



**PHASE I ENVIRONMENTAL  
SITE ASSESSMENT**

**SALTON SEA UNIT 6**

**IMPERIAL COUNTY, CALIFORNIA**

PREPARED FOR:

**MIDAMERICA ENERGY  
302 SOUTH 36<sup>TH</sup> STREET, SUITE 400  
OMAHA, NE 68131-3845**

URS PROJECT NO. 58-00161046.03

**JANUARY 29, 2002**

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**SALTON SEA UNIT 6  
IMPERIAL COUNTY, CALIFORNIA**

*Prepared for:*

MidAmerica Energy  
302 South 36<sup>th</sup> Street, Suite 400  
Omaha, NE 68131-3845

URS Project No. 58-00161046.03-01400

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Veryl Wittig, Task Manager

January 29, 2002

**URS**

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January 29, 2002

Mr. Jeff Hansen  
MidAmerica Energy  
302 South 36<sup>th</sup> Street, Suite 400  
Omaha, NE 68131-3845

Subject: Phase I Environmental Site Assessment  
Salton Sea Unit 6  
Imperial County, California  
URS Project Number 58-0016046.03-01400

Dear Mr. Hansen:

Transmitted with this letter are two copies of our report titled "Phase I Environmental Site Assessment" for the property identified as Imperial County Assessor's Parcel No. 020-110-08, located in the southwest quarter of Section 33, Range 13 East, Township 11 South, and bounded by McKendry, Boyle, Peterson and Severe Roads in Imperial County, California.

This report was prepared by Mr. Veryl Wittig, and reviewed by Ms. Katy Shirley. We trust that this report provides you with the information you require at this time. Should you have any questions regarding the information presented in this report or need further assistance, please contact us. Thank you for the opportunity to be of assistance on this project.

Sincerely,

URS CORPORATION

Veryl Wittig  
Task Manager

VW/KH:ml

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This report presents the results of our Phase I Environmental Site Assessment (Phase I ESA) conducted for the 160-acre property identified as Imperial County Assessor's Parcel No. 020-110-08, located in the southwest quarter of Section 33, Range 13 East, Township 11 South, and bounded by McKendry, Boyle, Peterson and Severe Roads in Imperial County, California. (subject Property, Figure 1). The subject Property consists of cultivated land that is currently planted with broccoli. The subject Property is currently owned by Imperial Magma, and is the site for the proposed Salton Sea Unit 6, a 180 megawatt (MW) geothermal electricity generating facility. URS understands that Salton Sea Unit 6 will occupy approximately 45 acres of the 160-acre subject Property.

## **1.1 PURPOSE**

The purpose of this Phase I ESA report was to assess potential environmental impacts and to identify recognized environmental conditions that may have occurred at the subject Property. By definition under ASTM Standard Practice for Environmental Site Assessments: Phase I Site Assessment Process E1527-00, the term "recognized environmental conditions" means: the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. However, the term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and conditions that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

The scope of services described in ASTM E1527-00 is an outline to conduct the appropriate inquiry consistent with good commercial or customary practice to identify recognized environmental conditions, and is intended to permit the user to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability.

## **1.2 DETAILED SCOPE OF SERVICES**

The scope of services was performed at the request of Mr. Jeff Hansen of MidAmerica Energy to meet the California Energy Commission's (CEC's) requirements for the Waste Management Section of the Application for Certification (AFC) for the proposed Salton Sea Unit 6 project. The format and content of this Phase I ESA is in accordance with ASTM E1527-00. This assessment was accomplished by, and limited to, a site reconnaissance, a drive-by survey of the site vicinity, and a review of available pertinent documentation available through our standard resources regarding land use activities for indications of the manufacture, generation, use, storage and/or disposal of hazardous substances at the site. The URS site reconnaissance included a walking and driving tour of areas at the subject Property that were accessible and a drive-by survey of surrounding and adjacent properties. To meet the objective of this assessment, URS completed the following tasks:

- Performed a reconnaissance survey of the subject Property to make visual observations of existing site conditions and activities, and a drive-by survey of the area within ¼-mile of the site to observe types of general land use within the search area. Photographs taken during the site reconnaissance are provided in Appendix A.
- Conducted interviews with CalEnergy personnel to evaluate the site history, current operations, and maintenance procedures.
- Reviewed federal, state, and local database lists of known or potential hazardous waste sites or landfills, and sites currently under investigation for environmental violations. The agency lists and search radii, provided by VISTA Information Solutions (VISTA), are provided in Appendix B.
- Conducted inquiries in person, by telephone, or in writing to the appropriate regulatory agencies for information regarding environmental permits, violations or incidents, and/or the status of enforcement actions at the subject Property.
- Prepared this report describing the research performed and presenting URS's findings and professional opinions regarding the potential for adverse environmental impacts to the subject Property.

Surveys for radon, asbestos, lead-based paint, and lead in drinking water were not performed.

### **1.3 LIMITATIONS AND EXCEPTIONS**

The conclusions presented in this report are professional opinions based solely upon indicated data described in this report, visual observations of the subject Property and vicinity, and our interpretation of the available historical information and documents reviewed, as described in this report. The conclusions are intended exclusively for the purpose outlined herein and the site location and project indicated. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

It should be recognized that this study was not intended to be a definitive investigation of contamination at the subject Property and the recommendations provided are not necessarily inclusive of all the possible conditions. Given that the scope of services for this investigation was limited, it is possible that currently unrecognized contamination might exist at the site.

Opinions and recommendations presented herein apply to the site conditions existing at the time of our investigations and cannot necessarily apply to site changes of which URS is not aware and has not had the opportunity to evaluate. Changes in the conditions of this property may occur with time due to natural processes or the works of man on the subject site or adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

**1.4 USER RELIANCE**

It is URS' understanding that this report is for the use of MidAmerica Energy and its assignees to help assess the environmental condition of the subject Property. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

**2.1 LOCATION**

The approximately 160 acre subject Property is identified as Imperial County Assessor's Parcel No. 020-110-08, and comprises the southwest quarter of Section 33, Range 13 East, Township 11 South, and is bound by McKendry, Boyle, Peterson and Severe Roads in Imperial County, California (Figures 1 and 2).

**2.2 SITE RECONNAISSANCE**

On January 11, 2002, Mr. Veryl Wittig of URS conducted a reconnaissance of the subject Property. The reconnaissance consisted of the observation and documentation of existing site conditions and nature of the neighboring property development within ¼-mile of the site. Photographs of the site taken during the site reconnaissance are provided in Appendix A.

The subject Property currently consists primarily of agricultural land (Photographs 1 through 5), with relatively small areas in the southwest and southeast portions of the site occupied by geothermal wells and piping (Photographs 6 through 8). Based on observations made during the site reconnaissance, the crop currently planted at the site (Photograph 5) appears to be broccoli. Irrigation ditches and concrete-lined canals are present onsite and on the adjoining properties in the site vicinity. An empty plastic aboveground storage tank (AST), estimated to be approximately 5,000-gallon capacity, was observed on a concrete slab in the northeastern portion of the site (Photograph 9). Three concrete slabs in this area were observed to be weathered (cracked surface) and appeared to have piping trenches leading to a control panel at the south end of the slabs. Based on the conditions observed, the arrangement observed suggested the area may have been used for storage of agricultural chemicals or fertilizers. No other ASTs were observed on the subject Property. Electrical transmission line insulators and cement pipe segments were also observed in the northeast portion of the site (Photograph 10).

**2.2.1 Hazardous Substances**

The storage, handling or use of hazardous substances was not observed on the subject Property. However, the configuration of concrete slabs in the northeast corner of the subject property suggest that hazardous substances may have been stored in that area.

**2.2.2 Hazardous Waste**

Hazardous waste, drums, or other chemical containers were not observed on the subject Property.

**2.2.3 Storage Tanks**

Evidence of underground storage tanks (vent lines, fill or overfill ports, fuel pumps) was not observed. Other than the empty plastic AST observed in the northeast corner of the subject Property, no ASTs were observed.

### **2.2.4 Polychlorinated Biphenyls (PCBs)**

Pole-mounted electrical transformers were observed at a few locations around the perimeter of the subject Property (Photograph 11). It is unknown whether the transformers are or were PCB-containing; however, the pole-mounted electrical transformers appeared to be in good working condition with no indications of leakage or staining observed.

### **2.2.5 Waste Disposal**

Evidence of significant stains or improper waste disposal on the subject Property was not observed.

### **2.2.6 Wetlands, Floodplain, Coastal Zone**

Wetlands are present on the adjoining properties to the west and northwest (see Figure 1). The subject property is also located within 600 feet of the Salton Sea. Based on the 1992 topographic map, portions of the subject Property lie at a lower elevation than the Salton Sea (228 feet below sea level in 1992). Therefore, the dikes and levees surrounding the Salton Sea prevent the subject Property from submergence.

### **2.2.7 Dumping**

A pile of black plastic sheeting was observed in the northwest corner of the subject Property (Photograph 12), and a burned area with bottles, wire, tires and other debris was observed in the southwest corner of the subject Property (Photograph 13).

### **2.2.8 Pits, Ponds, Lagoons, Septic Systems, Cisterns, Sumps, Drains**

Lateral drains, sumps and pumps are prevalent throughout the region (refer to Figure 1) to maintain groundwater at an acceptable depth below ground surface. Based on signs and other markings observed on the subject Property and vicinity, most of these drains, sumps and pumps are maintained by the Imperial Irrigation District. A view of one of these sumps observed in the northwest corner of the subject Property is shown in Photograph 14. As previously indicated, the property adjoining the subject Property on the west side of Severe Road was completely submerged at the time of the site reconnaissance.

### **2.2.9 Pesticide Use**

Pesticides were not observed to be stored on the subject Property. However, the configuration of the concrete slabs and the presence of an empty plastic tank in the northeast portion of the site suggests that pesticides may have been stored in this area.

### **2.2.10 Staining and Discolored Soils**

Other than the burned area observed in the southwest corner of the subject Property, no other stained or discolored soils were observed on the subject Property.

**2.2.11 Stressed Vegetation**

Stressed vegetation was not observed on the subject Property.

**2.2.12 Unusual Odors**

Unusual odors were not encountered on the subject Property.

**2.2.13 Onsite Wells**

Three geothermal wells were observed at the site. Well M-8 was observed in the southwest portion of the subject Property, and wells M-9 and DR-12 were observed in the southeastern portion of the subject Property (See Photographs 6, 7 and 8, and Figure 2 for approximate locations). Monitoring, water supply, oil or gas production wells were not observed or reported onsite.

Based on the Munger Map Book of California/Alaska Oil and Gas Fields (1999), 10 geothermal explorations have been conducted on the subject Property. According to Munger, one exploration occurred in the northwest corner of the subject Property (identified as plugged and abandoned observation well #2); two explorations occurred in the northeast corner of the subject Property (identified as injection well #3 and plugged and abandoned observation well #4); one exploration occurred in the southwest corner of the subject Property (identified as observation well #8, which corresponds to the existing well M-8 observed at that location); and six explorations occurred in the southeast corner of the subject Property (identified as geothermal well #1, "capable of production" wells #5 and #9, plugged and abandoned production wells #6, #7 and #8). In addition, extensive geothermal exploration has been conducted on the adjoining properties to the west, southwest, south, southeast and east.

**2.2.14 Environmentally Sensitive Areas**

The Salton Sea National Wildlife Refuge is present on the adjoining property on the north side of McKendry Road (Photograph 15). Steel gates at the intersections of McKendry and Boyle Roads, and McKendry and Severe Roads prevent vehicular access to these areas.

**2.3 CURRENT USES OF ADJACENT PROPERTY**

The subject Property is located within Imperial Valley, one of the most productive agricultural regions in the United States. The Salton Sea located northwest of the subject Property is home to waterfowl and myriad wildlife species. In addition, the presence of geothermal resources in the valley has led to the development of several electrical generating plants (Photograph 16) that use geothermal energy to create electricity. A view of the subject Property and surrounding properties is shown on Figure 2. In general, prominent adjoining land uses are as follows:

- North: McKendry Road and agricultural property designated as part of the Salton Sea National Wildlife Refuge located on the north side of the road.
- West: Severe Road, and wetlands present on the west side of the road. Obsidian Butte is

located further to the west/northwest. Stockpiled rock materials were observed in the vicinity of Obsidian Butte suggesting recent rock mining activity.

South: Peterson Road and actively cultivated agricultural property was observed on the adjoining properties southwest, south and southeast of the subject Property. Unit 3 and Unit 4, an existing electricity generating facility (geothermal powered) was observed about 2,700 feet southwest of the subject Property.

East: Boyle Road, two existing geothermal-powered electricity generating plants and agricultural property are located on the adjoining property east of the subject Property. The adjoining property to the northeast is an active agricultural property.

## **2.4 PHYSICAL SETTING**

The subject Property occupies approximately 160 acres which comprise the southwest quarter of Section 33, Range 13 East, Township 11 South, and is bounded by McKendry, Boyle, Peterson and Severe Roads in Imperial County, California (Figure 1). According to the U.S. Geological Survey (USGS), the subject Property lies at elevations ranging from approximately 221 to 230 feet below sea level, and gently slopes to the northwest.

### **2.4.1 Geology**

The subject Property is located southeast of the Salton Sea and northwest of Calipatria in the Imperial Valley area of southern California. According to the Geologic Atlas of California, Salton Sea Sheet, the site is underlain by Quaternary lake deposits of ancient Lake Coahuila generally consisting of interbedded clay, silt, sand and beach gravel. The Imperial Valley and its physiographic equivalents to the north (Coachella Valley) and south (Mexicali Valley), make up the Salton Trough, a deep basin that represents the structural extension of the Gulf of California into North America. The topographic high created by the deltaic deposits of the Colorado River prevent the marine inundation of the Imperial and Mexicali valleys which are below sea level. The Salton Trough is bounded by the Western Mojave Desert Province to the north, the Peninsular Range Batholith to the west, the Basin and Range Province to the east, and the Gulf of California to the south beyond the Colorado River delta. A preliminary geotechnical investigation was conducted on the subject Property in November 2001 by Geotechnics Incorporated (Geotechnics). Based on the results of the Geotechnics investigation (Geotechnics, December 17, 2001), the subject Property is underlain by more than 100 feet of lacustrine deposits generally consisting of silty sand, sandy silt, and clay.

The Salton Trough is a deep structural basin characterized by high seismicity, high heat flux, extensional tectonics, crustal thinning, and rapid sedimentation (Damiata et al. 1986). Geophysical studies (Tarbet, 1951; Biehler et al., 1964) suggest that upwards of 5.5 km (3.3 mi.) of sediment have accumulated in the Salton Trough since the Miocene epoch (Eberley and Standley, 1978). The Salton Trough represents the transition zone between the crustal spreading centers in the Gulf and the right lateral transform boundary between the North America and the Pacific plates (Crowell and Sylvester, 1979; Crowell, 1981; Johnson et al., 1982). The San Andreas fault zone is the principal element in this transform plate boundary, however, the total

plate motion is distributed across a broad zone of deformation. Major elements in the right slip system of faults related to the plate boundary and in close proximity to the Salton Trough include the San Andreas, San Jacinto, Elsinore, Brawley, Imperial, and Cerro Prieto faults.

The primary fault structures in the area are a series northwesterly striking faults. A zone of right lateral strike slip faults in the Salton Trough defines the transform boundary between the North America and Pacific plates. The subject property lies about 7.5 miles southwest of the San Andreas fault zone, about 14 miles northeast of the Superstition Hills Fault and about 14 miles northwest of the Imperial Fault. These faults have been zoned as active Earthquake Fault Hazard Zones under the State of California's Alquist-Priolo Act.

The subject Property is also located within the Salton Sea Geothermal Field. The geothermal resources is hot brine that is produced to the surface where existing facilities produce steam to create more than 300 megawatts (MW) of electricity. After generating steam at the surface, the heat-depleted brine is reinjected back into the geothermal reservoir at depth. It is estimated that the Salton Sea Geothermal Field is capable of producing more than 750 MW of electricity for up to 30 years.

#### **2.4.2 Groundwater**

According to the "Water Quality Control Plan, Colorado River Basin – Region 7," dated 1994 and prepared by the RWQCB, the site lies within the Imperial Valley Planning Area. Groundwater is stored primarily in unconsolidated Pleistocene sediments, which are thicker than 1,000 feet in the valley.

The subject Property lies within the Imperial Hydrologic Unit of the Imperial Valley Planning Area. The groundwater within the Imperial Hydrologic Unit has been designated by the RWQCB as having existing beneficial uses for municipal and domestic supply (MUN), and industrial service supply (IND). As indicated on Table 2-5 of the Basin Plan, the beneficial use designation for municipal supply indicates that at least one of the aquifers within the basin supports a municipal beneficial use, but does not necessarily apply to all groundwater within the basin. Groundwater is present less than 5 feet below ground surface (bgs) at the site. However, this shallow groundwater is considered poor quality due to high total dissolved solids concentration. According to the RWQCB, the "MUN" designation only applies to a small portion of the Imperial Hydrologic Unit.

Based on the results of the Geotechnics investigation, groundwater was encountered at depths ranging from 4 to 6 feet bgs, and that "artesian" conditions were observed in one boring advanced in the western portion of the site.

Numerous surface and shallow subsurface drains that transport irrigation drainage and stormwater to the Salton Sea are present throughout the project vicinity. According to the RWQCB, the main purpose of the tile drains which underlie much of the Imperial Valley is to dewater sediments to a depth below the root zone and to prevent the accumulation of saline water at the ground surface. Vail Drain 4-A and Vail Lateral 4 traverse north to south along the eastern

property boundary, and Vail Drain 5 and Vail Lateral 5 traverse north to south along the western property boundary.

URS conducted a review of readily available historical aerial photographs and topographic maps to assess the potential presence of hazardous substances at the site and to evaluate the potential for the site to be impacted by offsite sources of contamination.

The following sections provide a detailed historical review.

### **3.1 AERIAL PHOTOGRAPHS AND HISTORICAL MAPS**

Aerial photographs dated May 1953, February 1994, and June 1996 and topographic maps dated 1956 and 1992 were reviewed by URS. Based on this review, the subject Property and most of the Imperial Valley had been developed for agricultural use prior to 1953. It was noted that the water level in the Salton Sea was significantly lower in the 1953 aerial photograph. In addition, the 1956 topographic map indicated that the water level in the Salton Sea in May 1956 was 235 feet below sea level. The 1992 topographic map indicated that the water level in the Salton Sea in September 1992 was 228 feet below sea level. The February 1994 aerial photograph shows the subject Property and surrounding properties to be developed in their current configuration. With the exception of a change in the configuration at the Unit 3 and Unit 4 plant, no significant changes were noted between 1994 and 1996.

### **3.2 SANBORN MAPS**

Sanborn Fire Insurance Map coverage is not available for the subject Property or vicinity.

### **3.3 PROPERTY OWNER-SUPPLIED HISTORICAL INFORMATION**

Information about historical activities conducted on the subject Property was also provided by CalEnergy. According to CalEnergy personnel, the subject property has been actively cultivated since about 1953, and can support virtually all field crops grown in Imperial Valley (including sugar beets, alfalfa, wheat, Sudan, Bermuda grass, etc.). Prior to 1953, the subject Property was reportedly vacant, undeveloped desert land.

According to CalEnergy, drilling and installation of geothermal production well M-8 began in April 1981, which was later converted to a pressure monitor well in August 1987. Geothermal production well M-9 was drilled and installed in January 1985, and continues to be used as a production well. Geothermal production well DR-12 was drilled and installed in July 1999, and continues to be used as a production well. URS was informed that mud pits are utilized during the drilling and installation of geothermal wells, but that regulations require that the mud pits be lined to prevent contamination to soil or groundwater. Details pertaining to other geothermal exploration conducted on the subject Property were not provided.

Diesel fuel, and other fluids and chemicals typically used in the drilling, installation and maintenance have been handled on the subject Property, and that it is possible that some of these materials may have been spilled on the ground. However, CalEnergy indicated that standard operating procedures require containment and cleanup of accidental spills or discharges, and that the site be left in a clean and sanitary condition.

Fertilizers and pesticides are commonly used and properly applied in connection with agricultural activities at the subject Property. CalEnergy did not have any information about historical pesticide and/or herbicide usage on the subject Property. Other than previously noted for drilling

and maintenance of the geothermal wells, CalEnergy is not aware of any onsite storage or use of hazardous materials on the subject Property.

## **4.1 STANDARD ENVIRONMENTAL RECORD SOURCES**

URS contracted VISTA to review the publicly available federal, state, and local databases of known or potential hazardous waste sites or landfills, and sites currently under investigation for environmental violations for the site address and the surrounding area. The VISTA Site Assessment Plus Report along with descriptions of each federal, state and local list is included as Appendix B. Facilities located adjacent to or hydraulically upgradient from the site with respect to the inferred groundwater flow direction, are discussed below.

VISTA-listed properties interpreted as hydraulically downgradient or crossgradient from the site relative to groundwater flow direction are in our opinion unlikely to impact the site with hazardous materials and are therefore excluded from the following discussion. Based on the topographic map, groundwater in the site vicinity would likely flow to the northwest, toward the Salton Sea.

### **4.1.1 Site**

According to the VISTA report, a water well in the vicinity of the northwest corner of the subject Property was identified in the USGS database. This location may correspond to Imperial Irrigation District Drain No. S-45, which was observed in the northwest corner of the subject Property during the site reconnaissance. The subject Property is not listed on any databases pertaining to hazardous materials in the VISTA Database Report.

### **4.1.2 Offsite**

VISTA identified two USGS water wells near the subject Property; one is located within 500 feet of the southwest corner of the subject Property on the adjoining property to the south, and another is located approximately ½-mile northeast of the subject Property on the south side of Sinclair Road.

The Salton Sea Power LP and Brine LP Unit 3 are located about ½-mile southwest of the subject Property was identified by VISTA on the Resource Conservation and Recovery Act (RCRA) Large Quantity Generators (facility that generates at least 1,000 kg/month of non-acutely hazardous waste, or 1 kg/month of acutely hazardous waste) database. Specific details about the waste generated at this site were not specified in the database search report. Salton Sea Unit 3 was also identified on the Waste Management Unit Data System (WMUDS) database as an active industrial waste generator (drilling brine water). Salton Sea Unit 3 and Unit 5 (identified at the same location) were identified on the ERNS database for geothermal brine spills (55,000 gallons in June 2000, and 72,000 gallons in August 2000), and a 49,000 gallon hydrochloric acid spill in March 2000. Salton Sea Unit 3 is also identified as having one aboveground storage tank (contents not specified). Since the facilities at this site lie at approximately the same elevation as the subject Property, are hydraulically cross-gradient and approximately ½-mile away from the subject Property, it is unlikely that these spills would adversely affect soil and groundwater conditions at the subject Property.

The Red Hill Geothermal Plant, Leathers Geothermal Plant and the Imperial Irrigation District, identified by VISTA as being located near the intersection of Gentry and Sinclair Roads (about ¼-mile northeast of the subject Property) were identified by VISTA on the Emergency Response Notification System (ERNS) database as the site of numerous geothermal brine spills (ranging from 10 to 500 gallons) between May 1990 and August 1991, an oil spill (30 gallons) in April 1993, and a diesel fuel spill (1,000 gallons) in June 1996. The Jim Leathers Geothermal Plant was also identified on the Waste Management Unit Data System (WMUDS) database as an active industrial waste generator (drilling brine water). Since these sites lie at approximately the same elevation as the subject Property, are hydraulically cross-gradient and approximately ¼-mile away from the subject Property, it is unlikely that these spills would adversely affect soil and groundwater conditions at the subject Property.

No other sites were identified within the search radii in the VISTA Report.

## **4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES**

In addition to the database list search, URS contacted the following regulatory agencies to obtain information about the subject Property. The following information was received from these agencies:

- California Regional Water Quality Control Board (RWQCB) was contacted for groundwater information for the subject Property.
- Imperial County Agricultural Commissioner (ICAC) was contacted for information about historical pesticide/herbicide application at the subject Property. According to ICAC personnel, their records go back three years for the subject property, and records are available for review (for a \$25 fee). However, historical information is not available.

In the event that URS obtains additional information that would indicate the potential for a recognized environmental condition on the subject Property, our revised conclusions will be provided under separate cover.

The subject Property consists of approximately 160-acres of primarily agricultural land, with small portions occupied by geothermal wells and piping. The subject Property was planted with broccoli at the time of the site reconnaissance. Based on our historical research, the subject Property and most adjoining sites have been actively used for agricultural purposes since at least 1953. The subject Property lies within the Salton Sea Geothermal Field and is also adjacent to the Salton Sea National Wildlife Refuge. Except for the development of geothermal resources (power plants, geothermal wells and delivery piping) in the vicinity, the subject Property and most adjoining sites appear largely unchanged since prior to 1953.

No onsite storage, use or mishandling of hazardous materials or hazardous wastes was observed on the subject Property during the site reconnaissance. The area in the northeast portion of the subject Property appeared to be configured for aboveground storage tanks. An empty, plastic, aboveground storage tank was observed, and the concrete slabs in this area were highly weathered (cracked). The former contents of the empty aboveground storage tank observed are not known, and historical activities in this portion of the site are unknown. At the time this report was prepared, CalEnergy personnel had not yet identified the nature of the concrete slabs or the former contents of the empty, plastic storage tank.

Although no staining or other concerns were identified during the site reconnaissance, and there are no regulatory-documented releases for the subject Property, installation and maintenance of the three onsite geothermal wells may have resulted in hazardous materials (e.g., drilling fluids, fuel, oil, etc.) being released to the ground on the subject Property. Ongoing agricultural operations at the subject property may involve the application of pesticides and/or herbicides. Based on observations, the currently planted crop of broccoli appeared healthy and no distressed vegetation was observed. However, past agricultural practices may have included the use of currently regulated and banned substances, such as organochlorine pesticides and chlorinated herbicides.

The subject Property is not listed on any databases in the VISTA Site Assessment Plus Report. There is a low potential for documented spills of geothermal brine, diesel fuel, oil and hydrochloric acid on the existing geothermal plants northeast and southwest of the site to adversely impact soil or groundwater conditions at the subject Property due to the: (1) crossgradient location relative to the subject Property; (2) distance from the subject Property; and the (3) nature of the database listings.

We have performed a Phase I ESA of the subject Property in conformance with the scope and limitations of ASTM Practice E 1527-00. Exceptions to or deletions from this practice are described in the scope of services section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject Property except for the following:

- Possible impacts from the unknown use of concrete slabs and possible chemical storage in the northeast portion of the subject Property.
- Possible impacts from the existing geothermal wells and historical geothermal explorations conducted in the southwest, southeast, northwest and northeast portions of the subject Property.

- Possible impacts from the burned area observed in the southwest portion of the subject Property.
- Potential pesticide and herbicide contamination of surface and subsurface soil, due to past agricultural practices on the Property may have included the use of currently regulated and banned substances, such as organochlorine pesticides and chlorinated herbicides.

Based on the scope of services performed for this Phase I ESA, additional evaluation of these areas may be warranted.

**6.1 CORPORATE**

URS Corporation is a publicly held corporation listed on the New York and Pacific Stock Exchanges. URS provides professional planning, architectural and engineering design, and program and construction management services for infrastructure projects involving surface and air transportation, facilities, and water resources. In addition, we offer a full range of environmental services, including environmental management, pollution control, natural resource management, and solid and hazardous waste management. Utilizing staff resources of 15,000 employees in a network of offices worldwide, URS serves a variety of public sector clients at the local, municipal, state, and federal levels and private sector clients in the oil, petrochemical, natural gas, chemical, forest products, mining, power, and manufacturing industries.

**6.2 INDIVIDUAL**

The qualifications of the Project Manager and of the other Environmental Professionals involved in this Phase I ESA meet the URS corporate requirements for performing Phase I ESAs. Resumes of these Environmental Professionals are provided in Appendix C.

- American Society for Testing Materials, 2000, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process: Designation E 1527-00, 27p.
- California Division of Mines and Geology, 1961, Geologic Atlas of California, Salton Sea Sheet (1967) and San Diego/El Centro Sheet (1962). .
- California Regional Water Quality Control Board (CRWQCB), Colorado River Region, 1994, Water Quality Control Plan, Colorado River Basin – Region 7.
- California Regional Water Quality Control Board (CRWQCB) website, [www.swrcb.ca.gov](http://www.swrcb.ca.gov)
- Geotechnics Incorporated, 2001. Preliminary Geotechnical Findings, Geothermal Plant, Salton Sea Unit 6, Calipatria, California, dated December 17, 2001.
- Imperial County Agricultural Commissioner, personal communication, January 18, 2002.
- Landiscor Aerial Information. Aerial photograph dated February 1994.
- Vista Information Solutions, Inc. (VISTA), January 14, 2002 Site Assessment Plus Report, ID No. 466601903.
- Munger Map Book, June 1999, California-Alaska Oil and Gas Fields, fortieth edition.
- URS Corporation (URS), 2001, Draft Application for Certification, Salton Sea Unit 6, submitted to the California Energy Commission, dated August 7, 2001.
- U.S. Department of Agriculture, Production and Marketing Administration. Aerial Photo Index of Imperial County, dated May 21, 1953.
- U.S. Geologic Survey (USGS), 7.5 minute “Niland, California” quadrangle, 1956.
- U.S. Geologic Survey (USGS), 7.5 minute “Niland, California” quadrangle, 1992.
- U.S. Geologic Survey (USGS), aerial photograph, dated June 6, 1996.







**Photograph 1**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View looking southwest at the site from the intersection of Boyle and McKendry Roads.



**Photograph 2**

**Date:**  
**Jan. 11, 2002**

**Comments:**

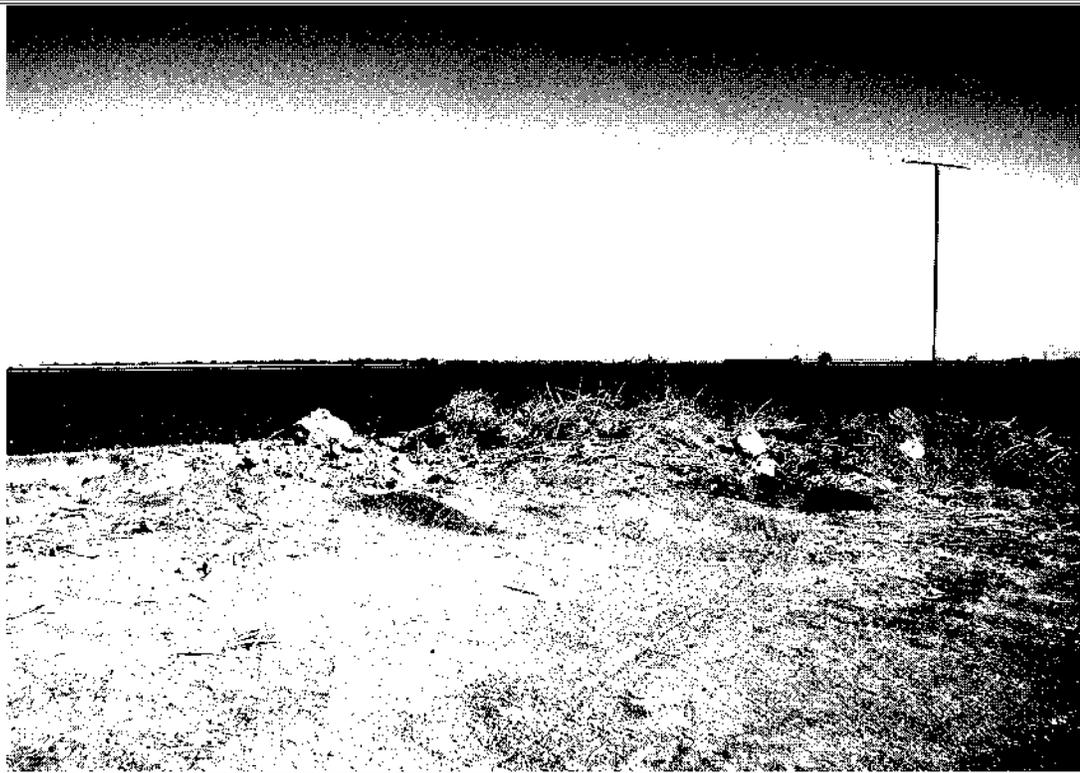
View looking southeast at the site from the intersection of McKendry and Severe Roads.

**Photograph 3**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View looking northeast at the site from the southwest corner of the site.



**Photograph 4**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View looking northwest at the site from the intersection of Boyle and Peterson Roads.

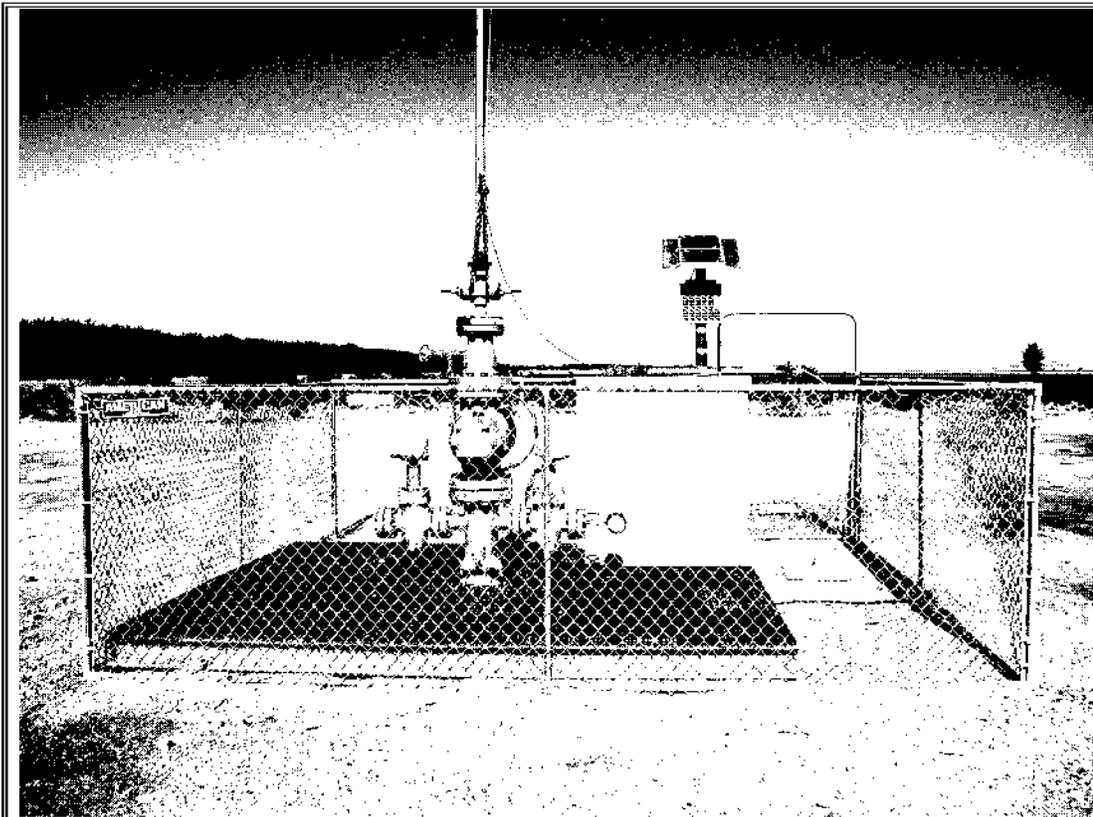




**Photograph 5**

**Date:**  
**Jan. 11, 2002**

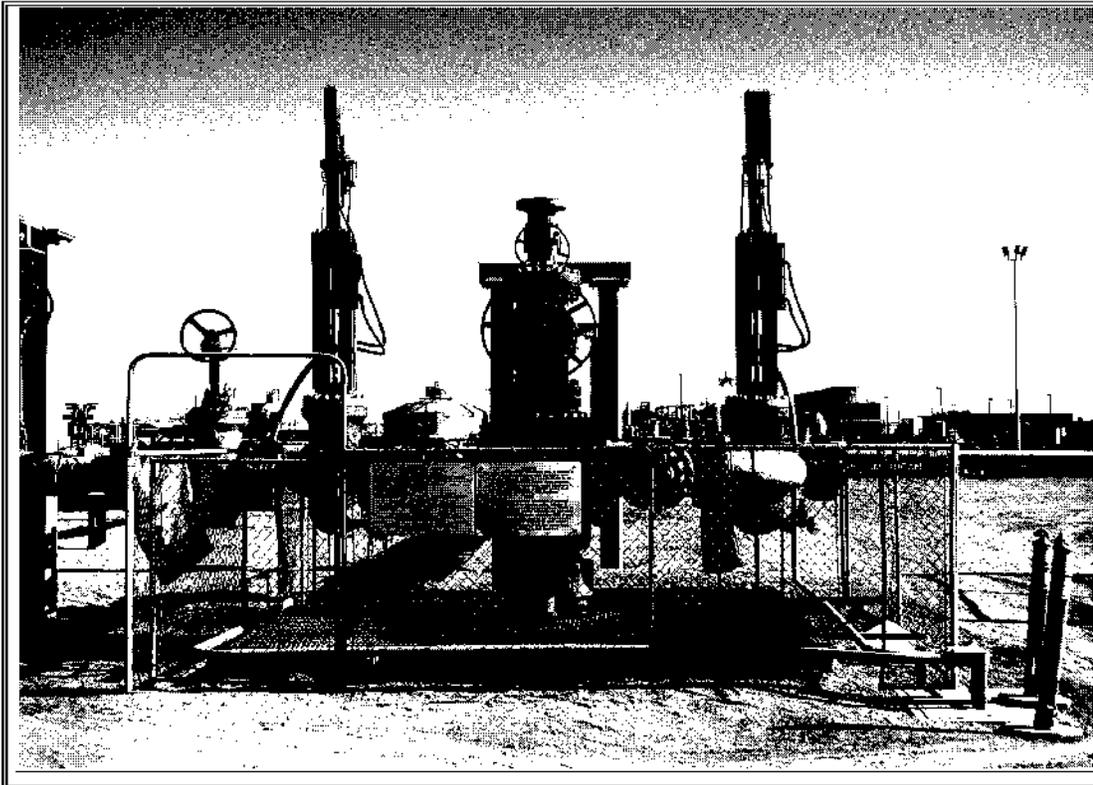
**Comments:**  
View of the crop  
(broccoli)  
currently  
growing onsite.



**Photograph 6**

**Date:**  
**Jan. 11, 2002**

**Comments:**  
View of  
Geothermal Well  
M-8 in the  
southwest  
portion of the  
site.

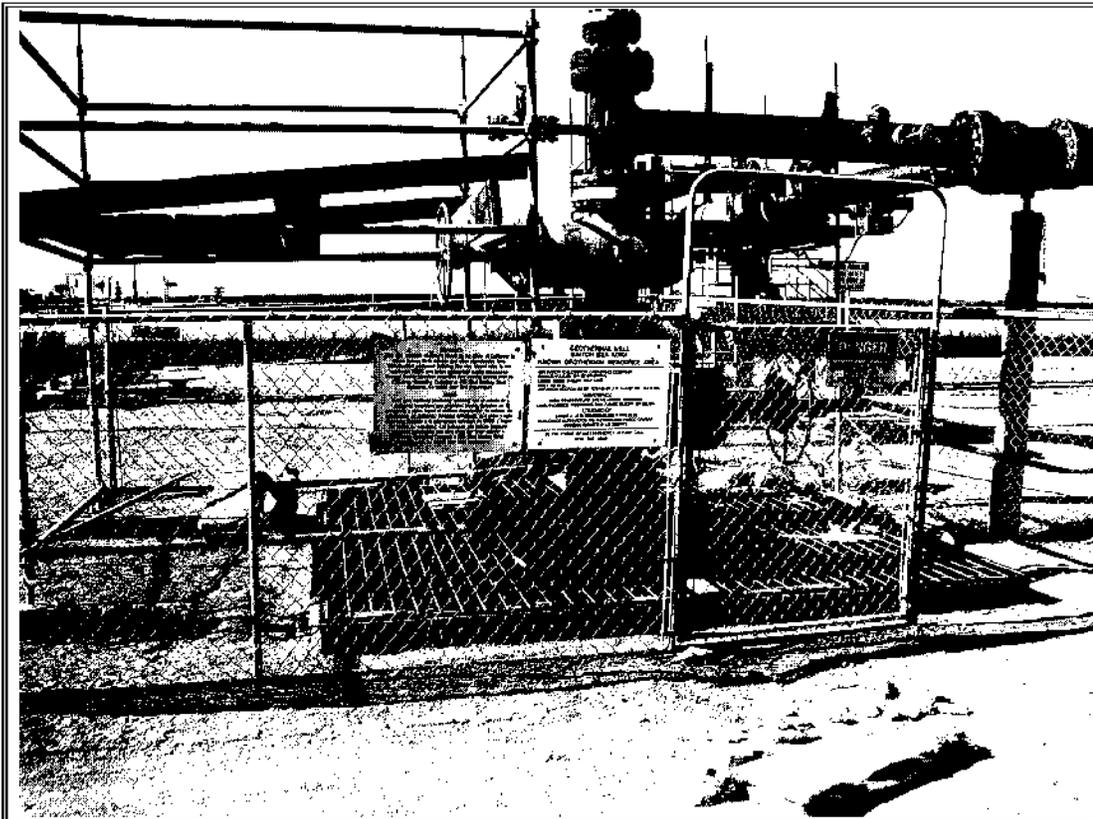


**Photograph 7**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View of  
Geothermal Well  
DR-12 in the  
southeast portion  
of the site.



**Photograph 8**

**Date:**  
**Jan. 11, 2002**

**Comments:**

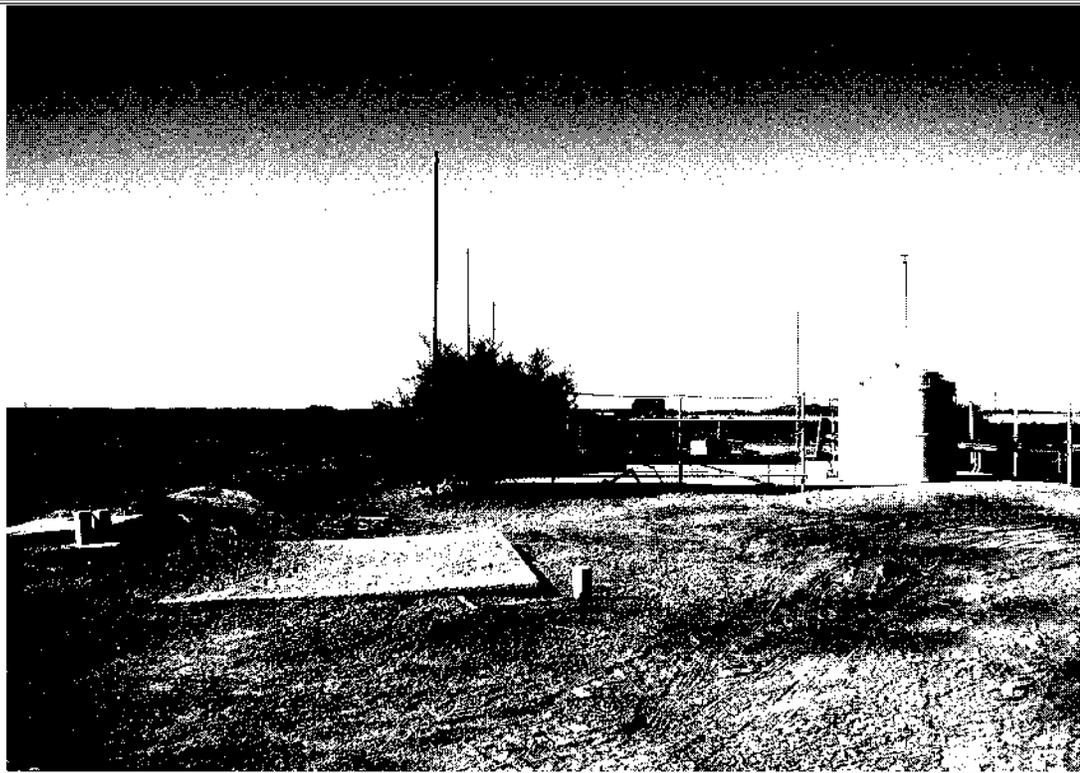
View of  
Geothermal Well  
M-9 in the  
southeast portion  
of the site.

**Photograph 9**

**Date:**  
**Jan 11, 2002**

**Comments:**

View of concrete slabs and empty plastic tank in the northeast portion of the site.

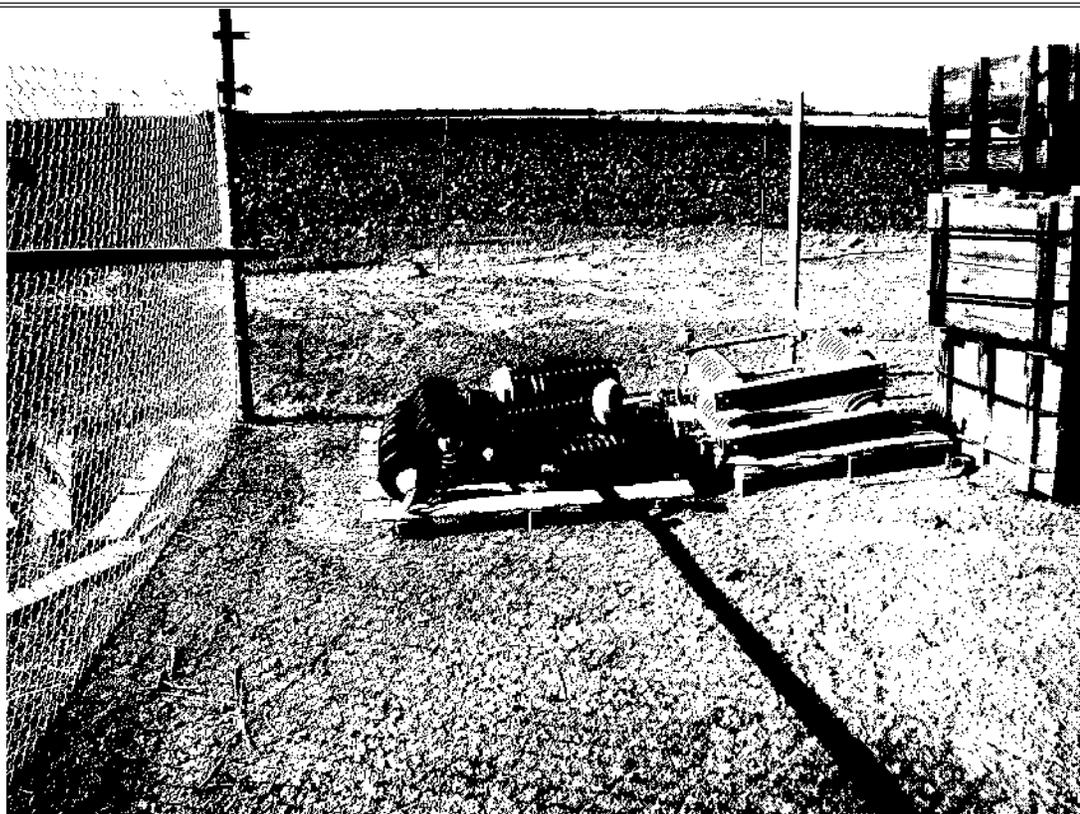


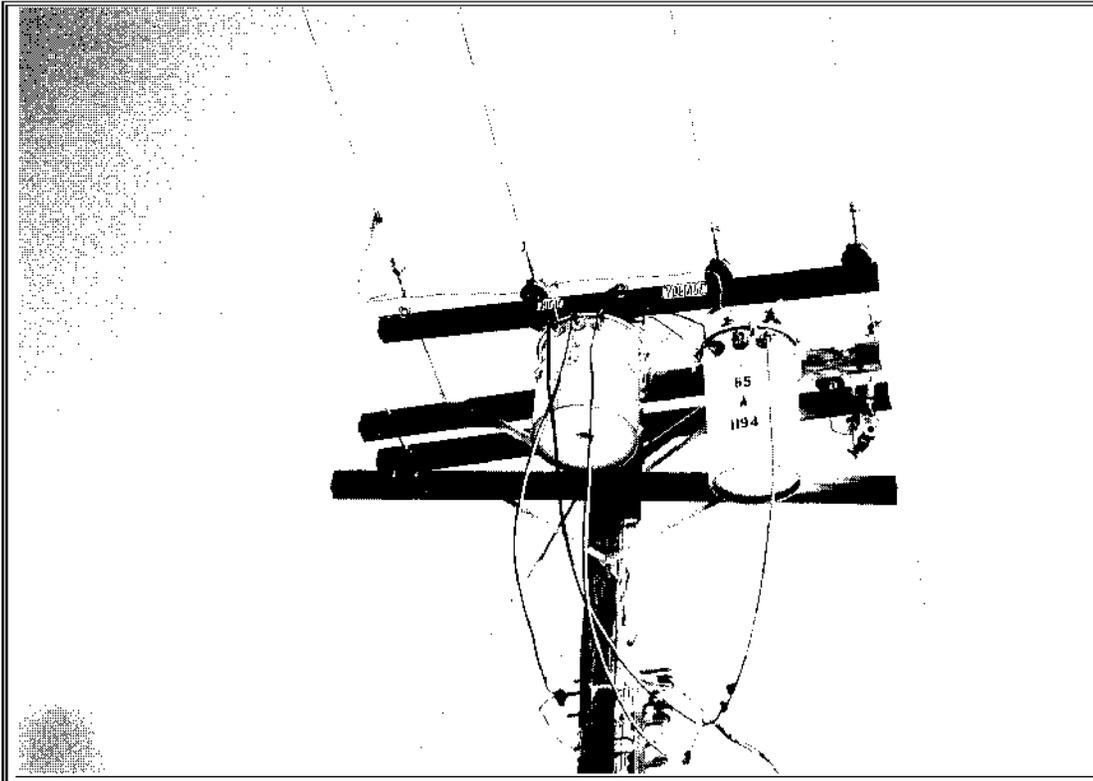
**Photograph 10**

**Date:**  
**Jan 11, 2002**

**Comments:**

View of electrical supplies (on pallets) and concrete pipe (in crates on the right) observed in the northeast portion of the site.





**Photograph 11**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View of pole-mounted electrical transformers (typical) observed along the northern property boundary.



**Photograph 12**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View of old pile of plastic sheeting observed in the northwest portion of the site.

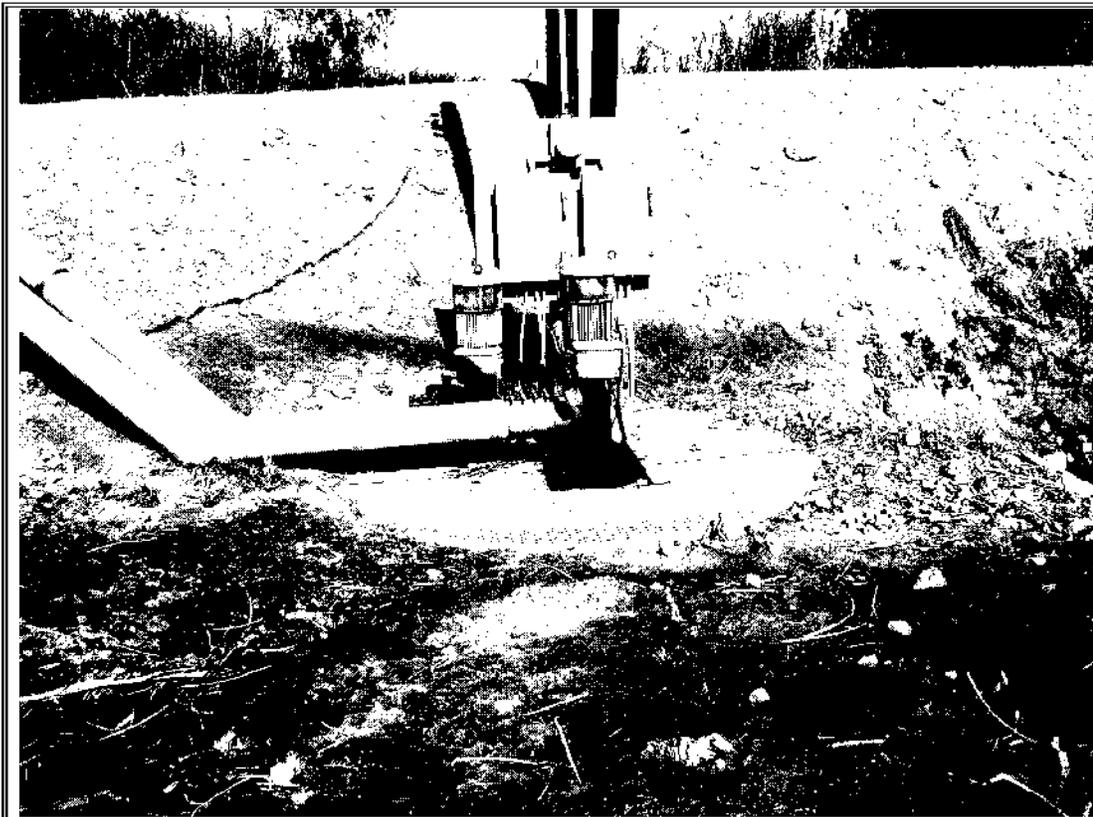


**Photograph 13**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View of burned area in the southwest corner of the site.



**Photograph 14**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View of Imperial Irrigation District Sump No. WP14 in the northwest corner of the site. This arrangement is typical of other sumps observed on and around the site.

**Photograph 15**

**Date:**  
**Jan. 11, 2002**

**Comments:**

View looking northwest from the intersection of Boyle and McKendry Roads at the property north of the site.

**Photograph 16**

**Date:**  
**Jan. 11, 2002**

**Comments:**

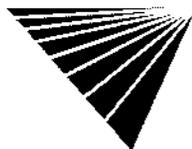
View of existing geothermal power plant on the adjoining property east of the site.



# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 58-00161046.03- SALTON SEA UNIT 6 SINCLAIR RD CALIPATRIA, CA Latitude/Longitude: ( 33.169250, 115.626377 )	Veryl Wittig URS 1615 Murray Canyon Road, Suite San Diego, CA 92108

Site Distribution Summary			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
Agency / Database - Type of Records						
<b>A) Databases searched to 1 mile:</b>						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions (w/o TSD)	0	0	0	0
US EPA	TSD	RCRA Corrective Actions and associated TSD	0	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
<b>B) Databases searched to 1 mile:</b>						
STATE	SCL	State equivalent CERCLIS list	0	0	0	0
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	0	0	0	0
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	0
STATE REG CO	LUST	Leaking Underground Storage Tanks	0	0	0	0
STATE/REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	2
STATE	DEED RSTR	Sites with deed restrictions	0	0	0	0
STATE	CORTESE	State index of properties with hazardous waste	0	0	0	0
STATE	TOXIC PITS	Toxic Pits cleanup facilities	0	0	0	0
USGS/STATE	WATER WELLS	Federal and State Drinking Water Sources	0	1	0	2



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Report ID: 466601903

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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

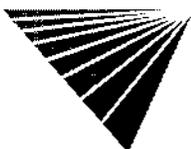
## SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID DISTANCE DIRECTION	A				B							C			D			
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
No Records Found																				

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A				B							C			D			
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
1	USGS REPORTED WATER WELL CA 0	8842509 0.18 MI W												X						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B							C			D			
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
No Records Found																				

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A				B							C			D			
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
2	USGS REPORTED WATER WELL CA 0	8842507 0.55 MI SW												X						
3	USGS REPORTED WATER WELL CA 0	8842513 0.58 MI NE												X						



X = search criteria; \* = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

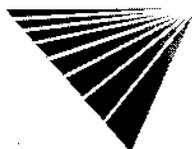
Report ID: 466601903

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MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A				B							C			D			
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSTR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GMRTR
4	IMPERIAL IRRIGATION DIST. CORNER OF SINCLAIR AND GENTRY RD CALIPATRIA, CA 92233	8578485 0.83 MI NE																X		
4	RED HILL GEO THERMAL PLNT SINCLAIR AND GINGERIE CALIPATRIA, CA 92233	5445592 0.83 MI NE							X									X		
5	SALTON SEA POWER L P AND BRINE LP UNIT 3 6922 CRUMMER RD CALIPATRIA, CA 92233	1181623 0.99 MI SW							X										X	
5	6922 CRUMMER RD CALIPATRIA, CA 92233	66111598 0.99 MI SW																X		
5	SALTON AND SEA UNIT NO.5 6922 CRUMMER RD CALIPATRIA, CA 92233	65998396 0.99 MI SW														X	X			



X = search criteria; • = tag-along (beyond search criteria).

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UNMAPPED SITES	A				B							C			D					
	VISTA ID	NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	DEED RSIR	CORTESE	TOXIC PITS	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	NOTIFIERS
No Records Found																				



**X = search criteria; \* = tag-along (beyond search criteria).**

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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## DETAILS

### PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

No Records Found

### SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

VISTA Address*:	<b>USGS REPORTED WATER WELL</b> <b>CA 0</b>	VISTA ID#:	8842509
		Distance/Direction:	0.18 MI / W
		Plotted as:	Point
<b>USGS Wells - Federal Drinking Water Sources / SRC# 3</b>		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility State:	CA		
Well ID:	331010115375002		
Well Latitude:	33.169444444444		
Well Longitude:	-115.6305555555		
Well County Fips:	6025		

Map ID

1

### SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

No Records Found

### SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

VISTA Address*:	<b>USGS REPORTED WATER WELL</b> <b>CA 0</b>	VISTA ID#:	8842507
		Distance/Direction:	0.55 MI / SW
		Plotted as:	Point
<b>USGS Wells - Federal Drinking Water Sources / SRC# 3</b>		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility State:	CA		
Well ID:	330940115375001		
Well Latitude:	33.161111111111		
Well Longitude:	-115.6305555555		
Well County Fips:	6025		

Map ID

2



\* VISTA address includes enhanced city and ZIP.

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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

VISTA Address*:	<b>USGS REPORTED WATER WELL CA 0</b>	VISTA ID#:	8842513
		Distance/Direction:	0.58 MI / NE
		Plotted as:	Point

Map ID  
**3**

<b>USGS Wells - Federal Drinking Water Sources / SRC# 3</b>		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility State:	CA		
Well ID:	331035115371001		
Well Latitude:	33.176388888888		
Well Longitude:	-115.6194444444		
Well County Fips:	6025		

VISTA Address*:	<b>IMPERIAL IRRIGATION DIST. CORNER OF SINCLAIR AND GENTRY RD CALIPATRIA, CA 92233</b>	VISTA ID#:	8578485
		Distance/Direction:	0.83 MI / NE
		Plotted as:	Point

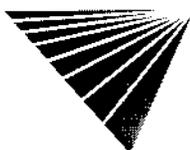
Map ID  
**4**

<b>ERNS - Emergency Response Notification System / SRC# 8</b>		EPA/Agency ID:	N/A
Agency Address:	IMPERIAL IRRIGATION DIST. CORNER OF SINCLAIR AND GENTRY RD CALIPATRIA, CA 0		
Vista ID:	8578485		
Facility Name:	IMPERIAL IRRIGATION DIST.		
Facility Address:	CORNER OF SINCLAIR AND GENTRY RD		
Facility City:	CALIPATRIA		
Facility State:	CA		
Facility County:	IMPERIAL		
Spill Date:	06/12/1996		
Spill Time:	08:00 AM		
Spill Location:	CORNER OF SINCLAIR AND GENTRY RD		
Discharger Org:	IMPERIAL IRRIGATION DIST.		
Material Spilled 1:	DIESEL		
Material Quantity 1:	1000.00000000		
Material Units 1:	GAL		
Is Air Release:	NO		
Is Land Release:	NO		
Is Water Release:	NO		
Is Ground Release:	NO		
Is Facility Release:	NO		
Is Other Release:	NO		
Waterway Affected:	PUMP CE DRAIN TO SALTON SEA		
Fields Not Reported by the Source Agency for this Site:	Agency ID(1), Epa ID(1), Facility Zip(1), Case Number(1), Source Agency(1), Discharger Name(1), Discharger Address(1), Discharger Phone(1), Discharger County(1), Discharger City(1), Discharger State(1), Discharger Zip(1)		

VISTA Address*:	<b>RED HILL GEO THERMAL PLNT SINCLAIR AND GINGERIE CALIPATRIA, CA 92233</b>	VISTA ID#:	5445592
		Distance/Direction:	0.83 MI / NE
		Plotted as:	Point

Map ID  
**4**

<b>ERNS - Emergency Response Notification System / SRC# 8</b>		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Vista ID:	5445592		



\* VISTA address includes enhanced city and ZIP.

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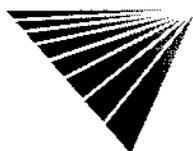
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**Agency ID** 93-3359  
**Facility Name:** RED HILL GEO THERMAL PLNT  
**Facility Address:** SINCLAIR AND GINGERIE  
**Facility City:** CALIPATRIA  
**Facility State:** CA  
**Facility Zip** 92233  
**Facility County:** IMPERIAL  
**Spill Date:** 04/14/1993  
**Spill Time:** 02:55 PM  
**Case Number** 93-3359  
**Spill Location:** SINCLAIR AND GINGERIE  
**Source Agency** E  
**Discharger Org:** RED HILL GEO THERMAL PLNT  
**Material Spilled 1:** OIL, MISC: LUBRICATING  
**Material Quantity 1:** 30.00000000  
**Material Units 1:** GAL  
**Is Air Release:** NO  
**Is Land Release:** NO  
**Is Water Release:** NO  
**Is Ground Release:** NO  
**Is Facility Release:** NO  
**Is Other Release:** NO

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	<b>EPA/Agency ID:</b>	N/A
---	-----------------------	-----

**Agency Address:** LEATHERS GEO-THERMAL  
 342 W. SINCLAIR RD  
 CALIPATRIA, CA 92233  
**Vista ID:** 5445592  
**Agency ID** 91-3908  
**Facility Name:** LEATHERS GEO-THERMAL  
**Facility Address:** 342 W. SINCLAIR RD  
**Facility City:** CALIPATRIA  
**Facility State:** CA  
**Facility Zip** 92233  
**Facility County:** IMPERIAL  
**Spill Date:** 05/05/1991  
**Spill Time:** 11:30 PM  
**Case Number** 91-3908  
**Spill Location:** 342 W. SINCLAIR RD  
**Source Agency** E  
**Discharger Org:** LEATHERS GEO-THERMAL  
**Discharger Address** 342 W. SINCLAIR RD  
**Discharger County** IMPERIAL  
**Discharger City** CALIPATRIA  
**Discharger State** CA  
**Discharger Zip** 92233  
**Material Spilled 1:** GEO-THERMAL BRINE



\* VISTA address includes enhanced city and ZIP.

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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

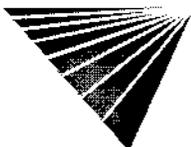
Material Quantity 1:	300.0000000
Material Units 1:	GAL
Is Air Release:	NO
Is Land Release:	NO
Is Water Release:	NO
Is Ground Release:	NO
Is Facility Release:	NO
Is Other Release:	NO
Waterway Affected:	NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	EPA/Agency ID:	N/A
---	----------------	-----

Agency Address:	LEATHERS GEO-THERMAL PLANT 342 W. SINCLAIR RD CALIPATRIA, CA 92233
Vista ID:	5445592
Agency ID	91-4298
Facility Name:	LEATHERS GEO-THERMAL PLANT
Facility Address:	342 W. SINCLAIR RD
Facility City:	CALIPATRIA
Facility State:	CA
Facility Zip	92233
Facility County:	IMPERIAL
Spill Date:	05/24/1991
Spill Time:	09:30 PM
Case Number	91-4298
Spill Location:	342 W. SINCLAIR RD
Source Agency	E
Discharger Org:	LEATHERS GEO-THERMAL PLANT
Discharger Address	342 W. SINCLAIR RD
Discharger County	IMPERIAL
Discharger City	CALIPATRIA
Discharger State	CA
Discharger Zip	92233
Material Spilled 1:	GEO-THERMAL BRINE(97% H2O/3%BRIN
Material Quantity 1:	500.0000000
Material Units 1:	GAL
Is Air Release:	NO
Is Land Release:	NO
Is Water Release:	NO
Is Ground Release:	NO
Is Facility Release:	NO
Is Other Release:	NO
Waterway Affected:	NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	EPA/Agency ID:	N/A
---	----------------	-----

Agency Address:	RED HILL GEO THERMAL 342 SINCLAIR CALIPATRIA, CA 92233
Vista ID:	5445592



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 466601903

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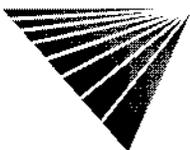
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**Agency ID** 91-5368  
**Facility Name:** RED HILL GEO THERMAL  
**Facility Address:** 342 SINCLAIR  
**Facility City:** CALIPATRIA  
**Facility State:** CA  
**Facility Zip** 92233  
**Facility County:** IMPERIAL  
**Spill Date:** 07/29/1991  
**Spill Time:** 03:30 PM  
**Case Number** 91-5368  
**Spill Location:** 342 SINCLAIR  
**Source Agency** E  
**Discharger Org:** RED HILL GEO THERMAL  
**Discharger Address** 342 SINCLAIR  
**Discharger County** IMPERIAL  
**Discharger City** CALIPATRIA  
**Discharger State** CA  
**Discharger Zip** 92233  
**Material Spilled 1:** GEO THERMAL BRINE  
**Material Quantity 1:** 200.00000000  
**Material Units 1:** GAL  
**Is Air Release:** NO  
**Is Land Release:** NO  
**Is Water Release:** NO  
**Is Ground Release:** NO  
**Is Facility Release:** NO  
**Is Other Release:** NO  
**Waterway Affected:** NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	<b>EPA/Agency ID:</b>	N/A
---	-----------------------	-----

**Agency Address:** RED HILL GEOTHERMAL  
 SINCLAIR GANTRY RDS  
 CALIPATRIA, CA 92233  
**Vista ID:** 5445592  
**Agency ID** 91-5809  
**Facility Name:** RED HILL GEOTHERMAL  
**Facility Address:** SINCLAIR GANTRY RDS  
**Facility City:** CALIPATRIA  
**Facility State:** CA  
**Facility Zip** 92233  
**Facility County:** IMPERIAL  
**Spill Date:** 08/23/1991  
**Spill Time:** 08:10 PM  
**Case Number** 91-5809  
**Spill Location:** SINCLAIR GANTRY RDS  
**Source Agency** E  
**Discharger Org:** RED HILL GFOTHERMAL



\* VISTA address includes enhanced city and ZIP.

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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**Discharger Address** 480 W. SINCLAIR RD  
**Discharger County** IMPERIAL  
**Discharger City** CALIPATRIA  
**Discharger State** CA  
**Discharger Zip** 92233  
**Material Spilled 1:** GEOTHERMAL BRINE  
**Material Quantity 1:** 10.00000000  
**Material Units 1:** GAL  
**Is Air Release:** NO  
**Is Land Release:** NO  
**Is Water Release:** NO  
**Is Ground Release:** NO  
**Is Facility Release:** NO  
**Is Other Release:** NO  
**Waterway Affected:** NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	<b>EPA/Agency ID:</b>	N/A
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**Agency Address:** LEATHERS GEOTHERMAL PLANT  
 342 SINCLAIR RD  
 CALIPATRIA, CA 92233  
**Vista ID:** 5445592  
**Agency ID** 91-5810  
**Facility Name:** LEATHERS GEOTHERMAL PLANT  
**Facility Address:** 342 SINCLAIR RD  
**Facility City:** CALIPATRIA  
**Facility State:** CA  
**Facility Zip** 92233  
**Facility County:** IMPERIAL  
**Spill Date:** 08/26/1991  
**Spill Time:** 07:53 AM  
**Case Number** 91-5810  
**Spill Location:** 342 SINCLAIR RD  
**Source Agency** E  
**Discharger Org:** LEATHERS GEOTHERMAL PLANT  
**Discharger Address** 342 SINCLAIR RD  
**Discharger County** IMPERIAL  
**Discharger City** CALIPATRIA  
**Discharger State** CA  
**Discharger Zip** 92233  
**Material Spilled 1:** GEOTHERMAL BRINE  
**Material Quantity 1:** 40.00000000  
**Material Units 1:** GAL  
**Is Air Release:** NO  
**Is Land Release:** NO  
**Is Water Release:** NO  
**Is Ground Release:** NO  
**Is Facility Release:** NO



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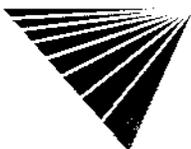
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

<b>Is Other Release:</b>	NO
<b>Waterway Affected:</b>	NONE
<b>ERNS - Emergency Response Notification System / SRC# 8</b>	
<b>Agency Address:</b>	J.M. LEATHERS POWERPLANT 342 W. SINCLAIR CALIPATRIA, CA 92233
<b>Vista ID:</b>	5445592
<b>Agency ID</b>	90-6977
<b>Facility Name:</b>	J.M. LEATHERS POWERPLANT
<b>Facility Address:</b>	342 W. SINCLAIR
<b>Facility City:</b>	CALIPATRIA
<b>Facility State:</b>	CA
<b>Facility Zip</b>	92233
<b>Facility County:</b>	IMPERIAL
<b>Spill Date:</b>	05/20/1990
<b>Spill Time:</b>	11:00 AM
<b>Case Number</b>	90-6977
<b>Spill Location:</b>	342 W. SINCLAIR
<b>Source Agency</b>	E
<b>Discharger Org:</b>	J.M. LEATHERS POWERPLANT
<b>Discharger Address</b>	342 W. SINCLAIR
<b>Discharger County</b>	IMPERIAL
<b>Discharger City</b>	CALIPATRIA
<b>Discharger State</b>	CA
<b>Discharger Zip</b>	92233
<b>Material Spilled 1:</b>	BRINE
<b>Material Quantity 1:</b>	400.00000000
<b>Material Units 1:</b>	GAL
<b>Is Air Release:</b>	NO
<b>Is Land Release:</b>	NO
<b>Is Water Release:</b>	NO
<b>Is Ground Release:</b>	NO
<b>Is Facility Release:</b>	NO
<b>Is Other Release:</b>	NO
<b>Waterway Affected:</b>	NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	
<b>Agency Address:</b>	RED HILL GEOTHERMAL GENTRY SINCLAIR RDS CALIPATRIA, CA 92233
<b>Vista ID:</b>	5445592
<b>Agency ID</b>	91-0952
<b>Facility Name:</b>	RED HILL GEOTHERMAL
<b>Facility Address:</b>	GENTRY SINCLAIR RDS
<b>Facility City:</b>	CALIPATRIA
<b>Facility State:</b>	CA
<b>Facility Zip</b>	92233
<b>Facility County:</b>	IMPERIAL



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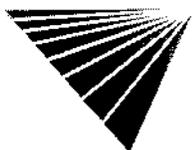
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT**

<b>Spill Date:</b>	11/21/1990
<b>Spill Time:</b>	06:30 AM
<b>Case Number</b>	91-0952
<b>Spill Location:</b>	GENTRY SINCLAIR RDS
<b>Source Agency</b>	E
<b>Discharger Org:</b>	RED HILL GEOTHERMAL
<b>Discharger Address</b>	GENTRY SINCLAIR RDS
<b>Discharger County</b>	IMPERIAL
<b>Discharger City</b>	CALIPATRIA
<b>Discharger State</b>	CA
<b>Discharger Zip</b>	92233
<b>Material Spilled 1:</b>	BRINE FILTER
<b>Material Quantity 1:</b>	5.0000000
<b>Material Units 1:</b>	OTH
<b>Is Air Release:</b>	NO
<b>Is Land Release:</b>	NO
<b>Is Water Release:</b>	NO
<b>Is Ground Release:</b>	NO
<b>Is Facility Release:</b>	NO
<b>Is Other Release:</b>	NO
<b>Waterway Affected:</b>	NONE

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	<b>EPA/Agency ID:</b>	N/A
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<b>Agency Address:</b>	RED HILL GEO THERMAL PLNT SINCLAIR AND GINGERIE CALIPAT, CA 0
<b>Vista ID:</b>	5445592
<b>Agency ID</b>	167547
<b>Facility Name:</b>	RED HILL GEO THERMAL PLNT
<b>Facility Address:</b>	SINCLAIR AND GINGERIE
<b>Facility City:</b>	CALIPAT
<b>Facility State:</b>	CA
<b>Facility County:</b>	IMPERIAL
<b>Spill Date:</b>	04/14/1993
<b>Spill Time:</b>	02:55 PM
<b>Case Number</b>	167547
<b>Spill Location:</b>	SINCLAIR AND GINGERIE
<b>Source Agency</b>	N
<b>Discharger Name</b>	UNKNOWN.
<b>Discharger Org:</b>	RED HILL GEO THERMAL PLNT
<b>Material Spilled 1:</b>	OIL, MISC. LUBRICATING
<b>Material Quantity 1:</b>	30.0000000
<b>Material Units 1:</b>	GAL
<b>Is Air Release:</b>	NO
<b>Is Land Release:</b>	NO
<b>Is Water Release:</b>	NO
<b>Is Ground Release:</b>	NO



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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

Is Facility Release: *NO*  
 Is Other Release: *NO*  
 Waterway Affected: *ASPHALT / SOIL*

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	EPA/Agency ID:	N/A
Agency Address:	<i>SAME AS ABOVE</i>	
Vista ID:	<i>5445592</i>	
Agency ID	<i>93-3359</i>	
Facility Name:	<i>RED HILL GEO THERMAL PLNT</i>	
Facility Address:	<i>SINCLAIR AND GINGERIE</i>	
Facility City:	<i>CALIPATRIA</i>	
Facility State:	<i>CA</i>	
Facility Zip	<i>92233</i>	
Facility County:	<i>IMPERIAL</i>	
Spill Date:	<i>04/14/1993</i>	
Spill Time:	<i>02:55 PM</i>	
Case Number	<i>93-3359</i>	
Spill Location:	<i>SINCLAIR AND GINGERIE</i>	
Source Agency	<i>E</i>	
Discharger Name	<i>UNKNOWN,</i>	
Discharger Org:	<i>RED HILL GEO THERMAL PLNT</i>	
Material Spilled 1:	<i>OIL, MISC: LUBRICATING</i>	
Material Quantity 1:	<i>30.00000000</i>	
Material Units 1:	<i>GAL</i>	
Is Air Release:	<i>NO</i>	
Is Land Release:	<i>NO</i>	
Is Water Release:	<i>NO</i>	
Is Ground Release:	<i>NO</i>	
Is Facility Release:	<i>NO</i>	
Is Other Release:	<i>NO</i>	

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	EPA/Agency ID:	N/A
Agency Address:	<i>RED HILL GEO THERMAL PLNT SINCLAIR AND GINGERIE CALIPAT, CA 0</i>	
Vista ID:	<i>5445592</i>	
Agency ID	<i>167547</i>	
Facility Name:	<i>RED HILL GEO THERMAL PLNT</i>	
Facility Address:	<i>SINCLAIR AND GINGERIE</i>	
Facility City:	<i>CALIPAT</i>	
Facility State:	<i>CA</i>	
Facility County:	<i>IMPERIAL</i>	
Spill Date:	<i>04/14/1993</i>	
Spill Time:	<i>02:55 PM</i>	
Case Number	<i>167547</i>	
Spill Location:	<i>SINCLAIR AND GINGERIE</i>	
Source Agency	<i>N</i>	
Discharger Org:	<i>RED HILL GEO THERMAL PLNT</i>	



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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

<b>Material Spilled 1:</b>	OIL, MISC: LUBRICATING
<b>Material Quantity 1:</b>	30.00000000
<b>Material Units 1:</b>	GAL
<b>Is Air Release:</b>	NO
<b>Is Land Release:</b>	NO
<b>Is Water Release:</b>	NO
<b>Is Ground Release:</b>	NO
<b>Is Facility Release:</b>	NO
<b>Is Other Release:</b>	NO
<b>Waterway Affected:</b>	ASPHALT / SOIL
<b>Fields Not Reported by the Source Agency for this Site:</b>	Epa ID(1), Discharger Name(9), Discharger Address(4), Discharger Phone(11), Discharger County(4), Discharger City(4), Discharger State(4), Discharger Zip(4), Waterway Affected(2), Epa ID(3), Epa ID(2), Epa ID(3), Facility Zip(2), Epa ID(1), Epa ID(1)
<b>WMUDS / SRC# 68</b>	<b>EPA/Agency ID:</b> N/A
<b>Agency Address:</b>	JM LEATHERS GEOTHERMAL 94-018 342 WEST SINCLAIR RD CALIPATRIA, CA 92121 7A132040020
<b>Agency ID:</b>	
<b>Facility Name:</b>	JM LEATHERS GEOTHERMAL 94-018
<b>Facility Address:</b>	342 WEST SINCLAIR RD
<b>Facility City:</b>	CALIPATRIA
<b>Facility State:</b>	CA
<b>Facility Zip:</b>	92121
<b>Facility County:</b>	IMPERIAL
<b>Facility Type:</b>	INDUSTRIAL - FACILITIES THAT TREAT AND/OR DISPOSE OF LIQUID OR SEMISOLID WASTES FROM ANY SERVICING, PRODUCING, MANUFACTURING OR PROCESSING OPERATION OF WHATEVER NATURE, INCLUDING MINING, GRAVEL WASHING, GEOTHERMAL OPERATIONS, AIR CONDITIONING, SHIP BUILD
<b>Waste Discharger System Flag:</b>	T
<b>Chapter 15 Facility Flag:</b>	T
<b>Solid Waste Assessment Flag:</b>	F
<b>Toxic Pits Flag:</b>	F
<b>RCRA Flag:</b>	F
<b>Number of Waste Management Units:</b>	1
<b>Threat To Water:</b>	MAJOR THREAT TO WATER QUALITY
<b>Complexity:</b>	CATEGORY B - ANY FACILITY HAVING A PHYSICAL, CHEMICAL OR BIOLOGICAL WASTE TREATMENT SYSTEM (EXCEPT FOR SEPTIC SYSTEMS WITH SUBSURFACE DISPOSAL), OR ANY CLASS II OR III DISPOSAL SITE, OR FACILITIES WITHOUT TREATMENT SYSTEMS THAT ARE COMPLEX, SUCH AS MARINA
<b>Facility Status:</b>	ACTIVE - ANY FACILITY WITH A CONTINUOUS OR SEASONAL DISCHARGE THAT IS UNDER WASTE DISCHARGE REQUIREMENTS. THOSE FACILITIES THAT ARE NOT UNDER WASTE DISCHARGE REQUIREMENTS (WMUDS) ARE CODED AS ACTIVE WHEN: 1) THERE IS AN ACTIVE ENFORCEMENT ORDER FOR THE F
<b>Waste 1 Nature:</b>	"DESIGNATED - INFLUENT OR SOLID WASTES THAT CONTAIN NONHAZARDOUS WASTES THAT POSE A SIGNIFICANT THREAT TO WATER QUALITY BECAUSE OF THEIR HIGH CONCENTRATIONS (E.G. 800 HARDNESS, TRF, CHLORIDE). 'MANAGEABLE' HAZARDOUS WASTES (E.G. INORGANIC SALTS AND HEAVY
<b>Waste 1 Type:</b>	"DRILLING BRINE WATER (INCLUDES OIL FIELD AND GEOTHERMAL, AQUIFER RECLAMATION EXTRACTION)"
<b>Waste 2 Nature:</b>	"NOT REPORTED"
<b>Waste 2 Type:</b>	"NOT REPORTED"
<b>Enforcements:</b>	N



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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**Violations:** Y  
**Fields Not Reported by the Source Agency for this Site:** *Epa ID(1), Swis ID(1), Department of Defense Flag(1), Open To Public(1), Rank(1)*

VISTA Address*:	<b>SALTON SEA POWER L P AND BRINE LP UNIT 3 6922 CRUMMER RD CALIPATRIA, CA 92233</b>	VISTA ID#:	1181623
		Distance/Direction:	0.99 MI / SW
		Plotted as:	Point

Map ID  
**5**

**RCRA-LgGen - RCRA-Large Generator / SRC# 16**      EPA ID: CAD983663600

**Agency Address:** SAME AS ABOVE  
**EPA Handler ID:** CAD983663600  
**Handler Name:** SALTON SEA POWER L P AND BRINE LP UNIT 3  
**Handler Address:** 6922 CRUMMER RD  
 CALIPATRIA, CA  
 92233

**Land Type:** PRIVATE  
**County:** IMPERIAL  
**Latitude:** NOT REPORTED  
**Longitude:** NOT REPORTED  
**Mailing Address:** 950 W LINDSEY RD  
 CALIPATRIA, CA  
 92223 -  
 19941121  
**Acknowledgement Generated:**

**Sequence No:** 1  
**Receipt Date:** 19960901  
**Source Description:** EPA INSPECTION  
**Generator Regulatory Status:** RCRA REGULATED  
**Generator Indicator:** LARGE QUANTITY GENERATOR

**Owner/Operator Indicator:** CURRENT OWNER  
**Owner/Operator Type:** PRIVATE  
**Owner/Operator Name:** SALTON SEA POWER  
**Phone:** (619) 622-7800  
**Address:** 4365 EXECUTIVE DR  
 SAN DIEGO  
 CA  
 92121  
 2110

**Owner/Operator Indicator:** CURRENT OWNER  
**Owner/Operator Type:** PRIVATE  
**Owner/Operator Name:** SALTON SEA POWER  
**Phone:** (619) 622-7800  
**Address:** 4365 EXECUTIVE DR  
 SAN DIEGO  
 CA  
 92121  
 2110

**SIC Sequence No:** 0001  
**SIC Primary Indicator:** PRIMARY  
**SIC Code Source:** REPORTED BY FACILITY  
**SIC Code:** 4911



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Report ID: 466601903

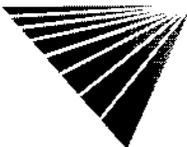
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT**

<b>Sic Code Description:</b>	TRANS. UTILITIES - ELECTRIC SERVICES		
<b>Notification Type:</b>	NOTIFICATION		
<b>Contact Address:</b>	950 W LINDSEY RD CALIPATRIA, CA 92223 -		
<b>Contact Phone:</b>	6193484000		
<b>Contact Title:</b>	SPT		
<b>Contact:</b>	JOHN KOWALCZYK		
<b>Large Quantity Generator:</b>	YES		
<b>Fields Not Reported by the Source</b>	(2)		
<b>Agency for this Site:</b>			
<b>WMUDS / SRC# 68</b>	<b>EPA/Agency ID:</b>	N/A	
<b>Agency Address:</b>	SALTON SEA UNIT III 94-084 6922 CRUMMER RD CALIPATRIA, CA 92233 7A132050004		
<b>Agency ID:</b>	7A132050004		
<b>Facility Name:</b>	SALTON SEA UNIT III 94-084		
<b>Facility Address:</b>	6922 CRUMMER RD		
<b>Facility City:</b>	CALIPATRIA		
<b>Facility State:</b>	CA		
<b>Facility Zip:</b>	92233		
<b>Facility County:</b>	IMPERIAL		
<b>Facility Type:</b>	INDUSTRIAL - FACILITIES THAT TREAT AND/OR DISPOSE OF LIQUID OR SEMISOLID WASTES FROM ANY SERVICING, PRODUCING, MANUFACTURING OR PROCESSING OPERATION OF WHATEVER NATURE, INCLUDING MINING, GRAVEL WASHING, GEOTHERMAL OPERATIONS, AIR CONDITIONING, SHIP BUILDI		
<b>Waste Discharger System Flag:</b>	T		
<b>Chapter 15 Facility Flag:</b>	T		
<b>Solid Waste Assessment Flag:</b>	F		
<b>Toxic Pits Flag:</b>	F		
<b>RCRA Flag:</b>	F		
<b>Number of Waste Management Units:</b>	1		
<b>Threat To Water:</b>	MAJOR THREAT TO WATER QUALITY		
<b>Complexity:</b>	CATEGORY B - ANY FACILITY HAVING A PHYSICAL, CHEMICAL OR BIOLOGICAL WASTE TREATMENT SYSTEM (EXCEPT FOR SEPTIC SYSTEMS WITH SUBSURFACE DISPOSAL), OR ANY CLASS II OR III DISPOSAL SITE, OR FACILITIES WITHOUT TREATMENT SYSTEMS THAT ARE COMPLEX, SUCH AS MARINA		
<b>Facility Status:</b>	ACTIVE - ANY FACILITY WITH A CONTINUOUS OR SEASONAL DISCHARGE THAT IS UNDER WASTE DISCHARGE REQUIREMENTS. THOSE FACILITIES THAT ARE NOT UNDER WASTE DISCHARGE REQUIREMENTS (WMUDS) ARE CODED AS ACTIVE WHEN: 1) THERE IS AN ACTIVE ENFORCEMENT ORDER FOR THE F		
<b>Waste 1 Nature:</b>	DESIGNATED - INFLUENT OR SOLID WASTES THAT CONTAIN NONHAZARDOUS WASTES THAT POSE A SIGNIFICANT THREAT TO WATER QUALITY BECAUSE OF THEIR HIGH CONCENTRATIONS (E.G. 800 HARDNESS, TRF, CHLORIDE). 'MANAGEABLE' HAZARDOUS WASTES (E.G. INORGANIC SALTS AND HEAVY		
<b>Waste 1 Type:</b>	AGENCY CODE (DRILLSD)		
<b>Waste 2 Nature:</b>	DESIGNATED - INFLUENT OR SOLID WASTES THAT CONTAIN NONHAZARDOUS WASTES THAT POSE A SIGNIFICANT THREAT TO WATER QUALITY BECAUSE OF THEIR HIGH CONCENTRATIONS (E.G. 800 HARDNESS, TRF, CHLORIDE). 'MANAGEABLE' HAZARDOUS WASTES (E.G. INORGANIC SALTS AND HEAVY		
<b>Waste 2 Type:</b>	DRILLING BRINE WATER (INCLUDES OIL FIELD AND GEOTHERMAL, AQUIFER RECLAMATION EXTRACTION)		
<b>Enforcements:</b>	N		



\* VISTA address includes enhanced city and ZIP.

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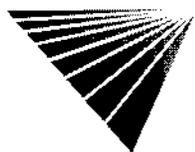
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

<b>Violations:</b>	Y
<b>WMUDS / SRC# 68</b>	EPA/Agency ID: N/A
<b>Agency Address:</b>	SALTON SEA III 94-081 6922 KRUMMER RD CALIPATRIA, CA 92233
<b>Agency ID:</b>	7A132236001
<b>Facility Name:</b>	SALTON SEA III 94-081
<b>Facility Address:</b>	6922 KRUMMER RD
<b>Facility City:</b>	CALIPATRIA
<b>Facility State:</b>	CA
<b>Facility Zip:</b>	92233
<b>Facility County:</b>	IMPERIAL
<b>Facility Type:</b>	INDUSTRIAL - FACILITIES THAT TREAT AND/OR DISPOSE OF LIQUID OR SEMISOLID WASTES FROM ANY SERVICING, PRODUCING, MANUFACTURING OR PROCESSING OPERATION OF WHATEVER NATURE INCLUDING MINING, GRAVEL WASHING, GEOTHERMAL OPERATIONS, AIR CONDITIONING, SHIP BUILD
<b>Waste Discharger System Flag:</b>	T
<b>Chapter 15 Facility Flag:</b>	T
<b>Solid Waste Assessment Flag:</b>	F
<b>Toxic Pits Flag:</b>	F
<b>RCRA Flag:</b>	F
<b>Number of Waste Management Units:</b>	1
<b>Threat To Water:</b>	MAJOR THREAT TO WATER QUALITY
<b>Complexity:</b>	CATEGORY B - ANY FACILITY HAVING A PHYSICAL, CHEMICAL OR BIOLOGICAL WASTE TREATMENT SYSTEM (EXCEPT FOR SEPTIC SYSTEMS WITH SUBSURFACE DISPOSAL), OR ANY CLASS II OR III DISPOSAL SITE, OR FACILITIES WITHOUT TREATMENT SYSTEMS THAT ARE COMPLEX, SUCH AS MARINA
<b>Facility Status:</b>	ACTIVE - ANY FACILITY WITH A CONTINUOUS OR SEASONAL DISCHARGE THAT IS UNDER WASTE DISCHARGE REQUIREMENTS. THOSE FACILITIES THAT ARE NOT UNDER WASTE DISCHARGE REQUIREMENTS (WMUDS) ARE CODED AS ACTIVE WHEN: 1) THERE IS AN ACTIVE ENFORCEMENT ORDER FOR THE F
<b>Waste 1 Nature:</b>	"DESIGNATED - INFLUENT OR SOLID WASTES THAT CONTAIN NONHAZARDOUS WASTES THAT POSE A SIGNIFICANT THREAT TO WATER QUALITY BECAUSE OF THEIR HIGH CONCENTRATIONS (E.G. 800 HARDNESS, TRF, CHLORIDE). 'MANAGEABLE' HAZARDOUS WASTES (E.G. INORGANIC SALTS AND HEAVY AGENCY CODE (DRIBRID)
<b>Waste 1 Type:</b>	
<b>Waste 2 Nature:</b>	"DESIGNATED - INFLUENT OR SOLID WASTES THAT CONTAIN NONHAZARDOUS WASTES THAT POSE A SIGNIFICANT THREAT TO WATER QUALITY BECAUSE OF THEIR HIGH CONCENTRATIONS (E.G. 800 HARDNESS, TRF, CHLORIDE). 'MANAGEABLE' HAZARDOUS WASTES (E.G. INORGANIC SALTS AND HEAVY
<b>Waste 2 Type:</b>	"DRILLING MUDS"
<b>Enforcements:</b>	N
<b>Violations:</b>	N
<b>Fields Not Reported by the Source</b>	Epa ID(2), Swis ID(2), Department of Defense Flag(2), Open To Public(2), Rank(2)
<b>Agency for this Site:</b>	

<b>VISTA Address*:</b>	<b>6922 CRUMMER RD CALIPATRIA, CA 92233</b>	<b>VISTA ID#:</b>	66111598
		<b>Distance/Direction:</b>	0.99 MI / SW
		<b>Plotted as:</b>	Point
<b>ERNS - Emergency Response Notification System / SRC# 8</b>		<b>Agency ID:</b>	533023
<b>Agency Address:</b>	SAME AS ABOVE		
<b>NRC Report #:</b>	533023		
<b>Location:</b>	6922 CRUMMER RD		

Map ID  
**5**



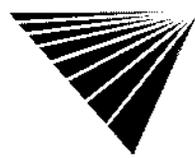
**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**County:** CALIPATRIA CA 92233  
**Discharger Last Name:** IMPERIAL  
**Discharger First Name:** CARLSEN  
**Discharger Company:** BRUCE  
**Discharger Organization Type:** CAL ENERGY  
**Discharger Address:** PRIVATE ENTERPRISE  
 950 WEST LINDSEY  
 CALITATRIA CA  
 7603484205  
**Discharger Phone #:** 21-JUN-00  
**Date/Time Reported:** 21-JUN-00  
**Date/Time Completed:** RJC7258  
**Call Taker:** UNKNOWN  
**Cause of Incident:** 21-JUN-00  
**Date/Time of Incident:** THE CALLER REPORTED THAT DUETO THE FAILURE OF AN EXPANSION SPOOL, WHICH IS A PIPE FITTING FOR A PUMP, THE MATERIAL WAS RELEASED.  
**Description of Incident:** PIPELINE  
**Incident Type:** NO  
**Air Release:** YES  
**Land Release:** NO  
**Water Release:** NO  
**Ground Release:** NO  
**Facility Release:** NO  
**Other Release:** NO  
**Media Affected:** SOIL  
**Source:** UNAVAILABLE  
**Comments:** VAC TRUCK USED,EXCAVATED SOIL,INVESTIGATION UNDERWAY  
**CAS #:** 000000-00-0  
**CHRIS Code:** NCC  
**Material Spilled:** GEOTHERMAL BRINE  
**Material Quantity:** 55000  
**Unit Of Measuere:** GALLON(S)  
**Fields Not Reported by the Source** Name(1), Location II(1), Location III(1), Discharger Secondary Address(1),  
**Agency for this Site:** Additional Medium Information(1)

VISTA Address*:	<b>SALTON AND SEA UNIT NO.5 6922 CRUMMER RD CALIPATRIA, CA 92233</b>	VISTA ID#:	65998396
		Distance/Direction:	0.99 MI / SW
		Plotted as:	Point

Map ID  
**5**

**ERNS - Emergency Response Notification System / SRC# 8** Agency ID: 537787  
**Agency Address:** SAME AS ABOVE  
**NRC Report #:** 537787  
**Name:** SALTON AND SEA UNIT NO.5  
**Location:** 6922 CRUMMER RD  
 CALIPATRIA CA 92233  
**County:** IMPERIAL  
**Discharger Last Name:** CARLSEN  
**Discharger First Name:** BRUCE  
**Discharger Company:** CAENERGY

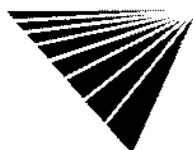


**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

**Discharger Organization Type:** PRIVATE ENTERPRISE  
**Discharger Address:** 950 WEST LINDSEY ROAD  
 CALIPATRIA CA 92233  
 7603484000  
**Discharger Phone #:**  
**Date/Time Reported:** 06-AUG-00  
**Date/Time Completed:** 06-AUG-00  
**Call Taker:** HNR4889  
**Cause of Incident:** UNKNOWN  
**Date/Time of Incident:** 06-AUG-00  
**Description of Incident:** UNKNOWN SIZE ON PROCESS PIPERUBBER VIBRIATION SPOOL FAILED DUE TO UNKNOWN CAUSES  
 PIPELINE  
**Incident Type:**  
**Air Release:** NO  
**Land Release:** YES  
**Water Release:** NO  
**Ground Release:** NO  
**Facility Release:** NO  
**Other Release:** NO  
**Media Affected:** SOIL  
**Source:** UNAVAILABLE  
**Comments:** VACUUM TRUCK USED FOR CLEANUP / SPILL SECURED  
**CAS #:** 000000-00-0  
**CHRIS Code:** NCC  
**Material Spilled:** GEOTHERMAL BRINE  
**Material Quantity:** 72000  
**Unit Of Measuere:** GALLON(S)

<b>ERNS - Emergency Response Notification System / SRC# 8</b>	<b>Agency ID:</b>	522021
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**Agency Address:** UNIT 3 POWER PLANT  
 6922 CRUMMER RD  
 CALIPATRIA, CA 0  
 522021  
**NRC Report #:**  
**Name:** UNIT 3 POWER PLANT  
**Location:** 6922 CRUMMER RD  
 CALIPATRIA CA  
 IMPERIAL  
**County:**  
**Discharger Last Name:** CARLSEN  
**Discharger First Name:** BRUCE  
**Discharger Company:** CAL ENERGY  
**Discharger Organization Type:** PRIVATE ENTERPRISE  
**Discharger Address:** 950 WEST LINDSEY  
 CALITATRIA CA  
 7603484205  
**Discharger Phone #:**  
**Date/Time Reported:** 06-MAR-00  
**Date/Time Completed:** 06-MAR-00  
**Call Taker:** DLS9220  
**Cause of Incident:** EQUIPMENT FAILURE  
**Date/Time of Incident:** 05-MAR-00



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 466601903

Date of Report: January 14, 2002

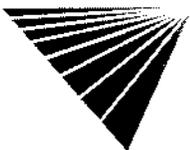
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**SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.**

<b>Description of Incident:</b>	WHILE FILLING A NEW TANK OF 4.8 PERCENT HYDROCHLORIC ACID DEVELOPED LEAK
<b>Incident Type:</b>	FIXED
<b>Air Release:</b>	NO
<b>Land Release:</b>	YES
<b>Water Release:</b>	NO
<b>Ground Release:</b>	NO
<b>Facility Release:</b>	NO
<b>Other Release:</b>	NO
<b>Media Affected:</b>	SOIL
<b>Additional Medium Information</b>	SPILL CONTAINED ON SITE
<b>Source:</b>	UNAVAILABLE
<b>Comments:</b>	SPILL BEING CLEANED UP USING VACUUM TRUCKS
<b>CAS #:</b>	007647-01-0
<b>CHRIS Code:</b>	HCL
<b>Material Spilled:</b>	HYDROCHLORIC ACID
<b>Material Quantity:</b>	49000
<b>Unit Of Measure:</b>	GALLON(S)
<b>Fields Not Reported by the Source Agency for this Site:</b>	Location II(2), Location III(2), Discharger Secondary Address(2), Additional Medium Information(1)

<b>AST - Above Ground Storage Tank / SRC# 60</b>		<b>EPA/Agency ID:</b>	N/A
<b>Agency Address:</b>	SALTON SEA UNIT 3 POWER PLANT 6922 CRUMMER RD CALIPATRIA, CA 92233		
<b>Facility Name:</b>	SALTON SEA UNIT 3 POWER PLANT		
<b>Facility Address:</b>	6922 CRUMMER RD CALIPATRIA  CA 92233 7		
<b>Facility Region:</b>	7		
<b>Owner Name:</b>	MAGMA OPERATING CO		
<b>Owner Address:</b>	950 W LINDSEY RD CALIPATRIA  CA 92233		
<b>Total Underground Tanks:</b>	NOT REPORTED		
<b>Total Tanks Removed:</b>	UNKNOWN		
<b>Fields Not Reported by the Source Agency for this Site:</b>	Owner Name II(1), Total Aboveground Tanks(1)		



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 466601903

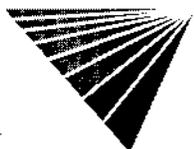
Date of Report: January 14, 2002

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**UNMAPPED SITES**

No Records Found



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\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: **466601903**

Date of Report: **January 14, 2002**

Version 2.7

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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## DESCRIPTION OF DATABASES SEARCHED

### A) DATABASES SEARCHED TO 1 MILE

**NPL**  
**SRC#: 19** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for National Priorities List was October, 2001.**

The NPL Report is the US EPA's registry of the nation's worst uncontrolled or abandoned hazardous waste sites. NPL sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

**SPL**  
**SRC#: 113** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for CalSites Database was October, 2000.**

This database is provided by the Cal. Environmental Protection Agency, Dept. of Toxic Substances Control. The agency may be contacted at: 916-323-3400.

**CORRACTS**  
**SRC#: 14** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS Corrective Action Sites was August, 2001.**

The CORRACTS database contains information concerning RCRA facilities that have conducted, or are currently conducting a corrective action. A Corrective Action Order is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may also be imposed as a requirement of receiving and maintaining a TSDF permit.

**RCRIS-TSDC**  
**SRC#: 556** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS TSDs Subject to Corrective Action was August, 2001.**

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDCs are treatment, storage and/or disposal facilities that are subject to corrective action under RCRA.



## B) DATABASES SEARCHED TO 1 MILE

**CERCLIS**  
**SRC#: 17** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Comprehensive Environmental Response, Compensation and Liability Information Sys was October, 2001.**

The CERCLIS database is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the U.S. EPA for the release, or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the National Priorities List (NPL).

**NFRAP**  
**SRC#: 18** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for No Further Remedial Action Planned was October, 2001.**

The No Further Remedial Action Planned Report (NFRAP), also known as the CERCLIS Archive, contains information pertaining to sites which have been removed from the U.S. EPA's CERCLIS database. NFRAP sites may be sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

**SCL**  
**SRC#: 112** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for CalSites Database was October, 2000.**

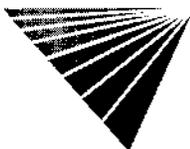
This database is provided by the Department of Toxic Substances Control. Two-thirds of these sites have been classified, based on available information, as needing "No Further Action" (NFA) by the Department of Toxic Substances Control. The remaining sites are in various stages of review and remediation to determine if a problem exists at the site. Several hundred sites have been remediated and are considered certified. Some of these sites may be in long term operation and maintenance.

**RCRIS-TSD**  
**SRC#: 12** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS Treatment, Storage and Disposal Facilities was August, 2001.**

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

**SWLF**  
**SRC#: 23** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for USGS Solid Waste Landfills was December, 1991.**

This database is provided by the United States Geological Survey. The agency may be contacted at: 703-648-5613.



**SWLF**  
**SRC#: 163**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Solid Waste Inventory System was November, 2001.**

This database is provided by the Integrated Waste Management Board. The agency may be contacted at: 916-255-4021.

**WMUDS**  
**SRC#: 68**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Waste Management Unit Data System was February, 1999.**

This database is provided by the State Water Resources Control Board. The agency may be contacted at: 530-892-0323. This is used for program tracking and inventory of waste management units. This system contains information from: Facility, Waste Management Unit, SWAT Program and Report Summary Information, Chapter 15 (formerly Subchapter 15), TPCA and RCRA Program Information, Closure Information; also some information from the WDS (Waste Discharge System).

**LUST-REG**  
**SRC#: 108**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Region 6 Leaking Underground Storage Tanks was July, 2001.**

This database is provided by the Lahontan Region Six South Lake Tahoe. The agency may be contacted at: 530-542-5400.

**LUST-REG**  
**SRC#: 109**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Region 7 Leaking Underground Storage Tanks was October, 2001.**

This database is provided by the Regional Water Quality Control Board, Region #7. The agency may be contacted at: 760-346-7491.

**LUST**  
**SRC#: 164**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Leaking Underground Storage Tank Information System was August, 2001.**

This database is provided by the California Environmental Protection Agency. The agency may be contacted at: 916-341-5740.



**CORTESE**  
**SRC#: 53**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Cortese List - Hazardous Waste Substance Site List was April, 1998.**

This database is provided by the Office of Environmental Protection, Office of Hazardous Materials. The agency may be contacted at: 916-445-6532. The California Governor's Office of Planning and Research annually publishes a listing of potential and confirmed hazardous waste sites throughout the State of California under Government Code Section 65962.5. This database (CORTESE) is based on input from the following: (1)CALSITES-Department of Toxic Substances Control, Abandoned Sites Program Information Systems; (2)SARA Title III Section III Toxic Chemicals Release Inventory for 1987, 1988, 1989, and 1990; (3)FINDS; (4)HWIS-Department of Toxic Substances Control, Hazardous Waste Information System. Vista has not included one time generator facilities from Cortese in our database.; (5)SWRCB-State Water Resources Control Board; (6)SWIS-Integrated Waste Management Control Board (solid waste facilities); (7)AGT25-Air Resources Board, dischargers of greater than 25 tons of criteria pollutants to the air; (8)A1025-Air Resources Board, dischargers of greater than 10 and less than 25 tons of criteria pollutants to the air; (9)LTANK-SWRCB Leaking Underground Storage Tanks; (10)UTANK-SWRCB Underground tanks reported to the SWEEPS systems; (11)IUR-Inventory Update Rule (Chemical Manufacturers); (12)WB-LF- Waste Board - Leaking Facility, site has known migration; (13)WDSE-Waste Discharge System - Enforcement Action; (14)DTSCD-Department of Toxic Substance Control Docket.

**BORDER-ZON**  
**SRC#: 46**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Deed Restriction Properties Report was October, 2001.**

The Deeds Restrictions list, also known as the Border Zone Property List, contains information concerning voluntary deed restriction. These agreements are made with owners of property who propose building residences, schools, hospitals, or day care centers on property that is on or within 2,000 feet of potentially hazardous waste site.

**TOXICPITS**  
**SRC#: 49**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for Toxic Pits was February, 1995.**

This database is provided by the Water Quality Control Board, Division of Loans Grants. The agency may be contacted at: 916-227-4396.

**USGS-WELLS**  
**SRC#: 3**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for USGS Water Wells was March, 1998.**

The Ground Water Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used or documented during research.



### C) DATABASES SEARCHED TO 1 MILE

**RCRIS-VIOL** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**SRC#: 11** **The agency release date for RCRIS Facilities with Violations was August, 2001.**

The Resource Conservation and Recovery Act Information System (RCRIS) identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS Violations report contains information concerning facilities that have been cited for violations of RCRA, as well as any enforcement actions taken against the facility.

**UST** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**SRC#: 45** **The agency release date for Underground Storage Tanks was January, 1994.**

This historical database is provided by the State Water Resources Control Board, Office of Underground Storage Tanks. Please refer to the local level UST list for more current information. Be advised that some states do not require registration of heating oil tanks, especially those used for residential purposes.

**AST** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**SRC#: 60** **The agency release date for Aboveground Storage Tanks was January, 2001.**

This database is provided by the State Water Resources Control Board. The agency may be contacted at: 916-227-4364.

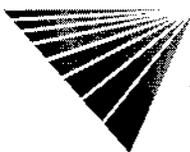
**TRIS** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**SRC#: 2** **The agency release date for Toxic Release Inventory System was January, 1998.**

All facilities that manufacture, process, or import toxic chemicals in quantities in excess of 25,000 pounds per year are required to register with the EPA under Section 313 of the Superfund Amendments and Reauthorization Act (SARA Title III) of 1986. Data contained in the TRIS system covers approximately 20,000 sites and 75,000 chemical releases.

### D) DATABASES SEARCHED TO 1 MILE

**ERNS** VISTA conducts a database search to identify all sites within 1 mile of your property.  
**SRC#: 8** **The agency release date for Emergency Response Notification System was December, 2000.**

ERNS is a national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party.



**RCRA-LQG**  
**SRC#: 16**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS Large Quantity Generators was August, 2001.**

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

**RCRIS-SQG**  
**SRC#: 15**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS Small Quantity Generators was August, 2001.**

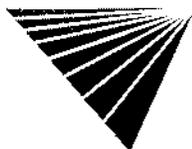
The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small Quantity Generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

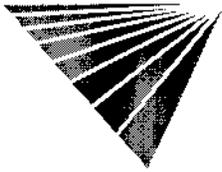
**RCRIS-NOTI**  
**SRC#: 1298**

VISTA conducts a database search to identify all sites within 1 mile of your property.  
**The agency release date for RCRIS Notifiers was August, 2001.**

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS Notifiers contains information on formerly regulated RCRA sites with more complete historical information.

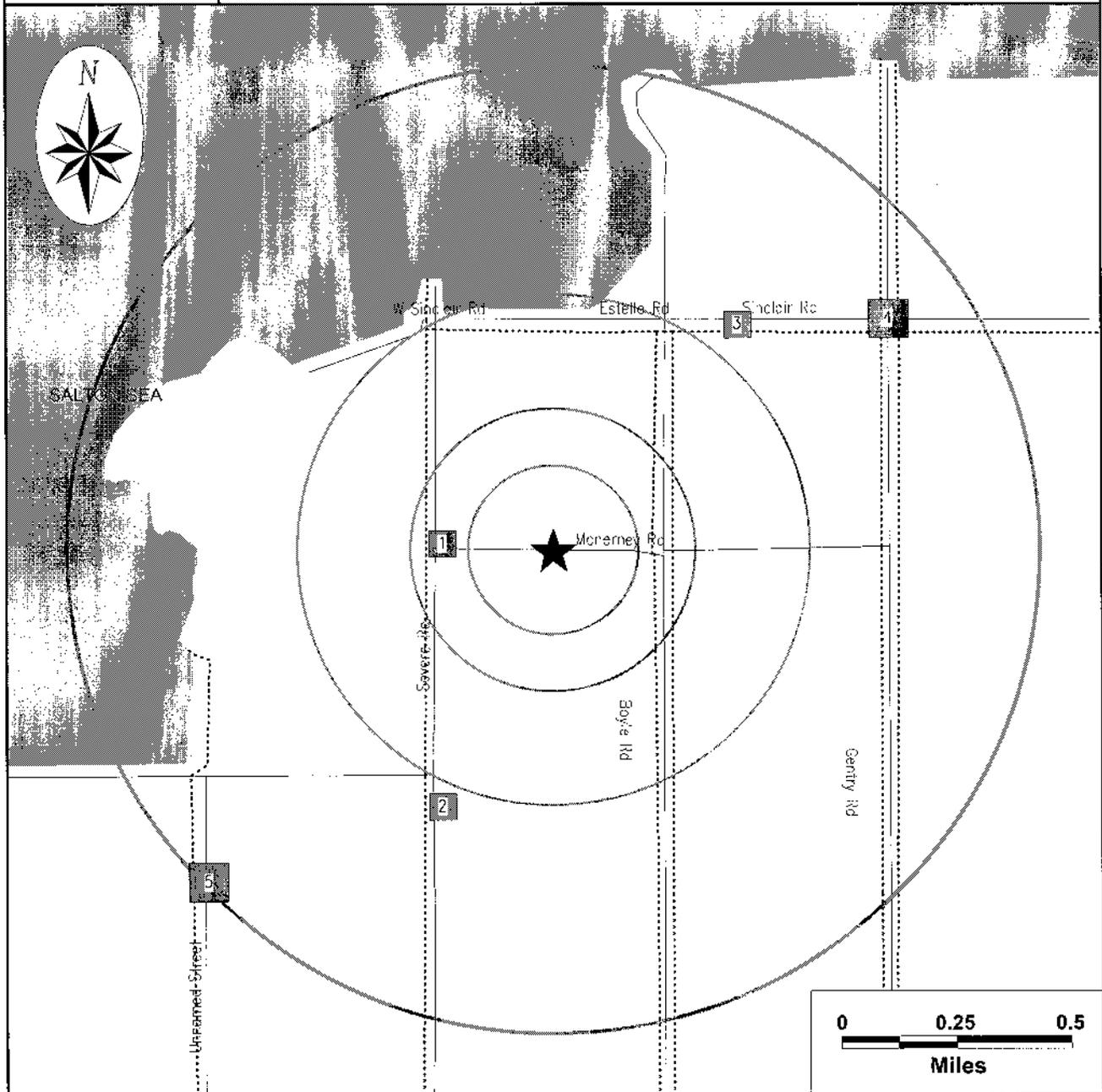
End of Report





# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## Map of Sites within One Mile



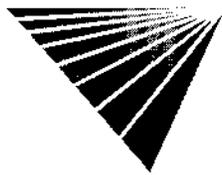
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	△	○
	Multiple Sites	◆	■	△	○
	Highways and Major Roads	NPL, SPL, CORRACTS (TSD)	CERCLIS, NFRAP, TSD, LUST, SWLF, SCL	RCRA VIOL, TRIS, UST	ERNS, GENERATORS
	Roads	If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.			
	Railroads				
	Rivers or Water Bodies				
	Utilities				

For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

Report ID: 466601903

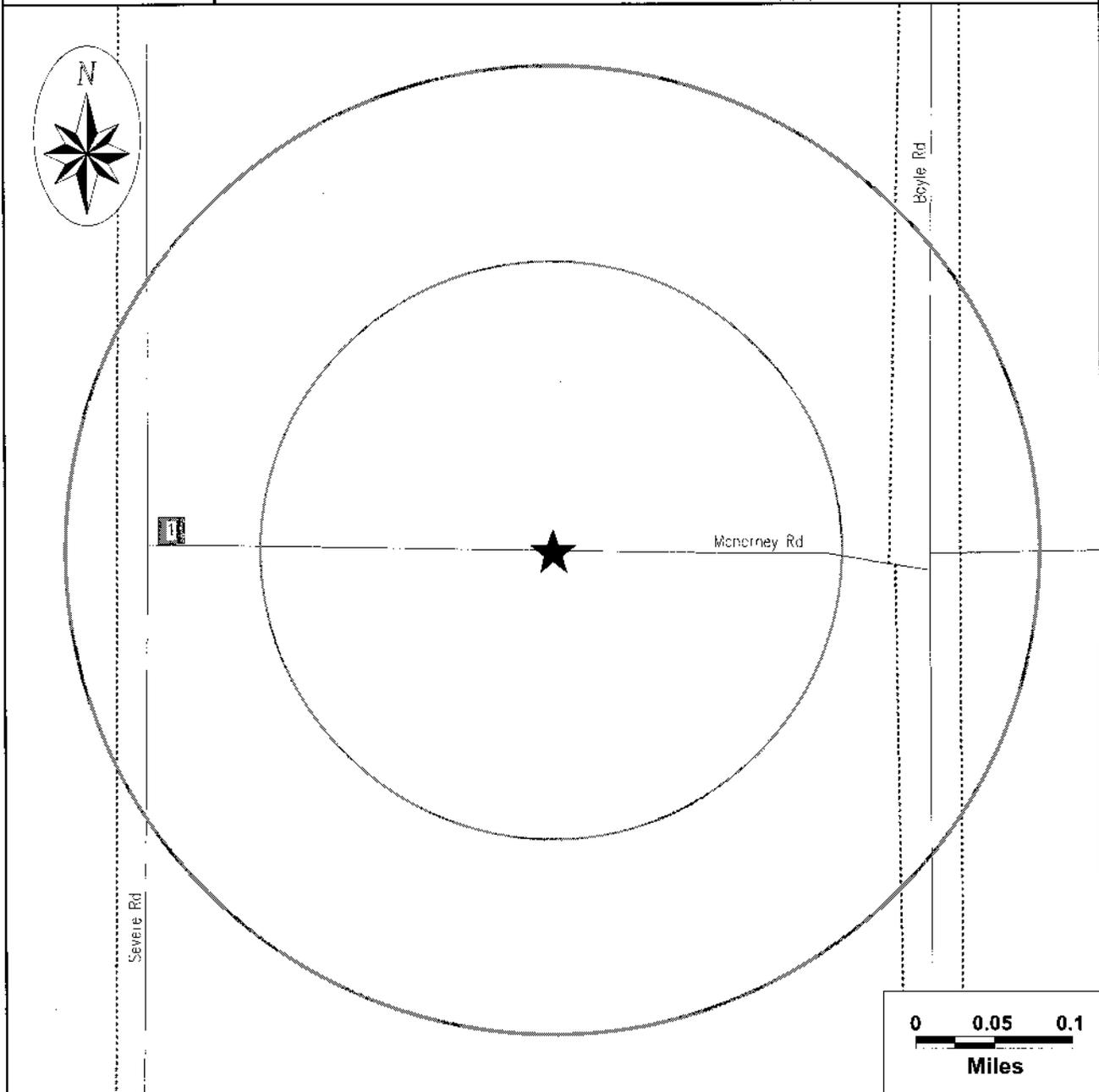
Date of Report: January 14, 2002

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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## Map of Sites within Quarter Mile



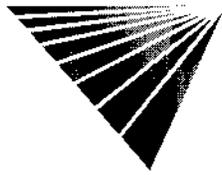
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	△	○
	Multiple Sites	◆	■	▲	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	RCRA VIOL, TRIS, UST	ERNS, GENERATORS
Highways and Major Roads Roads Railroads Rivers or Water Bodies Utilities	<p>If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.</p>				

For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

Report ID: 466601903

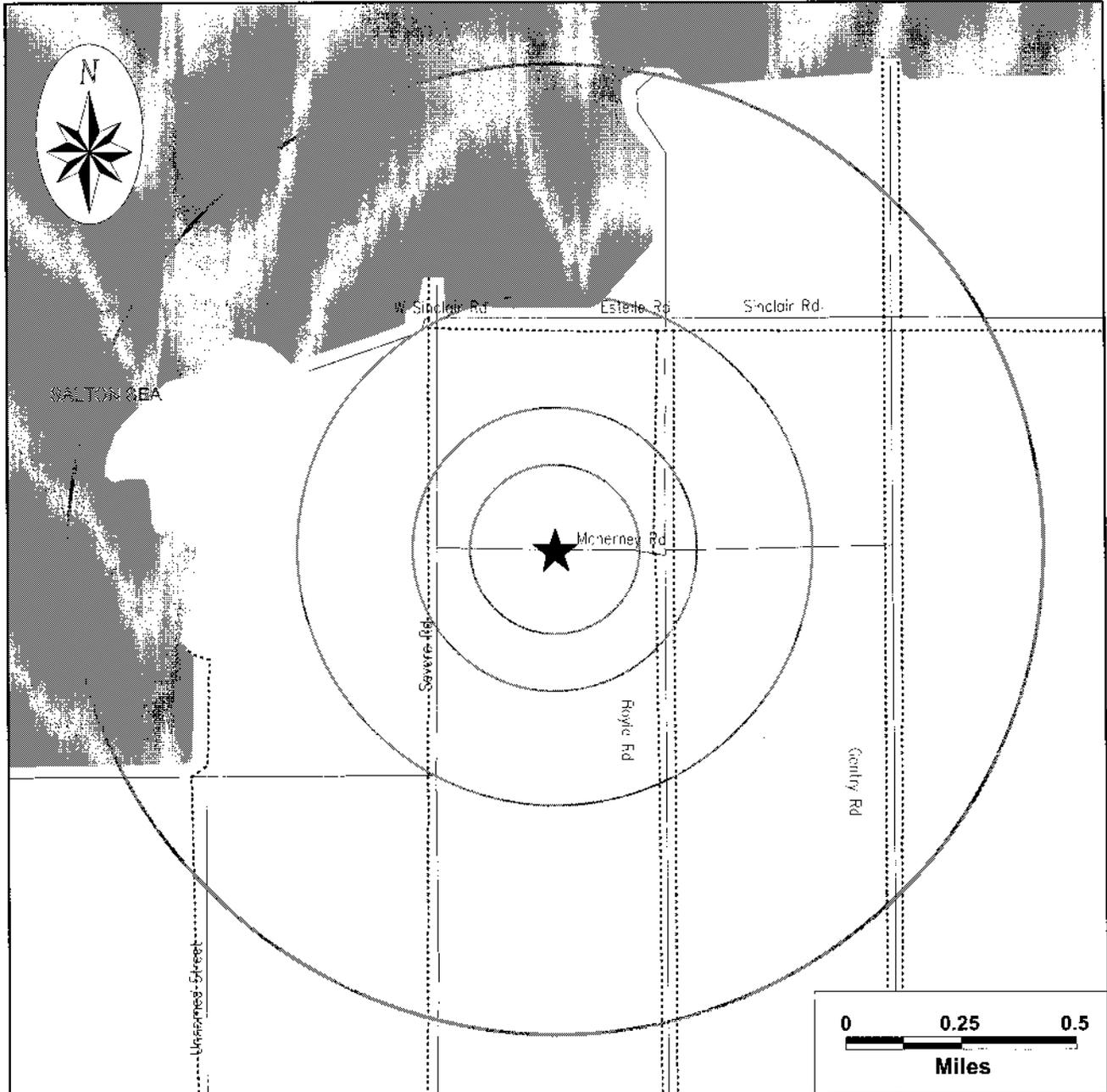
Date of Report: January 14, 2002

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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## Street Map



Subject Site



Highways and Major Roads  
Roads  
Railroads  
Rivers or Water Bodies  
Utilities



**AREAS OF EXPERTISE**

- Environmental Assessments
- Compliance Management
- Phase I and Phase II Investigations
- Hydrogeologic field Investigations
- Geophysical field studies

**EDUCATION**

B.S., Geological Sciences/Hydrogeology, San Diego State University, 1991

**REGISTRATION**

Registered Geologist: California, No. 7115, 2000

Certified Hydrogeologist: California, No. 723, 2001

**PROFESSIONAL HISTORY**

URS Corporation, Project Geologist, 1992-present

Applied Geosciences, Assistant Staff Scientist, 1991

Nachant Environmental, Assistant Geologist/Field Technician, 1990-1991

**TRAINING**

OSHA 40-Hour Health & Safety Training, 1991, 2000

OSHA Annual Health & Safety Refresher, 1992-

**REPRESENTATIVE EXPERIENCE**

Mr. Wittig has more than 10 years of responsible experience in managing and conducting multi-disciplinary projects involving geologic, hydrogeologic, geotechnical and environmental components. Mr. Wittig has successfully obtained regulatory closure for sites throughout California. His relevant project experience includes:

- **Phase I Environmental Site Assessments, San Diego, Los Angeles, Orange, Riverside, Imperial, San Bernardino and San Mateo Counties, CA.** Conducted more than 50 Phase I ESAs in accordance with current ASTM standards including site reconnaissance for the indications of past or present uses of hazardous materials, public records review and identification of historical site uses. The Phase I assessments have involved a variety of property usages including commercial/retail, manufacturing, agricultural, and office/light industrial; several projects involved multiple sites or very large acreages. Based on the Phase I ESA results, many of these sites were additionally evaluated with Phase II subsurface investigations.
- **Phase I and Phase II Environmental Assessments, Nutrasweet/Kelco, San Diego, CA.** As part of a property transfer arrangement, performed a Phase I ESA and Phase II field investigation to establish baseline environmental conditions for the manufacturing facility. As lead field geologist, prepared workplan and coordinated field investigations involving the advancement of more than 30 soil borings, geologic logging, monitoring well installation, hydrogeologic and tidal assessment, evaluation of field and laboratory data and preparation of final report.
- **Mercedes-Benz USA Facilities, Hollywood and South San Francisco, California.** Managed decommissioning of west coast headquarters facility in Hollywood, and regional vehicle preparation and training center in South San Francisco. Projects involved conducting Phase I ESAs, removal of 7 USTs, 39 hydraulic hoists, soil and groundwater evaluations and obtaining regulatory site closure for both properties.
- **SFPP Carson to Norwalk 14-mile petroleum pipeline project, Los Angeles County.** Managed tasks which involved performing an environmental assessment of the preferred and alternate pipeline routes, coordination of environmental investigations with local and state regulatory agencies, coordination with the Los Angeles Regional Water Quality Control Board in preparing and implementing construction dewatering and hydrostatic test water

1998

NPDES discharge permit applications for pipeline crossings at the San Gabriel and Los Angeles Rivers, data analysis and agency reporting.

- **SFPP Camp Pendleton 26-mile petroleum pipeline project, San Diego County.** Managed tasks which involved an evaluation of surface water bodies and groundwater likely to be encountered during pipeline construction, coordination with the San Diego Regional Water Quality Control Board in preparing and implementing construction dewatering NPDES discharge permit applications for pipeline crossings four creek/river crossings at the base, and coordinating hydrostatic test water discharge to the San Luis Rey River. Also managed contaminated soil characterization tasks involving statistical evaluations of analytical data in accordance with EPA SW-846.
- **Phase I and Phase II Environmental Assessments, Aircraft/Aerospace Manufacturing Facility, San Diego County, CA.** Conducted several field investigations at the site involving heavy metal, volatile organic compounds (VOCs), and petroleum hydrocarbon contamination of soil and groundwater. Field activities conducted at the site included advancing numerous mud-rotary, hollow-stem auger and CPT borings, monitoring well installations, performing tidal influence studies, and soil and groundwater sampling for site characterization. Also installed several monitoring wells and a pumping well at the facility to determine the regional effects of VOC-impacted groundwater at the facility on regional groundwater supplies.
- **Environmental Site Assessment, MTDB Light-Rail Extension, San Diego, CA.** Based on the results of a Phase I ESA to identify potential sources of contamination within a 1,000-foot-wide corridor along a 3.2-mile-long railway right-of-way in downtown San Diego, prepared a workplan and conducted a Phase II subsurface investigation along the length of the right-of-way, and an additional subsurface investigation and construction oversight focused on a depressed section of the light-rail extension.
- **Otay Mesa Generating Project, San Diego, California.** Conducted a Phase I ESA for the site in 1997, and currently managing compliance certification services related to construction and operation of a 510-MW natural-gas-fired power plant to be constructed between July 2001 and July 2003.
- **Manzanita Indian Reservation, San Diego County.** As the Project Hydrogeologist, coordinated work plan with US EPA and implemented a water quality assessment at the Reservation involving characterization of groundwater

resources, source identification for nitrate-impacted groundwater, installation of two residential drinking water wells, preparation of a wellhead protection plan and recommendations for replacement and rehabilitation of existing water wells at the Reservation to improve water quality to its residents.

- **Burn-Ash Relocation, Chula Vista, CA.** Managed relocation of approximately 50,000 cubic yards of stockpiled and subsurface burn-ash containing soil from an undeveloped site to facilitate redevelopment as a commercial facility.
- **National City Well Field, National City, California.** Managed installation of two deep test wells to evaluate availability and quality of groundwater for the installation of replacement wells at the well field. Performed pumping tests and aquifer analysis to evaluate options for construction of the replacement wells.
- **Mojave Pipeline, Central to Southern California.** Provided technical support during involving environmental assessment of pipeline alignment routes for the presence of known hazardous materials sites, domestic water wells and community water wells.
- **Contaminated Fill Soil Characterization, Riverside County.** As the Project Geologist, coordinated regulatory-ordered characterization and removal of approximately 270,000 cubic yards of contaminated fill material that was improperly placed within a former open-pit mine which threatened regional groundwater supplies. The evaluation involved investigation of the site under Santa Ana RWQCB direction, and characterizing metals-impacted fill material using a statistically-based sampling plan in accordance with EPA SW-846 so that materials could be removed from the mine and classified for other uses.

**AREAS OF EXPERTISE**

- Waste Management and Contamination Assessments
- Phase I Environmental Site Assessments
- Subsurface and Remedial Investigations
- Environmental Permitting and Compliance Reviews
- Preliminary Endangerment Assessments and Removal Actions

**EDUCATION**

University of California,  
Davis: B.S., Geology, 1988

**REGISTRATION**

California Registered  
Geologist: Lic. No. 7268

**PROFESSIONAL HISTORY**

URS Corporation, Project  
Geologist, 1993-present

Pacific Environmental  
Group, Senior Staff  
Geologist, 1991-92

U.S. Geological Survey -  
Water Resources Division,  
Hydrologist, 1988-90

**REPRESENTATIVE EXPERIENCE**

Ms. Shirley has been involved in a variety of environmental assessments and investigations in the waste management practice for over ten years. She has successfully managed large and multi-site Phase I and Phase II Environmental Site Assessments (ESAs) for government and private clients. She has also managed investigations and Removal Actions under California Department of Toxic Substances Control (DTSC) oversight and has successfully obtained "No Further Action" determinations for several proposed school sites. She has also conducted and managed environmental compliance reviews/audits, developed waste management plans, evaluated remedial alternatives and obtained UST closures. Her relevant project experience includes:

- **Los Angeles Unified School District (LAUSD).** Conducted Phase I ESAs, Preliminary Endangerment Assessments (PEAs), Removal Actions, and UST removals/closures in accordance with DTSC guidelines and the California Education Code requirements. Activities included coordinating site access with LAUSD Real Estate personnel and legal counsel, completing environmental site inspections and interviews with current property owners, conducting scoping meetings with the DTSC, and preparing Preliminary Endangerment Assessment (PEA) Work Plans, PEA Reports, and Removal Action Work Plans (RAWs) under expedited schedules. Currently managing Removal Actions of soil with elevated lead, arsenic, and PAH concentrations at three proposed school sites.
- **County of San Diego, Department of Public Works.** Conducted a subsurface investigation to investigate the extent of petroleum hydrocarbons and the potential presence of burn ash at the former San Diego County Encinitas I Burnsite. Successfully implemented our proposed approach to assess the horizontal and vertical extent of contamination during a single phase of investigation by discussing and negotiating additional work with the County Department of Environmental Health (DEH) as mobile laboratory results became available in the field. Obtained regulatory case closure with DEH for the unauthorized release.
- **BFGoodrich Aerospace, Chula Vista.** Served as field geologist and assistant project manager for investigations involving hexavalent chromium, metals, volatile organics and petroleum hydrocarbon contamination of soil and groundwater. Services performed included drilling, well

installation and abandonment, soil and groundwater sampling, UST removal, storm water conveyance system investigation and sampling, workplan development, permit preparation, cost estimating and report writing. Successfully conducted a large-scale subsurface investigation, collaboratively with the Port of San Diego, under an expedited schedule.

- **Port of Los Angeles, As-Needed Environmental Services Contract.** Managed field program for investigation of the nature and extent of contamination at over 30 industrial and commercial properties prior to acquisition of the properties by the Port for the Harry Bridges Boulevard Realignment Project, a major transportation link between the Port of Los Angeles and the Los Angeles Basin. Coordinated and supervised geophysical surveys at approximately 10 of the properties to locate subsurface structures and inactive USTs. Developed and implemented sampling and analysis plans, conducted subsurface investigations, and developed remedial alternatives and associated cost estimates.
- **Otay Mesa Generating Project, San Diego County, California.** Prepared the Hazardous Materials Handling and Waste Management sections of the Application for Certification (AFC) for the proposed Otay Mesa Generating Project. Identified preferred disposal options and developed hazardous materials and waste management procedures and mitigation measures. Evaluated the environmental consequences and cumulative impacts related to the storage, use, and disposal of waste and hazardous materials from the proposed project.
- **Pastoria Energy Facility, Kern County, California.** Task Leader of the Hazardous Materials Handling and Waste Management sections of the AFC for the proposed Pastoria Energy Facility. Responsible for the evaluation of the facility's hazardous and non-hazardous materials management practices and the environmental effects of the proposed construction and operational waste disposal practices. Prepared and submitted testimony related to the Hazardous Materials Handling and Waste Management AFC Sections for the California Energy Commission (CEC) Evidentiary Hearings.
- **Rosarito Power Plant, Rosarito, Baja California,**

**Mexico; Monterrey Power Plant, Monterrey, Nuevo Leon, Mexico.** Assistant Project Manager responsible for conducting due diligence investigations of soil and groundwater quality as part of a leasing agreement with the Mexican Government for the construction of new power plants. Projects were completed on accelerated two-week schedules; fieldwork mobilization required considerable ingenuity. Provided preliminary cost estimates for remediation of hydrocarbon- and metals-impacted soil.

- **Maricopa County, Northwest Regional Landfill.** Conducted a Phase I ESA and Environmental Compliance Audit to assist in the assessment of the current and future value of the landfill, prior to Maricopa County's consideration of bids for purchase of the landfill. Assessments included detailed records reviews, historical aerial photograph and map review, site reconnaissance and interviews. Identified additional permitting requirements and areas of potential soil contamination. Discovered illegal and improper disposal on the perimeter of the landfill by an adjacent landowner.
- **Synagro Regional Composting Facility, Riverside County.** Conducted a Phase I ESA and Environmental Compliance Review for the potential buyer of a biosolids composting facility. Conducted detailed file reviews and extensive interviews with the current facility owner and local regulatory agency personnel. Identified areas of lack of compliance and discussed options for obtaining compliance with the Local Enforcement Agency (LEA). Assisted client in preparation of permit application for modification of existing Conditional Use Permit.
- **Smithey Recycling, Phoenix, Arizona.** Performed Phase I and II ESAs for a scrap metal recycling and former foundry site as part of a due diligence investigation during a property transfer. Worked successfully with legal team. Identified locations of former foundry operations and conducted soil sampling to assess areas of bag house dust and foundry waste storage. Assisted client in proper regulatory closure of former USTs.