



US Army Corps of Engineers
Los Angeles District

**Santa Cruz River, Paseo de las Iglesias
Pima County, Arizona
Final Feasibility Report
and
Environmental Impact Statement**

**APPENDIX G
PHASE I SITE ASSESSMENT**

July 2005

U.S. ARMY CORPS OF ENGINEERS, LOS ANGELES DISTRICT
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**PHASE I ENVIRONMENTAL SITE
ASSESSMENT FOR THE
PASEO DE LAS IGLESIAS PROJECT,
PIMA COUNTY, ARIZONA**

Submitted to:

U.S. ARMY CORPS OF ENGINEERS

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EXECUTIVE SUMMARY

The Paseo de las Iglesias site is located in Pima County, Arizona, within the urbanized area of South Tucson. The site consists of approximately 9 square miles along the east and west sides of the Santa Cruz River, an ephemeral stream that occasionally flows in response to storm events. The majority of the study area consists of residential properties. Various commercial and light industrial facilities are, for the most part, concentrated along the study area perimeter and on the eight major east-west thoroughfares that cross the study area.

SWCA reviewed seventy-two aerial photographs made from 1935, 1959, and 1963 through 2001. The aerial photograph review did not reveal evidence of RECs. The most recent (1954, photo-revised 1992, text revised 1995) USGS topographic map of the site did not reveal evidence of any recognized environmental conditions (RECs). Several interviews were attempted, but because of the vast amount of documented material in the form of reports available, interviewees provided very little information and suggested that extensive file reviews were necessary to adequately summarize environmental issues related to properties within and near the subject site.

As part of the Phase I ESA, applicable federal and state environmental regulatory databases were reviewed. The database search identified thirty-three sites or facilities within the study area that have been registered, investigated, or otherwise documented by various environmental regulatory, emergency response, or enforcement agencies. During the site reconnaissance, SWCA observed numerous private and municipal facilities that store or use petroleum products or hazardous materials within the study area. Contaminant migration from some of these sites or facilities may have occurred, or has the potential to occur in the future.

SWCA personnel observed debris scattered throughout most of the length of the river corridor. Based on the wide distribution of the disposal sites and the contents of the debris piles (papers, boxes, food and beverage containers, scrap wood and metal, household trash, furniture, appliances), it does not appear that the river bottom has been the site of prolonged commercial or industrial waste disposal activities. Some of the discarded items, such as small paint or fuel containers, suggest the possibility that small amounts of hazardous materials may have been discarded in these areas, although the actual contents of the containers now, or at the time of disposal is not known. The Site Reconnaissance did not reveal evidence of any RECs.

Research identified the presence of several inactive landfills concentrated along the Santa Cruz River. These landfills have the potential to affect groundwater, surface water and soil quality, depending on landfill contents and potential mobility of contaminants. Due to voids, decomposition of materials, and lack of compaction during filling, the landfills can pose engineering and structural risks with respect to structures built on or near the landfills. Chemical exposure hazards could be created during excavation of landfill materials for building or utility construction. Construction or excavation on or near landfills should be prohibited until potential hazards are fully characterized and mitigated.

The subject property could be affected by migration of contaminants from the landfills or from facilities observed nearby and/or identified in the environmental regulatory databases. In most instances, only catastrophic releases would result in impacts to the subject site from off-site facilities. As a matter of housekeeping and to preclude the miscellaneous trash and debris in the river bottom from contributing to surface or groundwater contamination, or detracting from the aesthetics of the river bottom, this trash/debris should be removed.

1.0 INTRODUCTION

This report, prepared by SWCA, Inc. (SWCA), presents the results of its Phase I Environmental Site Assessment (ESA) within the Paseo de las Iglesias study area, a seven-mile reach of the Santa Cruz River adjacent to the City of Tucson. This section of the river flows northward between Los Reales Road and Congress Street in Tucson, Pima County, Arizona. The study focuses on a corridor including the incised banks and the river bottom, extending east to Interstate Highways 10 and 19, and west to Mission Road, an area totaling approximately 9 square miles (Figure 1). SWCA completed the ESA for Tetra Tech, Inc. in partial completion of a Baseline Conditions Report to evaluate the redevelopment potential of the Santa Cruz River corridor.

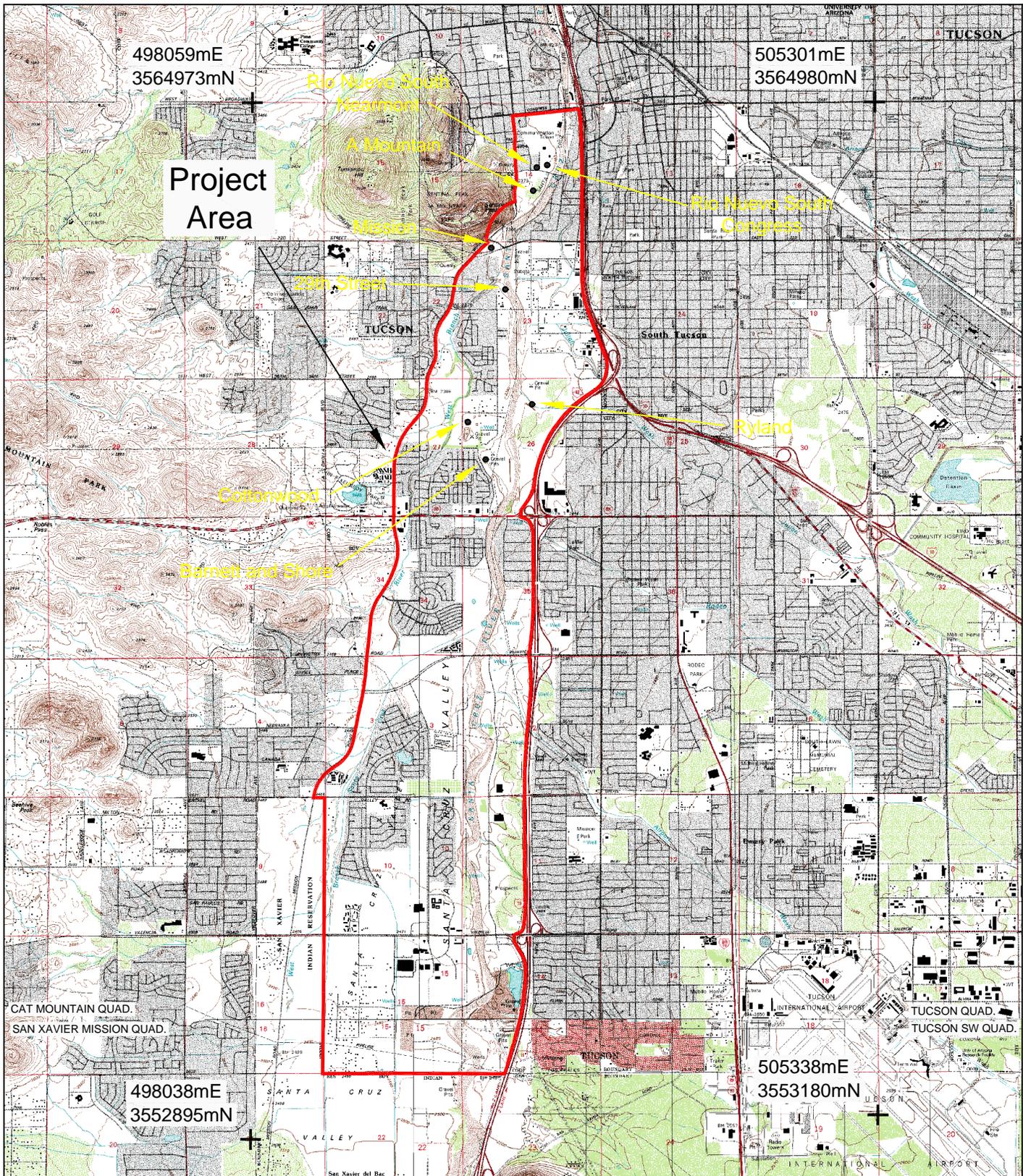
The Phase I ESA followed the standards described in the American Society for Testing and Materials (ASTM) Standard E 1527-2000, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Deletions or deviations from ASTM Standard E 1527-2000 are documented in this report. The objective of the Phase I ESA was to assess, to the extent practical, the existence of recognized environmental conditions (RECs). RECs are defined in the ASTM standard as “the presence or likely presence of hazardous materials or petroleum products under conditions that indicate and existing release, a past release, or 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 is not intended to include *de minimus* conditions that generally do not present risks of harm to public health or the environment and that generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.

The Phase I ESA did not include a sample collection for the presence of asbestos-containing materials (ACM), radon and all other radioactive substances, lead-based paint, non-hazardous wastes and materials, or biological or medical wastes. The assessment also did not include interviews with local residents or occupants of the many business and government facilities within the study area.

2.0 SCOPE OF WORK

To achieve the objective referenced above, SWCA completed the following tasks:

- Reviewed topographic maps and historical aerial photographs made from 1935 to 2001;
- Surveyed relevant documents in order to assess the site’s physiography, including a review of the local hydrogeology and geology below the site and surrounding area;
- Reviewed available federal and state regulatory databases;
- Visually surveyed the properties within the study area; and
- Interviewed Pima Association of Governments, Water Quality Staff; City of Tucson Solid Waste Department, Catalina Sanchez; and City of Tucson Environmental Management Division, Ray Murray.
- Conducted file reviews for 13 sites located within the Project area.



Map Source: 7.5' USGS Quadrangles

Cat Mountain, San Xavier Mission, Tucson & Tucson SW Arizona.
NAD 83 ZONE 12

SWCA
ENVIRONMENTAL CONSULTANTS

0 mile 1 2

0 feet 2640 5280 10560 15840

0 kilometer 1 2

Paseo De Las Iglesias

Figure 1. Project Area Location.

Some standard historical sources were not used in preparation of the Phase I ESA report. Sanborn fire insurance maps are not available for the site. The subject site is not known to have been assigned a specific street address because the project area includes multiple parcels; therefore city directories were not searched. SWCA was not provided with a copy of a chain of title report for the site, nor was one required within the scope of this ESA.

3.0 SITE DESCRIPTION

3.1 SITE LOCATION

The site is located in Pima County, Arizona, within the urbanized area of South Tucson. The study area focuses on a seven-mile segment of the Santa Cruz River, bounded on the north by Congress Street, on the west by Mission Road, on the South by Los Reales Road, and on the east by Interstate Highways 10 and 19.

3.2 SITE DESCRIPTION

The site consists of a roughly trapezoidal area of approximately 9 square miles including each side of the river and the river bottom. At its northern end the site is at its narrowest, approximately one half mile wide from east to west, reaching a maximum width of about two miles at the southern end. The river flows northward and is generally paralleled on the east by Interstate Highway 19 from the southern end of the site to 36th Street, and by Interstate Highway 10 from 36th Street north to Congress Street. From Los Reales Road, Mission Road generally parallels the Santa Cruz River and extends along a roughly north-northeasterly path to Congress Street to form the western border of the site. Portions of the project area have been developed in various ways. The southernmost portion (approximately one mile from south to north), on both sides of the river is currently used for sand and gravel excavation and storage. Other portions of the site have been developed into residential, commercial, and industrial areas. Much of the area outside the riverbanks consists of vacant desert. There are also six inactive landfills within the project area. These six landfills are discussed in Sections 4.4 and 8 of this report.

3.3 SITE UTILITIES

Tucson Electric Power lines pass through and serve the project area, and include a substation with numerous transformers located at the intersection of West Clark Street and South Freeway on the east side of the River. The condition of the transformers could not be determined due to enclosure within a locked fence and gate. Wastewater management services are divided among the Pima County Wastewater Management department, individual septic system, and sewage systems maintained by homeowners associations. Tucson Water serves the area, but it is unknown if all homes and buildings acquire their potable water from this department. Visible evidence of other utility providers was not apparent at the project site, although natural gas pipeline markers were observed along mission road. There is a concrete irrigation ditch along the top edge of the bank on the west side of the Santa Cruz in the northernmost reach of the project area south of Congress Street. There are signs along this ditch warning of the non-

potable nature of the water. According to reports by local officials, the irrigation ditch is not active or functional, but serves as part of an educational display related to the role of irrigation in the area.

3.4 SITE VICINITY

The project area is a seven-mile long corridor following the Santa Cruz River located in a developed area of South Tucson, Pima County, Arizona. Properties surrounding the site include vacant desert, residential, commercial, and industrial properties. Various residential streets, arterial and collector roads, and Interstate Highways run through or adjacent to the site.

The headwaters of the Santa Cruz River are in the San Rafael Valley in southeastern Arizona. The river channel courses south and, after a 35-mile loop through Mexico, reenters Arizona about six miles east of Nogales. The river continues northward to Tucson, then north-northwest to its confluence with the Gila River about 12 miles southwest of Phoenix. The river runs approximately 43 miles north of the U.S.-Mexico border before entering the study area. The River channel through the project area is approximately 30 feet wide in the low flow channel and approximately 250 feet bank-to-bank width with incised banks approximately 15 to 20 feet high. Flow in the River channel is rare, typically occurring locally in response to heavy rains and resultant runoff.

Five bridges cross the River within the project area. Various natural and man-made drainage channels enter the river within and near the site boundaries. Tucson International Airport is approximately 1.5 miles east of the southern portion of the project area, south of Valencia Road.

4.0 PHYSICAL SETTING ANALYSIS

The following sections have been taken from the Appendix F (LMT Engineering, Inc., 2002) of the Paseo de las Iglesias Environmental Restoration Study.

4.1 TOPOGRAPHY

The study area is located near the central portion of the Tucson basin, a broad, 1,000 square mile valley located in the Santa Cruz drainage basin. The topography of this basin is typical of the Basin and Range Physiographic Province. Northwestward trending, step, rugged fault block mountains border the broad, gently northwestward sloping alluvium-filled valley. The basin is approximately 50 miles long and 20 miles wide in the southern and central parts, narrowing to 4 miles wide at the northwest outlet. The basin is bounded on the north and east by the Tortolita, Santa Catalina, Tanque Verde, Rincon, Empire and Santa Rita Mountains; and on the west by the Tucson, Black, and Sierrita Mountains. The mountains on the west side of the basin range from 3,000 to 6,000 feet above mean sea level (msl), and those on the north and east side have elevations generally ranging from 6,000 to 8,000 feet msl, with peaks rising to elevations of 9,400 feet msl.

The metropolitan City of Tucson resides at the approximate center of this basin at an elevation of approximately 2,400 feet msl. The Santa Cruz River channel extends north from Mexico into the south-

central portion of this basin and exits north of the basin where it eventually terminates into the Gila River. Flow occurs in the channel during most of the year south of the Tucson Basin. The flow during dry times of the year is a result of discharges from the Nogales, Arizona, and Nogales, Sonora, Mexico, sewage treatment plants. During dry times of the year, such flow does not normally extend further north than Green Valley, Arizona, which is located approximately 15 to 20 miles south of the study area.

Along the extent of this study area, sixteen tributaries flow into the main Santa Cruz River (including the South Channel), as well as the historic and diverted West Branch(es) of the Santa Cruz, Tucson Diversion Channel, and many others. The main channel, west branch(es), and the tributaries are ephemeral and generally only flow in direct response to rainfall and/or snow melt in the region and nearby mountains.

4.2 GEOLOGY

The complex geological history of Arizona has resulted in the formation of three geologic physiographic provinces. The three provinces consist of the Colorado Plateau (in the northern area of the state), the Basin and Range Province (encompassing southern and western Arizona), and the Central Highlands or Transitional Zone (encompassing the central part of the state). The Santa Cruz River Watershed lies within the Sonoran Desert of the Basin and Range Physiographic Province. The north to northwest trending alluvial basin is characterized by a semi-arid to arid broad valley.

The Santa Cruz River Basin is paralleled by steep mountain ranges composed of igneous, metamorphic, and sedimentary rocks of Precambrian (over 600 million years old) to Tertiary (63 to 2 million years old) age. The mountains lie upon a Precambrian igneous and metamorphic basement complex that is composed predominantly of granite and diorite, schist and gneiss, and volcanics.

The present relief of the Santa Cruz River Basin is a direct result of a period of regional uplifting due to block faulting that took place during the late Tertiary (63 to 2 million years ago) or early Quaternary (2 million years ago to present). Concurrent with the uplifting of the regional mountains, large amounts of alluvium from the surrounding mountains have been deposited within the basin (at the center of the Santa Cruz River basin, bedrock is currently buried by more than 11,000 feet of alluvial sediments). The Tucson basin, a structural depression, is filled primarily with unconsolidated to indurated Tertiary and Quaternary age sedimentary deposits, with lesser amounts of intercalated evaporates and volcanic rocks.

The alluvial sediments deposited within the basin have been divided into four geologic units that are, in descending order of depth (younger to older): surficial or recent alluvial deposits, the Fort Lowell Formation, the Tinaja Beds, and the Pantano Formation. The extent of these layers in the study area is shown in Table 1. The surficial deposits occupy the streambed channels and are generally less than 100 feet thick. The coarse surficial deposits allow the infiltration of surface water to recharge the underlying units. The Fort Lowell Formation underlies the recent alluvial deposits and consists of unconsolidated to moderately consolidated sands and silts 300 to 400 feet thick throughout most of the basin.

4.2.1 Regional Geology

Beds lie under the Fort Lowell Formation and are composed of sandstones and conglomerates with a total thickness of up to 5,000 feet at the center of the basin. The Pantano Formation, which underlies the Tinaja Beds, ranges up to 6,400 feet in thickness near Davidson Canyon, which is located about 20 miles southeast of Tucson along I-10. This formation consists of consolidated sandstones, conglomerates, and mudstones. In addition to these sediments, as a result of intermittent periods of volcanism, there are areas of extrusive igneous rocks interbedded within the valley alluvium layers. Below the alluvial units and beds of volcanic rock, there is an impermeable basement complex, which extends to the surrounding mountainsides.

Table 1 – Stratigraphic Sediment Layers (from Well Logs)*	
At Marana	
Fort Lowell Formation and Recent Alluvium	73 m-thick (240 ft) layer
Upper Tinaja Beds	73 m-thick (240 ft) layer
Volcanic Bedrock	Top at - 146 m (-480 ft)
Near Grant Road Crossing	
Fort Lowell Formation and Recent Alluvium	24 m-thick (80 ft) layer
Upper Tinaja Beds	73 m-thick (240 ft) layer
Middle Tinaja	49 m-thick (160 ft) layer
Volcanic Bedrock	Top at - 146 m (-480 ft)
½ Mile South of I-19/I10 interchange	
Fort Lowell Formation and Recent Alluvium	46 m-thick (150 ft) layer
Upper Tinaja Beds	46 m-thick (150 ft) layer
Volcanic Bedrock	Top at - 91 m (-300 ft)
1.5 Miles South of San Xavier Mission	
Fort Lowell Formation and Recent Alluvium	49 m-thick (160 ft) layer
Upper Tinaja Beds	37 m-thick (120 ft) layer
Lower Tinaja Beds	24 m, minimum (80 ft)
1.5 Miles North of Sahuarita/I-19 Interchange	
Fort Lowell Formation and Recent Alluvium	52 m-thick (170 ft) layer
Upper Tinaja Beds	43 m-thick (140 ft) layer
Lower Tinaja Beds	195 m, minimum (640 ft)
1 Mile North of Green Valley	
Fort Lowell Formation and Recent Alluvium	73-thick (240ft) layer
Upper Tinaja Beds	37m-thick (120 ft) layer
Lower Tinaja Beds	180 m, minimum (600 ft)

Poorly developed drainage systems gave rise to numerous pluvial lakes during the middle Tertiary, which accounted for rapid sediment filling of the basins. During the Pleistocene (2 million to 10,000 years ago) drainage was established westward by the Gila River and its tributaries (including the Santa Cruz River). During high erosion and deposition periods, the Santa Cruz River basin floor developed numerous bajadas (smooth slopes originating at the base of the mountains) which extended outward into the Santa Cruz River channel. In more recent geologic time, during the Quaternary Period (present to 2 million years ago), climatic changes and regional uplift accelerated erosion, resulting in the upper bajada slopes being deeply dissected by lateral washes, causing development of terraces along the main drainage systems including the Santa Cruz River Basin.

The Santa Cruz River main channel through Tucson flows on the far west side of the Basin over the relatively thin, peripheral parts of the basin fill sediments. Typical sections, derived from well logs identify specific stratigraphic sediment layers underlying the Santa Cruz River.

4.2.2 Local Geology

The alluvial deposits in the study area consist mainly of recent stream channel and floodplain deposits. These alluvial basin sediments are generally gravel and gravelly sand. Locally, the sediments in the study area are sand to sandy silt of fluvial origin. Lithified sediments do not crop out along the Santa Cruz River and generally they should not be present within excavation depths of the channel for structure installation, though such formations do approach the riverbed elevation in the vicinity of 22nd Street. The nearest rock exposures, classified as the Pantano Formation, occur in the foothills of the Santa Catalina Mountains to the north and east of the study. Rocks of this formation consist of highly faulted and tilted beds of conglomerate, sandstone and mudstone, interbedded in places with volcanic flows and tuffs and locally containing landslide debris and lenses of megabreccia (Anderson 1987a). Other subsurface information is presented in the Subsurface Investigations section of this report.

The surficial soil deposits as classified by the National Resource Conservation Service (previously Soil Conservation Service) are a Grabe-Anthony-Gila association consisting of level and nearly level to gently sloping soils that are dominantly loam to gravelly sandy loam, on flood plains and alluvial fans in the main channel of the river and Cave-Rillito-Mohave association consisting of nearly level to gently rolling soils that are dominantly gravelly loam and gravelly sandy loam, on low dissected terraces in portions of the banks away from the main channel (U. S. Dept of Agriculture, Soil Conservation Service, U of A Agricultural Experiment Station, Soil Survey of Tucson-Avra Valley Area, Arizona, April 1972).

A study by Jackson classified the soils in the channel as part of the T2 terrace, one of five terraces that exist in the Tucson Basin. The T2 terrace is defined as historically abandoned stream terraces occurring on the Santa Cruz River and Pantano Wash. Forms wide floodplain inset into stream valley. Soils are weakly developed (Torrifluvents). Topographically the T2 terrace is higher than T1 but several meters below T3. Gravelly sand dominates the sediments. Banks are unstable; recent incision and lateral erosion has left banks standing at an angle greater than the angle of repose, often vertical. Middle to late Holocene in age (Jackson, 1989).

FAULTING

The Tucson basin was formed during the Basin and Range disturbance of middle Miocene time (23 to 5 million years ago). A tectonic event was responsible for producing the deep basins and high ranges characteristic of present-day Basin and Range physiography. This extreme relief resulted from movement along deep-seated, highangle normal faults. Anderson's (1987a) structural interpretation of the Tucson basin infers two major north to northwest-trending basin-bounding faults: the Santa Cruz fault and a segmented subparallel fault system on the north and east edges of the basin and a secondary, oblique, and generally northeast-trending fault system. The large-scale, low-angle structural feature that extends along

a sinuous trace on the south and west flanks of the Santa Catalina and Rincon Mountains, respectively, is referred to as the Catalina detachment fault (Dickenson 1988). This feature represents a stage in the development of the Santa Catalina-Rincon Mountain metamorphic core complex during the mid-Tertiary Orogeny, which preceded the Basin and Range disturbance.

The concealed basin faults and the detachment fault are not considered to be active or capable faults and are not underlying this study area. The Basin and Range province in southwestern Arizona has been considered tectonically inactive since the waning of the Basin and Range disturbance during the early Pliocene (Anderson 1987a), due in part to the low levels of historical seismicity and the extensive pedimentation of mountain blocks (Pearthree et al. 1983). Quaternary faults are rare in southwestern Arizona and none have been identified in the Tucson metropolitan area (Menges and Pearthree 1983; Scarborough et al. 1986). The nearest concentration of Quaternary faults occurs along the western edge of the Santa Rita Mountains in southeastern Arizona, approximately 20 miles southeast of the study area. Pearthree (1986) estimated that the most recent movement along the Santa Rita fault occurred during the late Pleistocene. The Quaternary faulting observed in southeastern Arizona may represent minor reactivation of older Basin and Range structures or may be related to the Rio Grande Rift system of New Mexico (Pearthree et al. 1983).

SEISMICITY

The Tucson metropolitan area straddles the boundary between Zone 1 and Zone 2A of the Seismic Zone Map of the Contiguous States (Uniform Building Code, 1994 and USACE ER 1110-2-1806, dated 31 July 1995) and thus is located in a region of low to moderate seismic potential. Seismic activity has occurred throughout Arizona but southeastern Arizona (part of Zones 2A and 2B) is one of three regions where more frequent activity and earthquake epicenters with intensities greater than VI on the Modified Mercalli Scale and magnitudes greater than 4.0 have been concentrated (DuBois and Smith, et al. 1982). Estimates of average regional recurrence intervals between surface-rupturing earthquakes over the last 20,000 years for this portion of the state range from 3000 to 4000 years (Pearthree 1986). The report by Pearthree also contains a map of earthquake epicenters in the vicinity of Tucson.

The largest historical earthquake known to have affected the study area was the 1887 Sonora, Mexico, event with a maximum epicentral intensity of XII and an estimated magnitude of 7.2. An isoseismic map of the earthquake area in DuBois and Smith (1982) indicates an intensity of VII was experienced in the Tucson area. This event, although 130 miles southeast of the study area, resulted in rock falls and landslides in the Santa Catalina Mountains and caused widespread damage in Arizona as far north as Phoenix. A seismicity map of the State of Arizona compiled by Stover et al. (1986) indicates that the largest known historical earthquakes within 100 miles of the study area occurred near Nogales, Arizona, in 1916; in western Pima County in 1961; and near Globe, Arizona, in 1969. The 1916 event, approximately 60 miles south of Tucson, had a maximum epicentral intensity of VI. The 1961 event, about 90 miles west-northwest of Tucson, had a magnitude of 4.7, while the 1969 event, approximately 85 miles northeast of Tucson, had a magnitude of 4.4. Only three earthquakes have been reported within a 25-mile radius of the study area. Two of these events, with maximum epicentral intensities of IV,

occurred in 1888, approximately 3 miles southwest of Tucson. The third, a magnitude 4.4 event, occurred in 1965 about 25 miles west of Tucson.

Using Schnabel and Seed's (1973) attenuation curves for horizontal acceleration in rock (USACE, South Pacific Division, 1979), the previously mentioned earthquakes would have produced maximum bedrock accelerations of less than 0.1g at the study site. By contrast, a maximum credible earthquake of magnitude 6.7 to 7.2 generated by movement on the 12 to 36-mile long Santa Rita fault would produce a maximum bedrock acceleration of approximately 0.2g at the study site. The Uniform Building Code and International Building Code both recommend accelerations of 0.2g for the Tucson metropolitan area.

4.3 HYDROGEOLOGY

The main groundwater in the Tucson basin occurs in the sedimentary rocks and alluvium that form a single aquifer. The aquifer consists of the Pantano Formation, the Tinaja Beds, and the Fort Lowell Formation (from bottom to top) (Anderson 1987b). The Pantano Formation yields small to moderate amounts of water to wells while the Tinaja beds yield small to large amounts of water to wells, frequently in excess of 1000 gal/min (Anderson 1987b). The water table for this main aquifer is within 350 ft of the ground surface throughout most of the basin. Due to localized and/or perched water tables, the depth to groundwater ranges from less than 20 feet to about 170 ft below the ground surface along the Santa Cruz and Rillito Rivers (Babcock et al. 1988; City of Tucson 1996). Groundwater is generally under unconfined conditions. However, it may occur locally under confined or perched conditions. Groundwater movement is typically in a west-northwest direction, away from the basin margins toward the narrow northwest outlet (Osterkamp 1974). A groundwater contour map prepared by Tucson Water is attached to this report. This map shows the depth to groundwater throughout the Tucson Basin and in this study area.

We obtained information from the Arizona Department of Water Resources (ADWR) regarding depth of groundwater in wells in this study area. This information is included in Appendix C of this report. The key to the locations of the wells is also included in this Appendix. The wells with current water level readings are denoted with letters "A" through "K" on the right side of the well data sheets. These well locations are noted as ADWR Well Locations A through K on the aerial photo of the study region included with this report. The current well information included in this report indicates that depths to groundwater in the wells generally ranged from about 100 to 200 feet below ground surface in areas close to the Santa Cruz channel. Groundwater data were also obtained from soil borings made for bridges along the Santa Cruz River. Reports for the bridges at Congress, 22nd St., Irvington, and Valencia were reviewed. Information in these reports indicates groundwater (perched) was encountered at depths ranging from about 5 to 35 feet at Congress, Irvington, and Valencia. No groundwater was encountered in the test boring for the 22nd St. Bridge where the borings were advanced to depths of 45 to 60 feet. Due to the perched and/or localized nature of the groundwater along the Santa Cruz channel, these groundwater conditions are expected to vary in relation to flows in the River, well pumping, subsurface stratification, and other factors.

Long-term groundwater withdrawal has resulted in a general decline in water levels in the Tucson area since the 1900's. This groundwater decline can be noted in the ADWR data for the depth to groundwater for the wells in this vicinity.

Large-scale pumping of groundwater in the Tucson basin began about 1900 and increased dramatically in the 1940's. Most of the groundwater pumped in 1940 was used for irrigation. Later, groundwater pumpage was approximately equally divided among irrigation, municipal, and industrial uses (Anderson et al. 1982). The centers of greatest water-level decline are along the Santa Cruz River near Sahuarita and in the City of Tucson. Declines exceeding 100 ft have occurred in Tucson and portions of the study area, while to the south along the river, the maximum decline has been about 150 ft (Schumann and Genualdi 1986). This difference has resulted in the formation of two distinct cones of depression in the groundwater table.

Infiltration of storm runoff in the stream channels during the rainy seasons is the major source of recharge to the groundwater basin (Davidson 1973). Seepage of runoff along the mountain fronts constitutes the second largest source of recharge. This natural system recharges about 100,000 acre-ft/yr; however, there is currently a demand for 300,000 to 400,000 acre-ft annually. The resulting deficit is causing the water table to decline at an approximate average annual rate of 2.7 ft (PCDOT 1986).

Several studies have been performed to evaluate the rate of recharge for both the Santa Cruz and Rillito Rivers (Wilson 1979; Katz 1987; Wilson and Newman 1987; Cluff et al. 1987). These studies attempted to evaluate the recharge rate using primarily empirical methods. The study by Katz indicated that the infiltration rates for all the studies ranged from 286 to 551 acre-feet/day for the Santa Cruz River and from 272 to 1,262 acre-feet/day for the Rillito. The studies by Cluff, et al., and Wilson and Newman, evaluate the effects of channel stabilization on infiltration and ground water recharge. These reports are available at the Pima County Flood Control in-house library.

4.3.1 Subsidence, Fissuring and Collapsing Soils

Groundwater depletion in the Tucson basin has caused the aquifer system to compact. This compaction, in turn, has resulted in large areas of land subsidence, a problem that exists in other parts of the Basin and Range province of southern Arizona. The U.S. Geological Survey (USGS) is currently using seven vertical extensometer installations (VEIs) to measure and monitor aquifer compaction and water-level changes in the Tucson Basin. The VEIs are located in areas where the potential for land subsidence is believed to be large. Measurements made by the USGS from 1980 to the end of 1987 indicate that approximately 0.01 to 0.1 ft of compaction has occurred in the aquifer-system deposits underlying the basin during this period (Babcock et al. 1988). The amount of land subsidence resulting from aquifer compaction would be equal to the amount of compaction in all the compressible deposits of the aquifer. Since the water level wells used in the USGS study do not fully penetrate the aquifer, measured aquifer compaction would be less than or equal to the amount of land subsidence (Anderson et al. 1982). Thus, the greatest amount of land subsidence that has occurred in the Tucson basin between 1980 and 1987 is approximately 0.1 ft. This would equate to a subsidence rate of about 0.01 ft/yr. The closest VEI to the

study area is located at well D-13-14 31cac, about 2-1/4 miles south of the Rillito River at First Avenue and about 2- 1/2 miles northeast of the north end of this study area. A total of about 0.04 ft of aquifer compaction was measured at this installation. From 1982, this amount would correspond to a minimum subsidence rate of less than 0.01 ft/yr. An aquifer compaction study near the town of Eloy, Arizona, in the lower Santa Cruz basin, revealed that compaction and expansion of the aquifer materials corresponds to seasonal trends in water-level fluctuations, while measured land subsidence corresponds to net annual water-level declines (Schumann et al. 1986).

Land subsidence was also identified and measured by National Geodetic Survey releveling in the Tucson basin in 1980 (Anderson 1987b; Winikka 1984). Results indicated that from 1951-54 to 1979-80, land subsidence ranged from less than 0.1 ft to almost 0.5 ft; the largest amount occurred southeast of Tucson in an area south of Davis-Monthan Air Force Base, approximately 7 to 10 miles east of the Santa Cruz River channel. Subsidence generally was small in relation to water-level decline in the basin during this period. Long-term data indicate a ratio of subsidence to water-level decline of generally less than 0.003 foot per foot (Anderson 1987b).

The area of greatest potential land subsidence in the Tucson basin is from the Davis-Monthan Air Force Base area to south of Sahuarita, where water-level declines have been large (Anderson 1987b). Anderson (1987b) indicates that by the year 2030, approximately 3 to 10-plus feet of potential subsidence may result from a 200 to 400 foot decline in 1940 water levels in this region.

Earth fissures, produced in alluvial deposits by differential land subsidence, have not yet been reported in the Tucson basin but have been mapped near seven groundwater areas in southern Arizona where maximum water-level declines have equaled or exceeded 200 ft (Schumann et al. 1986). The greatest concentration of fissures is found about 30 miles north of Tucson in the lower Santa Cruz basin, which has experienced the most severe groundwater depletion. The closest earth-fissure sites to the study area are in the Avra Valley, approximately 20 miles west of Tucson.

Earth fissures, which generally occur on the periphery of subsidence areas, may eventually develop in the Tucson basin if the magnitude of groundwater depletion approaches that found in the areas noted above that presently contain fissures. Anderson (1987b) delineated zones of potential severe localized differential land subsidence in the Tucson basin and noted that geohydrologic similarities with the Eloy-Picacho area in the lower Santa Cruz basin strongly indicate that earth fissures may occur in the Tucson basin by the year 2030, or perhaps sooner, assuming further ground water overdraft in the Tucson basin. The area from south of the Tucson International Airport to southeast of Sahuarita, which parallels a 15-mile segment of the Santa Cruz fault, was identified as the area most likely to be seriously affected by fissuring. However, a recent U.S. Geological Survey assessment of potential surface subsidence in response to overdraft in the Tucson area (Tucson Water et al. 1998) indicates that the Santa Cruz Mainstem in the Tucson Vicinity has potential to subside “less than two feet (0.6 m) to the north of the Interstate 19/I-10 interchange (the lowest number assigned in the potential ranking scheme) and no potential to subside south of that interchange.” Those subsidence potential numbers represent a significant decrease in estimated subsidence potential from earlier U.S. Geological Survey work. The decrease is

related to local control of groundwater pumping instituted in the interim between the two U.S. Geological Survey studies (Anderson 1987).

The ADWR well data indicate water-level declines exceeding 100 ft in the wells in the vicinity of this study. Therefore, this vicinity and the Tucson metropolitan area in general will likely to continue to be affected by subsidence as long as groundwater overdraft continues. Efforts are being made to reduce groundwater overdraft through water conservation and groundwater replacement. Specifically, the goal of the Tucson Active Management Area is to achieve a long-term balance of groundwater withdrawal with natural and artificial recharge by the year 2025 (USACE, 1986).

Collapsible soils are common in the southwestern desert environments where the natural evaporation greatly exceeds the precipitation. Collapsible soil deposits are formed when the alluvially deposited soils dry and form chemical bonds between the soil particles. These chemical bonds “tack weld” the soil particles together and give the soil a high dry strength. However, when these soils become wet, the chemical bonds weaken or dissolve and the soil structure reaches a point when it cannot withstand the applied overburden stress and the soil structure collapses. Structures supported on collapsing soils that undergo this collapsing phenomenon can undergo significant settlements and damage. Collapsing soils are typically composed of sands, silts and clays of low plasticity. These soils types and soils with collapsing potentials are known to exist within this vicinity. Usually, such collapsing soils occur at a distance of up to 1 mile from the main channel of a river where silts and clays are deposited by channel overflows. Specific studies should be undertaken once the type of remedial measures have been determined to evaluate the existence of collapsing soils.

4.3.2 Subsurface Investigations

The subsurface investigation for this study consisted of excavating shallow pits in the banks and bed of the rivers using a standard, wheel-mounted backhoe. These pits were excavated to maximum depths of about 10 feet below existing grade to obtain samples of the bed and bank materials to perform laboratory classification tests. The laboratory tests were performed to determine the gradation of the soil samples. Locations of the samples are noted on the site plan included with the maps in the jacket at the end of this report. Results of laboratory tests on these samples are presented in Appendix B of this report.

In addition to the sampling performed for this study, information from geotechnical engineering studies for several of the bridges along the Santa Cruz channel was reviewed - specifically the bridges at Congress, 22nd St., Irvington, and Valencia. Based on the information available in these reports and the authors’ personal experience on other projects in this vicinity, the subsurface materials below the channels generally consist of sands and gravels, with some cobble layers. These soils generally become more granular and denser with increasing depth. However, some interbedded layers of silt and clay were also encountered in the borings for the Congress Bridge. These silt and clay layers existed at various depths in the borings, generally between about 15 and 50 feet. The perched water encountered in these borings appears to sit on top of the silt/clay layers. The subsurface soils are generally not cemented,

although there is a heavily cemented layer approximately 25 feet below the riverbed at the site of the 22nd Street Bridge.

5.0 SITE HISTORY

The history of the site and adjacent properties was reviewed in accordance with the applicable ASTM standards. Previous environmental reports specific to the entire study area, property ownership data, Sanborn fire insurance maps, and city directories were not reviewed during preparation of this report because no such records could be identified or made available. SWCA learned that certain state and county agencies might have records related to environmental investigations of some of the landfills in the study area. However, acquiring and reviewing such documents was outside the scope of this ESA because the agencies were not able to state what, if any, documents exist, nor were they able to identify the locations of the documents or provide copies for review within a reasonable time. Historical aerial photographs covering the period 1935 (the earliest available) through 2001 (the most recent) were reviewed, as well as the USGS topographic map of the area made in 1943, 1948 and 1954 (photo revised 1992, text revised 1995). Interviews with site contacts consisted of telephone discussions with representatives from various agencies of Pima County and the City of Tucson. A summary of the information obtained from these sources follows.

5.1 AERIAL PHOTOGRAPHS

SWCA reviewed aerial photographs in the archives of Landiscor Aerial Information in Phoenix, Arizona, which had photographic coverage of the site from 1963 to 2001.

The March 31, 2001 aerial photograph shows the site similar to that observed during the site reconnaissance (detailed later in this report). The gravel pit and piles are visible, as are most of the structures observed during the site visit. Some structures or equipment are visible near the gravel pit; however, the scale of the photograph does not permit positive identification of the items. The area surrounding the site is similar to that observed during the site visit, with residential structures, the community college, the Interstate Highways, and the buildings of the few commercial and industrial areas located along each side of the study area. A copy of the May 5, 1998 aerial photograph, which shows the site essentially as it appeared at the time of SWCA's site reconnaissance, is included as Appendix A.

SWCA reviewed seventy-two additional aerial photographs made from 1935, 1959, and 1963 through 2001. Due to the length of the site corridor, each photograph date included at least three aerial photographs to cover the project area. The earliest photographs showed that the entire western side of the project area (west of the river) was being used for agricultural purposes. A small orchard or grove is apparent in the 1963 photographs, eventually being taken over by residential development, as seen on later photographs. The eastern banks of the river were agricultural and scrub desert. Tucson was being developed and there were housing developments approximately 1 to 1½ miles east of the project area at that time.

The gravel pit located east of the Santa Cruz River and in the southern portion of the project area first appears in the 1966 aerial photograph. The photographs show a steady progression from agricultural and desertscape to mostly residential developments with a small amount of industry or commercial use, although details of land use are not apparent.

The landfill areas were observed during the photograph review, and while surface disturbances were evident in some areas, specific activities could not be ascertained.

The aerial photograph review did not reveal evidence of RECs.

5.2 TOPOGRAPHIC MAPS

The most recent (1954, photo-revised 1992, text revised 1995) USGS topographic map of the site shows the site within an urbanized section of South Tucson. The maps show some indication of small commercial industrial areas and gravel pits in and near the site, in essentially the same locations as observed during the site reconnaissance. Most of the developed areas within the project boundaries were shown as residential, with the commercial or industrial buildings located along the study area boundaries or on the arterial roads crossing from east to west. The land is primarily flat with a gradual downward slope to the northwest. The topographic map did not reveal evidence of any REC's.

5.3 INTERVIEWS

Several interviews were attempted, but because of the vast amount of documented material in the form of reports available, interviewees contacted by telephone provided very little information and suggested that extensive file reviews were necessary to adequately summarize environmental issues related to properties within and near the subject site. In most cases, interviewees indicated that they were not aware of specific contents and locations of relevant documents, if they exist. The following is an account of personnel interviewed and the information that they provided.

❖ *Pima Association of Governments (PAG)*

- Mr. Greg Hess (Hess, July 9, 2002), Water Quality Manager with PAG, provided direction to substantial PAG reports and documentation their office has regarding “wildcat” dumpsites and cleanups, well surveys, land use, and water quality surveys. Mr. Hess indicated that copies of the PAG reports and documentation were on file with the City of Tucson. A file review was conducted at the City of Tucson, Office of Environmental Management on July 15, 2002, and is discussed in Section 8.0 of this report.

❖ *City of Tucson Solid Waste Department*

- Ms. Catalinea Sanchez (Sanchez, July 10, 2002), Environmental Scientist with the City of Tucson Solid Waste Department, indicated that landfills located in the Project area were not well documented during the time they were utilized (1953 through 1970), but that available

information may be of some use for determining the hazardous waste content of the landfills when dealing with issues such as collapsing landfill walls.

A file review was conducted at the City of Tucson Solid Waste Department on July 15, 2002, and is discussed in Section 8.0 of this report.

❖ *City of Tucson, Office of Environmental Management*

- Mr. Murray (Murray, July 10, 2002), indicated the City of Tucson, Office of Environmental Management maintained files on most landfills located in the Project area. A file review was conducted at the City of Tucson, Office of Environmental Management on July 15, 2002, and is discussed in Section 8.0 of this report.

5.4 PREVIOUS REPORTS

Reconnaissance Study by Collins/Piña, Inc., Summer 1999

Information from a Reconnaissance Study by Collins/Piña, Inc in the summer of 1999 provided information regarding the location of the six landfills within the designated project area. Several closed landfill sites currently owned and managed by the City of Tucson are located along the Santa Cruz River (Figure 2). These landfills were closed prior to federal, state or local regulations for closure specifications and monitoring of landfill gases. They include:

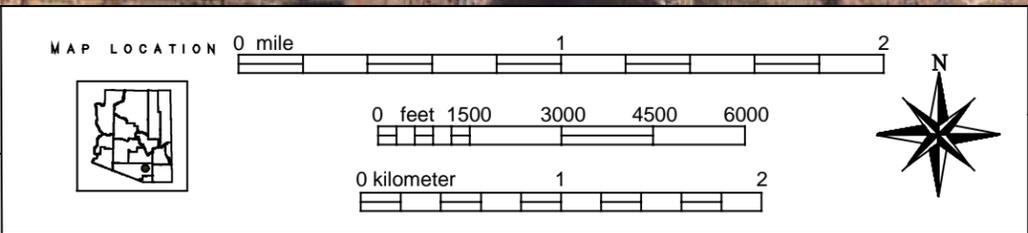
1. Rio Nuevo South (also known as Congress landfill, located south of Congress Street along the west bank of the Santa Cruz River; approximately 40 acres; operated 1953-60)
2. Nearmont (located south of Congress Street, northeast of Rio Nuevo landfill, approximately 10 acres; operated 1960-67)
3. "A" Mountain (located between Mission Lane and 22nd Street; approximately 36 acres; operated 1953-1962)
4. Mission (located north of 22nd Street/Starr Pass Boulevard, west of the Santa Cruz River; approximately 30 acres; operated 1963-1970)
5. 29th Street (located north of Silverlake Road along the west bank of the Santa Cruz River; approximately 50 acres; operated 1963-1967)
6. Ryland (located between 36th and 44th Streets along the east bank of the Santa Cruz; approximately 50 acres; operated 1960-1965)

No information was contained in this report regarding who managed the landfill sites during operation, landfill contents, type of landfill (commercial, industrial, municipal, residential), or any groundwater sampling programs at or near the landfills.

Landfills and Waste Disposal Sites Along the Santa Cruz River from Grant Road to Pima Mine Road by the Pima Association of Governments for the City of Tucson, Office of Environmental Management, July 1996.



Map Source:
Cooper Aerial Survey Co.
Arizona.
NAD 83 ZONE 12



Paseo De Las Iglesias

Figure 2. Location of Known Landfills in the Project Area.

his report identifies 61 sites along a reach of the Santa Cruz River that includes the entire Paseo de las Iglesias project area. The sites identified include wildcat dumpsites, areas of erosion or other concern, and landfills. The report identifies all of the landfills that are located within the project area and provides details regarding the surface content of the landfill as well as features of the landfill such as re-graded areas. This report also identifies and provides information regarding the private landfill area owned and operated by Barnett and Shore (Figure 2). The contents are reportedly piles of brick and concrete debris.

6.0 REGULATORY REVIEW

As part of the Phase I ESA, applicable federal and state environmental regulatory databases were reviewed. The review checked facility listings available through agency databases to determine whether the site or any adjacent facilities have been subject to environmental actions or review. The databases were obtained through Environmental Data Resources, Inc. (EDR) of Southport, Connecticut. The EDR database searches follow current ASTM standards and represent the most recent site-specific data available at the time that the information was requested. Appendix C provides a description of the types of facilities that may be listed in each database.

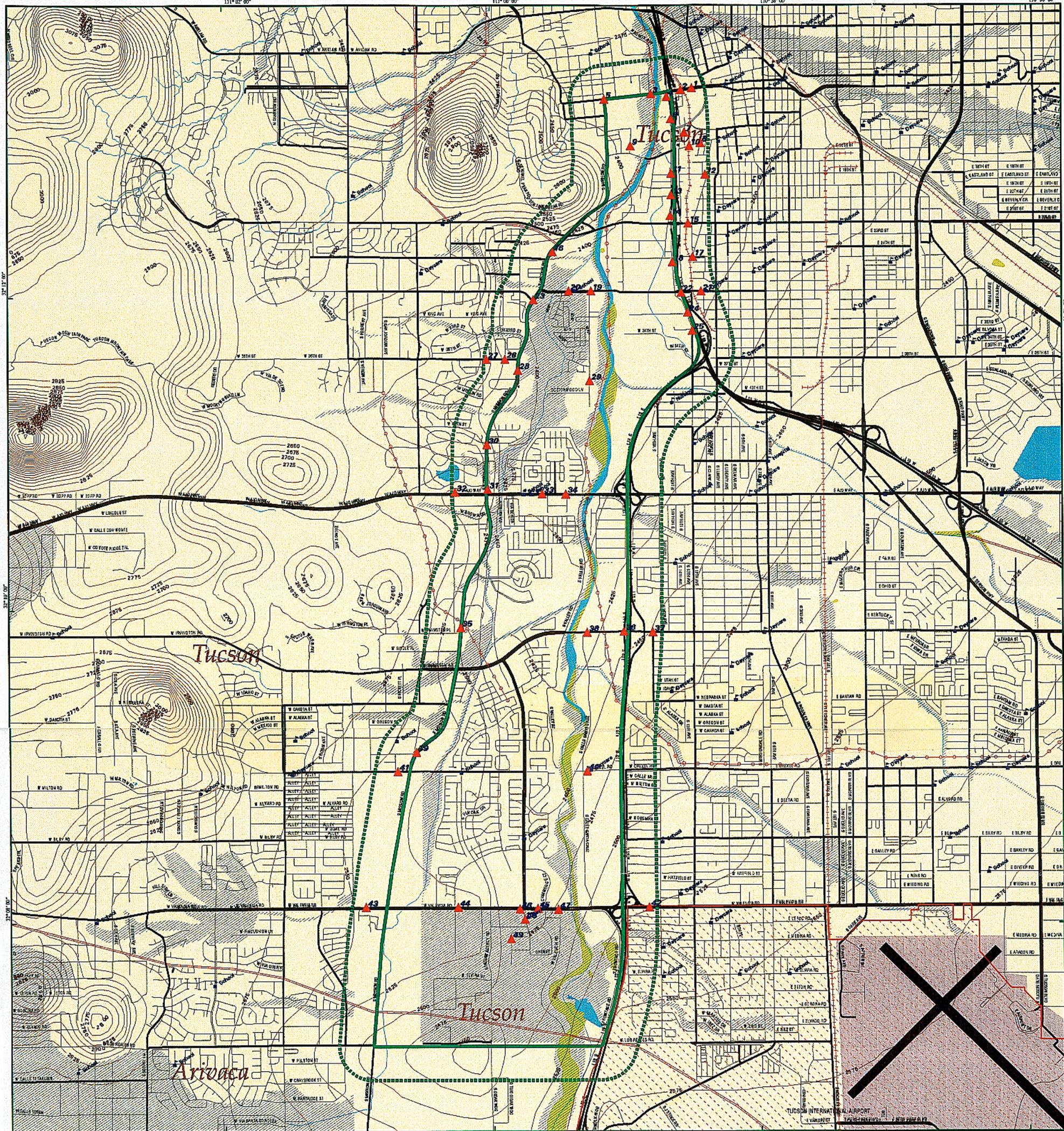
Under the ASTM standard, various databases are searched within specific distances of the target property. The search distances usually range from 1/8 to 1 mile, however, for this assessment, the search for each database was done as an area survey including the area bounded by Congress Street, Mission Road, Los Reales Road, and Interstate Highways 10 and 19. To ensure complete coverage of the study area, the database search was expanded 1/8 of a mile outside the perimeter roads described. SWCA reviewed database information for the 16 regulated facilities identified in the 1/8-mile “buffer” area and determined that 15 of them are not RECs with respect to the study area, and do not warrant further consideration or discussion within the context of this ESA. The Tucson International Airport Area (TIAA), located adjacent to the southwest corner of the study area is a potential REC with respect to the study area. The listed facilities or sites within the study area and the buffer zone are shown on Figure 3. Table 2 itemizes the listed facilities in the study area and indicates the databases in which the entries were found.

6.1 EDR FINDINGS

Forty-four facilities or sites within the study area were identified in the database reports. Numerous listed facilities appeared on more than one database. For example, facilities at the Pima County Mission Road Complex were identified in five different regulatory databases, and many of the gasoline stations appear on both the underground storage tank (UST) and leaking underground storage tank (LUST) databases.

SWCA observed that the database report does not include some of the gasoline stations in the study area. Virtually all active gasoline stations are UST facilities and are required to be registered. It is possible that the stations have been constructed since the last UST database update, or that the Arizona Department of Environmental Quality has incorrect address information for these facilities, which would result in their

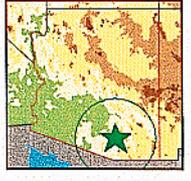
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EDR Environmental Data Resources, Inc.

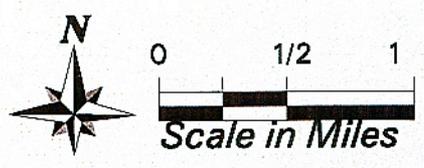
1-800-352-0050

Study Area For Paseo de las Iglesias



Tucson, AZ

- | | | | |
|--|-------------|---------------|--------------------|
| Listed Sites | Roads | Contour Lines | Water |
| Earthquake Epicenters (Richter 5 or greater) | Major Roads | Pipelines | Superfund Sites |
| Search Boundary | Waterways | Powerlines | 100-Yr Flood Zones |
| | Railroads | Fault Lines | Wetlands |



absence from the UST list. If the gasoline stations are compliant with current regulations regarding UST leak detection and overfill protection, SWCA does not believe they warrant consideration as RECs. However, any past releases from these facilities, if any occurred, could be considered RECs.

Automobile repair and salvage operations, fire stations, household appliance repair and salvage sites were observed in the study area. Such businesses or industries may involve the use or storage of petroleum products or hazardous materials, or the generation of hazardous waste. Several such facilities noted within the study area did not appear on the EDR database report as registered UST sites or hazardous waste facilities.

The following locations or facilities identified in the database report are those that SWCA has selected as potential RECs within the study area.

1. Tucson International Airport Area

This site is identified on the AZ WQARF, CONSENT, ROD, CERCLIS, and NPL databases. This site is adjacent to, but not within the study area boundaries, but may have an effect on the project site through contaminant migration in groundwater.

TIAA Superfund Site covers approximately 24 square miles. The airport itself is located on the south side of the City of Tucson, Arizona approximately 1.5 miles from the project site at its closest point. The site is bounded by Interstate Highway 19 to the west, Hughes Access Road to the east and south, and Los Reales Road and Valencia Road to the north.

In May 1981, organic chemicals commonly used as solvents by electronic and aerospace industries were found in several City of Tucson drinking water wells in southwest Tucson. Later that year, the City of Tucson closed the contaminated wells to ensure that water served to the public would meet drinking water standards. TIAA was placed on the NPL in 1983. The EPA is the lead regulatory agency at this site with ADEQ performing regulatory support and technical oversight. The TIAA CERCLA Site contains seven major project areas including Air Force Plant 44 (AFP44), Tucson Airport Remediation Project (TARP), the Airport Property, the Arizona Air National Guard (AANG) 162nd Facility, Burr-Brown Corporation, the former West-Cap Property, and West Plume-B. Groundwater investigations have defined a groundwater contamination plume (main plume) in the regional aquifer. The main plume, consisting mainly of trichloroethylene (TCE), with smaller amounts of dichloroethylene (DCE), chloroform, and chromium, extends from AFP44 north past Irvington Road 15 miles south of downtown Tucson and is along the west boundary of the airport.

EPA constructed a groundwater extraction system for the former West-Cap property. This system delivers contaminated groundwater from the West-Cap property to the Burr-Brown treatment plant. A Consent Decree (CD) to address cleanup of soils and shallow groundwater beneath the Airport Property and to provide continued funding for operation and maintenance of the TARP system has recently been finalized. This CD provides for the cleanup of a highly contaminated portion of the

Airport Property near the Three Hangers Area. The CD calls for four separate remedies for the Three Hangers Area: 1) a soil vapor extraction (SVE) system will be built to remove TCE from the soils; 2) a pump-and-treat groundwater remediation system to contain, and if possible, remediate TCE contamination in the shallow groundwater zone; 3) excavation and off-site disposal of PCB and metals contaminated soils and sediments; 4) capping and monitoring of an abandoned landfill. Part of the shallow groundwater zone is included in an area of “technical impracticability,” meaning that there is no known technology that can provide complete remediation. However, this area will be hydraulically contained and closely monitored to ensure that contamination does not spread, and when new technologies are available, they will be evaluated.

A file review of the Tucson International Airport (EDR Map No. 0) was conducted at the City of Tucson El Pueblo Library on August 20, 2002: The results of the file review is summarized in Section 8.0 of this report.

2. *Gasoline Stations and Other UST or LUST Sites*

Various gasoline stations operated by Circle K, Mobil, Chevron, Exxon, Diamond Shamrock, Texaco, Giant, Conoco and other retailers are located in the study area. The Pima County Mission Road Complex and various other automotive service facilities in the study area are also identified as UST or LUST sites. Releases from gasoline station LUSTs do not typically affect areas of soil that extend far beyond the station’s property boundaries; however, petroleum hydrocarbons have the potential to affect other sites by migrating considerable distances through groundwater. The database report indicates that there are nine LUST sites located within the Project area. Of the nine, eight have received No Further Action letters.

On August 6, 2002, a file review for the one remaining LUST site (Boatner’s Station, EDR Map Nos. 4 & 6) was at the ADEQ to evaluate the nature and extent of soil or groundwater contamination and potential effects on the Paseo de las Iglesias project. The results of the file reviews are summarized in Section 8.0 of this report.

3. *Rio Nuevo South Landfill*

This property is located at 700 Congress Street in Tucson, Arizona, and is listed on the CERC-NFRAP and SHWS databases. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration. There is no additional information regarding the specific reason this site was placed on the CERCLIS list. The SHWS (ZipAcids List) consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The list is no longer updated by the state.

On July 18, 2002, file reviews were conducted for the Rio Nuevo South Landfill at the City of Tucson Solid Waste Department and the City of Tucson Office of Environmental Quality. The results of the file reviews are summarized in Section 8.0 of this report.

4. *Tucson Electric Power Company*

This property is located at 1177 West Silverlake Road Tucson, Arizona, and is listed on the ERNS and AZ Spills databases. There is no information regarding the ERNS entry and it is unclear whether the ERNS notification is related to the AZ Spills report. On December 29, 1987 a PCB spill occurred. No further information is available in the regulatory report regarding this incident, perhaps because the spill or spills were minor and were cleaned up relatively quickly, as is typically the case when such incidents are reported to regulatory authorities.

On August 6, 2002, a file review of the Tucson Electric Power Company facility (EDR Map No. 19) was conducted at the ADEQ to evaluate if past releases at the facility pose a concern for the Project area. The results of the file reviews are summarized in Section 8.0 of this report.

5. *Cottonwood Landfill*

This property is located at 3000 S. Cottonwood Lane, Tucson, Arizona, and is listed on the SWF/LF and WWFAC databases. This property is a known closed solid waste facility. Based on the presumed groundwater and surface water flow it could be a source of contamination within the study area. This property also has a listing as a wastewater treatment facility.

On July 18, 2002, file reviews were conducted for the Cottonwood Landfill at the City of Tucson Solid Waste Department and the City of Tucson Office of Environmental Quality. The results of the file reviews are summarized in Section 8.0 of this report.

6. *EFTC Southwest Operations*

This property is located at 1150 W. Drexel Road, Tucson, Arizona. This address is listed three separate times under Lambda Electronics Power Supply and what are apparently its subsidiaries at the same address. It is currently occupied by Honeywell. This property is listed on the CERC-NFRAP, FINDS, RCRIS-LQG, AZ Spills, and SHWS databases. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. There is no additional information regarding the specific reason this site was placed on the CERCLIS list.

The Resource Conservation and Recovery Information list (RCRIS-LQG) database indicates the site was owned by LAMBDA Electronics, Inc. The facility was classified as a Large Quantity Generator of hazardous waste. The RCRIS includes selective information on sites that generate, transport, store, treat, and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). There have been six violated regulations reported at this site. There are no details available

regarding those violations or enforcement actions. Compliance to the regulations was achieved in all six cases. The most recent date of compliance is April 1994.

According to the FINDS database, other Pertinent Environmental Activity identified at the site includes, in addition to the RCRIS, a listing on the Toxic Chemical Release Inventory system (TRIS) database. TRIS identifies facilities that release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313. No further details are available in the EDR report regarding these listings.

A release of sulfuric acid was reported on October 8, 1986 and is listed on the AZ Spills list. No further information is available regarding this release or cleanup activities. The final listing for this site is on the SHWS database.

On August 6, 2002, a file review of the EFTC Southwest Operations facility (EDR Map No. 40) was conducted at the ADEQ to evaluate if the facility poses a concern for the Project area. The results of the file reviews are summarized in Section 8.0 of this report.

7. *National Semiconductor Corp.*

This property is located at 5901 South Calle Santa Cruz in Tucson, Arizona. The site is listed on the SHWS database. No further details are available in the EDR report regarding this listing.

On August 6, 2002, a file review of the National Semiconductor Corporation facility (EDR Map No. 40) was conducted at the ADEQ to evaluate if the facility poses a concern for the Project area. The results of the file reviews are summarized in Section 8.0 of this report.

8. *Pima Community College D V*

This site also has an address of 5901 S. Calle Santa Cruz, Tucson, Arizona, and is listed on the CERC-NFRAP, RCRIS-SQG, DRY WELLS, and FINDS databases. In reference to the CERC-NFRAP listing, there was a Discovery and a Preliminary Assessment conducted. There was no further remedial action planned for this site. There is no further information available regarding this database listing.

The RCRIS database listing classifies this facility as being a Conditionally Exempt Small Quantity (hazardous waste) Generator. Violations were reported on August 29, 1990. Pima Community College achieved compliance with regulations on June 14, 1991.

According to the FINDS database, this site was listed as a RCRIS and TRIS site. No further information is available in the EDR report regarding these listings.

No files for this facility were available at the ADEQ. However, the facility shares the same address as the National Semiconductor facility discussed above, and it is most likely that these two facilities are in actuality one facility that is listed under two separate business names.

6.2 EDR UNMAPPED SITES

EDR listed several “unmapped” facilities for which the databases reported incomplete or unknown address information. Based on the partial address information and SWCA’s local knowledge and observations of the site area, most of the unmapped sites have been eliminated as potential RECs because they are beyond the perimeter of the study area.

The following “unmapped” sites are listed as Solid Waste Facility/Landfill Sites (SWF/LF) and one as a State Hazardous Waste Site (SHWS). SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

1. Ryland – This site is a closed landfill located at the west end of 40th street at the Santa Cruz River. This site is located within the project area. No additional information is available in the EDR report regarding this site.
2. “A” Mountain – This site is a landfill located on Mission Road at the base of “A” Mountain. This landfill is located within the project area. No additional information is available in the EDR report regarding this site.
3. Nearmont – This site is a landfill located at Nearmont Street and Melwood. This landfill is located within the project area. No additional information is available in the EDR report regarding this site.
4. 29th Street Landfill – This site is located at Silverlake Road at “Santa Cruz” (whether this is the River, a street, or some other feature is not indicated) and is on the State Landfill list. No further information is available in the EDR report regarding this site.

Given the uncertainty of details in the report regarding contaminants, these sites may have potential to affect the project site through contaminants migration.

On July 18, 2002, file reviews were conducted for the above-listed landfills at the City of Tucson Solid Waste Department and the City of Tucson Office of Environmental Quality. The results of the file reviews are summarized in Section 8.0 of this report.

7.0 SITE RECONNAISSANCE

SWCA personnel visited the site on August 28, 2001 and February 13, 2002 to visually inspect the site and surrounding properties for evidence of RECs. Photographs made during the site visits are included in Appendix C. The information reported in this section has been broken out by “reaches” of the Santa Cruz River as it is crossed by major streets from south to north.

The study area includes vacant desert, commercial, light industrial and residential areas. Several closed landfills are located along the Santa Cruz River. Landfill surfaces vary from flat to slightly rolling terrain, most of which has acquired a vegetative cover similar to that of the surrounding vacant land. Items that appeared to consist of construction debris (concrete and asphalt rubble, bent pipes) were visible in some of the upper portions of the riverbanks where it appeared that soil cover had eroded. This debris may be exposed landfill contents or material placed for bank stabilization.

Throughout the entire seven-mile stretch of the Santa Cruz River bottom, there is substantial debris and rubbish, much of which appears to have been the result of numerous, isolated, “wildcat” dumping events carried out over many years. Based on the wide distribution of the disposal sites and the contents of the debris piles (papers, boxes, food and beverage containers, scrap wood and metal, household trash, furniture, appliances), it does not appear that the river bottom has been the site of prolonged commercial or industrial waste disposal. Some of the discarded items, such as small paint or fuel containers, suggest the possibility that small amounts of hazardous materials may have been discarded in these areas, although the actual contents of the containers now, or at the time of disposal is not known.

7.1 REACH #1 - LOS REALES TO VALENCIA

This section of the project area is being mined as part of a sand and gravel operation (Appendix E, Photo #1). Several open gravel pits exist in this reach of the corridor. A road has been created through the riverbed to reach both sides of the river for mining purposes. The main mining operations area is closed to the public. Large hauling and dump trucks are the primary type of vehicle throughout this area. There were no visible areas of soil staining in the areas that could be accessed. The area west of the mining operation and east of Mission Road consists of agricultural lands and residential development. Several automotive repair facilities, the former Larson Company site, and the Weiser Lock Company facility are located within this sector. The Larson and Weiser facilities are identified on several regulatory databases, as shown in the EDR report in Appendix C.

7.2 REACH #2 - VALENCIA ROAD TO DREXEL ROAD

This reach of the Santa Cruz has deeply cut and eroded banks that have not been stabilized. Calle Santa Cruz runs north-south from Drexel Road to Irvington Road within the project boundaries. Pima Community College is also located east of the river on the east side of Calle Santa Cruz. Residential development within the project boundary extends from the west side of the river to Mission Road. (See Appendix D, Photo # 4 for view north from Valencia Road bridge.)

Two automotive service facilities, a fire station, a gasoline station, and Pima Community College are located in this sector. The fire station and automotive repair facilities are not listed in the EDR report. The gasoline station, which is a Chevron facility located at the northwest corner of Valencia and Midvale Park Roads, is likely a UST site, but does not appear on the UST database. Pima Community College appears in the EDR report as a hazardous waste generator.

7.3 REACH #3 – DREXEL ROAD TO IRVINGTON ROAD

Reach #3 of the Santa Cruz also has deeply cut and eroded banks. There is residential development along the entire reach of the west bank of the river and within the project boundaries. The east bank of the river is primarily Sonoran Desertscrub. Three gasoline stations are located in this sector, and are listed in the EDR report. A Honeywell facility where electronic circuits are produced is located at the northeast corner of Drexel Road and Calle Santa Cruz. The address of the Honeywell facility corresponds to the location of Lambda Electronics and EFTC Southwest Operations. The EDR report indicates that a sulfuric acid spill and hazardous waste violations occurred at this facility in the 1980s.

7.4 REACH #4 – IRVINGTON ROAD TO AJO WAY

This reach of the river includes parts of the Santa Cruz Park on both sides of the river. There is substantial residential development up to the riverbanks on both sides of the river in the northern portion of this reach. Residential development dominates the area west of the river and south of Ajo Way. There is also a gas station (Chevron) in the extreme northwest corner of this reach on the south side of Ajo Way and along the riverbank. The Chevron facility did not appear on EDR's database report.

7.5 REACH #5 - AJO WAY TO 36TH STREET

Ryland landfill is located along the east bank of this reach of the river. Landfill material is exposed in the east bank where erosion has occurred. There is residential development along the western project boundary. A portion of Interstate Highway 19 is within the project boundaries on the east side of the river, as well as portions of the Ajo Way Interchange. There is a Conoco gas station on the north side of Ajo Way on the west bank of the Santa Cruz. The Conoco facility did not appear on EDR's database report. An unpaved roadway leads north from Ajo Way into the river bottom. Piles of rubble have been dumped along the riverbank (Appendix D, Photo # 2). Various piles of debris and trash were also observed along the river bottom in this reach (Appendix D, Photo #3).

7.6 REACH #6 - 36TH STREET TO 22ND STREET (STARR PASS BOULEVARD.)

Within this reach of the river there is one landfill, the 29th Street landfill, located on the west side of the river. Additionally, there is a complex of buildings located between Mission Road and the west bank of the Santa Cruz. These buildings house Pima County divisions such as the transportation and flood control offices, the motor fleet/maintenance area, sign and painting shops, wastewater engineering offices, graphics and records archives, and prison facilities. Undisturbed desertscrub occupies land immediately

east of the river. Further east is an area of mixed-use commercial and residential properties, including several automobile salvage and repair shops, none of which are listed in the EDR report.

7.7 REACH #7 – 22ND STREET (STARR PASS BOULEVARD) TO CONGRESS STREET

There are four closed landfills in this reach of the project area. They are Rio Nuevo South, Nearmont, “A” Mountain, and Mission. All of these landfills are along the west bank of the Santa Cruz River. Please see the Site History section of this report for further information on these landfills. Immediately south-southwest of the Nearmont landfill is an experimental project site within a fenced area (Appendix E, Photo #6). The City of Tucson’s Office of Environmental Management is conducting this project under the direction of the City of Tucson’s City Manager’s Office. The intent is to investigate one method of expediting the decomposition of the landfill contents and determining if this method is viable in the desert southwest. The experimental method involves the addition of oxygen and water to the landfill to create an aerobic environment from an anaerobic one. Methane monitoring wells were noticed on and near the Nearmont landfill.

East of this experimental project site and west of the river are two maintenance stations, one for buses, and the other for tractor trailers (Appendix D, Photo #9). Neither maintenance facility is listed in the EDR report.

A concrete irrigation ditch is located along the top of the west bank of the Santa Cruz in this reach. There are signs along this ditch warning of the non-potable nature of the water. The water that normally flows through that ditch is effluent used for landscaping and golf course irrigation (Appendix D, Photo # 9). There are at least four groundwater monitor wells located at the north end of the Nearmont landfill in this reach (Appendix D, Photo #7).

There is a small block building enclosed by a fence but no signs were present to indicate the purpose or ownership of the building. Additionally, there is a transformer located near Congress Street in this reach that is the property of Tucson Electric Power Company. No leakage was apparent in the area around the transformer. There are two hotels along the east side of the Santa Cruz River, along the Interstate Highway 10 frontage road. A Circle K gasoline station with, according to the EDR report, a closed LUST and two active USTs is located at the corner of Congress Street and Mission Road.

8.0 FILE REVIEWS

Table 2 provides a summary of 38 facilities mapped by EDR that are located in the project area. Of those 38 sites, file reviews were conducted for nine of the facilities, two of which are landfills. In addition, file reviews were also conducted for five landfills located in the project area but were not mapped by EDR.

8.1 ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

In most instances, only catastrophic releases would result in impacts to the project area from off-site CERCLA, SHW, ERNS, and LUST facilities. However, sites have the potential to slowly release

contaminants that, in the long term, could impact soil, groundwater, or surface water quality at the project area.

File reviews were conducted for the following sites: The Tucson International Airport (EDR Map No. 0), Boatner's Station (EDR Map No. 4 & 6), Tucson Electric Power Company (EDR Map No. 19), Pima Community College (EDR Map No. 40), EFTC Southwest Operations (EDR Map No. 40), American Airlines (EDR Map No. 46), and The Weiser Lock Company (EDR Map No.49).

8.1.1 Tucson International Airport

Files were reviewed for TIAA Superfund Site (EDR Map No. 0) at the ADEQ office in Phoenix, Arizona, and at the City of Tucson (COT) El Pueblo Library that is located in Tucson, Arizona. The COT El Pueblo Library is the repository site for all documents generated for the TIAA Superfund Site.

The TIAA Superfund Site is located on the south side of the City of Tucson, Arizona approximately 1.5 miles from the project area at its closest point. The site is bounded by Interstate Highway 19 to the west, Hughes Access Road to the east and south, and Los Reales Road and Valencia Road to the north.

In May 1981, organic chemicals commonly used as solvents by electronic and aerospace industries were found in several City of Tucson drinking water wells in southwest Tucson. Later that year, the City of Tucson closed the contaminated wells to ensure that water served to the public would meet drinking water standards. TIAA was placed on the National Priorities List (NPL) in 1983. The EPA is the lead regulatory agency at this site with ADEQ performing regulatory support and technical oversight. The TIAA CERCLA site contains seven major project areas including Air Force Plant 44 (AFP44), TARP, the Airport Property, the Arizona Air National Guard (AANG) 162nd Facility, Burr-Brown Corporation, the former West-Cap Property, and West Plume-B. Groundwater investigations have defined a groundwater contamination plume (main plume) in the regional aquifer. The main plume, consisting mainly of trichloroethylene (TCE), with smaller amounts of dichloroethylene (DCE), chloroform, and chromium, extends from AFP44 north past Irvington Road, 15 miles south of downtown Tucson, and is along the west boundary of the airport.

In 1997, EPA constructed a groundwater extraction system for the former West-Cap property (March 23, 2002). This system delivers contaminated groundwater from the West-Cap property to the Burr-Brown treatment plant. A Consent Decree (CD) to address cleanup of soils and shallow groundwater beneath the Airport Property and to provide continued funding for operation and maintenance of the TARP system was finalized in 1999. This CD provides for the cleanup of a highly contaminated portion of the Airport Property near the Three Hangers Area. The CD calls for four separate remedies for the Three Hangers Area: 1) a soil vapor extraction (SVE) system will be built to remove TCE from the soils; 2) a pump-and-treat groundwater remediation system to contain, and if possible, remediate TCE contamination in the shallow groundwater zone; 3) excavation and off-site disposal of PCB and metals contaminated soils and sediments; 4) capping and monitoring of an abandoned landfill.

EPA and ADEQ are currently reviewing the Draft SVE Remedy Technical Memorandum submitted by Conestoga Rovers and Associates (TIA, June 27, 2002) for an SVE system to be installed to remove TCE from the soils.

EPA is currently pumping contaminated groundwater from a groundwater extraction system installed at the Burr-Brown Corporation facility located approximately 4 miles east of the project area. The groundwater extraction system consists of a cluster of three extraction wells (identified as WC-3U, WC-3U2, and WC-3L), a transfer pipeline, and a treatment facility (CH2MHill, July 1999).

No files were available that discussed the progress of the PCB- and metals-impacted soil and sediment cleanup activities, nor the capping and monitoring of the abandoned landfill. However, since these areas of concern are located approximately 3 to 4 miles east of the Santa Cruz River, they are not likely to have any impact on the project area.

8.1.2 Boatner's Station

The Boatner's Station/E-Z Facility #100935 (EDR Map Nos. 4 & 6) is located at 292 South Freeway, which is located near the northeast boundary of the project area. The EDR report indicates that in October 1989, a known or probable effect on groundwater was reported at the facility due to a release from a LUST. The EDR reports also indicates an undefined or unknown source of soil contamination was reported at the facility in April 1999.

The file review indicates that two 10,000-gallon unleaded gasoline USTs were removed from the site in October 1996. Soil beneath the USTs had been impacted with petroleum hydrocarbons at levels in excess of the ADEQ Soil Remediation Levels. Previous investigations indicate that a perched aquifer located approximately 35 feet below the ground surface at the facility was impacted by petroleum hydrocarbons as early as 1991 (Terranext, January 1996).

A Site Characterization Assessment conducted at the site in late 1996 (SECOR, February 1996) indicates that the direction of groundwater flow in the shallow aquifer is to the north. Groundwater analytical results from several groundwater monitoring wells located on the Boatner's property indicate that dissolved benzene in excess of the ADEQ Soil Remediation Levels had been detected in two wells located near the eastern property boundary. The Boatner's facility was purchased by ADOT as part of I-10 right-of-way. ADOT removed the USTs and pump islands in June 1996. The former Boatner's facility most likely will not have any impact on the project area since the USTs have been removed, and the shallow aquifer impacted with residual benzene flows north, away from the project area.

8.1.3 Tucson Electric Power Company

The Tucson Electric Power Company (EDR Map No. 19) is located at 1177 West Silverlake Road Tucson, Arizona, and is listed on the ERNS and AZ Spills databases. The file review indicated that on

December 29, 1987, approximately 2 to 3 gallons of oil leaked from an electric transformer. A small area of soil was impacted, and the soil was subsequently excavated and disposed at a licensed landfill, thereby alleviating any environmental threat to the project area.

8.1.4 Pima Community College

Pima Community College (EDR Map No. 40) is located at 5901 South Calle Santa Cruz, Tucson, Arizona and is listed on the CERC-NFRAP, RCRIS-SQG, DRY WELLS, and FINDS databases. In reference to the CERC-NFRAP listing, there was a Discovery and a Preliminary Assessment conducted.

The RCRIS database listing classifies this facility as being a Conditionally Exempt Small Quantity (hazardous waste) Generator. Violations were reported on August 29, 1990. Pima Community College achieved compliance with regulations on June 14, 1991.

The file review indicates that this address is listed as the National Semiconductor Corporation facility. ADEQ inspected the facility on August 29, 1990 and issued several violations associated with housekeeping protocols. All wastes generated from the facility were containerized and disposed offsite. The ADEQ inspection report indicates that the facility planned to cease operations by the end of 1991. The facility most likely does not pose an environmental threat to the project area.

8.1.5 EFTC Southwest Operations

The EFTC Southwest Operations facility (EDR Map No. 40) is located at 1150 W. Drexel Road, Tucson, Arizona. In the EDR report, the address is listed three separate times under Lambda Electronics Power Supply and what are apparently its subsidiaries at the same address. The site is currently occupied by Honeywell. This property is listed on the CERC-NFRAP, FINDS, RCRIS-LQG, AZ Spills, and SHWS databases. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. There is no additional information regarding the specific reason this site was placed on the CERCLIS list.

The Resource Conservation and Recovery Information list (RCRIS-LQG) database indicates the site was owned by LAMBDA Electronics, Inc. The facility was classified as a Large Quantity Generator of hazardous waste. The RCRIS includes selective information on sites that generate, transport, store, treat, and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

The file review indicates that the Lamba Electronics facility manufactured and assembled various electronic components. ADEQ conducted an inspection of the facility on April 11, 1986 (Hazardous Waste Inspection AZD097113856) and 16 violations were reported. The violations included the failure of Lamba to submit manifests to ADEQ, to train employees, to label drums, and to keep hazardous waste in a closed waste container. All of the violations were related to general housekeeping protocols.

On October 8, 1986, approximately 50 gallons of 10% dilute sulfuric acid was released at the facility. The acid flowed into a storm drain and into an area of landscaping on the property where it impacted approximately 350 square feet. The impacted soil was excavated and disposed offsite, thereby alleviating any potential impact to the project area.

8.1.6 American Airlines

The American Airlines facility (EDR Map No. 46) is located at 1645 West Valencia, Tucson, Arizona. The EDR report indicates that a release of an unknown substance, possible fuel, was reported at the facility on February 2, 1999. The file review indicates that a resident near the airport called ADEQ to report that an aircraft was releasing excess fuel because it was “flying circles around the city polluting the atmosphere.” It is not likely that this incident poses an environmental concern for the project area.

8.1.7 Weiser Lock Company

The Weiser Lock Company (EDR Map No. 49) is located at 6700 South Weiser Lock Drive, Tucson, Arizona. The EDR report indicates that a release of a cyanide-based solution was reported at facility on February 24, 1994. The file review indicates that approximately 25 gallons of electroplating solution consisting of 15 pounds of sodium cyanide was released inside the facility on February 24, 1994. The solution was contained in a secondary containment underneath the primary holding tank. The solution was pumped out and collected in drums and disposed offsite. It is not likely that this incident poses an environmental concern for the project area.

8.2 LANDFILLS

On-site landfills have the potential to affect local groundwater, surface water and soil quality, depending on landfill contents and potential mobility of contaminants. On July 18, 2002, City of Tucson Environmental Management Division and the City of Tucson Solid Waste Department files were reviewed for the following landfills: Rio Nuevo South [which includes Nearmont, Congress, and “A” Mountain Landfills] (EDR Map No. 3), Mission (No EDR Map No.), 29th Street (No EDR Map No.), Ryland (EDR Map No. 29), and Cottonwood (EDR Map No. 29).

8.2.1 Rio Nuevo South

The Rio Nuevo South Landfill (EDR Map No. 3) includes the Nearmont, former Congress, and “A” Mountain Landfills (Hydro Geo Chem., Inc. 2000). The Nearmont and former Congress landfills are located along the west bank of the Santa Cruz River, east of Melwood Avenue and Brickyard Lane, and north of Mission Lane. Their northern boundary is located approximately halfway between Congress and Mission Lane. The “A” Mountain landfill is located to the south of Mission Lane.

Records indicate that the Nearmont Landfill was used for solid waste disposal between 1960 and 1967. Based on available soil boring data, the base of the landfill ranges from 15 to 40 feet below the land surface (bls). The Nearmont Landfill encompasses approximately 6 acres, and the estimated volume of

refuse is 264,000 cubic yards (yd³). The Nearmont Landfill contains construction debris, which includes bricks and other inorganic and organic debris, as well as municipal solid waste [MSW] (Dames and Moore, 1989).

The former Congress Landfill was used for MSW disposal beginning in the early 1900's, but aerial photographs indicate that most refuse was added between 1953 and 1960. The area of the former Congress Landfill is approximately 12 acres. It ranges in depth between 10 to 35 feet, and probably averages more than 20 feet deep (FOX, 1984; ETL, 1981). The refuse in the former Congress Landfill consists of both MSW and construction debris, and its volume is estimated at 384,000 yd³.

Records indicate that the "A" Mountain Landfill was used for solid waste disposal between 1953 and 1962. Depths of refuse at the "A" Mountain Landfill range from approximately 15 to 50 feet bls over a total area of approximately 36 acres, and the volume of refuse is estimated at 2,000,000 yd³. "A" Mountain Landfill received primarily residential refuse typical of most municipal waste landfills.

No contaminants have been detected in water samples collected from groundwater beneath Rio Nuevo South Landfill at concentrations above the Arizona Aquifer Water Quality Standards. A soil gas survey conducted by Hydro Geo Chem, Inc. in 2000 indicated that only trace concentrations of volatile organic compounds (VOCs) are present in the shallow refuse (Sverdrup, 1987). Recent soil gas monitoring indicates that the landfill gas in wells at the Nearmont and "A" Mountain Landfill contains as much as 45% methane. (Hydro Geo Chem, Inc., 2000).

The area containing the three closed municipal landfills is scheduled for development by COT. The COT is managing the Landfill Stabilization Project (LSP) to reduce methane production, monitoring requirements, and maintenance costs at the Rio Nuevo Landfill. Hydro Geo Chem, Inc. is currently conducting pilot tests at the landfill to determine if enhanced in-situ aerobic degradation is a feasible method for stabilizing the refuse in the Rio Nuevo Landfill (Petrus, 2002).

Groundwater beneath and downgradient of the landfill has not been impacted by contaminants, and the landfill is currently being monitored for methane, and is targeted for enhanced in-situ aerobic degradation.

8.2.2 Mission

The Mission Landfill (No EDR Map No.) is located between Mission Road on the west and the Santa Cruz River on the east. The northern boundary is located where the Santa Cruz River and Mission Road nearly converge. The southern boundary is probably a few hundred feet south of the access Road from 22nd Street to Mission Road.

Records indicate that the Mission Landfill was used for solid waste disposal during the mid to late 1960's. There are no records in City of Tucson files showing dates of operations. According to Wilson and Sebenik (1977), Mission Landfill was active from approximately 1966 through 1968. However, aerial photographs indicate that the landfill operation may have started as early as 1963 in the western part of the site. Landfill operations may have extended into the early 1970's because the landfill was listed as

active as recently as 1973 (Marum and Marum, 1973). Before the landfill operation, the eastern part of the site was used as junk yard. Much of this area has been removed by the Santa Cruz River, which presently runs well to the west of its location in the 1970's. The approximate depth of the landfill was estimated as 40 feet by Wilson and Sebenik (1977). However, aerial photographs do not show any excavated area, and the only naturally low-lying area was a shallow creek bed in the western part of the site. According to PAG (1992), the Mission site was a small depressed area approximately 10 feet deep or less.

Mission Landfill served as a repository for City Class II Trash and Debris, which primarily consisted of green waste and construction debris. In 1992, Pima Association of Government (PAG) staff observed bricks, concrete, and rebar protruding from disturbed areas under construction for the Santa Cruz Park. During construction of the bank protection, mixed waste, including newspapers, was found at the site (PAG, 1993). Local construction workers recall deposits of newspapers, concrete, and green waste, but no household waste in the landfill (PAG, 1993). Wilson and Sebenik (1977), recorded that the COT deposited 40 to 50 tons of trash per day into the landfill for a total of 32,872 tons throughout the life of the landfill.

An undated PAG site profile of the Mission Landfill review at the COT indicates that in 1996 and 1997, Heath Consultants installed a test hole to a depth of three feet around the landfill perimeter and within the landfill and that no methane was detected. Waste material was not encountered in any of the test holes.

The Mission Landfill has been incorporated into the Santa Cruz River Park by Pima County. Much of the area is landscaped, and drainage has been installed in the northern and eastern parts of the site.

8.2.3 29th Street

The 29th Street Landfill (No EDR Map No.) is located west of the Santa Cruz River, east of Cottonwood Lane, and north of 29th Street/Silverlake Road. The northern boundary is at the confluence of the East and West forks of the Santa Cruz River.

The 29th Street Landfill was used for solid waste disposal in the early 1960's. There are no records in COT files showing the dates of operation for the landfill. According to Wilson and Sebenik (1977), the landfill was in operation for less than a year, starting in 1965. However, historical aerial photographs show that that the landfill was already active by 1963 and was closed and graded by 1967. The approximate depth of the landfill is listed as 50 feet by Wilson and Sebenik (1977).

The 29th Street Landfill served as a repository for City Class II trash, green waste, and construction debris. PAG staff observed rubber tires, concrete, and bricks protruding from disturbed areas under construction for the Santa Cruz River Park. Also, sanitary landfill waste was intersected during construction of bank protection along the Santa Cruz River (PAG, 1993). Wilson and Sebenik (1977) indicate that COT deposited 150 tons of trash per day for a total of 41,090 tons throughout the lifetime of the landfill.

There are no records or evidence that the 29th Street Landfill was either lined or capped with an impermeable material. The engineering firm Cella Barr Associates, Inc. confirmed that no liner or cap material was found during construction of the bank protection along the river.

Methane gas monitoring was conducted at the landfill after the site was inundated by flood waters in 1983. A monitoring and venting system was installed at the southern end, where the waste deposits were most extensive (PAG, 1993). Although methane gas was detected, the monitoring was not continued and no records of the monitoring results were on file at COT.

Data obtained from Pima County Solid Waste Management (SWM) indicate that shallow soil gas studies conducted at the former 29th Street Landfill in March 1995 indicate that the site is producing landfill gas and several different trace VOCs may be present in the methane (Pima County SWM, 1995). Most of the landfill gas trace organics appeared to be concentrated within the central portion of the site with very limited levels at perimeter monitoring points. This suggests that gas being produced is most likely venting and rapidly dissipating vertically through the ground surface and that limited subsurface lateral migration of gas is occurring.

8.2.4 Ryland

The Ryland Landfill (No EDR Map No.) is located east of the Santa Cruz River, west of I-19, south of Julian Wash (also known as Tucson Diversion Channel), and north of 44th Street.

Ryland Landfill was used for solid waste disposal during the mid-1960's. There are no records in COT files showing the dates of operation for the landfill. According to Wilson and Sevenik (1977), Ryland Landfill was used for solid waste disposal from approximately 1960 to 1965. Historical aerial photographs show that the landfill was active in 1963, but that it was closed by 1967. The approximate depth of the landfill was estimated at 50 feet by Wilson and Sevenik (1977).

Ryland Landfill primarily served as a repository for COT Class I and II trash. According to Wilson and Sevenik (1977), COT deposited only green waste and construction debris into the landfill. However, by 1993, erosion along the bank of the Santa Cruz River had exposed the contents of the landfill for approximately 600 feet along a north-south transect near the center of the landfill area. Field investigations by PAG showed the presence of tires, wood, and assorted trash such as shoes, glass, metal bed frames, bottles, plastics, and newspapers. Tires were by far the most abundant component visible at the site (PAG, 1993). Wilson and Sevenik (1977) also reported that the COT deposited 200 tons of trash per day into the landfill for a total of 365,250 tons throughout the lifetime of the landfill.

There are no records or evidence that the landfill was either lined or capped with an impermeable material. The cross-section provided by erosion along the Santa Cruz River in 1993 showed no evidence for either a liner or a cap. Further, the fact that tires are surfacing all over the landfill suggests that cap material was installed, or was very thin.

A letter written to the ADEQ by the COT Department of Solid Waste Management on February 27, 2001 indicates that the COT was preparing to excavate, regrade, maintain, repair, and hydroseed the landfill. The project was designed to provide additional cover and to reshape the landfill areas to provide positive storm water drainage and eliminate surface water ponding. The letter indicates that any exposed trash encountered during the project would be recovered on site with two feet of cover soil. The ultimate purpose of the project is to prevent any increase in leachate that could result in added moisture, and to reduce the potential for methane gas by decreasing the moisture allowed to penetrate the closed landfill.

8.2.5 Cottonwood

The Cottonwood Landfill (EDR Map No. 29) is located between west 36th Street and Ajo Way and Mission Road and the Santa Cruz River.

The Cottonwood Landfill was used as a sanitary landfill and was permitted to accept trash. Operations at the landfill began in 1973 and ceased in 1985. Landfill operations consisted of placing trash in an open pit. The estimated total area of the landfill is 18 acres, and the total depth is unknown. The loading rate when the landfill was active was 150 tons per day (Dames & Moore, 1989).

Dames & Moore (1989) reports that the landfill appears to be capped and the cap is in good condition with minimal evidence of erosion. Historical aerial photographs indicate that the landfill was developed for residential use (primarily mobile homes) between 1990 and the present.

In early 1996, Environmental Engineering Consultants, Inc. (EEC) installed five methane extraction wells through the refuse at the landfill. The refuse consisted of green waste and construction debris (EEC, 1996). Methane was measured in the five extraction wells at concentrations ranging from 1.1 % to 23.5%.

On January 19, 1996, the COT collected groundwater samples from two wells located in close proximity to the former Cottonwood Landfill. The wells were installed by a sand and gravel company in operation near the landfill, and the wells provide drinking water to five residences on the landfill. Except for coliform and nitrate, laboratory test results from the two groundwater samples indicate that there are indications that the groundwater in the vicinity of the landfill has been impacted by materials that may have been disposed in the landfill (COT, 1996). Coliform is typically associated with bacteria in the well or distribution system, and nitrate is typically associated with agricultural activities.

9.0 CONCLUSIONS AND RECOMMENDATIONS

SWCA has completed a Phase I ESA of the property described in this document in conformance with the scope and limitations of ASTM Standard E 1527. Information obtained during completion of this Phase I ESA indicates that the site was used primarily for agriculture through the 1960's at which time development began to encroach upon the riverbanks primarily in the form of residential areas. The site has a history of seven landfills. There is some commercial development within the project boundaries such as gas stations, government operations (county offices and motor fleet maintenance), as well as bus and truck maintenance. Additionally, there is substantial gravel pit activity at the south end of the project area. Based primarily on the site visit, interviews, and records review described in this report, SWCA recommends further investigation of the site with respect to potential RECs.

1. As a matter of housekeeping and to preclude the miscellaneous trash and debris in the river bottom from contributing to surface or groundwater contamination, or detracting from the aesthetics of the river bottom, this trash/debris should be removed. The materials should be visually screened for potentially hazardous materials, and if warranted, tested for possible chemical hazards.
2. Due to voids, decomposition of materials, and lack of compaction during filling, the landfills can pose engineering and structural risks with respect to structures built on or near the landfills. Chemical exposure hazards could be created during excavation of landfill materials for possible building or utility construction. Construction or excavation on or near landfills should be prohibited until potential hazards are fully characterized and mitigated. Consideration should be given to the application of Voluntary Environmental Mitigation Use Restrictions (VEMUR's) for all landfill areas if they are to remain in their present condition without further investigation.

10.0 LIMITATIONS

SWCA warrants that competent professionals prepared this report in conformance with ethical business practices and industry standards. A chain of title search was not required within the scope of this project and therefore not included in this assessment. Because the site involves hundreds of individual properties and has no specific street address, city streets directories and fire or emergency response records that track incidents by street address could not be investigated in this assessment.

SWCA has accepted as true and accurate the information provided by site contacts, regulatory database services, and other sources cited in this report. SWCA is not liable for any inaccuracies, errors, or omissions resulting from reliance upon those sources. A chain-of-title search was not included in the scope of work and was therefore, not completed for this assessment.

Credentials of the individuals involved in preparing this report are included in Appendix F. The information contained in this report relates only to the referenced property and should not be extrapolated or construed to apply to any other site or property whatsoever. The description of the site as provided herein is as it existed as of the date of the site reconnaissance. The contents of this report are valid as of the date shown on the report. The information presented in this report is intended for the exclusive use of the TetraTech, Inc. and its current affiliates, subsidiaries, underwriters, and lenders. Reliance of any other parties on the information presented herein is the sole responsibility of said parties.

11.0 REFERENCES

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APPENDIX A AERIAL PHOTOGRAPH, MAY 5, 1998



APPENDIX B DESCRIPTIONS OF REGULATORY DATABASES

List and Descriptions of Regulatory Databases

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

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

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

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

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

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

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

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

SHWS: ZipAcids List. The ACIDS list consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The list is no longer updated by the state.

SWF/LF: Directory of Solid Waste Facilities. Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

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

UST: Underground Storage Tank Listing. Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

WQARF: Water Quality Assurance Revolving Fund Sites. Sites that may have an actual or potential impact upon the waters of the state, caused by hazardous substances. The WQARF program provides matching funds to political subdivisions and other state agencies for cleanup activities.

SPILLS: Hazardous Materials Logbook. ADEQ Emergency Response Unit. The ADEQ Emergency Response Unit documents chemical spills and incidents that are referred to the Unit. The logbook information for 1984-1986 consists of handwritten entries of the date, incident number, name, city (zip codes not included), county, chemical and quality.

WWFAC: Waste Water Treatment Facilities. Statewide list of waste water treatment facilities.

DRYWELLS: Drywell Registration. A drywell is a bored, drilled, or driven shaft or hole whose depth is greater than its width and is designed and constructed specifically for the disposal of storm water.

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

APPENDIX C REGULATORY DATABASE REPORT



The EDR Area Study Report

Study Area
Paseo de las Iglesias
Tucson, AZ 85746

February 11, 2002

Inquiry number 733153.1s

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

PASEO DE LAS IGLESIAS
TUCSON, AZ 85746

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

Proposed NPL..... Proposed National Priority List Sites
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System

STATE ASTM STANDARD

SPL..... Superfund Program List
AZ WQARF..... Water Quality Assurance Revolving Fund Sites

FEDERAL ASTM SUPPLEMENTAL

Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
RAATS..... RCRA Administrative Action Tracking System

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... List of Aboveground Storage Tanks
AZ DOD..... Department of Defense Sites
Aquifer..... Waste Water Treatment Facilities
AZ AIRS..... Arizona Airs Database

EDR PROPRIETARY HISTORICAL DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

FEDERAL ASTM STANDARD

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/22/2001 has revealed that there is 1 NPL site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>TUCSON INTERNATIONAL AIRPORT A</i>	<i>NOGALES HWY</i>	<i>0</i>	<i>3</i>

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 11/21/2001 has revealed that there is 1 CERCLIS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>TUCSON INTERNATIONAL AIRPORT A</i>	<i>NOGALES HWY</i>	<i>0</i>	<i>3</i>

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

A review of the CERC-NFRAP list, as provided by EDR, and dated 11/21/2001 has revealed that there are 3 CERC-NFRAP sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>PIONEER PAINTS AND VARNISH CO</i>	<i>438 W CONGRESS ST</i>	<i>1</i>	<i>8</i>
<i>PIMA COMMUNITY COLLEGE D V</i>	<i>5901 S CALLE SANTA CRUZ</i>	<i>40</i>	<i>46</i>
<i>E F T C SOUTHWEST OPERATIONS</i>	<i>1150 W DREXEL RD NE COR</i>	<i>40</i>	<i>47</i>

EXECUTIVE SUMMARY

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

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 4 RCRIS-LQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIMA COUNTY DEPT OF TRANSPORTA	1313 S MISSION RD	16	26
TARP TUCSON AIRPORT REMED PROJ	1100 W IRVINGTON RD	36	43
E F T C SOUTHWEST OPERATIONS	1150 W DREXEL RD NE COR	40	47
WEISER LOCK CO	6700 S WEISER LOCK DR	49	55

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

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 15 RCRIS-SQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINTS AND VARNISH CO	438 W CONGRESS ST	1	8
CHEVRON U S A INC TUCSON ASPHA	601 W SIMPSON ST	10	16
RALPHS TRANSFER INC	747 S FWY	11	17
WATER DEPARTMENT	501 W 18TH ST BLDG 1	12	17
TUCSON WATER CITY OF TUCSON	510 W 18TH ST BLDG 10	12	17
TUCSON CITY OF WATER DEPARTMEN	510 W 18TH ST	12	19
WESTERN EMULSIONS INC	1015 SOUTH FREEWAY	14	22
EXXON CO USA 73904	655 W 22ND ST AND I 10	15	24
PIMA COUNTY AUTOMOTIVE SERVICE	1301 S MISSION RD	16	27
PIMA COUNTY MISSION RD COMPLEX	1301-1313 S MISSION RD	16	30
BARNETT ABD DEYOE CONTRACTORS	701 W SILVERLAKE RD	22	35
H AND K BARRELS	2122 S 12TH AVE	25	36
PIMA COMMUNITY COLLEGE D V	5901 S CALLE SANTA CRUZ	40	46
WALGREENS STORE 3837	1550 W VALENCIA	45	52
LARSON COMPANY THE	6701 S MIDVALE PARK RD	48	53

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 08/08/2000 has revealed that there are 10 ERNS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
292 SOUTH FREEWAY	292 SOUTH FREEWAY	4	13
501 W 18TH STREET	501 W 18TH STREET	12	17
1204 W SILVERLAKE RD	1204 W SILVERLAKE RD	19	33
1177 W. SILVERLAKE	1177 W. SILVERLAKE	19	33
1775 WEST CALLE ACATULCO	1775 WEST CALLE ACATULC	30	39
1645 W. VALENCIA	1645 W. VALENCIA	46	53
6701 SOUTH MIDVILLE PARK ROAD	6701 SOUTH MIDVILLE PAR	48	55
6701 SOUTH MIDVILLE PARK ROAD	6701 SOUTH MIDVILLE PAR	48	55

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
6660 SOUTH BROADMOOR	6660 SOUTH BROADMOOR	49	57
6660 SOUTH BROADMOOR	6660 SOUTH BROADMOOR	49	57

STATE ASTM STANDARD

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's ZipAcids database.

A review of the SHWS list, as provided by EDR, has revealed that there are 5 SHWS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINT & VARNISH COMPAN	438 W CONGRESS	1	10
RIO NUEVO PROJECT	700 CONGRESS ST.	3	13
AMERICAN SCRAP METAL RECYCLING	2140 S. FREEWAY	24	36
NATIONAL SEMICONDUCTOR CORP.	5901 S. CALLE SANTA CRU	40	46
LAMBDA ELECT. DIV VEECO INST C	1150 W DREXEL RD	40	49

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Quality's Municipal Solid Waste Landfills.../Closed Solid Waste Landfills...database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
COTTONWOOD	3000 S. COTTONWOOD LN.	29	39

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST File Listing by Zip Code.

A review of the LUST list, as provided by EDR, and dated 11/08/2001 has revealed that there are 24 LUST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINT & VARNISH COMPAN	438 W CONGRESS	1	10
CIRCLE K # 8838	2 N FREEWAY	2	11
TEXACO SERVICE	480 W CONGRESS	2	12
CIRCLE K # 171	1002 W CONGRESS	5	13
BOATNER'S STATION/E-Z #060179	292 S FREEWAY	6	13
CITIZEN AUTO STAGE CO	351 S BRICKYARD LN	9	15
RALPH'S TRANSFER INC	747 S FREEWAY	11	16
WEST 18TH ST FUEL ISLAND	510 W 18TH ST	12	18

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
ASPHALT PRODUCTS TRANSPORT CO	635 W 18TH ST	12	19
UNOCAL # 4897	1210 S FREEWAY	14	20
CIRCLE K # 1838	1145 S FREEWAY	14	21
CRICLE K #5579	655 W 22ND	15	23
EXPRESS-IT	601 W 22ND ST	15	25
PIMA COUNTY DEPT OF TRANSPORTA	1313 S MISSION RD	16	26
PIMA COUNTY AUTOMOTIVE SERVICE	1301 S MISSION RD	16	27
ATKO BUILDING MATERIALS INC	600 W 25TH ST	17	31
KUSHMAUL MACHINE & ENGINEERING	2210 S FREEWAY	18	32
E-Z SERVE/QUIK MART #100909	1890 S MISSION RD	23	35
CIRCLE K # 678	1777 W 36TH ST	27	37
VAN'S EXXON	3761 S MISSION RD	31	39
BORDER PATROL HEADQUARTERS	1970 W AJO WAY	32	40
US BORDER PATROL TUCSON	2010 W AJO WAY/1970 W A	32	41
CIRCLE K # 998	4820 S MISSION RD	35	42
CIRCLE K # 654	2526 W VALENCIA	43	51

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Arizona UST-DMS Facility and Tank Data Listing by City database.

A review of the UST list, as provided by EDR, and dated 11/07/2001 has revealed that there are 38 UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINT & VARNISH COMPAN	438 W CONGRESS	1	10
CIRCLE K # 8838	2 N FREEWAY	2	11
TEXACO SERVICE	480 W CONGRESS	2	12
CIRCLE K # 171	1002 W CONGRESS	5	13
BOATNER'S STATION/E-Z #060179	292 S FREEWAY	6	13
FLINT OIL CO INC	500 W SIMPSON	8	14
CITIZEN AUTO STAGE CO	351 S BRICKYARD LN	9	15
RALPH'S TRANSFER INC	747 S FREEWAY	11	16
WEST 18TH ST FUEL ISLAND	510 W 18TH ST	12	18
ASPHALT PRODUCTS TRANSPORT CO	635 W 18TH ST	12	19
GELCO	949 S FREEWAY	13	20
RECYCLE AMERICA	945 S FREEWAY	13	20
UNOCAL # 4897	1210 S FREEWAY	14	20
CIRCLE K # 1838	1145 S FREEWAY	14	21
GUADALUPE LESPRON	1114 S FARMINGTON	14	22
CRICLE K #5579	655 W 22ND	15	23
EXPRESS-IT	601 W 22ND ST	15	25
PIMA COUNTY DEPT OF TRANSPORTA	1313 S MISSION RD	16	26
PIMA COUNTY AUTOMOTIVE SERVICE	1301 S MISSION RD	16	27
ATKO BUILDING MATERIALS INC	600 W 25TH ST	17	31
KUSHMAUL MACHINE & ENGINEERING	2210 S FREEWAY	18	32
PIMA COUNTY CORRECTIONAL FAC	1270 W SILVERLAKE	20	33
CARL GREMMLER	527 W 29TH ST	21	34
BARNETT & DEZOL CONT INC	701 W SILVER LAKE RD	22	34
E-Z SERVE/QUIK MART #100909	1890 S MISSION RD	23	35
CIRCLE K # 678	1777 W 36TH ST	27	37
DIAMOND SHAMROCK # 1623	2616 S MISSION RD	28	38
CIRCLE K # 1931	2590 S MISSION RD	28	38

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
VAN'S EXXON	3761 S MISSION RD	31	39
BORDER PATROL HEADQUARTERS	1970 W AJO WAY	32	40
US BORDER PATROL TUCSON	2010 W AJO WAY/1970 W A	32	41
GIANT #925	1202 W AJO	34	42
CIRCLE K # 998	4820 S MISSION RD	35	42
CIRCLE K # 1606	5680 S MISSION RD	39	45
DIAMOND SHAMROCK # 1613	2160 W DREXEL RD	41	49
SAN XAVIER ROCK & MATERIALS	1011 W VALENCIA DRIVE	42	50
CIRCLE K # 654	2526 W VALENCIA	43	51
CIRCLE K # 5540	1555 W VALENCIA RD	45	52

FEDERAL ASTM SUPPLEMENTAL

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, has revealed that there is 1 CONSENT site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
TUCSON INTERNATIONAL AIRPORT A	NOGALES HWY	0	3

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

A review of the ROD list, as provided by EDR, has revealed that there is 1 ROD site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
TUCSON INTERNATIONAL AIRPORT A	NOGALES HWY	0	3

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 10/29/2001 has revealed that there are 26 FINDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
TUCSON INTERNATIONAL AIRPORT A	NOGALES HWY	0	3

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINTS AND VARNISH CO	438 W CONGRESS ST	1	8
ARIZONA DEPT OF TRANSP	611 W MESA	7	14
CHEVRON U S A INC TUCSON ASPHA	601 W SIMPSON ST	10	16
RALPHS TRANSFER INC	747 S FWY	11	17
TUCSON CITY OF WATER DEPARTMEN	510 W 18TH ST	12	19
WESTERN EMULSIONS INC	1015 SOUTH FREEWAY	14	22
EXXON CO USA 73904	655 W 22ND ST AND I 10	15	24
PIMA COUNTY DEPT OF TRANSPORTA	1313 S MISSION RD	16	26
PIMA COUNTY AUTOMOTIVE SERVICE	1301 S MISSION RD	16	27
PIMA COUNTY MISSION RD CMLX	1301-1313 S. MISSION RD	16	30
PIMA COUNTY MISSION RD COMPLEX	1301-1313 S MISSION RD	16	30
BARNETT ABD DEYOE CONTRACTORS	701 W SILVERLAKE RD	22	35
H AND K BARRELS	2122 S 12TH AVE	25	36
MISSION VERDE APT	1702 W 36TH ST APT 1174	26	37
TARP TUCSON AIRPORT REMED PROJ	1100 W IRVINGTON RD	36	43
FRYS FOOD STORES 119	902 W IRVINGTON RD	37	45
HOME DEPOT THE 0467	1155 W IRVINGTON RD	38	45
PIMA COMMUNITY COLLEGE D V	5901 S CALLE SANTA CRUZ	40	46
E F T C SOUTHWEST OPERATIONS	1150 W DREXEL RD NE COR	40	47
SAN XAVIER ROCK & MATERIAL	1000 W VALENCIA RD	42	51
WALGREENS STORE 3837	1550 W VALENCIA	45	52
WALGREENS STORE 3837	1550 W VALENCIA	45	52
HOLMES TUTTLE FORD INC	1431 W VALENCIA	47	53
LARSON COMPANY THE	6701 S MIDVALE PARK RD	48	53
WEISER LOCK CO	6700 S WEISER LOCK DR	49	55

PADS: The PCB Activity Database identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required to notify the United States Environmental Protection Agency of such activities. The source of this database is the U.S. EPA.

A review of the PADS list, as provided by EDR, and dated 09/30/2001 has revealed that there is 1 PADS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
BARNETT ABD DEYOE CONTRACTORS	701 W SILVERLAKE RD	22	35

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/1999 has revealed that there is 1 TRIS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
WEISER LOCK CO	6700 S WEISER LOCK DR	49	55

EXECUTIVE SUMMARY

TSCA: The Toxic Substances Control Act identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. The United States Environmental Protection Agency has no current plan to update and/or re-issue this database.

A review of the TSCA list, as provided by EDR, and dated 12/31/1998 has revealed that there is 1 TSCA site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
CHEVRON	600 W SIMPSON ST	10	16

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

A review of the FTTS list, as provided by EDR, and dated 10/25/2001 has revealed that there are 2 FTTS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
MISSION VERDE APT	1702 W 36TH ST APT 1174	26	37
ROSELLA ROBERTS MISSION VERDE	1702 W 36TH ST APT 1174	26	37

STATE OR LOCAL ASTM SUPPLEMENTAL

SPILLS: The ADEQ Emergency Response unit documents chemical spills and incidents that are referred to the Unit. The logbook information for 1984-1986 consists of handwritten entries of the date, incident number and name of facility if known. Current logbooks are computerized and can be sorted by date, incident number, name, city (zip codes are not included), county, chemical and quantity. The sources is the Department of Environmental Quality's Hazardous Material Logbook.

A review of the AZ Spills list, as provided by EDR, has revealed that there are 6 AZ Spills sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIMA COUNTY HEALTH	1301 SO. MISSION	16	31
TUCSON ELECTRIC POWER CO.	1177 W SILVERLAKE	19	33
LAMBDA ELECTRONICS POWER SPLY	1150 W. DREXEL RD.	40	49
AMERICAN AIRLINE	1645 W. VALENCIA	46	53
WEISER LOCK CO	6700 S WEISER LOCK DR	49	55
WEISER LOCK	6660 SO. BROADMOOR	49	57

WWFAC: Statewide list of waste water treatment facilities.

A review of the WWFAC list, as provided by EDR, and dated 12/12/2000 has revealed that there are 4 WWFAC sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIONEER PAINTS AND VARNISH CO	438 W CONGRESS ST	1	8

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
PIMA COUNTY PARKS & REC - GILB	1204 W. SILVERLAKE RD.	19	33
<i>BARNETT ABD DEYOE CONTRACTORS</i>	<i>701 W SILVERLAKE RD</i>	<i>22</i>	<i>35</i>
<i>COTTONWOOD</i>	<i>3000 S. COTTONWOOD LN.</i>	<i>29</i>	<i>39</i>

Drywells: Drywell is a bored, drilled, or driven shaft or hole whose depth is greater than its width and is designed and constructed specifically for the disposal of storm water. The source is Arizona's Department of Environmental Quality.

A review of the Dry Wells list, as provided by EDR, has revealed that there are 4 Dry Wells sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
MESA RIDGE-A MANUFACTURED HOME	1402 W. AJO WAY	33	41
PCC-DESERT VISTA CAMPUS EXPANS	5901 SOUTH CALLE SANTA	40	46
THE WOODS I AND II APARTMENTS	1970 W. VALENCIA RD.	44	52
THE LARSON COMPANY	6701 SOUTH MIDVALE PARK	48	55

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL ASTM STANDARD</u>	
NPL	1
Proposed NPL	0
CERCLIS	1
CERC-NFRAP	3
CORRACTS	0
RCRIS-TSD	0
RCRIS Lg. Quan. Gen.	4
RCRIS Sm. Quan. Gen.	15
ERNS	10
<u>STATE ASTM STANDARD</u>	
SPL	0
State Haz. Waste	5
State Landfill	1
LUST	24
UST	38
AZ WQARF	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>	
CONSENT	1
ROD	1
Delisted NPL	0
FINDS	26
HMIRS	0
MLTS	0
MINES	0
NPL Liens	0
PADS	1
RAATS	0
TRIS	1
TSCA	1
FTTS	2
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>	
AST	0
AZ Spills	6
AZ DOD	0
WWFAC	4
Aquifer	0
Dry Wells	4
AZ AIRS	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>	
Coal Gas	0

MAP FINDINGS SUMMARY

Database

Total
Plotted

* Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

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

NPL Region **TUCSON INTERNATIONAL AIRPORT AREA**
NOGALES HWY
TUCSON, AZ 85734

CERCLIS **1000384969**
FINDS **AZD980737530**
NPL
CONSENT
ROD

CERCLIS Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Status:	Not reported		
Ownership Status:	Mixed Ownership	NPL Status:	Currently on the Final NPL
Contact:	Eugenia Chow	Contact Tel:	(415) 744-2258
Contact Title:	Not reported		
Contact:	D. ZUROSKI	Contact Tel:	(415) 744-2285
Contact Title:	Not reported		

Site Description: The Tucson International Airport Area (TIAA) Superfund site covers approximately five square miles and is located on the south side of the City of Tucson, Arizona. The site is bounded by Highway 89 to the west, Hughes Access Road to the east and south, and Los Reales Road and Valencia Road to the north. TIAA consists of industrial properties, however, residential and commercial properties are located in the immediate vicinity of the site. There are three separate properties within the TIAA Superfund site: the Airport Property, the Burr-Brown Property, and the Former West-Cap Property. Currently, the airport property consists of an active airport and associated industrial activities; the first industrial operations at the airport property began in 1940. These land uses are expected to remain the same in the future. Waste-related activities began in the area following the opening of the Consolidated Aircraft refitting facility in 1942 and included surface discharge of waste liquids containing organic compounds into soil, disposal ponds and unlined landfills. The remaining two properties, Burr-Brown and West-Cap, are adjacent to the airport. The Burr-Brown Corporation has been in the area since 1965 and is a major manufacturer of microelectric components. The former West-Cap operated from 1963 until 1989, when they went out of business. Current activities at the property include storage and warehousing of finely machined components, and the buildings are leased to various tenants. Operations at both sites are expected to continue into the future. In May 1981, organic chemicals commonly used as solvents by electronic and aerospace industries were found in several City of Tucson drinking water wells in southwest Tucson. Later that year, the City of Tucson closed the contaminated wells to ensure that water served to the public would meet drinking water standards. Further investigations revealed a large groundwater plume containing trichloroethylene (TCE) and other volatile organic compounds (VOCs) and chromium migrating in a northerly to northwesterly direction away from the airport property. This plume is called the main plume. Two smaller areas of groundwater contamination were found to the east of the main plume. In 1982, the Environmental Protection Agency (EPA) listed the TIAA Superfund site on the National Priorities List (NPL). Operable Unit 1 (OU1): In 1988, EPA issued a Record of Decision (ROD) that established cleanup requirements for the regional groundwater aquifer. The Air Force had begun operation of its remedial groundwater system for the southern portion of the site. The OU1 response action presented the groundwater remedy for the northern

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TUCSON INTERNATIONAL AIRPORT AREA (Continued)

1000384969

portion of the site. Together, the two remedies constitute the overall remedial strategy for groundwater. OU2: In 1991, liquid contaminants and sludge were removed from an underground sump. In 1997, PCB-contaminated soil was removed from a small portion of the Airport Property and from nearby residential properties. A ROD was completed in September 1997 that addressed the remaining soil contamination on the Airport Property, Burr-Brown Property, and the former West-Cap Property. OU3: Air Force Plant (AFP) 44 is located within the TIAA Superfund site, 15 miles south of downtown Tucson and is bounded on the east by the Tucson International Airport property. AFP 44 was first constructed in 1951 for the purpose of manufacturing Falcon air-to-air missiles. Over the years, industrial facilities have been constructed to support several other missile systems. At present, industrial facilities occupy a total building area in excess of two million square feet. Groundwater at AFP 44 was addressed in a 1986 Remedial Action Plan. A Feasibility Study (FS), which evaluated potential remedial alternatives for contaminated soils within the AFP 44 plant, completed in January 1995. Cleanup of five sites to remove continuing sources of groundwater contamination or to address potential risks to human health and the environment is specifically addressed in the FS: Site 1 (Ranch Site), Site 2 (FACO Landfill), Site 3 (Inactive Drainage Channel Disposal Pits), Site 4 (Former Unlined Surface Impoundments) including portions of the area which were originally sampled during investigation at Site 6 (Drainage Ditch and Channels), and Site 5 (Former Sludge Drying Beds). A no further action ROD has been issued for four other sites including: Site 7 (North FACO Fire Training Area), Site 8 (South FACO Fire Training Area and Magnesium Burn Area), Site 9 (Explosive Detonation Pit), and Site 15 (Potential Trench Site). Site 14 (Shallow Groundwater Zone) will be addressed in a separate ROD. A ROD was issued in September 1998 addressing Sites 4, 5, and 6 soils only. The Air Force is currently performing non-time critical removal actions for Sites 1 through 6, and Site 14. These removal actions are being performed concurrently with the ROD process, and are consistent with the final remedies selected in the ROD.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	12/01/1979
Assessment:	PRELIMINARY ASSESSMENT	Completed:	02/01/1980
Assessment:	HRS PACKAGE	Completed:	12/01/1982
Assessment:	SITE INSPECTION	Completed:	12/01/1982
Assessment:	SITE INSPECTION	Completed:	12/01/1982
Assessment:	PROPOSAL TO NPL	Completed:	12/30/1982
Assessment:	REMEDIAL ACTION MASTER PLAN	Completed:	04/01/1983
Assessment:	FINAL LISTING ON NPL	Completed:	09/08/1983
Assessment:	NPL RP SEARCH	Completed:	11/15/1985
Assessment:	COMBINED RI/FS	Completed:	08/22/1988
Assessment:	RECORD OF DECISION	Completed:	08/22/1988
Assessment:	TECHNICAL ASSISTANCE	Completed:	08/22/1988
Assessment:	IAG NEGOTIATIONS	Completed:	10/17/1988
Assessment:	RD/RA NEGOTIATIONS	Completed:	01/24/1989
Assessment:	UNILATERAL ADMIN ORDER	Completed:	01/24/1989
Assessment:	RD/RA NEGOTIATIONS	Completed:	07/13/1989
Assessment:	CONSENT DECREE	Completed:	03/16/1990
Assessment:	REMOVAL ASSESSMENT	Completed:	09/06/1990
Assessment:	UNILATERAL ADMIN ORDER	Completed:	12/11/1990

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TUCSON INTERNATIONAL AIRPORT AREA (Continued)

1000384969

Assessment:	REMOVAL ASSESSMENT	Completed:	02/26/1991
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	04/05/1991
Assessment:	PRP REMOVAL	Completed:	05/09/1991
Assessment:	PRP RD	Completed:	06/05/1991
Assessment:	CONSENT DECREE	Completed:	06/07/1991
Assessment:	PRP RD	Completed:	09/12/1991
Assessment:	COMMUNITY INVOLVEMENT	Completed:	01/30/1992
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	02/20/1992
Assessment:	UNILATERAL ADMIN ORDER	Completed:	07/09/1992
Assessment:	PRP RA	Completed:	11/09/1992
Assessment:	ADMIN/VOLUNTARY COST RECOVERY	Completed:	06/11/1993
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	10/27/1993
Assessment:	IAG NEGOTIATIONS	Completed:	10/31/1994
Assessment:	PRP RA	Completed:	11/07/1995
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	03/20/1996
Assessment:	FF RD	Completed:	04/01/1996
Assessment:	UNILATERAL ADMIN ORDER	Completed:	10/04/1996
Assessment:	RECORD OF DECISION	Completed:	11/20/1996
Assessment:	PRP REMOVAL	Completed:	02/27/1997
Assessment:	Explanation Of Significant Differences	Completed:	02/27/1997
Assessment:	FF RD	Completed:	05/12/1997
Assessment:	FF REMOVAL	Completed:	07/25/1997
Assessment:	FF REMOVAL	Completed:	08/15/1997
Assessment:	ADMINISTRATIVE RECORDS	Completed:	09/30/1997
Assessment:	PRP RI/FS	Completed:	09/30/1997
Assessment:	FF REMOVAL	Completed:	09/30/1997
Assessment:	FF REMOVAL	Completed:	09/30/1997
Assessment:	RECORD OF DECISION	Completed:	09/30/1997
Assessment:	RECORD OF DECISION	Completed:	09/30/1997
Assessment:	RECORD OF DECISION	Completed:	09/30/1997
Assessment:	FF RA	Completed:	09/30/1997
Assessment:	FF RA	Completed:	09/30/1997
Assessment:	FF RI/FS	Completed:	09/30/1997
Assessment:	FF REMOVAL	Completed:	09/30/1997
Assessment:	COMBINED RI/FS	Completed:	09/30/1997
Assessment:	TECHNICAL ASSISTANCE GRANT	Completed:	12/23/1997
Assessment:	ADMINISTRATIVE RECORDS	Completed:	02/05/1998
Assessment:	FF REMOVAL	Completed:	03/31/1998
Assessment:	FF RA	Completed:	04/13/1998
Assessment:	RECORD OF DECISION	Completed:	09/29/1998
Assessment:	RD/RA NEGOTIATIONS	Completed:	03/31/1999
Assessment:	REMOVAL	Completed:	04/06/1999
Assessment:	Lodged By DOJ	Completed:	06/17/1999
Assessment:	CONSENT DECREE	Completed:	02/17/2000
Assessment:	FF REMOVAL	Completed:	03/14/2001

CERCLIS Site Status:

Stabilized

CERCLIS Alias Name(s):

HUGHES AIRCRAFT CO
 USAF PLANT 44
 TUCSON AIRPORT AREA
 T A A
 TUCSON INTERNATIONAL AIRPORT AREA

NPL:

EPA ID: AZD980737530
 Region: 09
 Federal: General

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TUCSON INTERNATIONAL AIRPORT AREA (Continued)

1000384969

Final Date: 09/08/1983

NPL Contaminant:

NPL Status: Final
 Substance Id: C321
 Case Num: Not reported
 Substance : TRICHLOROETHANE, NOS
 Pathway : NOT INDICATED
 GW Scoring : Not reported
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: P106
 Case Num: 143-33-9
 Substance : SODIUM CYANIDE
 Pathway : NOT INDICATED
 GW Scoring : Not reported
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: U032
 Case Num: 13765-19-0
 Substance : CALCIUM CHROMATE
 Pathway : NOT INDICATED
 GW Scoring : Not reported
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: U080
 Case Num: 75-09-2
 Substance : METHYLENE CHLORIDE
 Pathway : NOT INDICATED
 GW Scoring : Not reported
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: A020
 Case Num: 7440-47-3
 Substance : CHROMIUM AND COMPOUNDS, NOS (CR)
 Pathway : GW
 GW Scoring : Observed Release & Toxicity
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TUCSON INTERNATIONAL AIRPORT AREA (Continued)

1000384969

DC Scoring: Not reported
 FE Scoring: Not reported
 NPL Status: Final
 Substance Id: A030
 Case Num: 540-59-0
 Substance : DICHLOROETHENE, NOS
 Pathway : GW
 GW Scoring : Observed Release
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: C395
 Case Num: Not reported
 Substance : BETA-ACETOXYTRIBUTYLTRICARBOXYLIC ACID
 Pathway : GW
 GW Scoring : Observed Release
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Status: Final
 Substance Id: U228
 Case Num: 79-01-6
 Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
 Pathway : GW
 GW Scoring : Observed Release
 SW Scoring : Not reported
 Air Scoring: Not reported
 Soil Scoring: Not reported
 DC Scoring: Not reported
 FE Scoring: Not reported

NPL Site:
 CERCLIS Id: AZD980737530
 Site City: Tucson
 Site State: AZ
 NPL Status: Final
 Status Date: 09/08/83
 Federal Site: Not reported
 HRS Score: 57.80
 GW Score: 100.00
 SW Score: 0.00
 Air Score: 0.00
 Soil Score: 0.00
 DC Score: 0.00
 FE Score: 0.00

NPL Char:
 NPL Status: Final
 Category Description: DEPTH TO AQUIFER
 Category Value: 1
 NPL Status: Final

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TUCSON INTERNATIONAL AIRPORT AREA (Continued)

1000384969

Category Description: DISTANCE TO THE NEAREST POPULATION
 Category Value: 10

NPL Status: Final

Category Description: OBSERVED RELEASE-Ground Water
 Category Value: Not reported

NPL Status: Final

Category Description: OTHER GROUND WATER USE-Industrial Process Cooling
 Category Value: Not reported

NPL Status: Final

Category Description: PERMIT-NPDES
 Category Value: Not reported

NPL Status: Final

Category Description: PERMIT-RCRA
 Category Value: Not reported

NPL Status: Final

Category Description: PHYSICAL STATE-Liquid
 Category Value: Not reported

NPL Status: Final

Category Description: SITE ACTIVITY WASTE SOURCE-Industry Military
 Category Value: Not reported

NPL Status: Final

Category Description: SITE ACTIVITY WASTE SOURCE-Industry Military Ordnance Produc
 Category Value: Not reported

NPL Status: Final

Category Description: SITE ACTIVITY WASTE SOURCE-Industry Military Testing & Maint
 Category Value: Not reported

NPL Status: Final

Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing
 Category Value: Not reported

NPL Status: Final

Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing Fabricated Metals
 Category Value: Not reported

NPL Status: Final

Category Description: SURFACE WATER ADJACENT TO SITE-River
 Category Value: Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

CONSENT:

Full-text of a consent decree on this site issued by a United States District Court is available from EDR.

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

1

**PIONEER PAINTS AND VARNISH CO
 438 W CONGRESS ST
 TUCSON, AZ 85701**

**RCRIS-SQG 1000312417
 FINDS AZD008397796
 WWFAC
 CERC-NFRAP**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIONEER PAINTS AND VARNISH CO (Continued)

1000312417

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Code:	NFRAP		
Ownership Status:	Unknown	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	12/01/1979
Assessment:	PRELIMINARY ASSESSMENT	Completed:	06/01/1983
Assessment:	SITE INSPECTION	Completed:	06/01/1983

RCRIS:

Owner: CITY OF TUCSON
 (602) 791-4014

Contact: DANIEL UTHE
 (602) 791-4014

Record Date: 05/17/1994
 Classification: Small Quantity Generator
 Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	02/13/1987
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/17/1987
Actual Date Achieved Compliance:	06/24/1987
Enforcement Action:	Written Informal
Enforcement Action Date:	05/07/1987
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/29/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	11/30/1986
Actual Date Achieved Compliance:	08/11/1989
Enforcement Action:	Written Informal
Enforcement Action Date:	08/29/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	03/29/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	08/25/1986
Actual Date Achieved Compliance:	08/11/1989
Enforcement Action:	Written Informal
Enforcement Action Date:	07/18/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIONEER PAINTS AND VARNISH CO (Continued)

1000312417

There are 3 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/24/1987
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	08/11/1989
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	08/11/1989

FINDS:

- Other Pertinent Environmental Activity Identified at Site:
 - Facility Registry System (FRS)
 - Resource Conservation and Recovery Act Information system (RCRAINFO)
 - Toxic Chemical Release Inventory System (TRIS)

AZ WWFAC:

Owner Address: 201 N. Stone
 Tucson, A Z8572

1

**PIONEER PAINT & VARNISH COMPANY
 438 W CONGRESS
 TUCSON, AZ 85701**

**SHWS U001626713
 LUST N/A
 UST**

SHWS:

EPA ID: AZD008397796
 Program: PA/SI
 Facility Id: 253
 Site Code: 100377
 Discovery Date: 03/77/10
 Source: Not reported
 Operable Unit: 0
 QWARF Area: Not reported
 Lat/Long: Not reported
 Lat/Long Method: 80
 Comments: Not reported

LUST:

Facility ID: 0-003930
 Lust Number: 0912.01
 Leak Priority: GROUNDWATER DEINFED, REMEDIATION PENDING
 Notification: 10/02/1989
 Date Closed: Not reported

UST:

Facility ID:	0-003930	Tank ID:	1
Owner:	PIONEER PAINT & VARNISH COMPANY	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/08/89		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-003930	Tank ID:	2
Owner:	PIONEER PAINT & VARNISH COMPANY	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/08/89		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-003930	Tank ID:	3

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIONEER PAINT & VARNISH COMPANY (Continued)

U001626713

Owner: PIONEER PAINT & VARNISH COMPANY Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 11/08/89
 Date Closed: / /
 In Use: False

Facility ID: 0-003930 Tank ID: 4
 Owner: PIONEER PAINT & VARNISH COMPANY Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 11/08/89
 Date Closed: / /
 In Use: False

2

**CIRCLE K # 8838
 2 N FREEWAY
 TUCSON, AZ 85705**

**LUST U003049855
 UST N/A**

LUST:
 Facility ID: 0-003213
 Lust Number: 0175.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/07/1986
 Date Closed: 01/21/1988

UST:
 Facility ID: 0-003213 Tank ID: 1
 Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

Facility ID: 0-003213 Tank ID: 2
 Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

Facility ID: 0-003213 Tank ID: 3
 Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

Facility ID: 0-003213 Tank ID: 4
 Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/07/86
 Date Closed: / /
 In Use: False

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**2 TEXACO SERVICE
 480 W CONGRESS
 TUCSON, AZ 85705**

**LUST U001627254
 UST N/A**

LUST:

Facility ID: 0-004955
 Lust Number: 4593.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 11/05/1996
 Date Closed: 07/11/1997

Facility ID: 0-004955
 Lust Number: 4593.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 11/05/1996
 Date Closed: 07/11/1997

Facility ID: 0-004955
 Lust Number: 4593.03
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 11/05/1996
 Date Closed: 07/11/1997

Facility ID: 0-004955
 Lust Number: 4593.04
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 11/05/1996
 Date Closed: 07/11/1997

UST:

Facility ID:	0-004955	Tank ID:	1
Owner:	AZ DEPT OF TRANSPORTATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/96		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-004955	Tank ID:	2
Owner:	AZ DEPT OF TRANSPORTATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/96		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-004955	Tank ID:	3
Owner:	AZ DEPT OF TRANSPORTATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/96		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-004955	Tank ID:	4
Owner:	AZ DEPT OF TRANSPORTATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/96		
Date Closed:	/ /		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BOATNER'S STATION/E-Z #060179 (Continued)

U003049731

Lust Number: 0924.01
 Leak Priority: KNOWN OR PROBABLE AFFECT ON GW
 Notification: 10/03/1989
 Date Closed: Not reported

Facility ID: 0-002071
 Lust Number: 0924.02
 Leak Priority: UNDEFINED OR UNKNOWN SOIL CONTAMINATION
 Notification: 04/07/1999
 Date Closed: Not reported

Facility ID: 0-002071
 Lust Number: 0924.03
 Leak Priority: UNDEFINED OR UNKNOWN SOIL CONTAMINATION
 Notification: 04/07/1999
 Date Closed: Not reported

UST:

Facility ID:	0-002071	Tank ID:	1
Owner:	RESTRUCTURE PETROLEUM MARKETIN	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		

Facility ID:	0-002071	Tank ID:	2
Owner:	RESTRUCTURE PETROLEUM MARKETIN	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		

**7 ARIZONA DEPT OF TRANSP
 611 W MESA
 TUCSON, AZ 85701**

**FINDS 1004438251
 AZ0001895069**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Enforcement Docket System (DOCKET)

**8 FLINT OIL CO INC
 500 W SIMPSON
 TUCSON, AZ 85701**

**UST U003049746
 N/A**

UST:			
Facility ID:	0-002157	Tank ID:	1
Owner:	FLINT OIL CO INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	08/04/99		
Date Closed:	//		
In Use:	False		

Facility ID:	0-002157	Tank ID:	2
Owner:	FLINT OIL CO INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FLINT OIL CO INC (Continued)

U003049746

Date Removed: 08/04/99
 Date Closed: / /
 In Use: False

Facility ID: 0-002157
 Owner: FLINT OIL CO INC
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/04/99
 Date Closed: / /
 In Use: False

Tank ID: 3
 Owner ID: Not reported

9

**CITIZEN AUTO STAGE CO
 351 S BRICKYARD LN
 TUCSON, AZ 85745**

**LUST U003049637
 UST N/A**

LUST:

Facility ID: 0-001538
 Lust Number: 4985.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 12/01/1998
 Date Closed: 07/26/2000

UST:

Facility ID: 0-001538
 Owner: CITIZEN AUTO STAGE COMPANY
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/22/93
 Date Closed: / /
 In Use: False

Tank ID: 1
 Owner ID: Not reported

Facility ID: 0-001538
 Owner: CITIZEN AUTO STAGE COMPANY
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/22/93
 Date Closed: / /
 In Use: False

Tank ID: 2
 Owner ID: Not reported

Facility ID: 0-001538
 Owner: CITIZEN AUTO STAGE COMPANY
 Owner Contact: Not reported
 In Use: False
 Date Removed: 11/03/98
 Date Closed: / /
 In Use: False

Tank ID: 3
 Owner ID: Not reported

Facility ID: 0-001538
 Owner: CITIZEN AUTO STAGE COMPANY
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/22/93
 Date Closed: / /
 In Use: False

Tank ID: 4
 Owner ID: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

10 CHEVRON U S A INC TUCSON ASPHALT PLT **RCRIS-SQG** **1000434308**
601 W SIMPSON ST **FINDS** **AZT000615302**
TUCSON, AZ 85701

RCRIS:
 Owner: CHEVRON USA INC / SOUTHERN PACIFIC CO
 (415) 555-1212
 Contact: CHUCK CULP
 (520) 623-0511
 Record Date: 01/01/1996
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

10 CHEVRON **TSCA** **1000994950**
600 W SIMPSON ST **N/A**
TUCSON, AZ 85701

11 RALPH'S TRANSFER INC **LUST** **U001626765**
747 S FREEWAY **UST** **N/A**
TUCSON, AZ 85745

LUST:
 Facility ID: 0-004036
 Lust Number: 3145.01
 Leak Priority: CLOSED SUSPECTED RELEASE CASE (FALSE ALARM)
 Notification: 05/27/1993
 Date Closed: 08/02/1994
 Facility ID: 0-004036
 Lust Number: 3145.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 12/19/1996
 Date Closed: 02/14/2000

UST:
 Facility ID: 0-004036
 Owner: RALPH'S TRANSFER INC
 Owner Contact: Not reported
 In Use: False
 Date Removed: 11/21/96
 Date Closed: / /
 In Use: False
 Tank ID: 1
 Owner ID: Not reported

Facility ID: 0-004036
 Owner: RALPH'S TRANSFER INC
 Owner Contact: Not reported
 In Use: False
 Date Removed: 11/21/96
 Date Closed: / /
 In Use: False
 Tank ID: 2
 Owner ID: Not reported

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Site	Database(s)	EPA ID Number	EDR ID Number
11				RALPHS TRANSFER INC 747 S FWY TUCSON, AZ 85705 RCRIS: Owner: FRED STANG PRESIDENT 602 6226461 (415) 555-1212 Contact: SANDRA SODAWASSER (520) 622-6461 Record Date: 12/01/1980 Classification: Hazardous Waste Transporter Used Oil Recyc: No Violation Status: No violations found FINDS: Other Pertinent Environmental Activity Identified at Site: Facility Registry System (FRS) Resource Conservation and Recovery Act Information system (RCRAINFO)	RCRIS-SQG FINDS	1000347371 AZD068396654	
12				501 W 18TH STREET 501 W 18TH STREET TUCSON, AZ 85701	ERNS	2000660989 N/A	
12				WATER DEPARTMENT 501 W 18TH ST BLDG 1 TUCSON, AZ 85701 RCRIS: Owner: CITY OF TUCSON (602) 791-4728 Contact: RICHARD BAEZA (602) 791-4112 Record Date: 09/17/1997 Classification: Conditionally Exempt Small Quantity Generator, Hazardous Waste Transporter Used Oil Recyc: No Violation Status: No violations found	RCRIS-SQG	1000904676 AZ0000297150	
12				TUCSON WATER CITY OF TUCSON 510 W 18TH ST BLDG 10 TUCSON, AZ 85701 RCRIS: Owner: TRI CLOVER INC (602) 555-1212 Contact: MIKE JONES (520) 791-4014 Record Date: 12/09/1997 Classification: Not reported	RCRIS-SQG	1001231210 AZR000031021	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TUCSON WATER CITY OF TUCSON (Continued)

1001231210

Used Oil Recyc: No
 Violation Status: No violations found

12

**WEST 18TH ST FUEL ISLAND
 510 W 18TH ST
 TUCSON, AZ 85701**

**LUST U001626521
 UST N/A**

LUST:

Facility ID: 0-003544
 Lust Number: 0370.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/03/1987
 Date Closed: 11/30/1990

Facility ID: 0-003544
 Lust Number: 0370.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 01/06/1999
 Date Closed: 04/30/1999

UST:

Facility ID:	0-003544	Tank ID:	1
Owner:	CITY OF TUCSON FLEET SERVICES	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	10/15/98		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-003544	Tank ID:	2
Owner:	CITY OF TUCSON FLEET SERVICES	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/01/87		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-003544	Tank ID:	3
Owner:	CITY OF TUCSON FLEET SERVICES	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/01/87		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-003544	Tank ID:	4
Owner:	CITY OF TUCSON FLEET SERVICES	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/01/87		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-003544	Tank ID:	5
Owner:	CITY OF TUCSON FLEET SERVICES	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/01/87		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WEST 18TH ST FUEL ISLAND (Continued)

U001626521

Date Closed: / /
 In Use: False

Facility ID: 0-003544 Tank ID: 6
 Owner: CITY OF TUCSON FLEET SERVICES Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/01/87
 Date Closed: / /
 In Use: False

**12 TUCSON CITY OF WATER DEPARTMENT
 510 W 18TH ST
 TUCSON, AZ 85701**

**RCRIS-SQG 1000904674
 FINDS AZ0000297135**

RCRIS:
 Owner: CITY OF TUCSON
 (602) 791-4728

Contact: TONY COTA
 (602) 791-4113

Record Date: 09/17/1997
 Classification: Conditionally Exempt Small Quantity Generator, Hazardous Waste Transporter
 Used Oil Recyc: No

Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Permit Compliance System (PCS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**12 ASPHALT PRODUCTS TRANSPORT CO
 635 W 18TH ST
 TUCSON, AZ 85701**

**LUST U001624949
 UST N/A**

LUST:
 Facility ID: 0-000483
 Lust Number: 0515.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 08/19/1988
 Date Closed: 07/22/1998

UST:
 Facility ID: 0-000483 Tank ID: 1
 Owner: ASPHALT PRODUCTS TRANSPORT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/19/88
 Date Closed: / /
 In Use: False

Facility ID: 0-000483 Tank ID: 2
 Owner: ASPHALT PRODUCTS TRANSPORT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/11/88
 Date Closed: / /

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

ASPHALT PRODUCTS TRANSPORT CO (Continued)

U001624949

In Use: False

**13 GELCO
 949 S FREEWAY
 TUCSON, AZ 85745**

**UST U001627136
 N/A**

UST:
 Facility ID: 0-004729 Tank ID: 1
 Owner: STAN-AN DEVELOPMENT Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 01/26/89
 Date Closed: / /
 In Use: False

**13 RECYCLE AMERICA
 945 S FREEWAY
 TUCSON, AZ 85745**

**UST U003049649
 N/A**

UST:
 Facility ID: 0-001632 Tank ID: 1
 Owner: WASTE MANAGEMENT & TUCSON INC Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/16/95
 Date Closed: 04/29/96
 In Use: False

Facility ID: 0-001632 Tank ID: 2
 Owner: WASTE MANAGEMENT & TUCSON INC Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/16/95
 Date Closed: / /
 In Use: False

**14 UNOCAL # 4897
 1210 S FREEWAY
 TUCSON, AZ 85713**

**LUST U001157544
 UST N/A**

LUST:
 Facility ID: 0-005290
 Lust Number: 4657.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 02/14/1997
 Date Closed: 07/21/1998

Facility ID: 0-005290
 Lust Number: 4657.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 02/14/1997
 Date Closed: 07/21/1998

Facility ID: 0-005290
 Lust Number: 4657.03
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 02/14/1997
 Date Closed: 07/21/1998

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNOCAL # 4897 (Continued)

U001157544

Facility ID: 0-005290
 Lust Number: 4657.04
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 02/14/1997
 Date Closed: 07/21/1998

UST:

Facility ID:	0-005290	Tank ID:	1
Owner:	UNOCAL CORPORATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/12/97		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-005290	Tank ID:	2
Owner:	UNOCAL CORPORATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/12/97		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-005290	Tank ID:	3
Owner:	UNOCAL CORPORATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/12/97		
Date Closed:	/ /		
In Use:	False		

14

**CIRCLE K # 1838
 1145 S FREEWAY
 TUCSON, AZ 85745**

**LUST U001002156
 UST N/A**

LUST:

Facility ID: 0-001494
 Lust Number: 4695.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/09/1997
 Date Closed: 11/22/2000

Facility ID: 0-001494
 Lust Number: 4695.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/09/1997
 Date Closed: 11/22/2000

Facility ID: 0-001494
 Lust Number: 4695.03
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/09/1997
 Date Closed: 11/22/2000

Facility ID: 0-001494
 Lust Number: 4695.04
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/09/1997

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K # 1838 (Continued)

U001002156

Date Closed: 11/22/2000

Facility ID: 0-001494
 Lust Number: 4695.05
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/09/1997
 Date Closed: 11/22/2000

Facility ID: 0-001494
 Lust Number: 4695.06
 Leak Priority: KNOWN OR PROBABLE AFFECT ON GW
 Notification: 05/21/1997
 Date Closed: Not reported

UST:

Facility ID:	0-001494	Tank ID:	1
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/09/97		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-001494	Tank ID:	2
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/09/97		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-001494	Tank ID:	3
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/09/97		
Date Closed:	/ /		
In Use:	False		

**14 GUADALUPE LESPRON
 1114 S FARMINGTON
 TUCSON, AZ 85745**

**UST U003050884
 N/A**

UST:

Facility ID:	0-008266	Tank ID:	1
Owner:	GUADALUPE LESPRON	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	06/24/94		
Date Closed:	/ /		
In Use:	False		

**14 WESTERN EMULSIONS INC
 1015 SOUTH FREEWAY
 TUCSON, AZ 85745**

**RCRIS-SQG 1000402904
 FINDS AZD982045148**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WESTERN EMULSIONS INC (Continued)

1000402904

RCRIS:

Owner: NON NOTIFIER
 (415) 555-1212

Contact: Not reported

Record Date: Not reported
 Classification: Not reported
 Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	07/29/1987
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	12/29/1987
Actual Date Achieved Compliance:	05/19/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	11/17/1987
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 1 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	05/19/1988

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

15

**CRICLE K #5579
 655 W 22ND
 TUCSON, AZ 85713**

**LUST U003153703
 UST N/A**

LUST:

Facility ID: 0-002010
 Lust Number: 0416.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 03/09/1988
 Date Closed: 02/02/1998

Facility ID: 0-002010
 Lust Number: 0416.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 06/05/1991
 Date Closed: 02/02/1998

UST:

Facility ID:	0-002010	Tank ID:	1
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/29/91		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-002010	Tank ID:	2
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CRICLE K #5579 (Continued)

U003153703

Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/29/91		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-002010	Tank ID:	3
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/29/91		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-002010	Tank ID:	4
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	05/29/91		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-002010	Tank ID:	5
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		
Facility ID:	0-002010	Tank ID:	6
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		
Facility ID:	0-002010	Tank ID:	7
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

15

**EXXON CO USA 73904
 655 W 22ND ST AND I 10
 TUCSON, AZ 85713**

**RCRIS-SQG 1000589390
 FINDS AZD983471020**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

EXXON CO USA 73904 (Continued)

1000589390

RCRIS:

Contact: ALDA POOL
 (713) 656-7709

Record Date: 09/30/1994
 Classification: Conditionally Exempt Small Quantity Generator
 Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

15

**EXPRESS-IT
 601 W 22ND ST
 TUCSON, AZ 85713**

**LUST U003050795
 UST N/A**

LUST:

Facility ID: 0-007780
 Lust Number: 3259.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 12/03/1993
 Date Closed: 07/13/1998

Facility ID: 0-007780
 Lust Number: 3259.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 03/25/1996
 Date Closed: 07/13/1998

UST:

Facility ID:	0-007780	Tank ID:	1
Owner:	CARL SANDBERG	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/93		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-007780	Tank ID:	2
Owner:	CARL SANDBERG	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/23/93		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-007780	Tank ID:	3
Owner:	CARL SANDBERG	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/25/94		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-007780	Tank ID:	4
Owner:	CARL SANDBERG	Owner ID:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

EXPRESS-IT (Continued)

U003050795

Owner Contact: Not reported
 In Use: False
 Date Removed: 10/25/78
 Date Closed: / /
 In Use: False

16

**PIMA COUNTY DEPT OF TRANSPORTATION
 1313 S MISSION RD
 TUCSON, AZ 85713**

**FINDS 1000142124
 LUST AZD981161334
 RCRIS-LQG
 UST**

RCRIS:

Owner: PIMA COUNTY GOVERNMENT
 (415) 555-1212

 Contact: BECKY SAYRE PEARSON
 (602) 740-6449

 Record Date: 02/17/1995
 Classification: Large Quantity Generator
 Used Oil Recyc: No

 Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST:

Facility ID: 0-006566
 LUST Number: 2065.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 11/13/1991
 Date Closed: 02/13/1995

 Facility ID: 0-006566
 LUST Number: 2065.02 3425.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 03/16/1994
 Date Closed: 05/11/1995

UST:

Facility ID:	0-006566	Tank ID:	1
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	10/24/91		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-006566	Tank ID:	2
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**16 PIMA COUNTY AUTOMOTIVE SERVICE
 1301 S MISSION RD
 TUCSON, AZ 85713**

**RCRIS-SQG 1000142126
 FINDS AZD982006579
 LUST
 UST**

RCRIS:

Owner: PIMA COUNTY
 (415) 555-1212
 Contact: BECKY SAYRE PEARSON
 (602) 740-6410
 Record Date: 02/17/1995
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST:

Facility ID: 0-006557
 Lust Number: 0744.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/25/1989
 Date Closed: 08/07/1996
 Facility ID: 0-006557
 Lust Number: 0744.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/25/1989
 Date Closed: 08/07/1996
 Facility ID: 0-006557
 Lust Number: 0744.03 1979.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 09/13/1991
 Date Closed: 01/26/1994
 Facility ID: 0-006557
 Lust Number: 0744.04 2030.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER3
 Notification: 10/31/1991
 Date Closed: 05/07/1998
 Facility ID: 0-006557
 Lust Number: 0744.05 2030.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER3
 Notification: 10/31/1991
 Date Closed: 05/07/1998
 Facility ID: 0-006557
 Lust Number: 0744.06
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 06/17/1999
 Date Closed: 12/15/1999
 Facility ID: 0-006557

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIMA COUNTY AUTOMOTIVE SERVICE (Continued)

1000142126

Lust Number: 0744.07
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 06/17/1999
 Date Closed: 12/15/1999

Facility ID: 0-006557
 Lust Number: 1979.01 0744.03
 Leak Priority: LUST CASE COMBINED - CLOSED OUT
 Notification: 09/13/1991
 Date Closed: 03/13/1996

Facility ID: 0-006557
 Lust Number: 2030.01 0744.04
 Leak Priority: LUST CASE COMBINED - CLOSED OUT
 Notification: 10/31/1991
 Date Closed: 03/13/1996

Facility ID: 0-006557
 Lust Number: 3425.01 2065.02
 Leak Priority: LUST CASE COMBINED - CLOSED OUT
 Notification: 03/16/1994
 Date Closed: 03/13/1996

UST:

Facility ID:	0-006557	Tank ID:	1
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/21/91		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-006557	Tank ID:	2
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-006557	Tank ID:	3
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	10/30/91		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-006557	Tank ID:	4
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/11/91		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-006557	Tank ID:	5
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIMA COUNTY AUTOMOTIVE SERVICE (Continued)

1000142126

Owner Contact:	Not reported		
In Use:	False		
Date Removed:	04/01/89		
Date Closed:	//		
In Use:	False		
Facility ID:	0-006557	Tank ID:	6
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	04/01/89		
Date Closed:	//		
In Use:	False		
Facility ID:	0-006557	Tank ID:	7
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	04/01/89		
Date Closed:	//		
In Use:	False		
Facility ID:	0-006557	Tank ID:	8
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	04/01/89		
Date Closed:	//		
In Use:	False		
Facility ID:	0-006557	Tank ID:	9
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	04/01/89		
Date Closed:	//		
In Use:	False		
Facility ID:	0-006557	Tank ID:	10
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		
Facility ID:	0-006557	Tank ID:	11
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		
Facility ID:	0-006557	Tank ID:	12
Owner:	PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID:	Not reported
Owner Contact:	Not reported		

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

PIMA COUNTY AUTOMOTIVE SERVICE (Continued)

1000142126

In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

Facility ID: 0-006557	Tank ID: 13
Owner: PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID: Not reported
Owner Contact: Not reported	
In Use: True	
Date Removed: / /	
Date Closed: / /	
In Use: True	

Facility ID: 0-006557	Tank ID: 14
Owner: PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID: Not reported
Owner Contact: Not reported	
In Use: True	
Date Removed: / /	
Date Closed: / /	
In Use: True	

Facility ID: 0-006557	Tank ID: 15
Owner: PIMA COUNTY AUTOMOTIVE SERVICE	Owner ID: Not reported
Owner Contact: Not reported	
In Use: False	
Date Removed: 10/01/91	
Date Closed: / /	
In Use: False	

16	PIMA COUNTY MISSION RD CMLX 1301-1313 S. MISSION RD. TUCSON, AZ 85713	FINDS	1004439009 AZD983481912
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Toxic Chemical Release Inventory System (TRIS)

16	PIMA COUNTY MISSION RD COMPLEX 1301-1313 S MISSION RD TUCSON, AZ 85713	RCRIS-SQG FINDS	1000818046 AZD983481656
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RCRIS:
 Owner: PIMA COUNTY A BODY POLITIC
 (520) 740-8661
 Contact: Not reported
 Record Date: 04/07/2000
 Classification: Conditionally Exempt Small Quantity Generator

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

PIMA COUNTY MISSION RD COMPLEX (Continued)

1000818046

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	10/03/1996
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	01/03/1997
Actual Date Achieved Compliance:	12/06/1996

There are 1 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	12/06/1996

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- Biennial Reporting System (BRS)
- Resource Conservation and Recovery Act Information system (RCRAINFO)

**16 PIMA COUNTY HEALTH
 1301 SO. MISSION
 TUCSON, AZ**

**AZ Spills S104560906
 N/A**

Az Spills:

Facility ID:	87-196	Incident Date:	09/03/87
Response Date:	Not reported	Report / Assist:	Not reported
Type:	Release	No of Samples:	Dr
Referred to:	Not reported		
Chemicals:	Malathion		
Property Mngmt:	County		
Fund Amount:	Co/Unk		
Quantity:	Not reported		

**17 ATKO BUILDING MATERIALS INC
 600 W 25TH ST
 TUCSON, AZ 85713**

**LUST U001627809
 UST N/A**

LUST:

Facility ID:	0-006056
Lust Number:	0420.01
Leak Priority:	CLOSED SOIL LVL MEETS TIER1
Notification:	03/22/1988
Date Closed:	12/22/1992

UST:

Facility ID:	0-006056	Tank ID:	1
Owner:	ATKO BUILDING MATERIALS INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	03/22/88		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-006056	Tank ID:	2
Owner:	ATKO BUILDING MATERIALS INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ATKO BUILDING MATERIALS INC (Continued)

U001627809

Date Removed: 03/22/88
 Date Closed: / /
 In Use: False

Facility ID:	0-006056	Tank ID:	3
Owner:	ATKO BUILDING MATERIALS INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	03/22/88		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-006056	Tank ID:	4
Owner:	ATKO BUILDING MATERIALS INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	03/22/88		
Date Closed:	/ /		
In Use:	False		

18

**KUSHMAUL MACHINE & ENGINEERING
 2210 S FREEWAY
 TUCSON, AZ 85713**

**LUST U001626196
 UST N/A**

LUST:
 Facility ID: 0-002903
 LUST Number: 0773.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 06/15/1989
 Date Closed: 03/15/1991

Facility ID:	0-002903	Tank ID:	1
Owner:	KUSHMAUL MACHINE & ENGINEERING	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-002903	Tank ID:	2
Owner:	KUSHMAUL MACHINE & ENGINEERING	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	06/01/89		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-002903	Tank ID:	3
Owner:	KUSHMAUL MACHINE & ENGINEERING	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	False		

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Site	Database(s)	EPA ID Number	EDR ID Number
19				PIMA COUNTY PARKS & REC - GILBERT RAY 1204 W. SILVERLAKE RD. TUCSON, AZ 85713 AZ WWFAC: Owner Address: 1204 W. Silverlake Rd. Tucson, A Z8571	WWFAC	S104826932 N/A	
19				1204 W SILVERLAKE RD 1204 W SILVERLAKE RD TUCSON, AZ 85713	ERNS	99617233 N/A	
19				TUCSON ELECTRIC POWER CO. 1177 W SILVERLAKE TUCSON, AZ Az Spills: Facility ID: 87-265 Response Date: Not reported Type: Release Referred to: Not reported Chemicals: PCB Property Mngmt: Private Fund Amount: Pvt/Unk Quantity: Not reported Incident Date: 12/29/87 Report / Assist: Not reported No of Samples: Tr	AZ Spills	S100888112 N/A	
19				1177 W. SILVERLAKE 1177 W. SILVERLAKE TUCSON, AZ	ERNS	8719558 N/A	
20				PIMA COUNTY CORRECTIONAL FAC 1270 W SILVERLAKE TUCSON, AZ 85713 UST: Facility ID: 0-006559 Owner: PIMA COUNTY FACILITIES MANAGEMENT Owner Contact: Not reported In Use: False Date Removed: 05/04/90 Date Closed: / / In Use: False Facility ID: 0-006559 Owner: PIMA COUNTY FACILITIES MANAGEMENT Owner Contact: Not reported In Use: False Date Removed: 04/19/90 Date Closed: / / In Use: False Facility ID: 0-006559 Owner: PIMA COUNTY FACILITIES MANAGEMENT Owner Contact: Not reported In Use: True Date Removed: / / Date Closed: / / In Use: True	UST	U001157523 N/A	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PIMA COUNTY CORRECTIONAL FAC (Continued)

U001157523

Facility ID: 0-006559 Tank ID: 4
 Owner: PIMA COUNTY FACILITIES MANAGEMENT Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

21

**CARL GREMLER
 527 W 29TH ST
 SOUTH TUCSON, AZ 85713**

**UST U003051995
 N/A**

UST:

Facility ID: 0-006277 Tank ID: 1
 Owner: CARL GREMLER Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/23/90
 Date Closed: / /
 In Use: False

Facility ID: 0-006277 Tank ID: 2
 Owner: CARL GREMLER Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/23/90
 Date Closed: / /
 In Use: False

Facility ID: 0-006277 Tank ID: 3
 Owner: CARL GREMLER Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/23/90
 Date Closed: / /
 In Use: False

22

**BARNETT & DEZOL CONT INC
 701 W SILVER LAKE RD
 TUCSON, AZ 85713**

**UST U001625030
 N/A**

UST:

Facility ID: 0-000639 Tank ID: 1
 Owner: BARNETT & DEYOE Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/14/89
 Date Closed: / /
 In Use: False

Facility ID: 0-000639 Tank ID: 2
 Owner: BARNETT & DEYOE Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/14/89
 Date Closed: / /
 In Use: False

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BARNETT & DEZOL CONT INC (Continued)

U001625030

Facility ID: 0-000639 Tank ID: 3
 Owner: BARNETT & DEYOE Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 12/14/89
 Date Closed: / /
 In Use: False

**22 BARNETT ABD DEYOE CONTRACTORS
 701 W SILVERLAKE RD
 TUCSON, AZ 85713**

**PADS 1000455279
 RCRIS-SQG AZD982428542
 FINDS
 WWFAC**

RCRIS:
 Owner: BARNETT & DEVOE CONT
 (415) 555-1212
 Contact: MAX E BARNETT II
 (520) 733-1740
 Record Date: 08/01/1990
 Classification: Hazardous Waste Transporter
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 PCB Handler Activity Data System (PADS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

AZ WWFAC:
 Owner Address: 701 W. Silverlake Road
 Tucson, A Z8571

**23 E-Z SERVE/QUIK MART #100909
 1890 S MISSION RD
 TUCSON, AZ 85713**

**LUST U003153708
 UST N/A**

LUST:
 Facility ID: 0-002044
 Lust Number: 2522.01
 Leak Priority: KNOWN OR PROBABLE AFFECT ON GW
 Notification: 10/19/1992
 Date Closed: Not reported

UST:
 Facility ID: 0-002044 Tank ID: 1
 Owner: RESTRUCTURE PETROLEUM MARKETIN Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 09/15/92
 Date Closed: / /
 In Use: False

Facility ID: 0-002044 Tank ID: 2
 Owner: RESTRUCTURE PETROLEUM MARKETIN Owner ID: Not reported
 Owner Contact: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

E-Z SERVE/QUIK MART #100909 (Continued)

U003153708

In Use:	False		
Date Removed:	09/15/92		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-002044	Tank ID:	3
Owner:	RESTRUCTURE PETROLEUM MARKETING	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/15/92		
Date Closed:	/ /		
In Use:	False		

**24 AMERICAN SCRAP METAL RECYCLING
2140 S. FREEWAY
TUCSON, AZ 85713**

**SHWS 1000486427
N/A**

SHWS:

EPA ID:	AZD983474784
Program:	PA/SI
Facility Id:	960
Site Code:	Not reported
Discovery Date:	Not reported
Source:	Not reported
Operable Unit:	0
QWARK Area:	Not reported
Lat/Long:	Not reported
Lat/Long Method:	99
Comments:	Not reported

**25 H AND K BARRELS
2122 S 12TH AVE
TUCSON, AZ 85713**

**RCRIS-SQG 1000121177
FINDS AZD982045130**

RCRIS:

Owner:	NON NOTIFIER (415) 555-1212
Contact:	Not reported
Record Date:	Not reported
Classification:	Not reported
Used Oil Recyc:	No
Violation Status:	Violations exist
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	08/29/1987
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	11/09/1987
Actual Date Achieved Compliance:	03/25/1988
Enforcement Action:	Written Informal
Enforcement Action Date:	09/30/1987
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

H AND K BARRELS (Continued)

1000121177

There are 1 violation record(s) reported at this site:

Evaluation
 Compliance Evaluation Inspection (CEI)

Area of Violation
 Generator-All Requirements

Date of Compliance
 03/25/1988

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**26 MISSION VERDE APT
 1702 W 36TH ST APT 1174
 TUCSON, AZ 85713**

**FINDS 1004437970
 FTTS AZ0000226936**

FTTS Insp:
 Region: 09
 Inspected Date: 06/23/92
 Insp Number: 06/23/92
 Violation occurred: No
 Inspector: TDELAMORE
 Investigation Type: Use General Non-Agriculture
 Facility Function: Other Parties
 Investig Reason: For Cause, Private Citizen/Press Complaint
 Legislation Code: FIFRA

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 National Compliance Database (NCDB)

**26 ROSELLA ROBERTS MISSION VERDE APTS
 1702 W 36TH ST APT 1174
 TUCSON, AZ 85713**

**FTTS 1004645753
 N/A**

FTTS Insp:
 Region: 09
 Inspected Date: 06/23/92
 Insp Number: 06/23/92
 Violation occurred: No
 Inspector: T. DELAMOR
 Investigation Type: Use General Non-Agriculture
 Facility Function: Other Parties
 Investig Reason: For Cause, Private Citizen/Press Complaint
 Legislation Code: FIFRA

**27 CIRCLE K # 678
 1777 W 36TH ST
 TUCSON, AZ 85713**

**LUST U003091199
 UST N/A**

LUST:
 Facility ID: 0-001285
 Lust Number: 0390.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 01/20/1988
 Date Closed: 02/15/1995

UST:
 Facility ID: 0-001285 Tank ID: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K # 678 (Continued)

U003091199

Owner:	CIRCLE K [REJECTED LEASE SITE]	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/23/87		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-001285	Tank ID:	2
Owner:	CIRCLE K [REJECTED LEASE SITE]	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/23/87		
Date Closed:	/ /		
In Use:	False		
Facility ID:	0-001285	Tank ID:	3
Owner:	CIRCLE K [REJECTED LEASE SITE]	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	11/23/87		
Date Closed:	/ /		
In Use:	False		

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**DIAMOND SHAMROCK # 1623
 2616 S MISSION RD
 TUCSON, AZ 85713**

**UST U003153965
 N/A**

UST:

Facility ID:	0-008998	Tank ID:	1
Owner:	DIAMOND SHAMROCK ARIZONA, INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		
Facility ID:	0-008998	Tank ID:	2
Owner:	DIAMOND SHAMROCK ARIZONA, INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

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**CIRCLE K # 1931
 2590 S MISSION RD
 TUCSON, AZ 85713**

**UST U001625475
 N/A**

UST:

Facility ID:	0-001507	Tank ID:	1
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		
Facility ID:	0-001507	Tank ID:	2

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K # 1931 (Continued)

U001625475

Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

Facility ID: 0-001507 Tank ID: 3
 Owner: TOSCO MARKETING CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: / /
 Date Closed: / /
 In Use: True

**29 COTTONWOOD
 3000 S. COTTONWOOD LN.
 COTTONWOOD, AZ**

**SWF/LF S103277471
 WWFAC N/A**

AZ WWFAC:
 Owner Address: P.O. Box 57
 Cottonwood, A Z8632

**30 1775 WEST CALLE ACATULCO
 1775 WEST CALLE ACATULCO
 TUSCON, AZ**

**ERNS 8861235
 N/A**

**31 VAN'S EXXON
 3761 S MISSION RD
 TUCSON, AZ 85713**

**LUST U003051496
 UST N/A**

LUST:
 Facility ID: 0-000109
 Lust Number: 0979.01
 Leak Priority: KNOWN OR PROBABLE AFFECT ON GW
 Notification: 11/17/1989
 Date Closed: Not reported

UST:
 Facility ID: 0-000109 Tank ID: 1
 Owner: AJO MISSION SERVICE STATION Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 02/26/90
 Date Closed: / /
 In Use: False

Facility ID: 0-000109 Tank ID: 2
 Owner: AJO MISSION SERVICE STATION Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 02/26/90
 Date Closed: / /
 In Use: False

Facility ID: 0-000109 Tank ID: 3
 Owner: AJO MISSION SERVICE STATION Owner ID: Not reported
 Owner Contact: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

VAN'S EXXON (Continued)

U003051496

In Use: False
 Date Removed: 02/26/90
 Date Closed: / /
 In Use: False

Facility ID:	0-000109	Tank ID:	4
Owner:	AJO MISSION SERVICE STATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/26/90		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-000109	Tank ID:	5
Owner:	AJO MISSION SERVICE STATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/26/90		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-000109	Tank ID:	6
Owner:	AJO MISSION SERVICE STATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/26/90		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-000109	Tank ID:	7
Owner:	AJO MISSION SERVICE STATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/26/90		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-000109	Tank ID:	8
Owner:	AJO MISSION SERVICE STATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	02/26/90		
Date Closed:	/ /		
In Use:	False		

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**BORDER PATROL HEADQUARTERS
 1970 W AJO WAY
 TUCSON, AZ 85713**

**LUST U003049755
 UST N/A**

LUST:
 Facility ID: 0-002243
 Lust Number: 2717.01 2717.03
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 03/12/1993
 Date Closed: 12/14/1994

Facility ID: 0-002243
 Lust Number: 2717.02
 Leak Priority: CLOSED SOIL LVL MEETS TIER1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BORDER PATROL HEADQUARTERS (Continued)

U003049755

Notification: 05/02/1995
 Date Closed: 07/17/1998

Facility ID: 0-002243
 LUST Number: 2717.03 2717.01
 Leak Priority: LUST CASE COMBINED - CLOSED OUT
 Notification: 05/02/1995
 Date Closed: 07/16/1998

UST:

Facility ID:	0-002243	Tank ID:	1
Owner:	GENERAL SERVICES ADMINISTRATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/09/94		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-002243	Tank ID:	2
Owner:	GENERAL SERVICES ADMINISTRATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/09/94		
Date Closed:	/ /		
In Use:	False		

Facility ID:	0-002243	Tank ID:	3
Owner:	GENERAL SERVICES ADMINISTRATION	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	12/09/94		
Date Closed:	/ /		
In Use:	False		

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**US BORDER PATROL TUCSON
 2010 W AJO WAY/1970 W AJO WAY
 TUCSON, AZ 85713**

**LUST U001624812
 UST N/A**

LUST:

Facility ID: 0-000214
 LUST Number: 4085.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER1
 Notification: 05/10/1995
 Date Closed: 01/19/2000

UST:

Facility ID:	0-000214	Tank ID:	1
Owner:	ADOA/AZ DEPT OF PUBLIC SAFETY	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	03/08/95		
Date Closed:	/ /		
In Use:	False		

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**MESA RIDGE-A MANUFACTURED HOME COMMUNITY
 1402 W. AJO WAY
 TUCSON, AZ 85713**

**Dry Wells S103895241
 N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MESA RIDGE-A MANUFACTURED HOME COMMUNITY (Continued)

S103895241

DRY WELLS:

Number of Wells: 1
 Beginning Registration Number: 17905

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**GIANT #925
 1202 W AJO
 TUCSON, AZ 85713**

**UST U001002549
 N/A**

UST:

Facility ID:	0-002783	Tank ID:	1
Owner:	GIANT INDUSTRIES ARIZONA/ZEIGLER	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-002783	Tank ID:	2
Owner:	GIANT INDUSTRIES ARIZONA/ZEIGLER	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-002783	Tank ID:	3
Owner:	GIANT INDUSTRIES ARIZONA/ZEIGLER	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-002783	Tank ID:	4
Owner:	GIANT INDUSTRIES ARIZONA/ZEIGLER	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

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**CIRCLE K # 998
 4820 S MISSION RD
 TUCSON, AZ 85746**

**LUST U003153670
 UST N/A**

LUST:

Facility ID: 0-001350
 Lust Number: 2476.01
 Leak Priority: CLOSED SOIL LVL MEETS TIER3
 Notification: 09/17/1992
 Date Closed: 08/27/1996

UST:

Facility ID:	0-001350	Tank ID:	1
Owner:	RICHARD CLARKE	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	09/15/92		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K # 998 (Continued)

U003153670

Date Closed: //
 In Use: False

Facility ID: 0-001350
 Owner: RICHARD CLARKE
 Owner Contact: Not reported
 In Use: False
 Date Removed: 09/15/92
 Date Closed: //
 In Use: False

Tank ID: 2
 Owner ID: Not reported

Facility ID: 0-001350
 Owner: RICHARD CLARKE
 Owner Contact: Not reported
 In Use: False
 Date Removed: 09/15/92
 Date Closed: //
 In Use: False

Tank ID: 3
 Owner ID: Not reported

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**TARP TUCSON AIRPORT REMED PROJ
 1100 W IRVINGTON RD
 TUCSON, AZ 85714**

**FINDS 1000984788
 RCRIS-LQG AZR000000349**

RCRIS:

Owner: TUCSON CITY OF WATER DEPT
 (520) 791-2666
 Contact: MICHAEL RING
 (520) 791-5256

Record Date: 03/20/1995
 Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1999

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D002	25.00	F001	8352.00

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 11/18/1999
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 06/24/2000
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
 Enforcement Action Date: 02/23/2000
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 11/18/1999
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 06/24/2000
 Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal
 Enforcement Action Date: 02/23/2000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TARP TUCSON AIRPORT REMED PROJ (Continued)

1000984788

Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	11/18/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/24/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/23/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	11/18/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/24/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/23/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	11/18/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/24/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/23/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	11/18/1999
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/24/2000
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	Written Informal
Enforcement Action Date:	02/23/2000
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

There are 6 violation record(s) reported at this site:

Evaluation
 Other Evaluation

Area of Violation
 Generator-All Requirements
 Generator-All Requirements
 Generator-All Requirements
 Generator-All Requirements
 Generator-All Requirements
 Generator-All Requirements

Date of Compliance

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

TARP TUCSON AIRPORT REMED PROJ (Continued)

1000984788

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Biennial Reporting System (BRS)
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**37 FRY'S FOOD STORES 119
 902 W IRVINGTON RD
 TUCSON, AZ 85714**

**FINDS 1004176029
 000009004680**

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**38 HOME DEPOT THE 0467
 1155 W IRVINGTON RD
 TUCSON, AZ 85746**

**FINDS 1004181161
 000009072410**

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**39 CIRCLE K # 1606
 5680 S MISSION RD
 TUCSON, AZ 85746**

**UST U001625445
 N/A**

UST:

Facility ID:	0-001447	Tank ID:	1
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		

Facility ID:	0-001447	Tank ID:	2
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		

Facility ID:	0-001447	Tank ID:	3
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	//		
Date Closed:	//		
In Use:	True		

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

40	PCC-DESERT VISTA CAMPUS EXPANSION 5901 SOUTH CALLE SANTA CRUZ TUCSON, AZ 85709	Dry Wells	S104531030 N/A
DRY WELLS: Number of Wells: 2 Beginning Registration Number: 19231			

40	NATIONAL SEMICONDUCTOR CORP. 5901 S. CALLE SANTA CRUZ TUCSON, AZ 85706	SHWS	S101570986 N/A
SHWS: EPA ID: AZD098044795 Program: PA/SI Facility Id: 1040 Site Code: Not reported Discovery Date: Not reported Source: Not reported Operable Unit: 0 QWARF Area: Not reported Lat/Long: Not reported Lat/Long Method: 20 Comments: Not reported			

40	PIMA COMMUNITY COLLEGE D V 5901 S CALLE SANTA CRUZ TUCSON, AZ 85709	RCRIS-SQG FINDS CERC-NFRAP	1000260449 AZD098044795
CERCLIS-NFRAP Classification Data: Site Incident Category: Not reported Federal Facility: Not a Federal Facility Non NPL Code: NFRAP Ownership Status: Private NPL Status: Not on the NPL CERCLIS-NFRAP Assessment History: Assessment: DISCOVERY Completed: 02/11/1992 Assessment: PRELIMINARY ASSESSMENT Completed: 06/29/1992			
RCRIS: Owner: PIMA COMMUNITY COLLEGE D V (520) 206-2765 Contact: ERIK GILBERT (520) 206-2765 Record Date: 08/07/1992 Classification: Conditionally Exempt Small Quantity Generator Used Oil Recyc: No Violation Status: Violations exist Regulation Violated: Not reported Area of Violation: Generator-All Requirements Date Violation Determined: 08/29/1990 Priority of Violation: Low Schedule Date to Achieve Compliance: 07/03/1991 Actual Date Achieved Compliance: 06/14/1991 Enforcement Action: Written Informal Enforcement Action Date: 04/08/1991 Proposed Monetary Penalty: Not reported Final Monetary Penalty: Not reported			

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

PIMA COMMUNITY COLLEGE D V (Continued)

1000260449

There are 1 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/14/1991

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)
 Toxic Chemical Release Inventory System (TRIS)

40

**E F T C SOUTHWEST OPERATIONS
 1150 W DREXEL RD NE CORNER BLD
 TUCSON, AZ 85706**

**FINDS 1000162107
 RCRIS-LQG AZD097113856
 CERC-NFRAP**

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported	Federal Facility: Not a Federal Facility
Non NPL Code: NFRAP	
Ownership Status: Unknown	NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY	Completed: 08/01/1980
Assessment: PRELIMINARY ASSESSMENT	Completed: 12/01/1982
Assessment: SITE INSPECTION	Completed: 12/01/1982

RCRIS:

Owner: LAMBDA ELECTRONICS INC
 (516) 694-4200

Contact: KATHRYN BROWN
 (520) 806-7021

Record Date: 04/23/1998
 Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1999

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	4898.00	D002	39.00
D007	862.00	D008	862.00
D035	4204.00	F005	4204.00

Used Oil Recyc: Yes

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	10/28/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	02/11/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	12/16/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	10/28/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

E F T C SOUTHWEST OPERATIONS (Continued)

1000162107

Actual Date Achieved Compliance:	02/11/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	12/16/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	10/28/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	Not reported
Actual Date Achieved Compliance:	12/15/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	12/16/1993
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/01/1993
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	03/01/1994
Actual Date Achieved Compliance:	04/26/1994
Enforcement Action:	Written Informal
Enforcement Action Date:	03/14/1994
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	04/11/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	07/10/1986
Actual Date Achieved Compliance:	09/04/1986
Enforcement Action:	Written Informal
Enforcement Action Date:	06/03/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	04/11/1986
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	07/10/1986
Actual Date Achieved Compliance:	09/04/1986
Enforcement Action:	Written Informal
Enforcement Action Date:	06/03/1986
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

E F T C SOUTHWEST OPERATIONS (Continued)

1000162107

There are 6 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	04/26/1994
Compliance Evaluation Inspection (CEI)	Generator-Land Ban Requirements	02/11/1994
	Generator-All Requirements	02/11/1994
	Generator-All Requirements	12/15/1993
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	09/04/1986
	Generator-All Requirements	09/04/1986

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)
 Toxic Chemical Release Inventory System (TRIS)

**40 LAMBDA ELECTRONICS POWER SPLY
 1150 W. DREXEL RD.
 TUCSON, AZ**

**AZ Spills S104561195
 N/A**

Az Spills:

Facility ID:	86-153	Incident Date:	10/08/86
Response Date:	Not reported	Report / Assist:	Not reported
Type:	Release	No of Samples:	Dr
Referred to:	Not reported		
Chemicals:	Sulfuric Acid (10%)		
Property Mngmt:	Private		
Fund Amount:	Pvt/Unk		
Quantity:	Not reported		

**40 LAMBDA ELECT. DIV VEECO INST CORP
 1150 W DREXEL RD
 TUCSON, AZ 85706**

**SHWS 1001200821
 N/A**

SHWS:

EPA ID: AZD097113856
 Program: PA/SI
 Facility Id: 182
 Site Code: Not reported
 Discovery Date: Not reported
 Source: Not reported
 Operable Unit: 0
 QWARF Area: Not reported
 Lat/Long: Not reported
 Lat/Long Method: 20
 Comments: Not reported

**41 DIAMOND SHAMROCK # 1613
 2160 W DREXEL RD
 TUCSON, AZ 85746**

**UST U003154001
 N/A**

UST:

Facility ID:	0-009039	Tank ID:	1
Owner:	DIAMOND SHAMROCK ARIZONA, INC	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DIAMOND SHAMROCK # 1613 (Continued)

U003154001

Date Removed: //
 Date Closed: //
 In Use: True

Facility ID: 0-009039 Tank ID: 2
 Owner: DIAMOND SHAMROCK ARIZONA, INC Owner ID: Not reported
 Owner Contact: Not reported
 In Use: True
 Date Removed: //
 Date Closed: //
 In Use: True

42

**SAN XAVIER ROCK & MATERIALS
 1011 W VALENCIA DRIVE
 TUCSON, AZ 85706**

**UST U000017447
 N/A**

UST:

Facility ID: 0-000051 Tank ID: 1
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: //
 In Use: False

Facility ID: 0-000051 Tank ID: 2
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: //
 In Use: False

Facility ID: 0-000051 Tank ID: 3
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: //
 In Use: False

Facility ID: 0-000051 Tank ID: 4
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: //
 In Use: False

Facility ID: 0-000051 Tank ID: 5
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: //
 In Use: False

Facility ID: 0-000051 Tank ID: 6
 Owner: SOUTHWEST LAND & DEVELOPMENT CO Owner ID: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAN XAVIER ROCK & MATERIALS (Continued)

U000017447

Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: / /
 In Use: False

Facility ID: 0-000051 Tank ID: 7
 Owner: SOUTHWEST LAND & DEVELOPMENT CO. Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: / /
 In Use: False

Facility ID: 0-000051 Tank ID: 8
 Owner: SOUTHWEST LAND & DEVELOPMENT CO. Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 07/17/87
 Date Closed: / /
 In Use: False

**42 SAN XAVIER ROCK & MATERIAL
 1000 W VALENCIA RD
 TUCSON, AZ 85702**

**FINDS 1004438586
 AZD980357727**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

**43 CIRCLE K # 654
 2526 W VALENCIA
 TUCSON, AZ 85706**

**LUST U003153633
 UST N/A**

LUST:
 Facility ID: 0-001276
 Lust Number: 2138.01
 Leak Priority: CLOSED SOIL/GW LVL MEETS TIER1
 Notification: 12/27/1991
 Date Closed: 09/12/1995

UST:
 Facility ID: 0-001276 Tank ID: 1
 Owner: CIRCLE K [REJECTED LEASE SITE] Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/11/92
 Date Closed: / /
 In Use: False

Facility ID: 0-001276 Tank ID: 2
 Owner: CIRCLE K [REJECTED LEASE SITE] Owner ID: Not reported
 Owner Contact: Not reported
 In Use: False
 Date Removed: 08/11/92
 Date Closed: / /
 In Use: False

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CIRCLE K # 654 (Continued)

U003153633

Facility ID:	0-001276	Tank ID:	3
Owner:	CIRCLE K [REJECTED LEASE SITE]	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	False		
Date Removed:	08/11/92		
Date Closed:	/ /		
In Use:	False		

**44 THE WOODS I AND II APARTMENTS
 1970 W. VALENCIA RD.
 TUCSON, AZ 85746**

**Dry Wells S103493225
 N/A**

DRY WELLS:
 Number of Wells: 8
 Beginning Registration Number: 15780

**45 CIRCLE K # 5540
 1555 W VALENCIA RD
 TUCSON, AZ 85746**

**UST U003515262
 N/A**

UST:

Facility ID:	0-009222	Tank ID:	1
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

Facility ID:	0-009222	Tank ID:	2
Owner:	TOSCO MARKETING CO	Owner ID:	Not reported
Owner Contact:	Not reported		
In Use:	True		
Date Removed:	/ /		
Date Closed:	/ /		
In Use:	True		

**45 WALGREENS STORE 3837
 1550 W VALENCIA
 TUCSON, AZ 85746**

**FINDS 1004181118
 000009071970**

**45 WALGREENS STORE 3837
 1550 W VALENCIA
 TUCSON, AZ 85746**

**RCRIS-SQG 1001815265
 FINDS AZR000003962**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WALGREENS STORE 3837 (Continued)

1001815265

RCRIS:

Owner: WALGREEN CO
 (847) 940-2500

Contact: KENNETH MCKEVENY
 (919) 484-3647

Record Date: 09/17/1997

Classification: Conditionally Exempt Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

46 **1645 W. VALENCIA**
1645 W. VALENCIA
TUCSON, AZ 85746

ERNS 99608735
N/A

46 **AMERICAN AIRLINE**
1645 W. VALENCIA
TUCSON, AZ

AZ Spills S104561208
N/A

Az Spills:

Facility ID: 99-048-C

Incident Date: 02/02/99

Response Date: Not reported

Report / Assist: Not reported

Type: Release

No of Samples: Ai

Referred to: PCDEQ

Chemicals: Unknown (Poss. Fuel)

Property Mngmt: Private

Fund Amount: Not reported

Quantity: Not reported

47 **HOLMES TUTTLE FORD INC**
1431 W VALENCIA
TUCSON, AZ 85746

FINDS 1004181301
000009073832

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

48 **LARSON COMPANY THE**
6701 S MIDVALE PARK RD
TUCSON, AZ 85746

RCRIS-SQG 1000325577
FINDS AZD098036569
CA HAZNET

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

LARSON COMPANY THE (Continued)

1000325577

RCRIS:

Owner: LARSON COMPANY
 (602) 294-3900
 Contact: RICHARD KUNZ
 (602) 294-3900
 Record Date: 12/06/1993
 Classification: Small Quantity Generator
 Used Oil Recyc: No
 Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS Facility System (AIRS/AFS)
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)
 Toxic Chemical Release Inventory System (TRIS)

HAZNET:

Gepaid: AZD098036569
 Tepaid: CAD000088252
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .4586
 Category: Unspecified solvent mixture Waste
 Disposal Method: Transfer Station
 Contact: THE LARSON COMPANY
 Telephone: (602) 294-3900
 Mailing Address: 6701 S MIDVALE PARK RD
 TUCSON, AZ 85746 - 8065
 County 99
 Gepaid: AZD098036569
 Tepaid: CAD000088252
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .0825
 Category: Other inorganic solid waste
 Disposal Method: Transfer Station
 Contact: THE LARSON COMPANY
 Telephone: (602) 294-3900
 Mailing Address: 6701 S MIDVALE PARK RD
 TUCSON, AZ 85746 - 8065
 County 99
 Gepaid: AZD098036569
 Tepaid: CAD000088252
 Gen County: 99
 Tsd County: Los Angeles
 Tons: .2085
 Category: Unspecified organic liquid mixture
 Disposal Method: Transfer Station
 Contact: THE LARSON COMPANY
 Telephone: (602) 294-3900
 Mailing Address: 6701 S MIDVALE PARK RD
 TUCSON, AZ 85746 - 8065
 County 99

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

LARSON COMPANY THE (Continued)

1000325577

Gepaid: AZD098036569
 Tepaid: CAT080022148
 Gen County: 99
 Tsd County: San Bernardino
 Tons: .2293
 Category: Unspecified solvent mixture Waste
 Disposal Method: Transfer Station
 Contact: THE LARSON COMPANY
 Telephone: (602) 294-3900
 Mailing Address: 6701 S MIDVALE PARK RD
 TUCSON, AZ 85746 - 8065
 County 99

Gepaid: AZD098036569
 Tepaid: CAT080022148
 Gen County: 99
 Tsd County: San Bernardino
 Tons: 5.7337
 Category: Organic monomer waste (includes unreacted resins)
 Disposal Method: Transfer Station
 Contact: THE LARSON COMPANY
 Telephone: (602) 294-3900
 Mailing Address: 6701 S MIDVALE PARK RD
 TUCSON, AZ 85746 - 8065
 County 99

The CA HAZNET database contains 9 additional records for this site.
 Please contact your EDR Account Executive for more information.

48	THE LARSON COMPANY 6701 SOUTH MIDVALE PARK ROAD TUCSON, AZ 85746	Dry Wells	S103493194 N/A
	DRY WELLS: Number of Wells: 1 Beginning Registration Number: 15254		
48	6701 SOUTH MIDVILLE PARK ROAD 6701 SOUTH MIDVILLE PARK ROAD TUCSON, AZ 85746	ERNS	94368235 N/A
48	6701 SOUTH MIDVILLE PARK ROAD 6701 SOUTH MIDVILLE PARK ROAD TUCSON, AZ 85746	ERNS	94463366 N/A
49	WEISER LOCK CO 6700 S WEISER LOCK DR TUCSON, AZ 85746	FINDS AZ Spills RCRIS-LQG TRIS	1000380289 85746WSRLC66

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WEISER LOCK CO (Continued)

1000380289

RCRIS:

Owner: MASCO BUILDING PRODUCTS CORP
 (602) 741-6200

Contact: GLYNIS COULTER
 (602) 741-6366

Record Date: 02/27/1995
 Classification: Large Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1999

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	222.00	D002	2162.00
D003	296383569.00	D005	181.00
D006	118.00	D007	296411450.00
D008	5146.00	D009	2.00
D018	1708.00	D027	118.00
D039	1826.00	D040	1826.00
F003	178.00	F006	296410185.00
F007	39377.00	F008	39377.00

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 01/29/1998
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 03/05/1999
 Actual Date Achieved Compliance: 04/21/1999

Enforcement Action: Written Informal
 Enforcement Action Date: 03/18/1998
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

Regulation Violated: Not reported
 Area of Violation: Generator-All Requirements
 Date Violation Determined: 01/29/1998
 Priority of Violation: Low
 Schedule Date to Achieve Compliance: 03/05/1999
 Actual Date Achieved Compliance: 04/21/1999

Enforcement Action: Written Informal
 Enforcement Action Date: 03/18/1998
 Proposed Monetary Penalty: Not reported
 Final Monetary Penalty: Not reported

There are 2 violation record(s) reported at this site:

Evaluation
 Compliance Evaluation Inspection (CEI)

Area of Violation
 Generator-All Requirements
 Generator-All Requirements

Date of Compliance
 04/21/1999
 04/21/1999

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WEISER LOCK CO (Continued)

1000380289

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- Biennial Reporting System (BRS)
- Facility Registry System (FRS)
- Resource Conservation and Recovery Act Information system (RCRAINFO)
- Toxic Chemical Release Inventory System (TRIS)

Az Spills:

Facility ID:	95-065-C	Incident Date:	12/11/95
Response Date:	Not reported	Report / Assist:	Not reported
Type:	Release	No of Samples:	Ta
Referred to:	Not reported		
Chemicals:	Electroplating Solution		
Property Mngmt:	Private		
Fund Amount:	Pvt/Unk		
Quantity:	Not reported		

Facility ID:	98-021-C	Incident Date:	09/06/97
Response Date:	Not reported	Report / Assist:	Not reported
Type:	Release	No of Samples:	AS
Referred to:	Not reported		
Chemicals:	Rack Stripper Solution		
Property Mngmt:	Private		
Fund Amount:	Pvt/Unk		
Quantity:	Not reported		

**49 6660 SOUTH BROADMOOR
 6660 SOUTH BROADMOOR
 TUCSON, AZ 85746**

**ERNS 92293653
 N/A**

**49 WEISER LOCK
 6660 SO. BROADMOOR
 TUCSON, AZ 85746**

**AZ Spills S101092828
 N/A**

Az Spills:

Facility ID:	94-008-C	Incident Date:	02/24/94
Response Date:	Not reported	Report / Assist:	Not reported
Type:	Release	No of Samples:	Ta
Referred to:	HWIU		
Chemicals:	Cyanide based solution		
Property Mngmt:	Private		
Fund Amount:	Pvt/Unk		
Quantity:	Not reported		

**49 6660 SOUTH BROADMOOR
 6660 SOUTH BROADMOOR
 TUCSON, AZ 85746**

**ERNS 93305437
 N/A**

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
PIMA COUNTY	S103895151	29TH ST. LANDFILL	29TH ST. (AKA SILVERLAKE RD.) AND SANTA CRUZ		SWF/LF	
PIMA COUNTY	S103895016	AJO	2000 N. AJO WELL RD. 1.5 MILES NORTH OF AJO		SWF/LF	
PIMA COUNTY	S103277346	CACTUS	ALLEN RD. BETWEEN TUCSON BLVD. AND CACTUS RD.		SWF/LF, WWFAC	
PIMA COUNTY	S103895018	ARIZONA PORTLAND CEMENT INERT	11115 N. CASA GRANDE HIGHWAY		SWF/LF	
PIMA COUNTY	S103895022	RYAN FIELD	6455 S. CONTINENTAL RD		SWF/LF	
PIMA COUNTY	S103895206	VINCENT MULLINS	NORTHEAST CORNER OF SPEEDWAY		SWF/LF	
PIMA COUNTY	S103895173	TUMAMOC	DIRECTLY WEST OF TUMAMOC HILL ON 22ND ST.		SWF/LF	
PIMA COUNTY	S103895169	RYLAND	WEST END OF 40TH ST. AND SANTA CRUZ RIVER		SWF/LF	
PIMA COUNTY	S103895174	WALNUT	NORTH END OF ALVEMON AND RILLITO WASH		SWF/LF	
PIMA COUNTY	S103895155	COLUMBUS #1	NORTH END OF COLUMBUS DR. ON EAST END		SWF/LF	
PIMA COUNTY	S103895156	COLUMBUS #2	NORTH END OF COLUMBUS DR. ON EAST END		SWF/LF	
PIMA COUNTY	S103895023	SAHARITA	16605 S. LACANADA DR.		SWF/LF	
PIMA COUNTY	S103895170	SAHUARO MONUMENT	1 MILE SOUTHEAST OF VISTORS CENTER		SWF/LF	
PIMA COUNTY	S103895160	LA CANADA	1 MILE SOUTH OF HELMET PEAK RD.		SWF/LF	
PIMA COUNTY	S103895019	INA	1 MILE WEST OF I-10 ON INA RD.		SWF/LF	
PIMA COUNTY	S103895176	WILMOT RD.	1 MILE SOUTH OF I-10 ON WILMONT RD.		SWF/LF	
PIMA COUNTY	S103895168	RYAN FIELD	12 MILES WEST OF TUCSON ON AZ 86 NORTH OF 86		SWF/LF	
PIMA COUNTY	S100293374	SAHURITA	.5 MILES W OF I-19 ON SAHURITA. S .		SWF/LF	
PIMA COUNTY	S103278122	PIMA COUNTY	.25 MILES WEST OF FREEWAY NORTH OF GRA RD.		SWF/LF, AZ Spills, WWFAC	92-075-B
PIMA COUNTY	S103278773	WHY	.5 MILES NORTH OF WHY ON AZ 85		SWF/LF	
PIMA COUNTY	S103895027	WHY RURAL	1/2 MILES NORTH STATE HIGHWAY 85		SWF/LF	
PIMA COUNTY	S100293371	CATALINA	.8 MILES N ON MILEPOST 84 ON WEST S		SWF/LF	
PIMA COUNTY	S100293372	IMA ROAD	.5 MILES W. OF I-10 E. OF INA RD, O		SWF/LF	
PIMA COUNTY	S100293373	LOS REALES	.5 MILES S OF I-10 ON CRAYCROFT RD,		SWF/LF	
PIMA COUNTY	S103895158	HARRISON RD. #2	.5 MILES NORTH OF IRVINGTON RD. ON HARRISON EAST		SWF/LF	
PIMA COUNTY	S103895152	A MOUNTAIN	MISSION RD. AT BASE OF "A" MOUNTAIN		SWF/LF	
PIMA COUNTY	S103895164	NEARMONT	NEARMONT ST. AND MELWOOD		SWF/LF	
PIMA COUNTY	S103895165	OLD NOGALES	EAST OF I-19 ON HUGHES ACCESS RD.		SWF/LF	
PIMA COUNTY	S103895153	BROADWAY #1	SOUTH OF BROADWAY RD. BETWEEN KOLB A		SWF/LF	
PIMA COUNTY	S103895154	BROADWAY #2	NORTH OF BROADWAY RD. BETWEEN KOLB A		SWF/LF	
PIMA COUNTY	S103895157	CORTARO ROAD	SOUTH OF THE CORTARO ROAD BRIDGE ON E SIDE		SWF/LF	
PIMA COUNTY	S103895162	LINDA LANDFILL	NORTH OF ALAMEDA AND EAST OF SANTA CR		SWF/LF	
PIMA COUNTY	S103895166	ORGAN PIPE MONUMENT	ORGAN PIPE MONUMENT, 1 MILE SOUTH OF VISTORS CENTE		SWF/LF	

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
PIMA COUNTY	S102286938	SASABE	PRESUMIDO PEAK QUADRANT .5 MILES NORT OF US-MEXIC		SWF/LF	
PIMA COUNTY	S101570019	WQ-FAGAN LAKE	T17S R16E SEC 34 SE 1/4		SHWS	
PIMA COUNTY	S103895161	LA CHOLLA #1	EAST SIDE OF LA CHOLLA RD. SOUTH OF RILLITO RIVER		SWF/LF	
PIMA COUNTY	S103895167	PIMA COUNTY - LA CHOLLA #2	WEST SIDE OF LA CHOLLA RD. SOUTH RILLITC RIVER		SWF/LF	
PIMA COUNTY	S103895171	SILVERBELL (OLD)	SILVERBELL PEAK COVERED BY MINE TAILING PAG		SWF/LF	
PIMA COUNTY	S103895026	TANGERINE	10220 W. TANGERINE RD.		SWF/LF	
PIMA COUNTY	S103895172	ST. MARY'S	THE SOUTHWEST CORNER OF ST. MARY'S RD AND		SWF/LF	
PIMA COUNTY	S103086638	RESOURCE RECOVERY TRUST - SPEEDWAY	TUCSON ARIZONA		SWF/LF	
TUCSON	S103392069	WQ-ALUMINUM DROSS	(MAIL) PIMA COUNTY DEQ, 150 W. CONGRESS	85701	SHWS	
TUCSON	S103809868	U.OF A. EXPERIMENTAL FARMS	I-10 / MIRACLE MILE ROAD	85745	SHWS	
TUCSON	S104827042	TUCSON/AJO DETENTION BASIN	AJO WAY / COUNTRY CLUB RO	85714	WWFAC	
TUCSON	1001404347	DESERT XRAY SALES AND ECO RECYCLING	1311 E AJO WAY STE 109	85713	RCRIS-SQG, FINDS	
TUCSON	S104564826	SFPPL P	3841 E AJO WAY	85713	HAZNET	AZT050010131
TUCSON	U003799501	AJO CHEVRON	1285 W AJO WAY	85713	UST	0-009628
TUCSON	U003153967	AVIATION PARKWAY	AVIATION/EUCLID	85713	UST	0-009001
TUCSON	1000589610	ARIZONA LITHOGRAPHERS	351 N COMMERCE PARK LP	85745	RCRIS-SQG, FINDS	
TUCSON	1000171783	PRECIOUS METALS OF ARIZONA	2470 N JACK RABBIT DR	85745	RCRIS-SQG, FINDS	
TUCSON	1001195212	THOMAS AND BETTS CORP AUGAT WIRING SYSTE	777 E MACARTHUR CIRCLE STE12	85714	RCRIS-SQG, FINDS	
TUCSON	1001212569	ALFA LAVAL FLOW	777 E MACARTHUR CIRCLE STE 18	85714	RCRIS-SQG, FINDS	
TUCSON	S103392088	WQ-MIRACLE MILE	MIRACLE MILE RD / I-10	85745	SHWS	
TUCSON	1000261657	ENVIRONMENTAL WASTE ENTPR RECYCLE	7400 OLD NOGALES HWY	85706	FINDS, RCRIS-LQG	
TUCSON	S101570982	GATES LEARJET CORP.	7777 S OLD NOGALES HWY	85706	SHWS	AZD020703310
TUCSON	92256451	SABINO CANYON RECREATION AREA	SABINO CANYON RECREATION AREA		ERNS	
TUCSON	S103932028	WQ-SANTA CRUZ RIVER PROJECT	SANTA CRUZ RIVER / SPEEDWAY.	85745	SHWS	
TUCSON	S103932023	29TH STEEL USARTC, US ARMY RESERVE	1750 E. SILVERLAKE RD. (NEAR INTERSECTION 29TH)	85713	SHWS	
TUCSON	S104740982	PIMA COUNTY WWMD - AVRA VALLEY	10000 WEST SNYDER HILL RO		Aquifer, WWFAC	P100642
TUCSON	S103278558	TUCSON, CITY OF	T13S,R14E,S30		AZ Spills, WWFAC	00-044-C
TUCSON	S104889596	SAFETY-KLEEN CORP	4161 E TENNESSE	85714	SHWS	AZD980892897
TUCSON	1001492776	A A S COMPLETE CONTROLS	850 E TETON RD STE 8	85706	FINDS, RCRIS-LQG	
TUCSON	1000984337	COUNTY COLLECTION SYSTEM	TOWNSHIP 14 S. RANGE 14 E SEC.29 SE1/4	85713	CERCLIS, FINDS	
TUCSON	S101571005	COUNTY COLLECTION SYSTEM	TOWNSHIP 14 S.,RANGE 14 EAST,SEC.29 SE1/4	85713	SHWS	AZ0001038595
TUCSON	S103392077	ARIZONA AIR NATIONAL GUARD- TUCSON	TUCSON INTL ARPT	85706	SHWS	AZ9573124055
TUCSON	1000472606	AZ D P S FLEET MANAGEMENT	6401 S VALENCIA BLVD	85706	RCRIS-SQG, FINDS	
TUCSON	1000978049	YOUR CLEANERS	1645 W VALENCIA STE 101	85746	RCRIS-SQG, FINDS	
TUCSON	1000725147	TERMINAL STATIONS INC	WILMOT RD / I16 JCT	85706	SHWS, WWFAC	AZD980496814

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D018	BENZENE
D027	1,4-DICHLOROBENZENE
D035	METHYL ETHYL KETONE
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

EPA Waste Codes Addendum

Code	Description
	ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
F008	PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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

Date of Government Version: 10/22/01

Date Made Active at EDR: 12/11/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/05/01

Elapsed ASTM days: 36

Date of Last EDR Contact: 02/04/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 10/22/01

Date Made Active at EDR: 12/11/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/05/01

Elapsed ASTM days: 36

Date of Last EDR Contact: 02/04/02

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

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 11/21/01

Date Made Active at EDR: 02/04/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/26/01

Elapsed ASTM days: 40

Date of Last EDR Contact: 12/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/21/01
Date Made Active at EDR: 02/04/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/26/01
Elapsed ASTM days: 40
Date of Last EDR Contact: 12/16/01

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/14/01
Date Made Active at EDR: 01/14/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/14/01
Elapsed ASTM days: 61
Date of Last EDR Contact: 11/14/01

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

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

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/14/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

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

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 02/01/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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

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

Date of Last EDR Contact: 12/17/01
Date of Next Scheduled EDR Contact: 03/18/02

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

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

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

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

ROD: Records Of Decision

Source: NTIS

Telephone: 703-416-0223

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/00
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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

Date of Government Version: 11/13/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/04/02
Date of Next Scheduled EDR Contact: 05/06/02

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

Source: EPA
Telephone: N/A

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

Date of Government Version: 10/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4526

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

Date of Government Version: 05/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/21/02
Date of Next Scheduled EDR Contact: 04/22/02

MLTS: Material Licensing Tracking System

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

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

Date of Government Version: 10/25/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

MINES: Mines Master Index File

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

Date of Government Version: 12/14/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/02/02
Date of Next Scheduled EDR Contact: 04/01/02

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Last EDR Contact: 11/19/01
Date of Next Scheduled EDR Contact: 02/18/02

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-260-3936

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

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

Date of Last EDR Contact: 11/13/01
Date of Next Scheduled EDR Contact: 02/12/02

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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

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

Date of Last EDR Contact: 12/11/01
Date of Next Scheduled EDR Contact: 03/11/02

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-260-1531

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

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

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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

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

Date of Last EDR Contact: 01/22/02
Date of Next Scheduled EDR Contact: 04/22/02

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

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

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

Date of Government Version: 10/25/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

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

Source: EPA
Telephone: 202-564-2501

Date of Government Version: 10/25/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF ARIZONA ASTM STANDARD RECORDS

SPL: Superfund Program List

Source: Dept. of Environmental Quality
Telephone: 602-207-4360

The list is representative of the sites and potential sites within the jurisdiction of the Superfund Program Section. It is comprised of the following elements: 1) Water Quality Assurance Revolving Fund Registry Sites; 2) Potential WQARF Registry sites; 3) NPL sites; and 4) Department of Defense sites requiring SPS oversight.

Date of Government Version: 10/23/00
Date Made Active at EDR: 01/03/01
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/04/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 12/04/01

SHWS: ZipAcids List

Source: Department of Environmental Quality
Telephone: 602-207-2202

The ACIDS list consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The list is no longer updated by the state.

Date of Government Version: 01/03/00
Date Made Active at EDR: 05/16/00
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 04/11/00
Elapsed ASTM days: 35
Date of Last EDR Contact: 01/21/02

SWF/LF: Directory of Solid Waste Facilities

Source: Department of Environmental Quality
Telephone: 602-207-4132

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

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

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

LUST: Leaking Underground Storage Tank Listing

Source: Department of Environmental Quality
Telephone: 602-207-4345

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

Date of Government Version: 11/08/01
Date Made Active at EDR: 11/27/01
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/13/01
Elapsed ASTM days: 14
Date of Last EDR Contact: 11/07/01

UST: Underground Storage Tank Listing

Source: Department of Environmental Quality
Telephone: 602-207-4345

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/07/01
Date Made Active at EDR: 12/10/01
Database Release Frequency: Annually

Date of Data Arrival at EDR: 11/08/01
Elapsed ASTM days: 32
Date of Last EDR Contact: 01/14/02

WQARF: Water Quality Assurance Revolving Fund Sites

Source: Department of Environmental Quality
Telephone: 602-207-2202

Sites which may have an actual or potential impact upon the waters of the state, cause by hazardous substances. The WQARF program provides matching funds to political subdivisions and other state agencies for clean-up activities.

APPENDIX D SITE PHOTOGRAPHS



Photo 8: Bus and tractor trailer maintenance operation ½-mi. south of Congress St., ¼-mi. west of Santa Cruz

Photo 9: Irrigation ditch on top of riverbank, non-potable water for landscape irrigation; looking north towards Congress St. bridge





Photo 6: City of Tucson Environmental Management Division , Nearmont Environmental Management Project at the Nearmont Landfill

Photo 7: Water Monitoring wells near the Nearmont Landfill, south of Congress St., west of the Santa Cruz River





Photo 4: Santa Cruz River bottom looking north in project area from the Valencia Road Bridge

Photo 5: River bottom looking north, north of Ajo Way Bridge





Photo 2: Rubble on west bank of Santa Cruz, looking southwest, north of Ajo Way Bridge

Photo 3: Debris in riverbottom, north of Ajo Way Bridge





Photo 1: Gravel pit operation, north of Los Reales

APPENDIX E PREPARER CREDENTIALS

KENNETH L. HOUSER
Division Director - Phoenix Natural Resources

EDUCATION

*M.A., Geology, University of
Missouri, Columbia*
*B.A., Geology and Anthropology,
Catawba College*

EXPERTISE

*Specializing in project management
and client and business
development*
*Technical expertise in the areas of
natural resource management,
geology, and hydro-geology,*
*Technical review and quality
control of various types of
environmental projects*

SELECTED PROJECTS

*Luke Air Force Base Barry M.
Goldwater Gunnery Range EIS
Biological Evaluation - For large
residential development,
Goodyear Arizona*
*Bureau of Indian Affairs -
Environmental Assessment for
reclamation facility, St. George
Utah*
*Maricopa County Flood Control
Area Drainage Master Plan,
Phoenix Arizona*
*City of Phoenix - Aviation
Department Goodyear Airport
Soil and Groundwater
Remediation Project*
*Surface and sub-surface abandoned
mine land reclamation project,
Rock Springs, Wyoming*

Mr. Houser joined SWCA's Phoenix office in 1999 as Natural Resources Division Director. Mr. Houser has managed and/or supervised over 75 projects and as many as 20 people per project during his time at SWCA. His responsibilities have included management of junior, mid-level, and senior staff working in the disciplines of natural and cultural resources, engineering, earth sciences (predominately geology and hydrology), and geographical information systems (GIS).

Mr. Houser has served as a project manager on numerous environmental projects such as: DoD, BLM, and BOR EA and EIS projects, and various water supply and utility projects with the primary responsibilities of overseeing site investigations, regulatory compliance, and permitting. He has also served as a project manager for several local City and County Government projects. Some duties while in this position included managing several natural and cultural resource projects, conducting Phase I and Phase II environmental site assessments and regulatory compliance audits, and conducting hydrogeologic analysis of aquifers (using computer models to investigate groundwater flow).

Mr. Houser also served as a project manager and field supervisor for various abandoned mine lands, mine hazard, and mine-subsidence control projects. He gained experience with federal and state mining-related regulations and obtained a working knowledge of compliance and contract procedures related to these regulations and their impact on clients. Also, he operated as a field supervision manager of drilling, coring, and logging operations and developed skills in geological interpretation of lithologic material, rock mechanics analyses, and groundwater sampling. He also has geotechnical materials testing experience that includes soils compaction testing, field and laboratory concrete testing, and laboratory testing of soils.

TIMOTHY J. ZEBULSKE
Project Manager/Environmental Scientist

EDUCATION

- *B.S. Aquatic Environments, Allegheny College*

EXPERTISE

- *NEPA Planner*
- *Clean Water Act permitting*
- *FERC Environmental Inspector*
- *Phase I ESA analysis*
- *Endangered Species Surveys*

SELECTED PROJECTS

- *Chief Environmental Inspector for FERC Project 2039.*
- *EA and EIS Research and document production of several BLM and BIA projects*
- *Wrote 50 EAs and processed oil/gas drilling permits for BLM, Pinedale Wyoming, in accordance with Resource Management Plans and EIS documents*
- *Phase I ESAs for various residential and commercial sites in Arizona, including properties ranging from individual buildings to 10-square mile sites*
- *Chief Environmental Inspector for natural gas line installation regulated by FERC*
- *Roston Communities Sec. 404 individual permit for 1,060-acre site*
- *Compliance inspections for oil/gas facilities in western Wyoming*
- *Hancock Communities Section 404 Permit 2,000-acre site*
- *El Paso Energy Sec. 404 permit for 750-mile long fiber optic line*
- *Various biological evaluations for residential development sites in Arizona*
- *Luke Air Force Base Groundwater sampling program*

As project manager for the Natural Resources Division Mr. Zebulske is responsible for various Section 404, Clean Water Act and NEPA projects, as well as Phase I Environmental Site Assessments. During the past 16 years, Mr. Zebulske has acquired experience in various functions of environmental science and consulting. The majority of his work has involved site assessments, including field investigations, contamination assessments, environmental compliance audits, report and permit writing, and project management within a variety of environmental regulatory programs for clients who were developing, buying, selling, or decontaminating properties. Projects included permitting and compliance for linear utility installations across Cochise, Pima, Pinal, and Maricopa Counties, and Section 404 Permits for transportation and residential development in Pinal County. Mr. Zebulske is currently serving as the Chief Environmental Inspector for FERC project 2039, an ongoing pipeline installation/abandonment project in Phoenix.

Previous to working with SWCA Mr. Zebulske was a staff scientist with ARCADIS Geraghty & Miller, Inc. He was responsible for groundwater and surface water sampling projects at numerous CERCLA and RCRA facilities and dozens of industrial sites. Other previous positions included air, soil and water sampling at a hazardous waste landfill, fieldwork for the USEPA's National Surface Water Survey, and fisheries monitoring at a coal-fired generating station.

KRISTA A. DEARING
Geologist/ NEPA Planner

EDUCATION

- *B.S., Geology, University of Cincinnati, OH*
- *M.S., Geology, University of Cincinnati, OH. In progress.*

EXPERTISE

- *ASTM Phase I/Phase II ESA's*
- *RCRA Compliance*
- *NEPA Compliance*
- *Clean Water Act Compliance*
- *Groundwater/Soil Remedial Alternatives Feasibility Studies*

SELECTED PROJECTS

- *Piper Aircraft, Vero Beach, FL: Supplemental Investigation as part of ROD to delineate nature/extent of chlorinated solvents in groundwater. Prepared focused FS.*
- *CINERY, Cincinnati, OH: Hydrogeologic investigation and designed groundwater monitoring plan for an existing flue gas desulfurization sludge fly ash disposal landfill.*
- *Community Transportations Solutions, Inc., Louisville, KY: Comprehensive Southern Indiana HazMat Baseline Study as part of a NEPA DEIS.*
- *Honeywell Contract Employee, Phoenix, AZ: Corporate Remediation Management Division.*
- *Parson Transportation/ADOT, Phoenix, AZ: Environmental Coordinator for the design build of U.S. 60.*
 - *Aquila Energy, Houston, TX: Preparation of FERC Filing for a proposed natural gas storage facility located near Kingman, AZ.*

As a NEPA Planner/Geologist for the Natural Resources Division, Ms. Dearing is responsible for various Section 404, Clean Water Act and NEPA projects, as well as Phase I Environmental Site Assessments. Ms. Dearing is currently preparing several Resource Reports as part of a FERC Section 7 Application for a proposed natural gas storage facility located near Kingman, AZ.

Ms. Dearing was the Project Manager and Principle Investigator of a comprehensive Hazardous Material Baseline Study as part of a NEPA DEIS for the Ohio River Bridges Project located in Louisville, KY. The Project entailed a three-year effort by INDOT and KYTC to develop a comprehensive EIS of eight transportation alternatives to connect Southern Indiana and Louisville. Worked with state agencies to develop standards for the HazMat Baseline Studies for Kentucky and Indiana, and assisted client in preparation of DEIS.

Ms. Dearing served as Environmental Coordinator during the redesign/build of a 12-mile section of Superstition Highway (U.S. 60) to ensure that construction activities along the project corridor were in compliance with the State and Federal regulations.

During the past 8 years as an Environmental Consultant with Dames & Moore and Parsons Engineering Science, Ms. Dearing has acquired extensive experience providing geology/hydrogeologic services for multi-disciplinary projects in both the private and public sectors. Ms. Dearing has conducted numerous RCRA, CERCLIS, and UST remedial investigations for clients located in Ohio, Kentucky, Illinois, Pennsylvania, Indiana, Michigan, South Carolina, Colorado, Florida, and Arizona.

In addition to performing remedial investigations, Ms. Dearing has also managed numerous ASTM Phase I/Phase II investigations for clients who were developing, buying, or selling industrial, commercial, residential, or undeveloped property.