND	50	45	90	42	84	7
Methiocarb	221	50	197	N/A	128	N/A	42
Monuron	ND	200	190	95	170	85	11
Neburon	ND	200	170	85	160	80	6
Oxamyl	ND	50	53	106	50	100	6
Propham	ND	1000	890	89	790	79	12
Siduron	20	1000	900	88	850	83	6

N/A - Not Applicable; Spike less than sample amount.

Limits have not been established.

Date Extracted: 02-07-02

Dates Analyzed: 02-18-02 to 02-19-02

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**Centrum Analytical Laboratories, Inc.**  
 1401 Research Park Drive, Suite 100  
 Riverside, CA 92507  
 Voice: 909.779.0310 • 800.798.9336  
 Fax: 909.779.0344

**Chain of Custody Record**

Centrum Job # \_\_\_\_\_

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3299 Hill Street, Suite 305  
 Signal Hill, CA 90806  
 Voice: 562.498.7005  
 Fax: 562.498.8617

Page \_\_\_\_\_ of \_\_\_\_\_

Project No: <b>31558.2</b>		Project Name: <b>BLUETONE</b>		Please Circle Analyses Requested		Turn-Around Time <input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input type="checkbox"/> Normal TAT *Requires PRIOR approval, additional charges apply Requested due date: _____	
Project Manager: <b>M. Kevin Osmon</b>		Phone: <b>653-1760</b>		Metals: Title 22 (CAM), RCRA, PP		Remarks/Special Instructions <b>RUN JARC INDIVIDUAL</b>	
Client Name: <b>LOR GEOTECHNICAL</b>		Address: <b>621 QUAIL VALLEY CT RIVERSIDE CA 92507</b>		8080: Pesticides, PCBs, Pest/PCB			
Centrum ID (Lab use only)		Sample ID (As it should appear on report)		GCMS: 8270C, 625			
Date sampled		Time sampled		GCMS: MIBE Cont. Only, BTEX/Oxygenates Only			
3-2-02		10:20		GCMS: 8260B, 8021B, 624, 524.2			
44 A-E		1:31		GC or GCMS Volatiles by 5035*			
73 A-E		11:30		418.1 (TRPH), 413.2, 1664			
68 A-E		2:42		8021B: BTEX/MIBE Only			
TAKE JARC FROM EACH COMPOSITE OF 34, 44, 68 & 73 AND RUN THE INDIVIDUAL SAMPLE '8081A'				8015M: Gas only			
Date		Time		8015M: Diesel, Fuel Screen, Carbon Chain			
Date		Time		Flashpoint, Hex Cr			
Date		Time		PH, TDS, TSS, Conductivity			
Date		Time		To be completed by Laboratory personnel: Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field Custody seals? <input type="checkbox"/> Yes <input type="checkbox"/> No All sample containers intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input type="checkbox"/> Hand carried		Sample Disposal <input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input type="checkbox"/> Lab disposal	
Date		Time		3) Relinquished by:		Sample Locator No.	
Date		Time		4) Received by:			
Date		Time		5) Relinquished by:			
Date		Time		6) Received for Laboratory by:			
Laboratory Notes: The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.							

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19982  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/04/02  
 Date Received: 02/04/02  
 Date Extracted: 02/14/02  
 Date Analyzed: 02/16/02  
 Batch Number: PESTS0413

	Sample ID:	Blank	68 C	73 C
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND
Chlordane	0.010	ND	ND	ND
4,4'-DDD	0.002	ND	0.002	0.012
4,4'-DDE	0.002	ND	ND	0.021
4,4'-DDT	0.002	ND	0.093	0.038
Dieldrin	0.002	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND
Endrin	0.002	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND
Heptachlor	0.001	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND
Toxaphene	0.020	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	Blank	68 C	73 C
Tetrachloro-m-xylene		128	111	123

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19977  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/02/02  
 Date Received: 02/04/02  
 Date Extracted: 02/14/02  
 Date Analyzed: 02/16/02  
 Batch Number: PESTS0413

Sample ID:	Blank	34 C	44 C
Pesticides	RL	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND
Alpha-BHC	0.001	ND	ND
Beta-BHC	0.001	ND	ND
Delta-BHC	0.001	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND
Chlordane	0.010	ND	ND
4,4'-DDD	0.002	ND	0.003
4,4'-DDE	0.002	ND	0.038
4,4'-DDT	0.002	ND	0.004
Dieldrin	0.002	ND	ND
Endosulfan I	0.001	ND	ND
Endosulfan II	0.002	ND	ND
Endosulfan sulfate	0.002	ND	ND
Endrin	0.002	ND	ND
Endrin Aldehyde	0.002	ND	ND
Endrin Ketone	0.010	ND	ND
Heptachlor	0.001	ND	ND
Heptachlor Epoxide	0.001	ND	ND
Methoxychlor	0.010	ND	ND
Toxaphene	0.020	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	34 C	44 C
Tetrachloro-m-xylene	128	122	117

## **APPENDIX F**

### **Additional Pesticide Laboratory Test Data**



**Centrum  
Analytical  
Laboratories, Inc.**

CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

Client: LOR Geotechnical  
6121 Quail Valley Court  
Riverside, CA 92507

Date Sampled: 03/13/02  
Date Received: 03/13/02  
Job Number: 20207

Project: Bluestone

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**CASE NARRATIVE**

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The following information applies to samples which were received on 03/13/02 :

The samples were received at the laboratory chilled and sample containers were intact.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 03/21/02.

Report approved by:

Tom Wilson  
Laboratory Director

Rodolfo Vergara, Jr.  
Quality Assurance Manager

ELAP Lab# 2419

DL : Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND : Not Detected -- The compound was analyzed for but was not found to be present at or above the detection limit.

NA : Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



**QC Sample Report - EPA 8081A Pesticides**

Matrix: Soil  
Batch #: PESTS0425

**Batch Accuracy Results**

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration mg/Kg	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
Lindane	0.0033	80	32 - 127	Pass
Heptachlor	0.0033	98	34 - 111	Pass
Aldrin	0.0033	89	42 - 122	Pass
Dieldrin	0.016	102	36 - 146	Pass
Endrin	0.016	88	30 - 147	Pass
DDT	0.016	103	25 - 160	Pass

Analytical Notes:

**Batch Precision Results**

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/Kg	Spike Duplicate Recovery mg/Kg	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lindane	0.0027	0.0029	7%	25%	Pass
Heptachlor	0.0033	0.0029	13%	25%	Pass
Aldrin	0.0030	0.0030	0%	25%	Pass
Dieldrin	0.0135	0.0148	9%	25%	Pass
Endrin	0.0117	0.0138	16%	25%	Pass
DDT	0.0138	0.0136	1%	25%	Pass

Analytical Notes:

MS: Matrix Spike Sample  
MSD: Matrix Spike Duplicate



**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
Project: Bluestone  
Job No.: 20207  
Matrix: Soil  
Analyst: TPW

Date Sampled: 03/13/02  
Date Received: 03/13/02  
Date Extracted: 03/14/02  
Date Analyzed: 03/14-18/02  
Batch Number: PESTS0425

Sample ID:	Blank	S-6	S-8	S-9	S-10	S-14	
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Aldrin	0.001	ND	ND	ND	ND	ND	
Alpha-BHC	0.001	ND	ND	ND	ND	ND	
Beta-BHC	0.001	ND	ND	ND	ND	ND	
Delta-BHC	0.001	ND	ND	ND	ND	ND	
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND	ND	
Chlordane	0.010	ND	ND	ND	ND	ND	
4,4'-DDD	0.002	ND	0.066	0.046	0.006	0.15	0.042
4,4'-DDE	0.002	ND	0.24	0.33	0.034	0.67	0.40
4,4'-DDT	0.002	ND	0.21	0.18	0.024	0.51	0.16
Dieldrin	0.002	ND	ND	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	S-6	S-8	S-9	S-10	S-14
Tetrachloro-m-xylene	117	124	117	117	114	113

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 20207  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 03/13/02  
 Date Received: 03/13/02  
 Date Extracted: 03/14/02  
 Date Analyzed: 03/14-18/02  
 Batch Number: PESTS0425

	Sample ID:	S-15	S-19	S-21	S-50
Pesticides	RL	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aldrin	0.001	ND	ND	ND	ND
Alpha-BHC	0.001	ND	ND	ND	ND
Beta-BHC	0.001	ND	ND	ND	ND
Delta-BHC	0.001	ND	ND	ND	ND
Gamma-BHC (Lindane)	0.001	ND	ND	ND	ND
Chlordane	0.010	ND	ND	ND	ND
4,4'-DDD	0.002	0.043	0.016	0.012	0.018
4,4'-DDE	0.002	0.40	0.16	0.048	0.094
4,4'-DDT	0.002	0.19	0.063	0.022	0.042
Dieldrin	0.002	ND	ND	ND	ND
Endosulfan I	0.001	ND	ND	ND	ND
Endosulfan II	0.002	ND	ND	ND	ND
Endosulfan sulfate	0.002	ND	ND	ND	ND
Endrin	0.002	ND	ND	ND	ND
Endrin Aldehyde	0.002	ND	ND	ND	ND
Endrin Ketone	0.010	ND	ND	ND	ND
Heptachlor	0.001	ND	ND	ND	ND
Heptachlor Epoxide	0.001	ND	ND	ND	ND
Methoxychlor	0.010	ND	ND	ND	ND
Toxaphene	0.020	ND	ND	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

	Sample ID:	S-15	S-19	S-21	S-50
Tetrachloro-m-xylene		115	114	123	113



**Centrum Analytical Laboratories, Inc.**  
 1401 Research Park Drive, Suite 100  
 Riverside, CA 92507  
 Voice: 909.779.0310 • 800.798.9336  
 Fax: 909.779.0344

**Chain of Custody Record**

3299 Hill Street, Suite 305  
 Signal Hill, CA 90806  
 Voice: 562.498.7005  
 Fax: 562.498.8617

www.centrum-labs.com

lab@centrum-labs.com

Centrum Job # 20207

Page 1 of 1

Project No: 31558.2		Project Name: 13 Lucerne		Please Circle Analyses Requested		
Project Manager: M. Kevin Osmon		Phone: 653-1760		8015M: Diesel, Fuel Screen, Carbon Chain		
Client Name: LOR Ciferi-Technique		Address: 6121 QUAIL VALLEY CT RIVERSIDE CA 92507		8015M: Gas only		
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type
1	S-6	3-13	8:25	Soil	AREA 6	1/G
2	S-8	11	8:35	}	AREA 8	}
3	S-9	11	8:43		AREA 9	
4	S-10	11	8:48	}	AREA 10	}
5	S-14	11	9:00		AREA 11	
6	S-15	11	9:05	}	AREA 15	}
7	S-19	11	9:17		AREA 19	
8	S-21	11	9:21	}	AREA 21	}
9	S-50	11	9:22		AREA 50	
1) Relinquished by: (Sampler's Signature)		Date: 3-13	Time: 10:04	3) Relinquished by:		
2) Received by:		Date:	Time:	4) Received by:		
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.		5) Relinquished by:				
Laboratory Notes:		6) Received for Laboratory by: <i>Pennington</i>				
GC or GCMS Volatiles by 5035*		8021B: BTEX/MIBE Only		8015M: Diesel, Fuel Screen, Carbon Chain		
GCMS: 8260B, 8021B, 624, 524.2		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
GCMS: MIBE Conf. Only, BTEX/Oxygenates Only		8021B: BTEX/MIBE Only		8015M: Diesel, Fuel Screen, Carbon Chain		
GCMS: 8270C, 625		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
8080: Pesticides, PCBs, Pes/PCB		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
8051A Not PCB's		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Metals: Title 22 (CAM), RCRA, PP		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
PH, TDS, TSS, Conductivity		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Flashpoint, Hex Cr		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Turn-Around Time		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
<input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input type="checkbox"/> Normal TAT		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
* Requires PRIOR approval, additional charges apply. Requested due date: 3-18-02		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Remarks/Special Instructions		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Sample Disposal		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
<input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Lab disposal		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
To be completed by Laboratory personnel:		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Samples chilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Custody seals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
<input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input checked="" type="checkbox"/> Hand carried		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Date: 3/13		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Time: 10:04		8015M: Gas only		418.1 (TRPH), 413.2, 1664		
Sample Locator No. (K)		8015M: Gas only		418.1 (TRPH), 413.2, 1664		

## **APPENDIX G**

### **Miscellaneous Laboratory Test Data**



**Centrum Analytical Laboratories, Inc.**  
 1401 Research Park Drive, Suite 100  
 Riverside, CA 92507  
 Voice: 909.779.0310 • 800.798.9336  
 Fax: 909.779.0344

**Chain of Custody Record**

3299 Hill Street, Suite 305  
 Signal Hill, CA 90806  
 Voice: 562.498.7005  
 Fax: 562.498.8617

www.centrum-labs.com lab@centrum-labs.com

Centrum Job # 19995

Page 1 of 1

Project No:	Project Name:	Site location	Containers: # and type	8015M: Diesel, Fuel Screen, Carbon Chain	8015M: Gas only	8021B: BTEX/MIBE Only	418: (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 524.2	GCMS: MIBE Conf. Only, BTEX/Oxygenates Only	GCMS: 8270C, 625	8080: Pesticides, PCBs, Pest/PCB	Metals: Title 22 (CAM), RCRA, PP	PH, TDS, TSS, Conductivity	Flashpoint, Hex Cr	Turn-Around Time
31558.2	Blawie Stone															<input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input checked="" type="checkbox"/> Normal TAT *Requires PRIOR approval, additional charges apply Requested due date:
	M Kevin Dineen															
	FWD. Cooperation															
1	Shed Powder	2-6-02	11:35	Soil	1/G											
2	Shed Floor		11:41		1/G											
3	W Side Smudge		2:20		1/G											
4	E Side Smudge		2:30		1/G											
1) Relinquished by: [Signature] Date: _____ Time: _____ 2) Received by: _____ Date: _____ Time: _____ 3) Relinquished by: _____ Date: _____ Time: _____ 4) Received by: _____ Date: _____ Time: _____ 5) Relinquished by: _____ Date: _____ Time: _____ 6) Received for Laboratory by: _____ Date: _____ Time: _____ The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.																
Laboratory Notes: _____																
To be completed by Laboratory personnel: Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> From Field Custody seals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No All sample containers intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input checked="" type="checkbox"/> Hand carried																
Sample Disposal <input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Lab disposal																
Sample Locator No. B																

**EPA 8081A - Organochlorine Pesticides**

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19995  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/06/02  
 Date Received: 02/06/02  
 Date Extracted: 02/13/02  
 Date Analyzed: 02/14-18/02  
 Batch Number: PESTS0412

Pesticides	Sample ID:	Blank	Shed Floor
	RL	mg/Kg	mg/Kg
Aldrin	3.0	ND	ND
Alpha-BHC	3.0	ND	ND
Beta-BHC	3.0	ND	ND
Delta-BHC	3.0	ND	ND
Gamma-BHC (Lindane)	3.0	ND	ND
Chlordane	30.0	ND	78
4,4'-DDD	6.0	ND	8.9
4,4'-DDE	6.0	ND	ND
4,4'-DDT	6.0	ND	45
Dieldrin	6.0	ND	ND
Endosulfan I	3.0	ND	ND
Endosulfan II	6.0	ND	ND
Endosulfan sulfate	6.0	ND	ND
Endrin	6.0	ND	2.4
Endrin Aldehyde	6.0	ND	ND
Endrin Ketone	30.0	ND	ND
Heptachlor	3.0	ND	ND
Heptachlor Epoxide	3.0	ND	ND
Methoxychlor	30.0	ND	ND
Toxaphene	80.0	ND	ND

**Surrogates (% recovery) Limits: 50 - 150**

Sample ID:	Blank	Shed Floor
Tetrachloro-m-xylene	126	440*

\*See Case Narrative regarding surrogate recoveries outside of limits.



# Metals

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No: 19995  
 Matrix: Soil  
 Analyst: TLR/GF

Date Sampled: 02/06/02  
 Date Received: 02/06/02  
 Date Digested: 02/07/02  
 Date Analyzed: 02/07/02  
 Batch Number: 6010S2314  
 7000S0575

Element	Method #	Sample ID:	Blank	Shed Powder
		RL	mg/Kg	mg/Kg
Antimony	6010B	2.0	ND	ND
Arsenic	6010B	1.0	ND	2.4
Barium	6010B	0.50	ND	25
Beryllium	6010B	0.50	ND	0.77
Cadmium	6010B	0.50	ND	0.94
Chromium	6010B	0.50	ND	12
Cobalt	6010B	0.50	ND	3.3
Copper	6010B	0.50	ND	20
Lead	6010B	1.0	ND	1.5
Mercury	7471	0.10	ND	ND
Molybdenum	6010B	1.0	ND	ND
Nickel	6010B	1.0	ND	6.6
Selenium	6010B	5.0	ND	ND
Silver	6010B	2.0	ND	ND
Thallium	6010B	5.0	ND	ND
Vanadium	6010B	0.50	ND	15
Zinc	6010B	10	ND	110

# EPA 8081A - Organochlorine Pesticides

Client: LOR Geotechnical  
 Project: Bluestone  
 Job No.: 19995  
 Matrix: Soil  
 Analyst: TPW

Date Sampled: 02/06/02  
 Date Received: 02/06/02  
 Date Extracted: 02/13/02  
 Date Analyzed: 02/14-18/02  
 Batch Number: PESTS0412

Pesticides	Sample ID: RL	Shed Powder mg/Kg
Aldrin	30	ND
Alpha-BHC	30	ND
Beta-BHC	30	ND
Delta-BHC	30	ND
Gamma-BHC (Lindane)	30	ND
Chlordane	300	80,000**
4,4'-DDD	60	ND
4,4'-DDE	60	ND
4,4'-DDT	60	ND
Dieldrin	60	ND
Endosulfan I	30	ND
Endosulfan II	60	ND
Endosulfan sulfate	60	ND
Endrin	60	ND
Endrin Aldehyde	60	ND
Endrin Ketone	300	ND
Heptachlor	30	ND
Heptachlor Epoxide	30	ND
Methoxychlor	300	ND
Toxaphene	600	ND

\*This concentration is an estimated value.

Surrogates (% recovery) Limits: 50 - 150

Sample ID:	Shed Powder
Tetrachloro-m-xylene	128

**APPENDIX H**

**County Health Department Letter**



COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY  
**DEPARTMENT OF ENVIRONMENTAL HEALTH**

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**Release of Records Response**

Tuesday, March 05, 2002

M. Kevin Osmun  
LOR Geotechnical Group  
6121 Quail Valley Ct  
Riverside, CA 92507

**Request No: 1625**

**CompanyNo: 511**

Your request dated 2/12/2002 concerning **Hazardous Materials Management Records** has been received and a file search has been conducted. The appropriate action has been taken.

Records were NOT found for the following sites(s):  
4161 Eagle Glen Parkway Corona, CA.

Please direct questions or correspondence to:

Address: Department of Environmental Health  
Hazardous Materials Management Division  
4065 County Circle Drive Room 123  
P.O. Box 7489  
Riverside, CA 92513-7489  
Attention: Suzanne Cauffiel, Records Clerk  
Telephone: (909) 358-5055