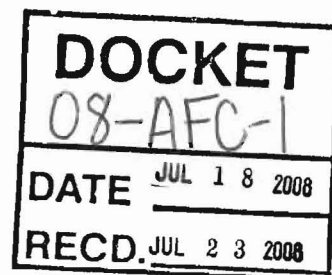




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July 18, 2008

Ms. Michelle Woods
Project Manager
c/o Dockets Unit, 4th Floor
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Ref: Phase I Environmental Site Assessment for Avenal Energy (08-AFC-1)

Dear Ms. Woods:

Pursuant to your request, enclosed are one paper copy and one CD copy of the full Phase I Environmental Site Assessment (ESA) for the Avenal Energy site. The ESA was provided as Appendix 6.14-1 of the Avenal Energy Application for Certification (AFC), but the enclosed copies include appendices that were not provided in the AFC.

Electronic copies, along with proof of service declaration, are being concurrently sent to each of the individuals on the attached proof of service list.

If you have any questions, please call me at the phone number in the letterhead, or Jim Rexroad at (713)275-6147.

Sincerely,

Joseph L. Stenger, PG, REA
Project Director

Enclosure:

Phase I ESA (1 paper copy, 1 CD copy)

Attachment:

Proof of Service

cc. Jim Rexroad, Avenal Power Center, LLC



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION
For the AVAL ENERGY PROJECT**

**Docket No. 08-AFC-1
PROOF OF SERVICE
(revised 7/10//2008)**

INSTRUCTIONS: All parties shall either (1) send an original signed document plus 12 copies or (2) mail one original signed copy AND e-mail the document to the address for the Docket as shown below, AND (3) all parties shall also send a printed or electronic copy of the document, which includes a proof of service declaration to each of the individuals on the proof of service list shown below:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 07-AFC-9
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512
docket@energy.state.ca.us

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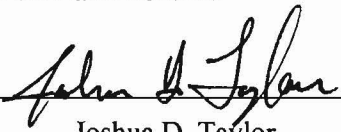
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Public Adviser's Office
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DECLARATION OF SERVICE

I, Joshua Taylor, Declare that on July 18, 2008, I deposited copies of the attached Phase I Environmental Site Assessment for the Avenal Energy Project (08-AFC-1) at the Federal Express shipping hub located on Barranca Parkway in Irvine, California, with waybills thereon fully prepaid and addressed to each of the individuals identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.


Joshua D. Taylor



PHASE I ENVIRONMENTAL SITE ASSESSMENT

October 30, 2007

For the Property at:
Northeast ¼ Section 19, Township 21 South, Range 18 East, MDB&M
Northern 148 acres of Kings County APN 36-170-032
Avenal, California 93204

TRC Project Number 125155

9301 Oakdale Avenue, Suite 210
Chatsworth, California 91311
(818) 772-0965



PHASE I ENVIRONMENTAL SITE ASSESSMENT

October 30, 2007

For the Property at:
Northeast ¼ Section 19, Township 21 South, Range 18 East, MDB&M
(Northeast 148 acres of Kings County APN 36-170-032)
Avenal, California

TRC Project Number 125155

Prepared For:

FEDERAL POWER AVENAL, LLC

Prepared By:

A handwritten signature in black ink, appearing to read "Carole Missirlian".

Carole Missirlian, PE
Senior Civil Engineer

A handwritten signature in black ink, appearing to read "J. Todd Stanford".

J. Todd Stanford, REA, REHS, CEM
Principal Scientist

9301 Oakdale Avenue, Suite 210
Chatsworth, California 91311
(818) 772-0965

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

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FIGURES

1 Site Location Map

Assessor's Parcel Map

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- A EDR Historical Aerial Photograph
- B EDR Topographic Map Report
- C EDR Sanborn Map Report
- D Previous Phase I Report (TRC, 2001)
- E EDR Radius Map with GeoCheck
- F Central Valley RWQCB Records - PG&G Kettleman Compressor Station
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- H Photographs

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

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1.0 INTRODUCTION

1.1 STATEMENT OF PURPOSE

TRC performed this Phase I Environmental Site Assessment (ESA) for the property located on the northeast ¼ of Section 19, Township 21 South, Range 18 East, MDB&M, in the City of Avenal, Kings County, California. TRC prepared this report for Federal Power Avenal, LLC (Federal Power) in support of future site development and permitting requirements. The overall purpose of this assessment was to establish environmental conditions at the property based on information collected at the time of the investigation.

TRC performed this Phase I ESA in accordance with the American Society of Testing and Materials (ASTM) Method E 1527-05 (“Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”).

1.2 DETAILED SCOPE OF SERVICES

An environmental professional as defined by the “All Appropriate Inquiries” (AAI) Rule, or someone under his/her supervision, performed this Phase I ESA. The assessment consisted of the following tasks performed within the scope of ASTM E 1527-05:

Current Conditions

1. Visual observations of site conditions and inspection of facility to evaluate the nature and type of activities that have been or are being conducted at the subject property, in terms of the potential for release or threat of release of hazardous substances or petroleum products.
2. Visual inspection of abutting property, as practical from public areas, to evaluate the potential for affecting the subject property.
3. Description of the physical setting of the site
4. Interview with the site representative. Interview with local or state environmental agency representative, as applicable to each case.

Historical Conditions

Review of the following sources of historical use information, as readily accessible:

1. Historical aerial photographs,
2. Topographic maps
3. Sanborn maps,
4. Building department records,
5. City directories.

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Northeast 148 acres of APN 36-170-032, Avenal, CA

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6. Review of available data to establish whether an environmental lien has been recorded for the subject property.
7. Review of previous environmental reports provided to TRC, if applicable.
8. Environmental lien search or preliminary title reports, as provided by Client.
9. A chain of title search was not conducted as a component of this Phase I ESA report.

Environmental Agency Review

1. A review of federal, state, tribal and local environmental database information within the ASTM-specified distance from the subject site using a database service to access records. The purpose of this review is to determine potential for impact to the subject property from an off-site source.
2. Review of state and local environmental files pertaining to the subject site, as available at the applicable environmental agencies.

1.2.1 Non-Scope Considerations

ASTM E 1527-05 includes the following list of “additional issues” that are considerations outside the scope of the ASTM Phase I assessment practice: asbestos containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, bio-agents and mold. None of these “additional issues,” other than asbestos, lead-based paint, mold and radon, were included as components of this Phase I ESA. However, some of these elements may have been completed in support of previous project activities.

1.3 SIGNIFICANT ASSUMPTIONS

TRC has assumed that the information sources utilized for this investigation provide complete and accurate information. Evaluations presented in this report are based exclusively on information provided by Federal Power, the site representative, interviewed personnel, available public records and observations made during the site visit.

1.4 LIMITATIONS AND EXCEPTIONS

TRC completed this Phase I assessment in substantial conformance with the ASTM E 1527-05 standard. In our opinion, no additions to, or deviations from, the ASTM work scope were made in completing this Phase I ESA.

The Phase I ESA is limited in nature and should not be construed to be a characterization of environmental regulatory compliance or of conditions above or below grade. The evaluations presented in this Phase I ESA are based on information provided by Federal Power, interviewed personnel, available site records, readily accessible historical documents and observations made

Phase I Environmental Site Assessment

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during the site reconnaissance. TRC did not independently verify information supplied to TRC from regulatory files reviewed as a component of this investigation.

TRC performed this Phase I ESA in a competent and professional manner in accordance with sound consulting practices and procedures. No warranty is provided regarding the actual site conditions described in this report beyond matters amenable to visual confirmation within the limits of this site assessment program. We make no representation or warranty regarding the accuracy or reliability of information or documents provided by others that are contained or relied on herein.

Data Gaps:

No data gaps were encountered during this Phase I ESA, as defined by ASTM E-1527-05 to identify subject site conditions indicative of releases or threatened releases of hazardous substances and petroleum hydrocarbons. Our opinion is limited by the conditions prevailing at the time our work is performed.

1.5 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were imposed on this Phase I ESA.

1.6 USER RELIANCE

TRC prepared this report for the use of Federal Power. Other than mentioned here, there are no third party rights or benefits conferred under this report. Any use of the contents of this report by any third party, other than those named here, is at the sole risk of that party.

2.0 SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

This assessment was performed for the property comprising the majority of the northeast ¼ of Section 19, Township 21 South, Range 18 East, MDB&M, in the City of Avenal, Kings County, California (Figure 1). The property is located south of Avenal Cutoff Road and east of the San Luis Canal of the California Aqueduct. The subject property consists of the northeast 148 acres of Kings County Assessor Parcel Number (APN) 36-170-032. In its entirety, the Assessor's Parcel encompasses approximately 608 acres. A copy of the assessor parcel map is provided in the Figure section of this report.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

No structures currently exist on the subject property. The property consists of row crop farmland, operated by Kochergen Farms.

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

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The property is within the City of Avenal. The subject property is zoned by the City of Avenal for industrial use. Surrounding properties consist of farmland (i.e., orchards), the City of Avenal Water Treatment Plant, and the California Aqueduct.

2.3 CURRENT USE OF THE PROPERTY

The property consists of row crop farmland, operated by Kochergen Farms. According to Mr. Mike Kochergen, the subject property is used as an organic, row crop, farm. As of the date of the site inspection performed on October 2, 2007, the most recent crop of wheat had been harvested and the farmland was in a fallow state consisting of wheat stubble and weeds. No buildings or other improvements or structures were observed on the subject property at the time of the site inspection.

2.4 CURRENT USE OF THE ADJOINING PROPERTIES

TRC performed a visual examination of the surrounding area on the same day as the subject property inspection. Observations of surrounding sites were limited to accessible public areas and areas that could be readily observed from the subject property. The names and locations of the immediately adjacent sites are provided in Figure 2.

Agricultural fields, consisting primarily of almond orchards managed by Kochergen Farms surround the property to the north, west and south. North of the property is Avenal Cut-off Road, beyond which are additional farmlands. The City of Avenal Water Treatment Plant is located on the adjoining property to the east. The San Luis Canal of the California Aqueduct is located approximately 200 feet to the northeast of the subject property at its closest point.

2.5 PHYSICAL SETTING

The subject property is located at an elevation of approximately 335 feet above mean sea level (msl), according to the La Cima, California USGS topographic map. Surface topography in the vicinity of the site is nearly flat and slopes gently to the east-northeast from the Kettleman Hills located approximately 2 miles to the southwest of the subject property.

The subject property is located within the southern portion of the San Joaquin Valley, within the Great Valley geomorphic province. Soils in the area consist primarily of non-marine sedimentary deposits of Quaternary alluvium. The area is underlain by unconsolidated to semi-consolidated layers of clay, silt, sand and gravel (Source: TRC, 2001).

The subject property is located within the Tulare Lake drainage Basin, which is an area of internal drainage within the San Joaquin Valley. Previously, surface waters within this basin drained into the Tulare, Buena Vista, or Kern lake beds. By the mid-1900s, surface water was diverted away from these lakes following construction of the Sierran dams and the San Joaquin Valley canal systems. Groundwater in this region reportedly consists of three distinct aquifer zones. The first is unconfined to semi-confined, made up of Recent, Pleistocene, and possibly

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Pliocene age alluvial deposits underlain by the Corcoran Clay. The second aquifer is confined beneath the Corcoran Clay in alluvial lake deposits of Pleistocene age and older. The third aquifer is a saline water aquifer contained in marine sediments of middle Pliocene or older age (TRC, 2001).

Area-specific groundwater information was obtained from the review of records at the Regional Water Quality Control Board for the Pacific Gas & Electric Compressor Station located at 34453 Plymouth Avenue in Avenal, California. Locally, shallow groundwater elevations have reportedly ranged from approximately 50 feet below mean sea level (msl) to 100 feet above msl. Based on the average elevation of the subject property, groundwater is expected to occur at depths ranging from approximately 235 to 385 feet below grade (Alisto Engineering, 1999). The groundwater flow direction in the vicinity of the subject property is reportedly oriented toward the west (Alisto, 2006). Prior to completing construction of the California Aqueduct in 1972, groundwater pumping was more extensive in the area and the local groundwater flow direction was oriented toward the north to northeast (Alisto, 2006).

Groundwater was reported as sodium sulfate type, with field electrical conductivity in the upper unconfined aquifer ranging from 900 to 1,800 microSeimens/centimeter, or approximately 580 to 1,230 mg/L of total dissolved solids (TDS). Alisto reported that due to elevated levels of TDS and objectionable taste, groundwater in this region has not been considered suitable for domestic or potable use (Alisto, 2006).

Additional details regarding groundwater quality are provided in Section 5.2.2.

3.0 USER PROVIDED INFORMATION

No first party information was collected from Federal Power during the completion of this Phase I ESA. However, TRC interviewed Mr. Mike Kochergen, the previous owner of the subject property.

3.1 TITLE RECORDS

A 50-year chain-of title record was not obtained as a component of this Phase I ESA.

3.2 USER QUESTIONNAIRE

A. *Has the user determined that the subject site's Title contains environmental liens or other information related to the environmental condition of the property, including engineering and institutional controls and Activity and Use Limitations (AULs), as defined by the ASTM? (See 40 CFR 312.25 and 312.26.)*

A specific search for environmental liens was not performed for this property. However, based on our research, including the historical and current uses of the property, and the contacted

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environmental agencies, it is unlikely that any environmental lien would have been recorded.

- B. Has the user specialized knowledge about previous ownership or uses of the property that may be material to identify conditions indicative of releases or threatened releases? (See 40 CFR 312.28.)*

A previous Phase I ESA was performed on the subject property in 2001. Details regarding the general findings of the previous Phase I ESA are provided in Section 4.6.

- C. Has the user prior knowledge that the price of the subject site has been reduced for environmentally related reasons? (See 40 CFR 312.29.)*

TRC was not made aware of any price reductions as related to environmental conditions.

- D. Is the user aware of commonly known or reasonably ascertainable information about the subject site including whether or not the presence of contamination is likely on the subject site and to what degree it can be detected? (See 40 CFR 312.30 and 312.31.)*

A previous Phase I ESA was performed on the subject property in 2001. Details regarding the general findings of the previous Phase I ESA are provided in Section 4.6.

3.3 REASON FOR PERFORMING PHASE I

The purpose of this Phase I ESA is to fulfill the requirement related to Federal Power's application for certification to the California Energy Commission, with respect to determining the potential environmental conditions at the site.

4.0 HISTORICAL INFORMATION

4.1 HISTORICAL USE INFORMATION ON THE PROPERTY

A review of historical information was performed to identify past uses of the subject property and adjacent sites that may pose an environmental concern. TRC reviewed the following sources of information during the course of this investigation:

- Aerial Photographs;
- USGS Topographic Maps;
- Sanborn Maps;
- City of Avenal Building and Safety Department;
- City Directories; and
- Previous Reports

Phase I Environmental Site Assessment

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4.2 AERIAL PHOTOGRAPHS

Aerial photographs are a recommended source of historical research for a Phase I ESA. The general land use can often be discerned from the type and layout of structures visible in an aerial photograph. However, specific elements of a site operation cannot normally be determined from the photographs. With this in mind, TRC reviewed historical aerial photographs obtained from EDR. Aerial photographs were available for the vicinity of the subject property from 1981 to 2002 (see Appendix A). The following is a summary of TRC's observations from the aerial photograph review:

YEAR/ SOURCE	SCALE	COMMENTS
1981/WSA	1" = 690 ft	Avenal Cutoff Road and the California Aqueduct were observed in this photograph. The City of Avenal Water Treatment Plant was observed to the east of the subject property, including the dirt road from Avenal Cutoff Road to the Water Treatment Plant. The subject property and all surrounding area were observed as cultivated fields.
1994/USGS	1" = 666 ft	The subject property was observed as cultivated fields. No significant changes were observed for the surrounding areas except that the area to the north of the subject property (i.e., between the dirt road and Avenal Cutoff Road) had been developed as an almond orchard.
2002/USGS	1" = 666 ft	The subject property was observed as cultivated field. No significant changes were observed for the surrounding areas except the area to the north of Avenal Cutoff Road had been planted as an orchard.

The earliest aerial photographs provided by EDR date to 1981. However, aerial photographs from 1967 and 1973 were reviewed as a component of the previous Phase I ESA performed by TRC (TRC, 2001). These photographs depict conditions that are similar to those observed in the 1981 aerial photograph (i.e., the general area was observed as agricultural fields). The City of Avenal Water Treatment Plant was first observed on the 1973 photograph.

Review of historical aerial photographs from this and previous environmental investigations indicate that the subject property and surrounding area was used for agricultural purposes since some time prior to 1967. The City of Avenal Water Treatment Plant was constructed in the late 1960s or early 1970s. The subject property consisted of a cultivated field in all reviewed photographs. No structures or improvements were observed on the subject property in any of the aerial photographs reviewed.

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Northeast 148 acres of APN 36-170-032, Avenal, CA

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4.3 HISTORICAL TOPOGRAPHIC MAPS

TRC reviewed available historic USGS Topographic Quadrangle Maps for information regarding past uses of the property. The following maps were obtained from EDR and reviewed for this Phase I ESA:

- 1912; Coalinga, California; Scale 1: 125,000
- 1930; Cima, California; Scale 1:24,000
- 1934; Cima, California; Scale: 1:31,680;
- 1947; Polvadero Gap, California; Scale: 1:50,000
- 1954; Cima, California; Scale: 1:24,000;
- 1963; Cima, California; Scale: 1:24,000;
- 1971; Cima, California; Scale: 1:24,000;
- 1978; Cima, California; Scale: 1:24,000;

No specific details were evident in the 1912 topographic map. On the 1930 and 1934 maps, no development was indicated at the subject and adjoining areas. The Fresno County/Kings County line was illustrated on these maps. The PG&E plant was indicated about 1.5 miles to the southwest of the subject property. Avenal Cutoff Road was indicated on the 1930 map.

The Avenal Cutoff Road was indicated on the 1947 map, as well as the dirt road immediately north of the subject property. No changes were indicated on the 1954 and 1963 maps. The California Aqueduct was indicated on the 1971 and 1978 maps. Copies of the topographic maps are provided in Appendix B.

4.4 SANBORN MAPS

The Sanborn Mapping and Geographic Information Service began producing maps of industrial areas across the U.S.A. for fire insurance purposes in the 1860's. These maps detail property use, construction of buildings and related fire risks. The Sanborn archives were searched by EDR. However, no maps depicting the subject property or surrounding area were reportedly identified. A copy of the EDR Sanborn Map report is provided in Appendix C.

4.5 CITY OF AVENAL BUILDING AND SAFETY DEPARTMENT

TRC contacted the City of Avenal Building Department to inquire about any records for the property. No records pertaining to the subject property were reportedly identified in the City of Avenal Building Department files. Based on the City of Avenal Zoning map, the subject property is located in an area zoned for industrial use.

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Northeast 148 acres of APN 36-170-032, Avenal, CA

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4.6 HISTORICAL CITY DIRECTORIES

Research regarding the availability of historical city directories was ordered from EDR. However, since a street address has not been assigned to any portion of the subject property, no listings would be available.

4.7 PREVIOUS ENVIRONMENTAL REPORTS

TRC reviewed a previous Phase 1 Environmental Site Assessment that was prepared for the subject property:

TRC, 2001: Phase I Environmental Site Assessment for Property at: Northeast ¼ Section 19, Township 21 South, Range 18 East, Avenal, California, August 3.

A portion of this report is provided in Appendix D.

At the time of the site inspection by TRC staff on March 14, 2001, the entire subject property was observed as active agricultural land. TRC indicated that at the time of the site visit, the property was plowed with no vegetation on the majority of the property. No use or storage of hazardous materials was observed. According to interviews performed as a component of this investigation, pesticide use at the property was in accordance with limitations set by the County of Kings Department of the Agricultural Commissioner. The report indicated that according to Mr. Alex Kochergen, pesticide was generally applied by airplane, truck or hand-held sprayer. No mixing or storage of pesticides has reportedly been conducted at the subject property. No other item of environmental significance was found with the subject property.

Historically, the subject property has been used as a cultivated field by the Kochergen family since 1950. Sometime prior to 1950, the subject property is may have been used for livestock grazing.

No regulatory agency file records pertaining to the subject property were identified by any of the regulatory agencies contacted. However, TRC reviewed relevant documents and/or performed interviews for several properties located near or in the general vicinity of the subject property. Additional information regarding these properties is provided in the following paragraphs.

City of Avenal Water Treatment Plant: This plant is located immediately east of the subject property. Chemicals stored are typical for water treatment operations, and included chlorine gas (approximately 6,000 pounds), aluminum sulfate (approximately 9,000 gallons), aluminum chloride hydroxide (approximately 2,100 gallons) and zinc orthophosphate (approximately 1,000 gallons). The water treatment plant treats water obtained from the California Aqueduct for municipal distribution to residents and water users in the City of Avenal. The on-site ponds are used for percolation/evaporation of system backflush water. No releases were reported for this facility. From the description provided in the report, operations are consistent for a small purveyor of drinking water.

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Pacific Gas & Electric (PG&E) Kettleman Compressor Station. TRC also reviewed that files associated with the Pacific Gas & Electric (PG&E) Kettleman Compressor Station, located approximately 1.5 miles southwest of the subject property. TRC updated the records review as a component of this investigation. Details from the updated file review are provided in Section 5.1.2.

The previous Phase 1 ESA concluded that no Recognized Environmental Conditions, as defined by ASTM E-1527, were found for the subject property. No additional investigation or analysis was recommended.

4.8 HISTORICAL USE SUMMARY

The review of the historical records indicated that the general area of the subject property has been used for agricultural purposes. Avenal Cutoff Road appears to have been constructed in the late 1920s. The PG&E Kettleman Compressor Station, located about 1.5 miles to the southwest of the subject property, has been in operation since 1929. The California Aqueduct was first observed in the 1971 topographic map. The City of Avenal Water Treatment Plant, located immediately to the east of the subject property, was constructed in the mid 1970s.

Subject Property: The subject property has been used as a cultivated field by the Kochergen family since 1950. Prior use was indicated as potential sheep grazing land.

5.0 RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Various federal and state regulations require that government agencies maintain records of environmental permits, properties known to be affected by regulated compounds and properties under investigation by the government for alleged violations of hazardous material regulations. TRC contracted EDR, a specialized research firm, to provide an electronic search of such data files with the ASTM-specified minimum distances. A complete copy of the EDR Radius Map report is provided in Appendix E. EDR's report includes a summary table that provides descriptions of the databases searched, the number of sites found in each database, and the approximate distance from each listing to the subject property.

5.1.1 Subject Property

The subject property was not listed on any of the databases reviewed by EDR.

5.1.2 Adjacent Sites

Typically, groundwater would represent the migration medium of potential interest for contaminants that may travel significant distances from an original release source.

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Surrounding properties with known environmental conditions may be of potential concern with regard to contaminant migration if they are located at an upgradient direction with respect to groundwater flow. Releases from sites that are located in cross-gradient or down-gradient directions are less likely to adversely affect the subject property.

Groundwater flow direction is reported in a predominantly western direction. However, local groundwater flow direction may also be influenced by the pumping of agricultural wells. Consequently, the true groundwater flow direction is not known.

Due to the size of the subject property (i.e., approximately 148 acres), the requested database search distances were extended by one mile. The following sites were listed on one or more of the databases searched by EDR:

Kochergen Farms Composting, Avenal Cutoff Road and Omaha Avenue, Avenal. This site is located about $\frac{3}{4}$ of a mile to the west-southwest of the subject property. It was listed on the Landfill database for a permit issued in 2003, allowing composting of green waste material. Based on the type of operation and distance from the subject property, it is unlikely that a release from this site would adversely impact the subject property.

Kochergen Properties: 15485 W. Republic, Huron. According to the EDR report, this site is located approximately 1 mile to the north-northeast of the subject property. This facility was listed on the Landfill and Fresno County CUPA (i.e., local agency) databases. Based on information provided in the EDR report and reviewed as part of the TRC 2001 Phase I ESA report, a permit was issued in 1996 for land-farming of food-related waste (i.e., used grease). The EDR database report indicates that landfarming operations stopped in 2003. Based on the type of material applied to land, and distance from the subject property, it is unlikely that the reported activity would have adversely impacted the subject property.

Other Sites: No other sites were reported in the EDR database. Note that based on our review of the 2001 Phase I ESA, the PG&E Compressor Station is located about 1.5 mile to the southwest of the subject property. This site is regulated by the Regional Water Quality Control Board, and the associated file was reviewed at the RWQCB Fresno office. Information regarding this review is summarized in Section 5.2.2.

Unmapped Sites: Unmapped sites were included in the EDR report. However, it appears that the unmapped sites are not located in the general vicinity of the subject property.

5.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

The subject property is located within the jurisdiction of the environmental agencies listed below. TRC contacted these agencies for regulatory file information pertaining to the subject property:

- Kings County Department of Environmental Health;

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- California Regional Water Quality Control Board, Central Valley Region;
- California EPA Department of Toxic Substances Control;
- San Joaquin Valley Air Pollution Control District; and
- California Department of Conservation, Division of Oil, Gas & Geothermal Resources.

It should be noted that these agencies maintain file records based on the street addresses assigned to the properties. Since no street addresses have been assigned, no records for the subject property were identified in the regulatory agency files. However, regulatory agency records were obtained for other nearby properties which may potential result in adverse impacts to the subject property.

5.2.1 Kings County Department of Environmental Health

The Kings County Department of Environmental Health (Kings County DEH) is the local agency regulating the use of hazardous materials, management of regulated wastes and management of underground storage tanks (USTs) within the area of the subject property. The Kings County DEH maintains records of these sites based on assigned street addresses. Since no street addresses have been assigned to the subject property, no records pertaining to the subject property were identified in the Kings County DEH files.

5.2.2 California Regional Water Quality Control Board

The subject property is within the boundaries and jurisdiction of the California Regional Water Quality Control Board (CRWQCB) – Central Valley Region. TRC contacted the CRWQCB to determine whether the subject property had any discharge permits or had been investigated with regard to potential violations. The CRWQCB keeps records of the sites with respect to the street address. Since no street addresses have been assigned to the subject property, no records pertaining to the subject property were identified in the CRWQCB files.

TRC reviewed records regarding the Pacific Gas & Electric Kettleman Compressor Station located at 34453 Plymouth Avenue (approximately 1.5 miles to the southeast of the subject property). Documents obtained from the CRWQCB and reviewed as a component of this investigation include:

Alisto, 1998. Alisto Engineering. Groundwater Monitoring and Sampling Report, April 1, to June 30, 1998, Pacific Gas and Electric Company Kettleman Compressor Station, July.

Alisto, 1999. Alisto Engineering. Groundwater Monitoring and Sampling Report 1999, Pacific Gas and Electric Company Kettleman Compressor Station, October.

Waste Discharge Requirements 89-063 and 99-145

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Alisto, 2006: Alisto Engineering. Closure Certification Report, - Class II Surface Impoundments, Pacific Gas and Electric Company Kettleman Compressor Station, January.

Miscellaneous correspondence to and from the CRWQCB.

Facility History

PG&E has operated the Kettleman Compressor Station, a natural gas compressor facility, since 1929. Waste water generated at this PG&E site is derived from cooling tower blowdown and site maintenance activities. Maintenance activities typically include descaling copper-alloy cooling water systems of the main heat exchangers, draining of the closed cooling system and equipment degreasing. All oily wastewater is first drained to a sump and then to an oil-water separator prior to discharge to surface impoundments.

Between 1929 and 1989, PG&E operated five unlined surface impoundments for wastewater disposal. These surface impoundments were subsequently closed in 1994. The discharge was not regulated by waste discharge requirements. The report documenting closure of these impoundments was not part of the documents reviewed by TRC at the RWQCB offices as this document had been archived for offsite storage. Available records reviewed indicate that a chromium-based corrosion inhibitor was added to the cooling tower makeup water between 1959 and 1979.

In 1989, four Class II surface impoundments were constructed for management of the wastewater. Each impoundment consisted of surface dimensions of approximately 450 feet by 175 feet and varied in depth from 9 to 15 feet. The impoundments were triple-lined with HDPE geomembranes and included leachate collection and removal systems (LCRS). The 1999 Waste Discharge Requirements associated with these surface impoundments require that groundwater monitoring be performed if leachate is detected in any of the four lysimeters that surround each pond. No leachate has reportedly been observed in any of the lysimeters. Consequently, no groundwater monitoring has been required for these surface impoundments. In 2005, the four surface impoundments were closed in accordance with a CRWQCB approved closure plan.

In 2002, PG&E upgraded the Kettleman facility by replacing the water-cooled reciprocating engines with air-cooled turbines for natural gas compression. This upgrade eliminated the blowdown water from the cooling towers and only a small quantity of process cooling water is reportedly generated at the site. The RWQCB records indicated that the cooling system water is derived from the City of Avenal water supply and no additives are introduced into the water. The RWQCB approved the use of the process cooling water for landscaping irrigation. The RWQCB indicated that this discharge complies with Resolution No. R5-2003-0008 for the category Air Conditioner, Cooling and Elevated Temperature Water Discharged to Land, and therefore, waste discharge requirements for the wastewater discharged are waved. This waiver expires on January 31, 2008 and will require renewal.

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Groundwater Monitoring

The most recent groundwater monitoring events conducted from the PG&E Kettleman Compressor station were conducted in 1998 and 1999. Quarterly groundwater monitoring and sampling was performed between 1994 and 1998 and one time groundwater monitoring was performed in 1999. The monitored wells included two wells (21S/17E/25-F2 and 25-F3) located on PG&E site near the four former unlined impoundments and four offsite monitoring wells identified below:

- 21S/17E/25-D1
- 21S/17E/25-D2 (located immediately to the north of the PG&E station),
- 21S/17E/24N2 (located north of the PG&E station), and
- 21S/17E/30-P1 (located southeast of the PG&E Station).

The groundwater samples obtained from the six groundwater monitoring wells have been analyzed for total chromium and hexavalent chromium. The Alisto 1998 and 1999 reports summarized the groundwater analysis as follows:

“Review of historical analytical data for groundwater samples collected from the PG&E monitoring wells and selected nearby irrigation water supply wells indicated that hexavalent chromium has not been detected above the method detection limit (MDL) of 0.01 mg/L since April 1994. Total chromium has also not been detected above the MDL or the practical quantitation limit (PQL) of 0.02 mg/L since August 1994.”

The RWQCB concurred with this finding and approved the cessation of the groundwater monitoring program (RWQCB, 1998). In the evaluation of the groundwater monitoring data, RWQCB staff indicated that sporadic detections of chromium at or slightly above the detection limit for the onsite wells was mostly associated with a lack of sample filtration. RWQCB staff also attributed the “detection of chromium near the detection limit” for an offsite well to the same rationale.

Additional groundwater data, specifically chromium concentrations, for the general area of the subject property was obtained from:

Duke Energy Avenal, LLC – Application for Certification California Energy Commission, Responses to January 24, 2002 Data Requests, February.

Response to Data Request No. 81, summarizes the groundwater quality with respect to chromium as follows:

“...Based on review of the Regional Water Quality Control Board’s file on the compressor station, chromium contamination has been decreasing since 1988. Since that time, attenuation mechanisms have reduced the concentration of chromium to below detection

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limits. Exhibit 81-1 provides a summary of relevant data obtained from the Regional Water Quality Control Board's file for the compressor station. As shown in Exhibit 81-1, chromium concentrations have been low for the last 8 years or more, and during the last four years, none of the wells monitored have exhibited detectable chromium."

Copies of selected records are provided in Appendices F and G.

5.2.3 California EPA Department of Toxic Substances Control

The California EPA Department of Toxic Substances Control (DTSC) was contacted to determine whether the subject property had any hazardous waste permits or had been investigated by the DTSC. The DTSC maintains records of these sites based on assigned street addresses. Since no street addresses have been assigned to the subject property, no records pertaining to the subject property were identified in the DTSC files.

5.2.4 San Joaquin Valley Air Pollution Control District

The San Joaquin Valley Air Pollution Control District (SJVAPCD) regulates the air quality in the area of the subject property. The SJVAPCD maintains records of these sites based on assigned street addresses. Since no street addresses have been assigned to the subject property, no records pertaining to the subject property were identified in the SJVAPCD files.

5.2.5 California Department of Conservation, Division of Oil, Gas

Numerous areas of Southern California produce oil and gas from commercially viable fields. Over the past century, large numbers of commercial development and wildcat exploration wells have been drilled throughout the area. Improperly drilled or abandoned wells present potential hazards from gas seeps and other concerns may exist due to hazardous material handling during well construction.

TRC searched the California Department of Conservation Division of Oil, Gas & Geothermal Resources (DOGG) website (www.consrv.ca.gov) to determine if petroleum exploration activities had occurred in the vicinity of the property. The property is not located within a known oil field and no oil production wells or dry holes were identified in the vicinity of the subject property (Reference: Wildcat Map W5-1). The oil production-related features were two dry holes located approximately 1 mile to the south of the subject property (within Section 30, T21S, R18E, MDB&M).

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6.0 SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

TRC performed a visual inspection of the subject property on October 2, 2007. Photographs are presented in Appendix H. Mr. Mike Kochergen, the former property owner, was interviewed as part of the site inspection. No quantitative field activities were conducted during the site inspection for the Phase I ESA.

6.2 GENERAL SITE SETTING

The subject property consists of the northern 148 acres of parcel 36-170-032, located immediately south of a dirt road crossing Avenal Cutoff Road. The City of Avenal Water Treatment Plant and the California Aqueduct are located to the east of the property. Orchards are located to the north, south and west of the property. No structures or visible improvements were observed on the subject property.

6.3 OBSERVATIONS

The following are descriptions of the general observations made during the site reconnaissance at the subject property.

6.3.1 General Observation of Buildings and Site Operations

The subject property consists of cultivated land used for row crops. Mr. Kochergen indicated that the organic farming is currently practiced at the property and that this land will be certified as an organic farm in February 2008. The most recent crop harvested at the site was wheat. As of the date of the site inspection, the wheat crop had been harvested and the overall area contained wheat stubble or was overgrown with weeds. No litter was observed at the subject property. No items of environmental concern, such as stained soils, drums or other containers were observed at the time of the site inspection.

6.3.2 Use of Hazardous Substances and Petroleum Products

No use or storage of hazardous materials or petroleum products was observed at the property at the time of the site inspection. In addition, organic farming is practiced at the subject property, and chemical herbicides or pesticides are no longer applied. Historical applications of herbicides or pesticides include aerial spraying and mechanical and hand spray applications.

6.3.3 Waste Management and Disposal

TRC did not observe the generation of regulated waste at the subject property.

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6.3.4 Hazardous Substance Containers

Underground Storage Tanks

No visual evidence (i.e. pipes, vents, pumps, and stains) indicating the presence of USTs on-site was apparent on the subject property. In addition, historical records review and the regulatory records review did not indicate evidence of the current or historical presence of USTs on the subject property.

Aboveground Storage Tanks

No aboveground storage tanks (ASTs) were observed on the subject property, at the time of the site inspection. In addition, no indication of the current or historical presence of ASTs was identified in the historical records reviewed as a component of this investigation.

Clarifiers and Sumps

No clarifiers or sumps were observed on the subject property at the time of the site inspection. In addition, no indications of the current or historical presence of clarifiers or sumps were observed in regulatory files reviewed as a component of this investigation.

6.3.5 Polychlorinated Biphenyls

Polychlorinated biphenyls (PCBs) are industrial chemicals widely used for their heat transfer properties. These substances were used in electrical transformers, hydraulic fluids and electrical equipment such as fluorescent light ballasts. PCBs are stable compounds that persist in the environment after a spill or improper disposal. Since 1978, the use of PCBs has been prohibited in most products. Fluorescent light ballasts manufactured since that time must state that they contain no PCBs. California currently only regulates fluorescent light tube disposal if more than 25 are disposed at any one time.

No electrical equipment suspect of containing PCBs was observed at the subject property at the time of the site inspection.

6.3.6 Asbestos

Asbestos is a naturally occurring fibrous mineral that was extensively used in the past for its insulation qualities. Asbestos fibers may be present in thermal insulation, fireproofing material, vinyl floor tiles, mastic, wallboard, ceiling tiles and a number of other building materials. After asbestos was determined to be carcinogenic, its use was severely restricted in the late 1970's. Building materials are classified as Asbestos Containing Material (ACM) if they contain greater than 1% asbestos. Such material is considered a hazardous material and must be properly disposed when removed.

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No buildings or structures are located at the subject property. Consequently, no suspect ACM building materials were observed on the subject property.

6.3.7 Lead-Based Paint

Since no buildings are located on the subject property, no suspect lead-based paint is present.

6.3.8 Potential Mold Issues

Since no buildings are located on the subject property, potential for mold is not applicable.

6.3.9 Radon

Radon is an odorless, radioactive gas that occurs naturally in soil, rock and building materials and results from the natural radioactive decay of radium and uranium. In outdoor air, concentrations of radon are generally diluted to concentrations that do not pose a significant threat to human health. In enclosed spaces such as homes or offices, and basements, radon may accumulate to concentrations that may pose a human health risk. The concentration of radon indoor air is influenced by factors related to the building construction, ventilation system and concentration of radon in the underlying soil and rock.

The EPA has designated three zones of classification indicating the predicted average indoor screening level of radon per county. Kings County is classified in Zone 3, which indicated a predicted level below 2.0 picoCuries per liter (pCi/l). The EPA has set 4.0 pCi/l as the concentration at which corrective action is recommended. Based on the predicted average concentration, radon is not anticipated to be present at concentrations that warrant additional consideration at the subject property.

6.3.10 Wells

No groundwater monitoring or production wells were identified on the subject property during this investigation.

6.3.11 Other Conditions of Concern

In accord with the ASTM standard, TRC made the following observations:

- TRC observed no evidence of significant staining at the subject property at the time of the site reconnaissance.
- TRC observed no evidence of pits, ponds and/or lagoons at the subject property at the time of the site reconnaissance;
- TRC noted no evidence of strong, pungent or noxious odors on the subject property at the time of the site reconnaissance; and

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- TRC observed no evidence of stressed vegetation at the subject property at the time of the site reconnaissance.

6.4 INTERVIEW WITH OWNER, SITE MANAGER OR OCCUPANTS

For this Phase I ESA, TRC interviewed Mr. Mike Kochergen, of Kochergen Farms, owner of the subject property. Mr. Kochergen indicated that farming operations at the subject property changed to organic type farming, and chemicals are no longer used on the crops. He indicated that organic certification for the subject property will be issued in February 2008.

Mr. Kochergen indicated that the subject property has been farmed by his family since 1950. No storage or mixing of pesticides or herbicides has been conducted at the subject property.

No groundwater wells are located at the subject property. He indicated that Kochergen Farms is allocated canal water for farming operations.

No items of environmental concern were identified during the interview process.

6.5 INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS

No open regulatory issues were identified for the subject property during this Phase 1 ESA. Consequently, no local government officials were interviewed.

6.6 INTERVIEW WITH OTHERS

With the exception of the interview summarized in Section 6.4, no other individuals were interviewed as a component of this investigation.

7.0 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

7.1 SUMMARY

TRC performed this Phase I ESA in conformance with the scope and limitations of ASTM E1527-05 for the subject property comprising the majority of the northeast ¼ of Section 19, Township 21 South, Range 18 East, MDB&M, in the City of Avenal, Kings County, California. The following is a summary of our findings from this and previous investigation activities:

- The subject property is located south of Avenal Cutoff Road, west of the San Luis Canal of the California Aqueduct. The subject property consists of the northeast 148 acres of Kings County Assessor Parcel Number (APN) 36-170-032. The overall parcel encompasses approximately 608 acres within the City of Avenal, California. The subject property is currently zoned by the City of Avenal for industrial use. Surrounding properties consist of farmland (orchards), the City of Avenal Water Treatment Plant, and the California Aqueduct.

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- The review of the historical records indicated that the general area of the subject property has been used for agricultural purposes. Avenal Cutoff Road appears to have been constructed in the late 1920s. The PG&E Kettleman Compressor Station, located about 1.5 miles to the southwest of the subject property, has been in operation since 1929. The California Aqueduct was first observed in 1971 topographic map. The City of Avenal Water Treatment Plant, immediately to the east of the subject property, was constructed in the mid 1970s.

The subject property has been used as a cultivated field by the Kochergen family since 1950. Prior to 1950, the subject property may have been used for livestock grazing.

- The property consists of row crop farmland, operated by Kochergen Farms. According to Mr. Mike Kochergen, the subject property is used as an organic, row crop, farm. The last wheat crop had already been harvested at the time of the site inspection conducted on October 2, 2007. At the time of the site inspection, the overall field consisted of wheat stubble, overgrown with weeds. No buildings or other improvements were observed on the subject property at the time of the site inspection.
- No use or storage of hazardous materials or petroleum products was observed at the property at the time of the site inspection. In addition, organic farming is practiced at the subject property, and chemical herbicides or pesticides are no longer applied.
- TRC did not observe the generation of regulated waste at the subject property.
- No underground storage tanks, aboveground storage tanks, clarifiers or sumps were observed on the subject property at the time of the site inspection. In addition, no evidence of the historical presence of these features was identified in the regulatory agency files reviewed as a component of this investigation.
- The PG&E Kettleman Compressor Station (PG&E site) is located at 34453 Plymouth Avenue, approximately 1.5 miles to the southwest of the subject property. Regulatory agency records reviewed as a component of this investigation indicate that a chromium-based corrosion inhibitor was added to the cooling tower makeup water between 1959 and 1979. Process wastewater, consisting primarily of cooling tower blowdown, was previously discharged to unlined ponds. Groundwater monitoring was performed to evaluate the concentrations of chromium in groundwater associated with the discharge of cooling tower blowdown to the former unlined ponds. In 1998, the CRWQCB approved cessation of the groundwater monitoring program.
- Based on the environmental records reviewed during this investigation, there is a low likelihood that the subject property has been affected by activities and/or releases of hazardous substances from other offsite sources or surrounding properties.

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7.2 CONCLUSIONS AND RECOMMENDATIONS

TRC performed this Phase I ESA in conformance with the scope and limitations of ASTM E1527-05 for the subject property located at located at the northeast ¼ of Section 19, Township 21 South, Range 18 East, MDB&M, in the City of Avenal, Kings County, California. The subject property consists of the northeast 148 acres of Kings County Assessor Parcel Number (APN) 36-170-032. Any exceptions to, or deletions from, this standard are described in **Section 8.0** of this report.

A “recognized environmental condition” (REC) is defined by ASTM as the “presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.” A “historical recognized environmental condition” (HREC) is defined by ASTM as an “environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.”

TRC’s assessment revealed no evidence classified as a REC or a HREC associated with the subject property. No further investigation or analysis is recommended at this time.

8.0 DEVIATIONS

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM E1527-05. There were no exceptions to, or deletions, from this method during performance of the Phase I ESA.

9.0 ADDITIONAL SERVICES

No additional services were provided as a component of this evaluation.

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10.0 REFERENCES

Avenal, City of, Department of Building and Safety, 2007, records review, October 2007.

California Environmental Protection Agency Department of Toxic Substances Control, telecon, September 2007.

California Regional Water Quality Control Board, Central Valley Region, records review, October 2007.

Environmental Data Resources, Incorporated (EDR), Aerial Photography Print Service, Inquiry No. 2041704.5, October 2, 2007.

EDR, 2007, Radius Map with Geotrack Report, Inquiry No. 2041704.1s, October 1, 2007.

EDR, 2006, Sanborn Map Report, Inquiry No. 2041704.3s, October 1, 2007.

EDR, 2006, Topographic Map Report, Inquiry No. 2041704.4, October 1, 2007.

Kings County, Department of Environmental Health, telecon, 2007.

San Joaquin Valley Air Pollution Control District, telecon, 2007.

Alisto, 1999: Groundwater Monitoring and Sampling Report 1999, Pacific Gas and Electric Company Kettleman Compressor Station, October

Alisto, 2006: Closure Certification Report, - Class II Surface Impoundments, Pacific Gas and Electric Company Kettleman Compressor Station, January

Duke Energy Avenal, LLC – Application for Certification California Energy Commission, Responses to January 24, 2002 Data Requests, February

TRC, 2001: Phase I Environmental Site Assessment for Property at: Northeast ¼ Section 19, Township 21 South, Range 18 East, Avenal, California, August 3.

Various referenced reports

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11.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

TRC's program manager for this assignment was Mr. J. Todd Stanford. Mr. Stanford is a Principal Scientist with TRC. Mr. Stanford has been a State of California Registered Environmental Assessor (REA) since 1991, and has more than 18 years of environmental consulting experience. In his career, Mr. Stanford has prepared and reviewed hundreds of environmental due diligence evaluations including Phase I ESAs and Environmental Transaction Screen reports for property transactions. In addition, Mr. Stanford has performed environmental assessment and remediation of several hundred environmentally impacted properties throughout the United States.

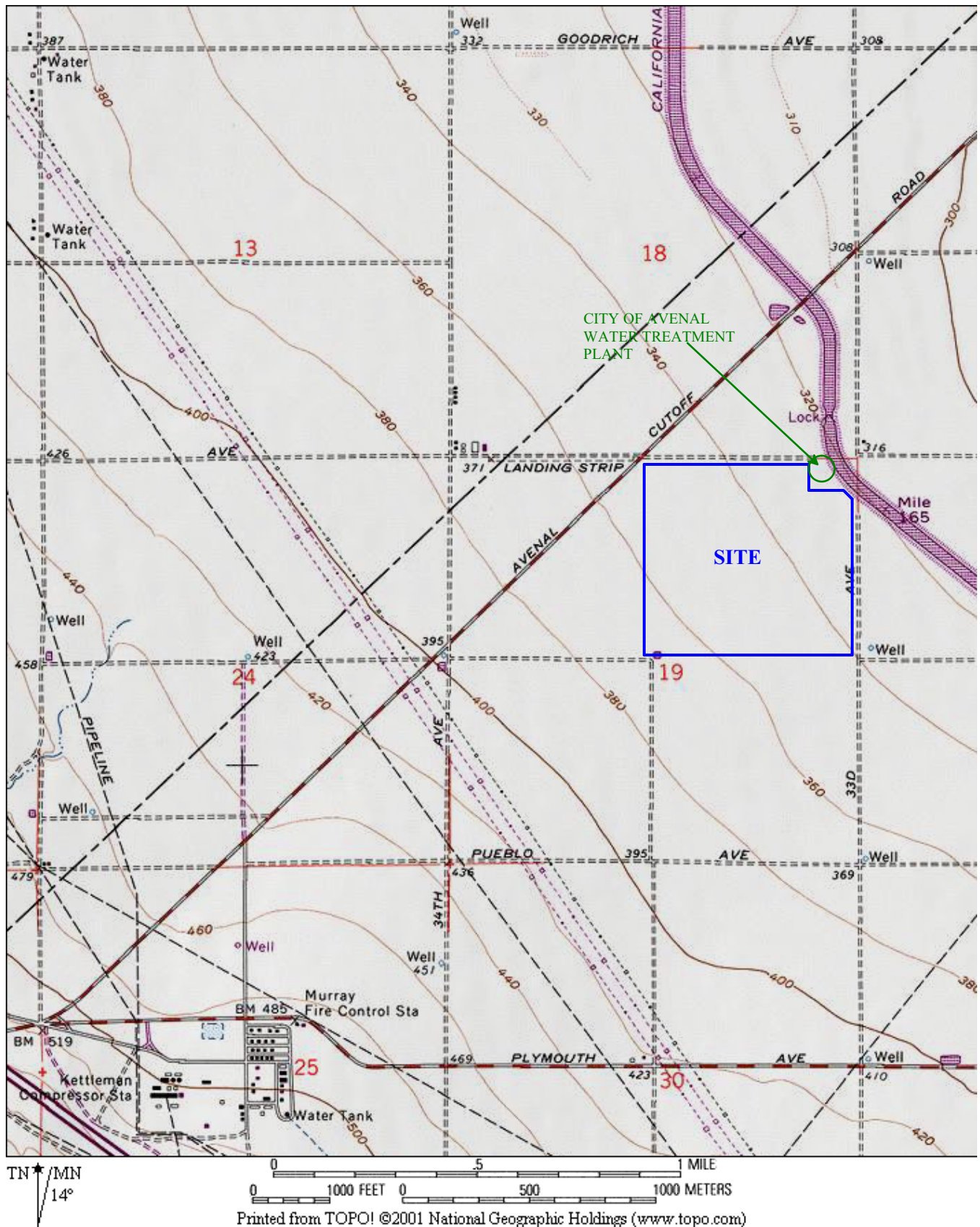
The site inspector and principal report author was Ms. Carole Missirlian, P.E. Ms. Missirlian has 18 years of experience, including performing hundreds of Phase I ESAs, Environmental Transaction Screen reports and similar environmental assessments of commercial, industrial, and residential buildings and of vacant lands. Ms. Missirlian has extensive experience in conducting remedial investigations and providing analysis of site-specific environmental regulatory issues. She is a State of California Professional Engineer (Civil) and a State of California REA.

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FIGURES



Source
USGS Topo Map
La Cima Quadrangle



**Figure 1 - Site Location Map
Federal Power - Avenal Cutoff Rd.
Avenal, California**



9301 Oakdale Ave., Suite 210, Chatsworth, California 91311

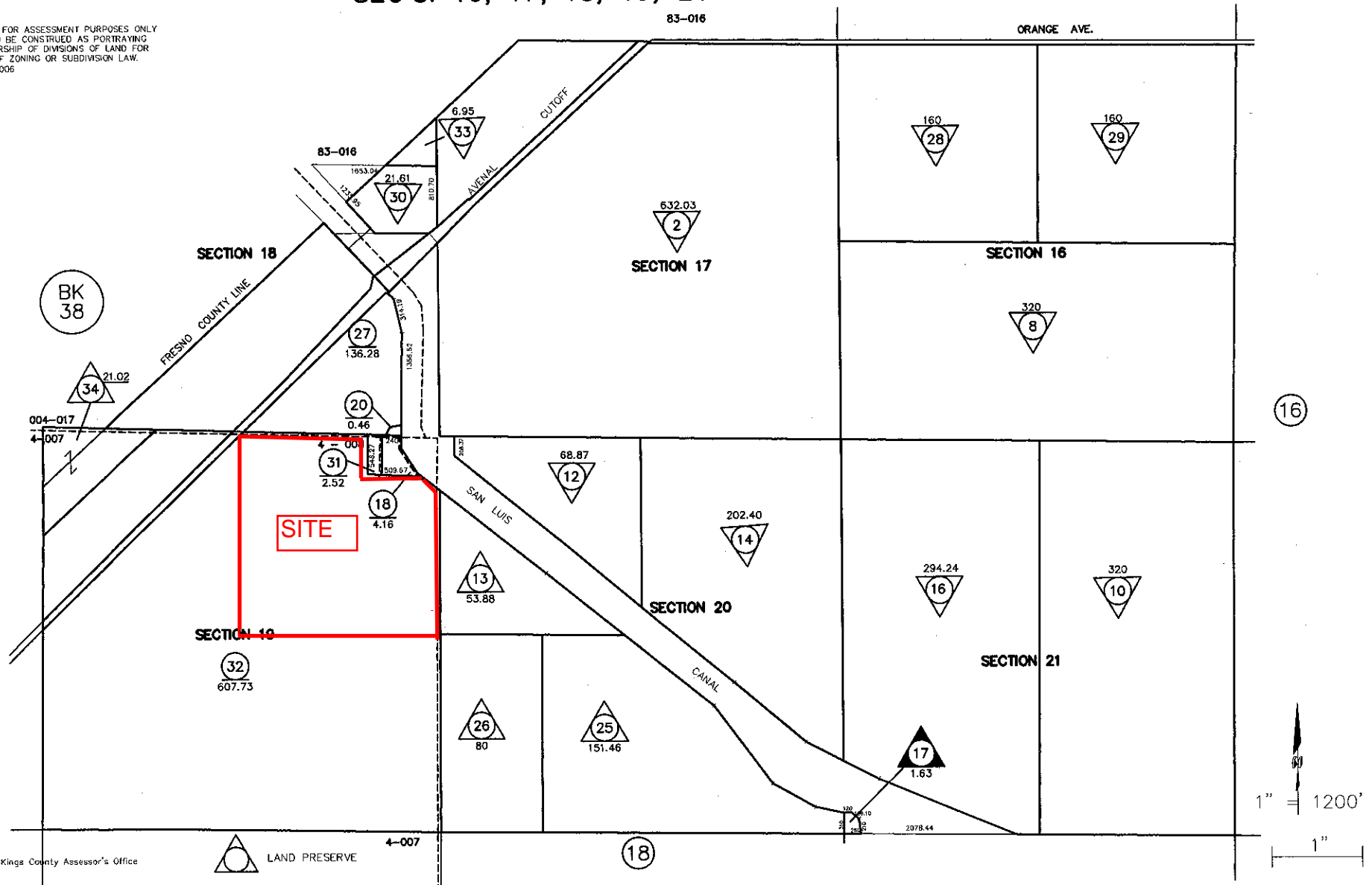
KINGS COUNTY ASSESSOR'S MAP

SEC'S. 16, 17, 18, 19, 20 & 21-21-18

①

36-17

THIS MAP IS FOR ASSESSMENT PURPOSES ONLY
IT IS NOT TO BE CONSTRUED AS PORTRAYING
LEGAL OWNERSHIP OF DIVISIONS OF LAND FOR
PURPOSES OF ZONING OR SUBDIVISION LAW.
DECEMBER 2006



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APPENDIX A

HISTORICAL AERIAL PHOTOGRAPHS



The EDR Aerial Photo Decade Package

**Federal Power - Avenal
Avenal Cutoff
Avenal, CA 93239**

Inquiry Number: 2041704.5

October 02, 2007

The Standard in Environmental Risk Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

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

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography October 02, 2007

Target Property:

Avenal Cutoff

Avenal, CA 93239

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1981	Aerial Photograph. Scale: 1"=690'	Flight Year: 1981	WSA
1994	Aerial Photograph. Scale: 1"=666'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=666'	Flight Year: 2002	USGS



INQUIRY #: 2041704.5

YEAR: 1981

| = 690'





SITE

INQUIRY #: 2041704.5

YEAR: 1994

| = 666'





INQUIRY #: 2041704.5

YEAR: 2002

| = 666'



Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX B

HISTORICAL TOPOGRAPHIC MAPS

EDR Historical Topographic Map Report

**Federal Power - Avenal
Avenal Cutoff
Avenal, CA 93239**

Inquiry Number: 2041704.4

October 02, 2007



The Standard in Environmental Risk Information

**440 Wheelers Farms Rd
Milford, Connecticut 06461**

Nationwide Customer Service

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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

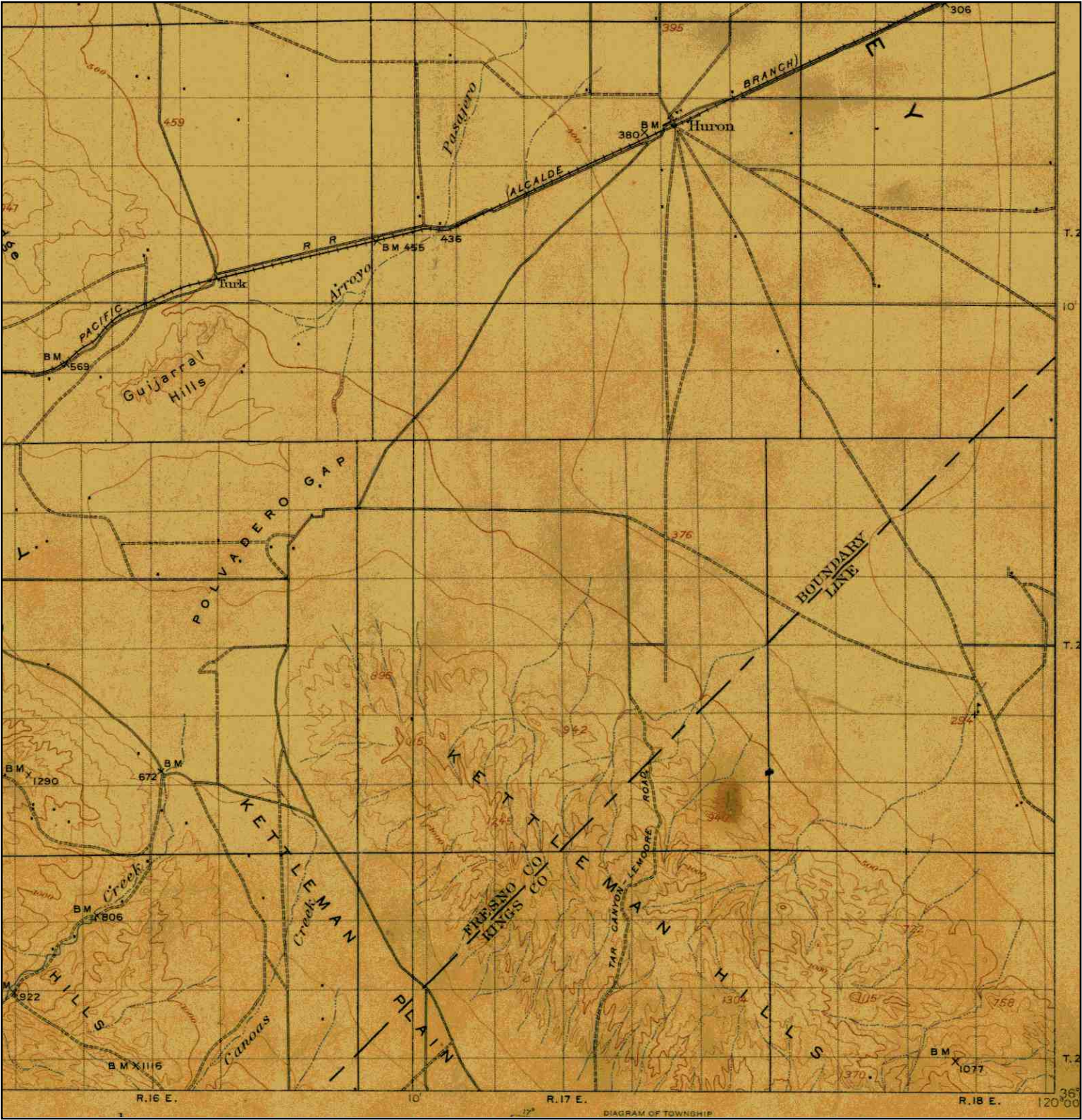
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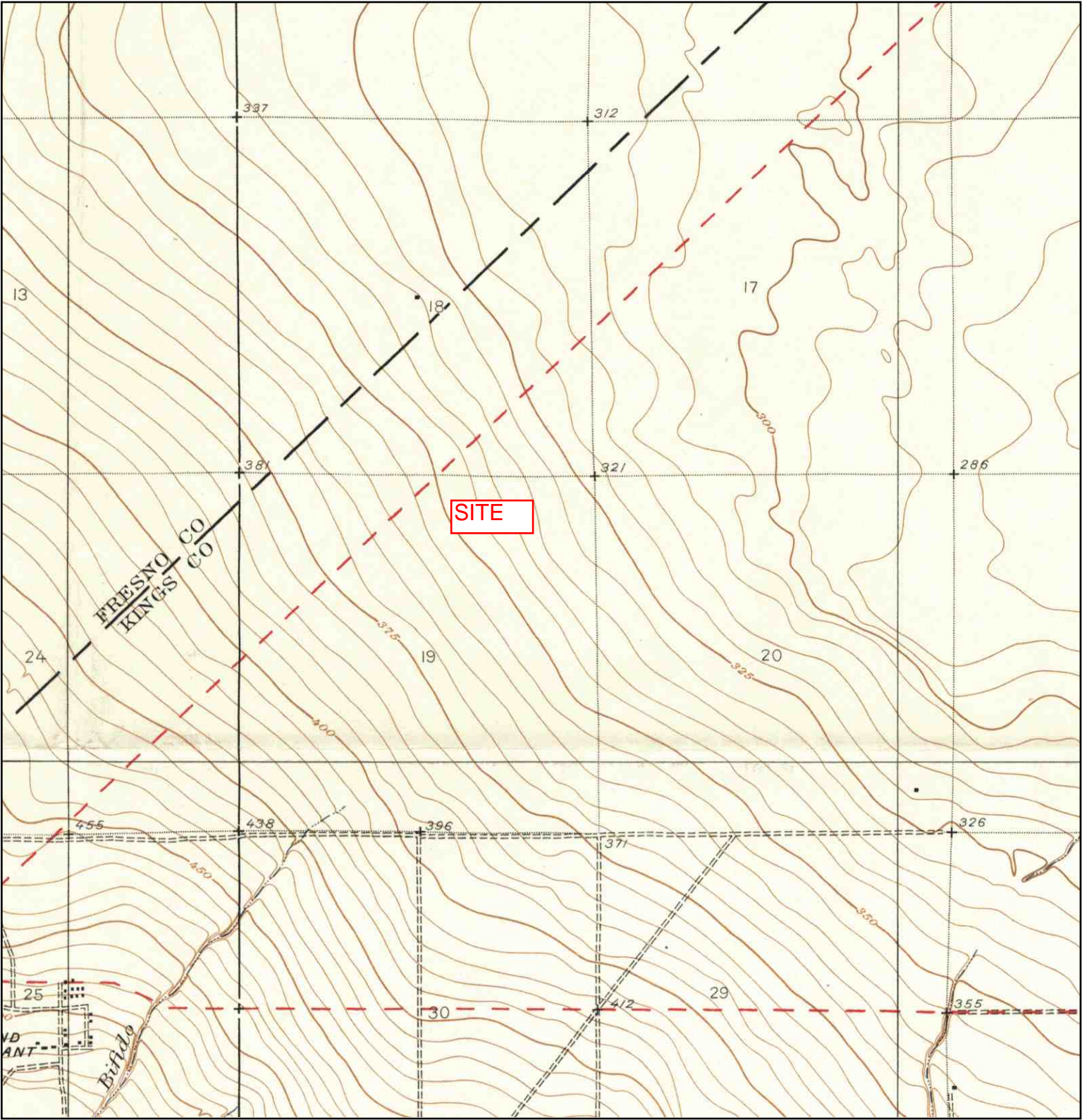
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Historical Topographic Map



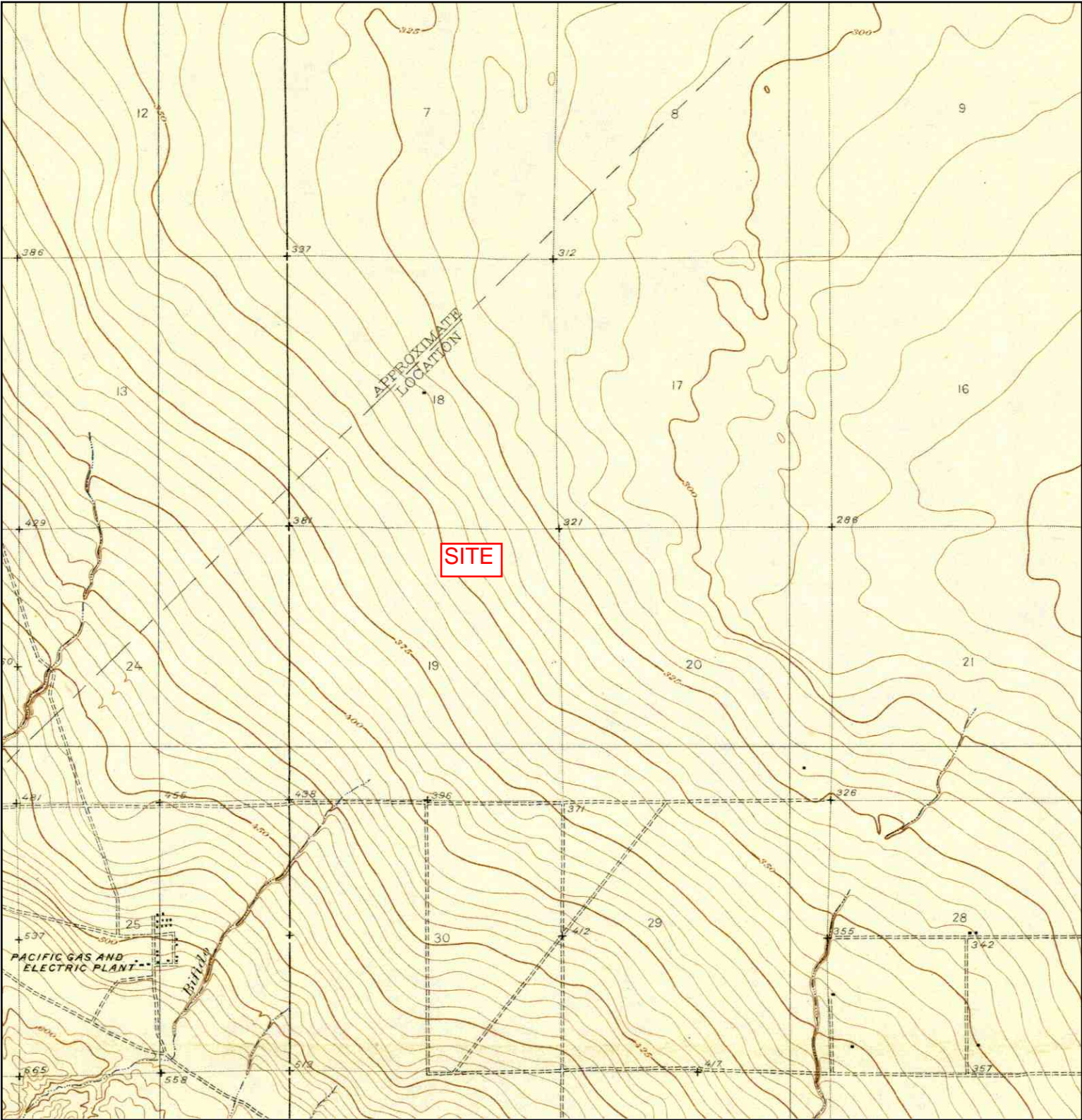
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	NAME: COALINGA	ADDRESS:	Avenal Cutoff	CONTACT:	Carole Missirlian
	MAP YEAR: 1912		Avenal, CA 93239	INQUIRY#:	2041704.4
	SERIES: 30	LAT/LONG:	36.0921 / 120.0598	RESEARCH DATE:	10/02/2007
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Historical Topographic Map



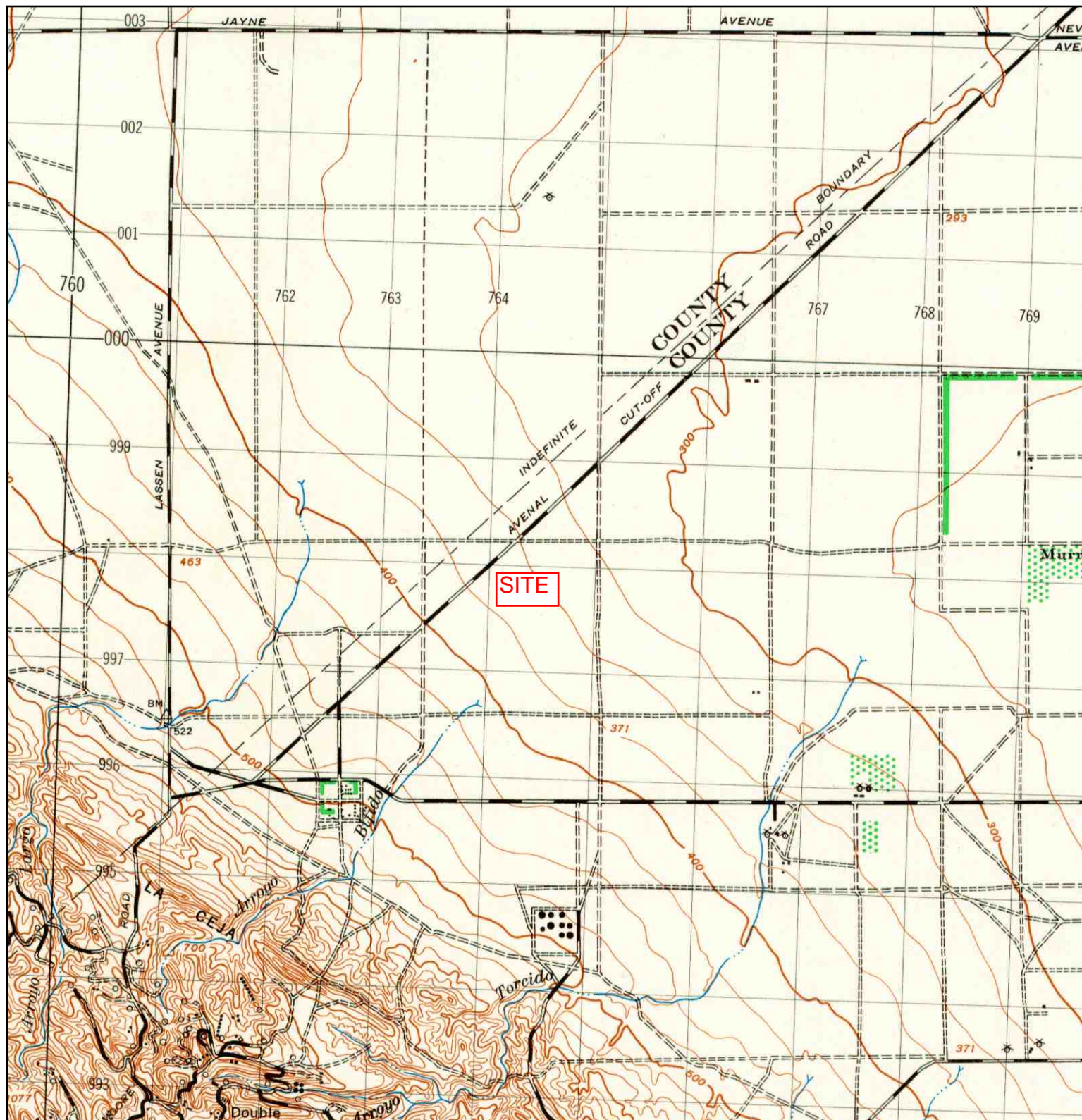
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	NAME: LA CIMA	ADDRESS:	Avenal Cutoff	CONTACT:	Carole Missirlian
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	SERIES: 7.5	LAT/LONG:	36.0921 / 120.0598	RESEARCH DATE:	10/02/2007
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Historical Topographic Map



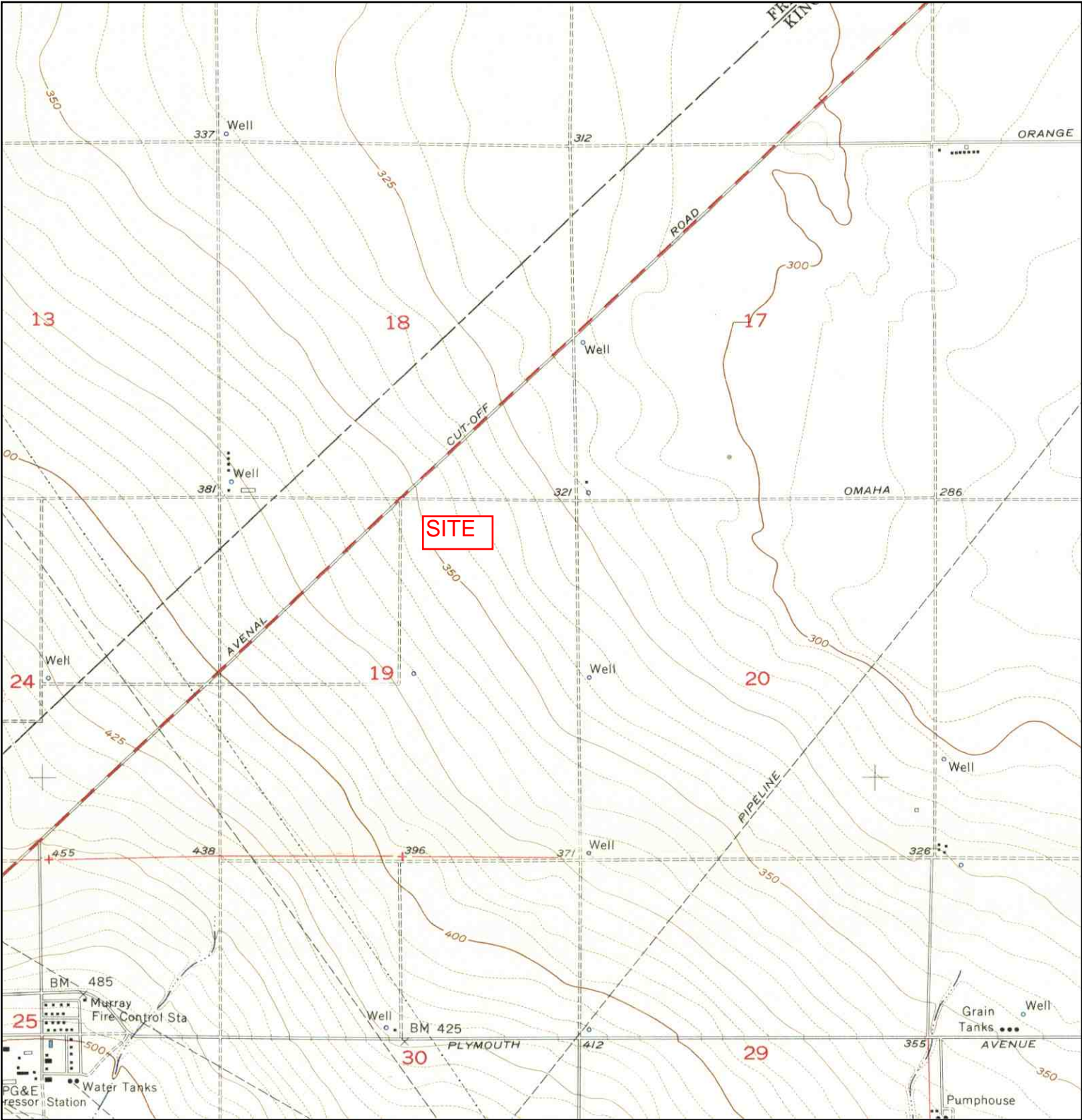
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	NAME: LA CIMA	ADDRESS:	Avenal Cutoff	CONTACT:	Carole Missirlian
	MAP YEAR: 1934		Avenal, CA 93239	INQUIRY#:	2041704.4
	SERIES: 7.5	LAT/LONG:	36.0921 / 120.0598	RESEARCH DATE:	10/02/2007
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Historical Topographic Map



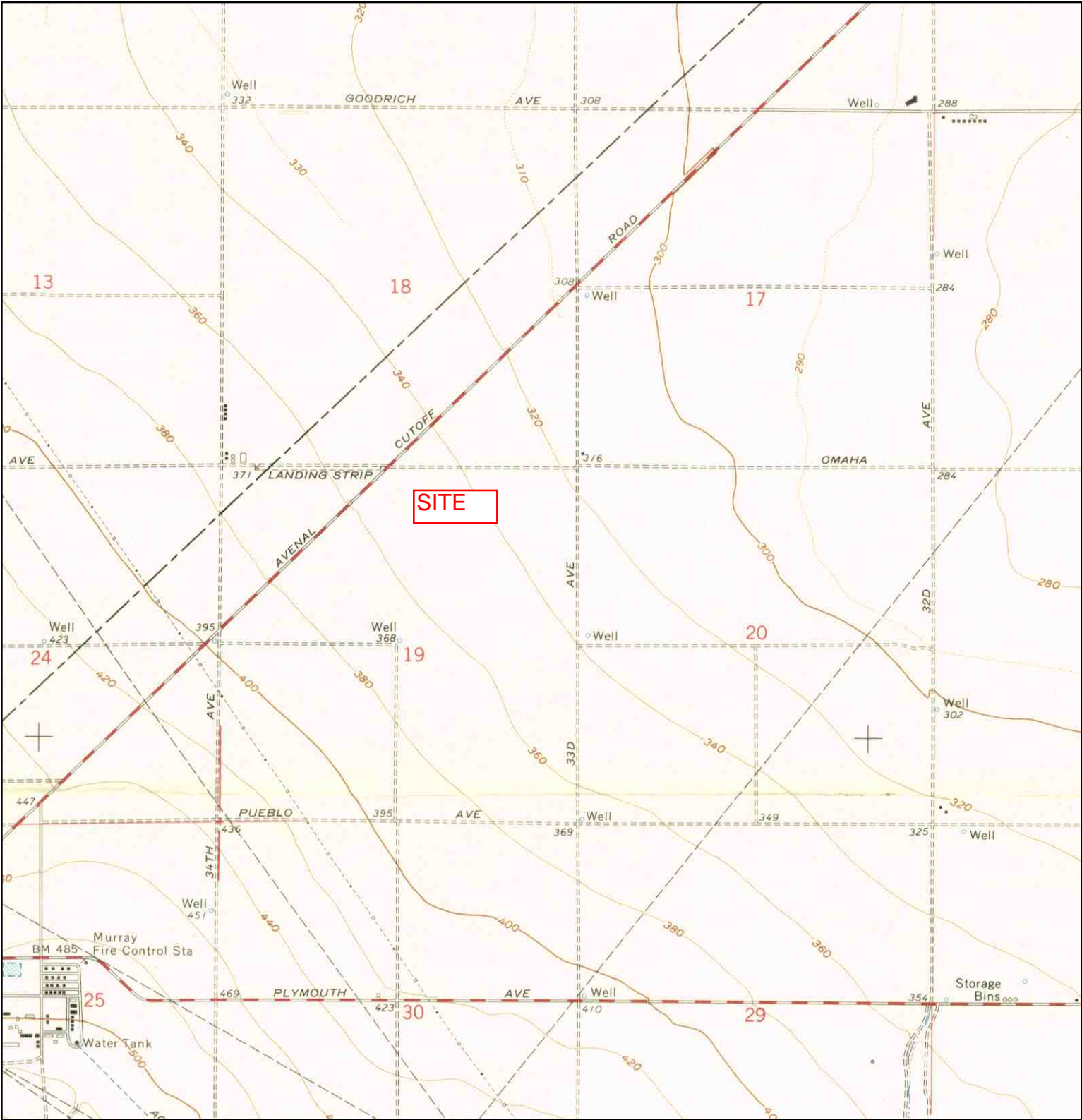
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Historical Topographic Map



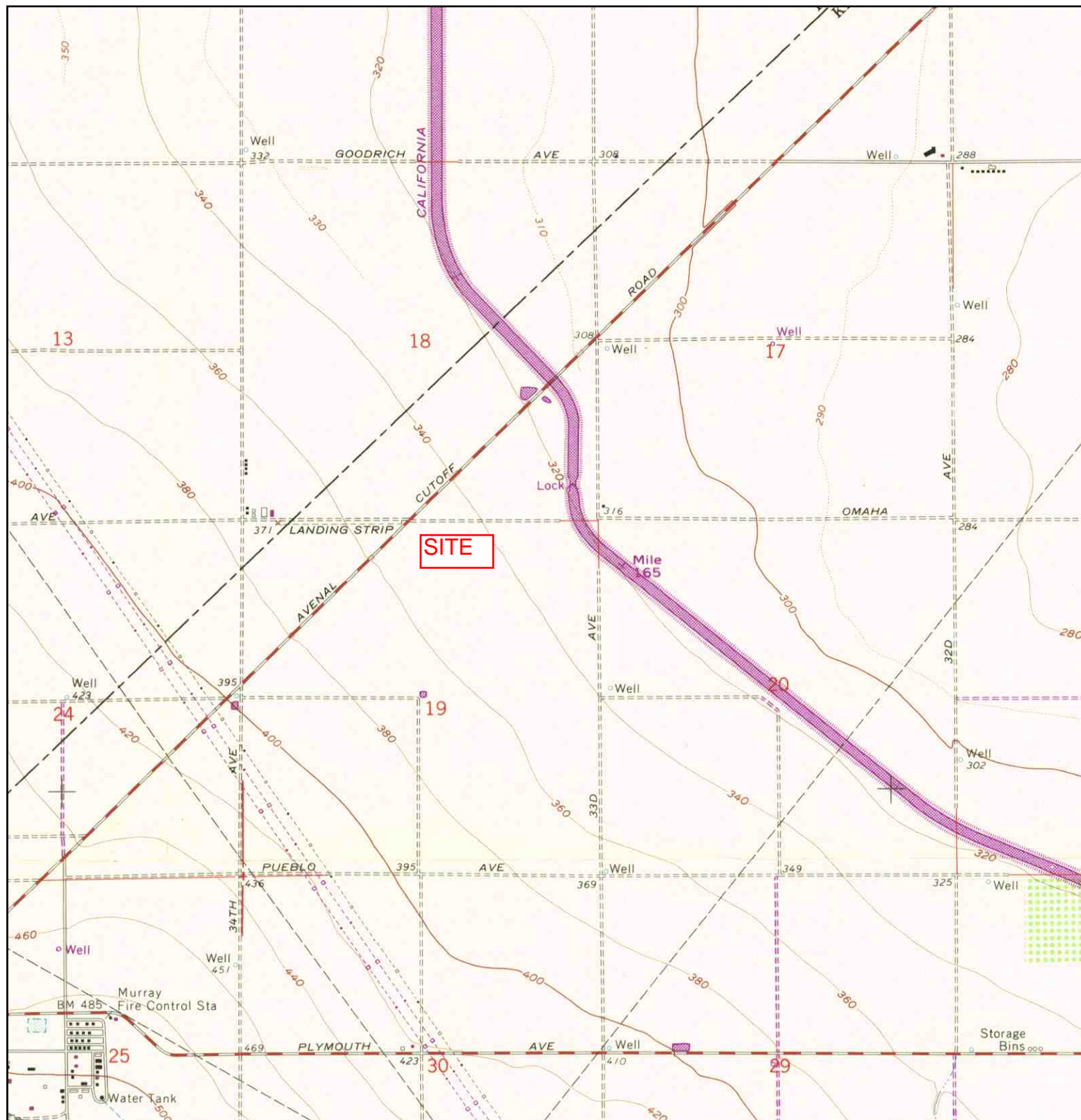
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	MAP YEAR: 1954		Avenal, CA 93239	INQUIRY#:	2041704.4
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	SCALE: 1:24000				

Historical Topographic Map



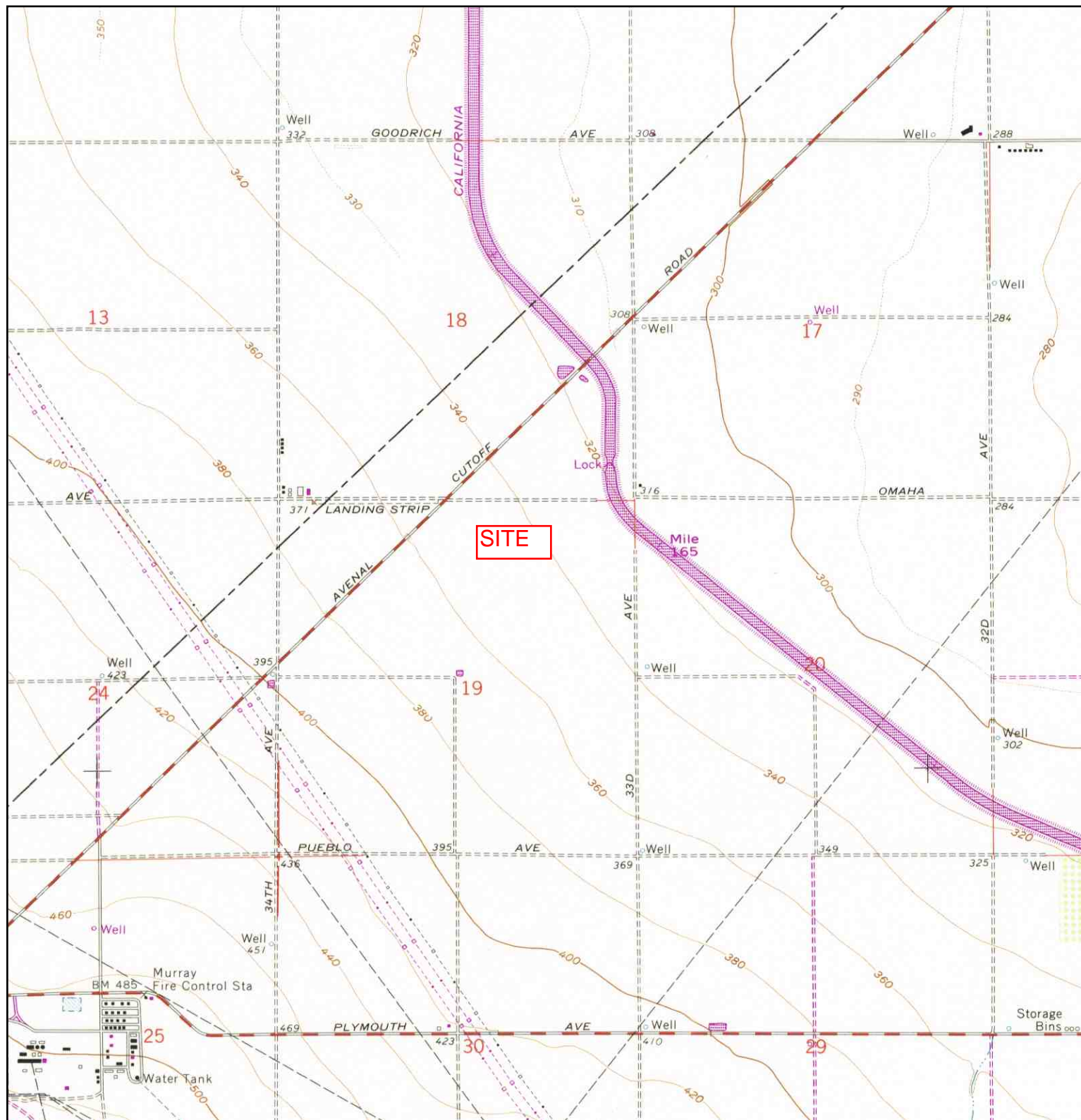
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	SERIES: 7.5	LAT/LONG:	36.0921 / 120.0598	RESEARCH DATE:	10/02/2007
	SCALE: 1:24000				


Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: LA CIMA MAP YEAR: 1971 PHOTOREVISED FROM: 1963 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: Federal Power - Avenal ADDRESS: Avenal Cutoff Avenal, CA 93239 LAT/LONG: 36.0921 / 120.0598</p>	<p>CLIENT: TRC CONTACT: Carole Missirlian INQUIRY#: 2041704.4 RESEARCH DATE: 10/02/2007</p>
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Historical Topographic Map



	TARGET QUAD	SITE NAME:	Federal Power - Avenal	CLIENT:	TRC
	NAME: LA CIMA	ADDRESS:	Avenal Cutoff	CONTACT:	Carole Missirlian
	MAP YEAR: 1978		Avenal, CA 93239	INQUIRY#:	2041704.4
	PHOTOINSPECTED FROM: 1963	LAT/LONG:	36.0921 / 120.0598	RESEARCH DATE:	10/02/2007
	SERIES: 7.5				
	SCALE: 1:24000				

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX C

SANBORN MAP REPORT

Certified Sanborn® Map Report



Sanborn® Library search results
Certification # F5B7-4647-847D

Federal Power - Avenal
Avenal Cutoff
Avenal, CA 93239

Inquiry Number 2041704.3

October 01, 2007



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

Certified Sanborn® Map Report

10/01/07

Site Name:

Federal Power - Avenal
Avenal Cutoff
Avenal, CA 93239

Client Name:

TRC
9301 Oakdale Avenue
Chatsworth, CA 91311

EDR Inquiry # 2041704.3

Contact: Carole Missirlian



EDR® Environmental
Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by TRC were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Federal Power - Avenal
Address: Avenal Cutoff
City, State, Zip: Avenal, CA 93239
Cross Street:
P.O. # NA
Project: 125155 TA06
Certification # F5B7-4647-847D



Sanborn® Library search results
Certification # F5B7-4647-847D

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Total Maps: 0

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX D

**PREVIOUS PHASE 1 ESA REPORT
(TRC, 2001)**

TRC

Customer-Focused Solutions

PHASE I ENVIRONMENTAL SITE ASSESSMENT

August 3, 2001

For Property at:


Northeast ¼ Section 19, Township 21 South, Range 18 East
Avenal, California

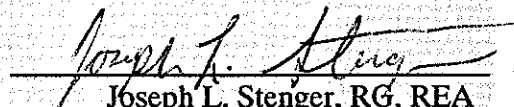
TRC Project No. 31161

Prepared For:

Duke Energy Avenal LLC

By:


Jerome Jaminet, Jr., REA
Project Scientist


Joseph L. Stenger, RG, REA
Program Manager

TRC
888 Dugan Drive
Pismo Beach, California 93449

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

August 3, 2001

For Property at:

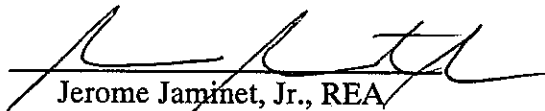
Northeast ¼ Section 19, Township 21 South, Range 18 East
Avenal, California


TRC Project No. 31161

Prepared For:

Duke Energy Avenal LLC

By:


Jerome Jaminet, Jr., REA
Project Scientist


Joseph L. Stenger, RG, REA
Program Manager

TRC
888 Dugan Drive
Pismo Beach, California 93449

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1.0 INTRODUCTION

1.1 STATEMENT OF PURPOSE

This Phase I Environmental Site Assessment (ESA) was performed for the property located in the northeast ¼ of Section 19, Township 21 South, Range 18 East, Avenal, California (subject property). A site location map is presented as Figure 1 in Appendix A. No structures currently exist on the subject property. The property is plowed farmland. This Phase I ESA has been prepared by TRC for the sole use of Duke Energy as part of its application for certification to the State of California Energy Commission. The purpose of this assessment is to identify *recognized environmental conditions* in connection with the property in accordance with the ASTM guideline E 1527-00 and to provide the user with a record of appropriate inquiry into the previous ownership and uses of the property consistent with good commercial and customary practices.

1.2 SCOPE OF INVESTIGATION

This Phase I ESA consisted of the following tasks:

- Performance of a site reconnaissance
- Description of historical site conditions
- Interviews with the key site manager and local government officials
- Review of local municipal records
- Review of environmental databases
- Review of regulatory agency records
- Preparation of a report summarizing our findings, opinions, and conclusions

2.0 SITE DESCRIPTION

2.1 SITE LOCATION AND LEGAL DESCRIPTION

This Phase I ESA was performed for the property shown in Figure 1 and located on the northeast ¼ of Section 19, Township 21 South, Range 18 East, Avenal, California (USGS, 1963). According to the Kings County Tax Assessor's information, the subject property is part of a larger parcel encompassing approximately 607 acres and identified as parcel number 36-170-032 (County of Kings Assessor, 2001).

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

No structures currently exist on the subject property. The property is plowed farmland with irrigation piping laid along the ground surface from offsite wells.

The City of Avenal currently zones the area of the subject property for industrial use (Doughty, 2001; City of Avenal Building Department, 2001). The properties surrounding the subject property to the north, west, and south are used for agricultural purposes. The City of Avenal Water Treatment Plant, agricultural land, and the California Aqueduct border the eastern boundary of the subject property.

2.3 CURRENT USES OF THE PROPERTY/DESCRIPTION OF STRUCTURES, ROADS, OTHER IMPROVEMENTS

No structures currently exist on the subject property. The property is plowed farmland with irrigation piping laid along the ground surface from offsite wells.

2.4 CURRENT USES OF THE ADJOINING PROPERTIES

The properties surrounding the subject property to the north, west, and south are used for agricultural purposes. The City of Avenal Water Treatment Plant, agricultural land, and the California Aqueduct border the eastern boundary of the subject property.

3.0 USER PROVIDED INFORMATION

3.1 TITLE RECORDS

No title records were provided to TRC.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

Information was not provided regarding environmental liens or activity and use limitations associated with the subject property.

3.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Information was not provided regarding a valuation reduction of the subject property due to any environmental issues associated with the subject property.

3.4 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The current owner of the subject property is Mike Kochergen (County of Kings Assessor, 2001).

The subject property is currently operated by Kochergen Farms of Fresno, California, which is jointly owned/managed by Mike Kochergen, John Kochergen, and Alex Kochergen (Kochergen, 2001).

The subject property is currently unoccupied.

3.5 REASON FOR PERFORMING PHASE I ESA

The purpose is to fulfill the requirements related to Duke Energy's application for certification to the California Energy Commission and to document appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary practices, as required to qualify for the innocent landowner defense to CERCLA.

4.0 RECORDS REVIEW

4.1 MANDATORY STANDARD PHYSICAL SETTING SOURCE

The United States Department of the Interior Geological Survey (USGS) 7.5 minute series topographic map of the La Cima quadrangle was reviewed. The subject property has minimal topographic relief and occurs at an elevation of approximately 330 to 360 feet above mean sea level (msl). Surface topography in the vicinity of the subject property slopes gently to the northeast away from the Kettleman Hills approximately 2 miles to the southwest (USGS, 1963).

4.2 DISCRETIONARY AND NON-STANDARD PHYSICAL SETTING SOURCES

According to the Kings County Soil Survey, issued September 1986, the subject property is located on Wasco sandy loam. This land type consists of very deep, well-drained soil located on alluvial fans and typically having 0 to 5 percent slopes. The alluvium is predominantly derived from sandstone. Permeability of this Wasco soil is moderately rapid. Available water capacity is low to moderate. Runoff is medium, and the hazard of water erosion is moderate (Natural Resources Conservation Service [NRCS], 2001).

Based on published geologic literature (*Geologic Map of California – Santa Cruz Sheet, 1959, California Division of Mines and Geology, Olaf P. Jenkins Edition*), soils at the subject property consist of Quaternary alluvial deposits. Recent alluvial fan deposits consist of sediments deposited from streams emerging from highlands surrounding the Great Valley (NRCS, 2001).

Additional physical setting information was obtained from a site assessment report for the Kettleman Compressor Station located approximately 1.3 miles southwest of the site. The subject property is in the southern portion of San Joaquin Valley, within the Great Valley geomorphic province. Soils in the area primarily consist of non-marine sedimentary deposits of the Tulare Formation, primarily alluvial fan with episodic lake deposit layers within the formation. Sediment deposits were received from surrounding mountain ranges throughout the Cenozoic era. During inter-glacial periods of the Pleistocene, glacial-melt water repeatedly formed lakes in the San Joaquin Valley basin. These episodic lakes created a series of lake deposits in the valley consisting of unconsolidated to semi-consolidated clay, silt, sand, and gravel. The most extensive of the regional clay layers is the Corcoran Clay, which lies at approximately 400 feet below sea level beneath Tulare Lake. The Corcoran Clay pinches off in the vicinity of the site and it is not clear what clay layers may exist beneath the subject property (Alisto Engineering, 1995; CRWQCB, 2001).

The subject property is located within the Tulare Lake drainage basin, which is an area of internal drainage within the San Joaquin Valley. Previously, surface waters in this basin drained into the Tulare, Buena Vista, or Kern Lake beds. By the mid-1900s, surface water was diverted away from these lakes due to the construction of the Sierran dams and the San Joaquin Valley canal systems. Groundwater in this region reportedly consists of three distinct aquifer zones. The first is unconfined to semi-confined, made up of Recent, Pleistocene, and possibly Pliocene age alluvial deposits underlain by the Corcoran Clay. The second aquifer is confined beneath the

Corcoran Clay in alluvial lake deposits of Pliocene age and older. The third aquifer is a saline water aquifer contained in marine sediments of middle Pliocene or older age (Alisto Engineering, 1995; CRWQCB, 2001).

Locally, shallow groundwater elevation and groundwater flow information has been collected by the California Department of Water Resources, the Westlands Water District, and Pacific Gas & Electric. Measured elevations and flow directions have varied over time. Elevations have ranged from 50 feet above to 100 feet below mean sea level (msl). An equivalent elevation beneath the subject property would place groundwater at approximately 270 to 460 feet below grade. The flow direction has ranged from northeast to northwest to southwest. These changes may be attributable to groundwater extraction for irrigation purposes and subsequent recharge of the aquifers (Alisto Engineering, 1995; Alisto Engineering, 2001; CRWQCB, 2001).

Kochergen Farms provided results of groundwater sampling of nearby agricultural wells 18-1, 18-4, 24-3 and 24-5. Wells 18-1 and 18-4 are located in Section 18 approximately 3,000 and 1,000 feet north of the subject property, respectively. Wells 24-3 and 24-5 are located in Section 24 approximately 3,000 feet west of the subject property. These wells were sampled in 1991 and 2000 for inorganic compounds typically analyzed for water usability characterization, including certain metals, as well as some organic constituents commonly associated with pesticides. All the organic results were below the laboratory detection limits. The inorganic results indicate concentrations of total dissolved solids (TDS) in the 760 to 890 milligrams per liter (mg/l) range and sulfates in the 240 to 610 mg/l range. The detected concentrations of metals are below the state maximum contaminant levels (MCLs). Chromium was not detected in any of the wells in 2000 and was not analyzed for previously (Kochergen Farms, 2001).

The State of California establishes secondary MCLs as drinking water standards because the identified constituents affect the appearance, taste or odor of the water. California recommends that water districts use a secondary MCL of 500 mg/l for TDS and 250 mg/l for sulfates, but establishes an allowable maximum concentration as 1,000 mg/l for TDS and 500 mg/l for sulfates. For short term exposures, the California secondary MCLs are 1,500 mg/l for TDS and 600 mg/l for sulfates. Concentrations in agricultural wells at Kochergen Farms exceed the recommended MCL for TDS and the maximum MCL for sulfates, but are below the maximum MCL for TDS. Similar results have been found in other area agricultural wells as reported by Alisto Engineering (Alisto Engineering, 1995; CRWQCB, 2001).

4.3 STANDARD ENVIRONMENTAL RECORD SOURCES

Various federal and state regulations require that government agencies maintain records of environmental permits, records of properties impacted by regulated compounds, and records of properties under investigation by the government for alleged violations of hazardous material regulations. EDR, Inc., a specialized research firm, was contracted to provide an electronic search of these data files. A listing of the databases searched is provided in the EDR Radius Map with Geotrack report (Appendix B).

4.3.1 Subject Property

The subject property was not listed on databases reviewed by EDR, Inc. Kochergen Farms is listed in the EDR database report, but these listings describe portions of Kochergen Farms not included within the subject property.

4.3.2 Adjacent Sites

The following sites are adjacent or in proximity to the subject property and were identified on the EDR Radius Map with Geotrack report. Note that the general ground water flow in the vicinity of the subject property is assumed to be potentially towards the northeast, northwest or southwest. This assumption is based upon a review of the sources cited in section 4.2 of this report. Sites reported to the southeast, southwest, and northeast of the subject property are considered potentially upgradient with respect to ground water flow and, therefore, if releases to groundwater from these properties were to occur, they may have the potential to affect the subject property. Sites located in other directions are less likely to potentially affect the property, with respect to groundwater flow.

No sites were mapped by EDR as being near the subject property, but the following sites were identified in the Orphan Summary listing of unmapped sites. Other unmapped sites were reviewed, but do not appear to be located within the vicinity of the subject property. The following discussion also includes data obtained during agency file reviews and interviews.

- Kochergen Property Grease Trap Disposal, 15485 West Republic, Huron, California. This site is located approximately ¼ mile west of the subject property and was reported on the California waste disposal site and the solid waste/landfill databases (EDR, 2001). This site has an active permit to perform land disposal of non-hazardous, food-related waste generated from the pumpout of grease traps at retail establishments and commercial

kitchens. Up to 150,000 gallons per day is permitted to be spread over a 200-acre area. Kochergen Farms annually rotates the area used to spread the waste so that ¾ of the 200 acres is actively farmed at any given time (Kochergen, 2001; Fresno County Environmental Health Department, 2001).

- Kochergen Farms Composting. Kochergen Farms, Avenal, California. This site is located approximately ¼ mile to the west southwest of the subject property and was reported on the solid waste/landfill database. This site is described as a composting facility for "green waste" that has been permitted and whose operating status is planned (EDR, 2001; DEHS, 2001). According to Alex Kochergen, no composting has been performed yet as the land is currently being actively farmed. Mr. Kochergen indicated that they have not yet decided how much composting will be done at this facility (Kochergen, 2001).
- Kettleman Compressor Station. Interstate 5, Avenal, California. This site is located approximately 1.3 miles southwest of the subject property and was reported on the solid waste/landfill database (EDR, 2001). Pacific Gas & Electric (PG&E) owns the station. The Kettleman compressor station is one of a series of PG&E compressor stations used to transport natural gas from out of state sources to service areas in central and northern California through a pipeline. The natural gas discharged from the compressors is cooled through heat exchangers in four wet evaporative cooling towers before transportation through the pipeline (Alisto Engineering, 1995; Fox, 2001).

Blowdown water from the cooling towers was discharged into five unlined surface impoundments at the Kettleman compressor station from 1952 to 1989. From 1952 to 1979, a chemical agent containing chromate and various other substances was added to the cooling water to prevent corrosion and scaling of the heat exchangers. It has been estimated that approximately 11.5 million gallons per year were discharged into the impoundments with an average chromate content of 26 parts per million (ppm), equivalent to approximately 22,500 pounds of chromium. In 1994, the unlined surface impoundments were closed and decommissioned by excavating chromium impacted soils. Blowdown water is currently discharged into four lined surface impoundment regulated under Waste Water Discharge Requirements Order No. 89-063 (Alisto Engineering, 1995).

Groundwater samples have been collected in wells at the Kettleman compressor station in 1965, 1968, 1980 to 1982, 1988, and 1993 to 2000 with concentrations ranging up to 5.9 ppm hexavalent chromium and 6.1 ppm total chromium (in 1988) in one of the two wells currently existing at the station. More recent concentrations in the two onsite wells have generally been below the laboratory detection limit of 0.01 ppm. The only offsite wells known to have been impacted are located north of the compressor station with concentrations up to 0.01 ppm hexavalent chromium and 0.16 total chromium. An agricultural well located between the compressor station and the site was sampled in 1985 and in 1995. In both cases, the total and hexavalent chromium concentrations were below the laboratory detection limit of 0.01 or 0.02 ppm. The current California maximum contaminant level (MCL) for chromium is 0.05 ppm (Alisto Engineering, 1995; Alisto Engineering, 2001).

Other sites have been reported by EDR, Inc., however, based on the available information including distance, location with respect to groundwater flow, and type of contamination found (if applicable), it appears unlikely that the subject property would be affected by the identified releases originating from these properties.

4.4 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

Several agencies were consulted, seeking relevant and accessible records of hazardous materials usage and hazardous materials incidents in the vicinity of the subject property. Entities consulted or records reviewed included:

- County of Kings Division of Environmental Health Services
- County of Kings Department of the Agricultural Commissioner
- Fresno County Environmental Health Department
- California Regional Water Quality Control Board, Central Valley Region
- City of Avenal Planning Department
- City of Avenal Building Department
- City of Avenal Fire Department
- City of Avenal Water Department

4.4.1 County of Kings Division of Environmental Health Services

The County of Kings Division of Environmental Health Services (DEHS) was contacted to inquire about any records for the subject property and surrounding properties. The DEHS made available files for the Kettleman Compressor Station and the Kochergen Farm Composting site (DEHS, 2001). Information provided concerning these sites are discussed in Section 4.3.2 above.

4.4.2 County of Kings Department of the Agricultural Commissioner

The County of Kings Department of the Agricultural Commissioner was contacted to inquire about any records for the subject property and surrounding properties. The Commissioner's office made available files for the entire section 19 of Kochergen Farms from 1996 to 2000 (The subject property comprises most of the northeast ¼ of section 19). Kochergen Farms appears to have used a variety of pesticides and fungicides. Quantities used have ranged from approximately 1,800 gallons and 4,400 pounds applied in 1996 to approximately 575 gallons and 320 pounds applied in 2000 (County of Kings Department of the Agricultural Commissioner, 2001).

4.4.3 Fresno County Environmental Health Department

The Fresno County Environmental Health Department was contacted to inquire about any records for the subject property and surrounding properties. Fresno County made available files for the Kochergen Property Grease Trap Disposal site (Fresno County Environmental Health Department, 2001). Information provided concerning the site is discussed in Section 4.3.2 above.

4.4.4 California Regional Water Quality Control Board, Central Valley Region

The Fresno office of the California Regional Water Quality Control Board (CRWQCB) Central Valley Region was contacted to inquire about any records for the subject property and surrounding properties. The RWQCB made available files for the Kettleman Compressor Station (CRWQCB, 2001). Information provided concerning the site is discussed in Section 4.3.2 above.

4.4.5 City of Avenal Planning Department

The City of Avenal Planning Department was contacted to inquire about any records for the subject property and surrounding properties. The Planning Department indicated that the subject property is zoned as industrial land. No other records were available regarding the subject property (City of Avenal Planning Department, 2001; Doughty, 2001).

4.4.6 City of Avenal Building Department

The City of Avenal Building Department was contacted to inquire about any records for the subject property and surrounding properties. No records were available since the area is agricultural land with no structures (City of Avenal Building Department, 2001).

4.4.7 City of Avenal Fire Department

The City of Avenal Fire Department was contacted to inquire about any records for the subject property and surrounding properties. No records regarding the subject property were available (City of Avenal Fire Department, 2001).

4.4.8 City of Avenal Water Department

The City of Avenal Water Department was contacted to inquire about any records for the subject property and the neighboring water treatment plant. No records regarding the subject property were available, but TRC was allowed to review records related to the water treatment plant and interview Mr. Rick Cunningham, Manager of the treatment plant. The only chemicals that have been stored at the facility are water treatment chemicals. Quantities stored at the site are approximately 6,000 pounds of chlorine gas, 9,000 gallons of aluminum sulfate, 2,100 gallons of aluminum chloride hydroxide and 1,000 gallons of zinc orthophosphate. The water treatment plant processes water collected from the adjacent California Aqueduct and distributes the drinking water to residents of the City of Avenal. No storage of other hazardous materials has taken place although the facility is in the process of adding an emergency standby diesel generator. No releases or spills are known to have occurred at this site. Four onsite impoundments are used to hold water backflushed through the treatment plant lines and equipment. The water is allowed to evaporate and/or percolate into the ground. The treatment plant has reported no problems with water quality (Cunningham, 2001; City of Avenal Water Department, 2001).

4.5 HISTORICAL USE INFORMATION ON THE PROPERTY/ADJOINING PROPERTIES

A review of historical information was performed to identify past uses of the subject property and adjacent properties that may pose an environmental concern. The following sources of information were reviewed or requested during the course of this investigation:

- Aerial Photographs
- USGS 7.5 Minute Topographic Map
- Sanborn Maps
- Zoning/Land Use Records

4.5.1 Aerial Photograph Review

TRC reviewed historical aerial photographs of the subject property and in the vicinity of the subject property (NRCS, 2001; Farm Services Agency [FSA], 2001). Four aerial photographs of the subject site were available for the years 1967 to 1994. The dates of the photographs reviewed and observations on the status of development of the subject site are summarized below:

Phase I Environmental Site Assessment Report

Northeast ¼ Section 19, Township 21 South, Range 18 East, Avenal, California

August 3, 2001

YEAR/SOURCE	SCALE	COMMENTS
1967 Natural Resource Conservation Service	1" = 660 ft	The subject property is farm land. The surrounding area is primarily farm land. The California Aqueduct and Avenal Cutoff road exist adjacent to the subject property. The Kochergen Farms air landing strip and equipment storage buildings exist to the west. The Kettleman Compressor Station exists 1.3 miles southwest of the subject property.
1973 Natural Resource Conservation Service	1" = 660 ft	The City of Avenal Water Treatment Plant has been constructed adjacent to the subject property.
1980 Natural Resource Conservation Service	1" = 660 ft	No significant changes were observed at the subject property or surrounding areas.
1994 Farm Service Agency	1"=660 ft	No significant changes were observed at the subject property or surrounding areas.

The review of the aerial photographs indicated that the subject property was farm land from 1967 to the present date. No structures appear to have been placed at the subject property. During the site reconnaissance, it was observed that the nearby air landing strip associated with Kochergen Farms no longer exists as it has been planted over with trees (NRCS, 2001; FSA, 2001).

4.5.2 USGS Topographic Maps

TRC reviewed available historic USGS Topographic Quadrangle Maps for information regarding past uses of the property (NRCS, 2001).

- 1954, La Cima, California Quadrangle, Scale: 1 : 24,000
- 1963, Photorevised 1971, La Cima, California Quadrangle, Scale: 1 : 24,000

1954 Topo Map

On the 1954 map, no structures are present on the subject property or surrounding properties. The California Aqueduct and the Kochergen Farms air landing strip and equipment storage buildings are not shown. The Kettleman Compressor Station is shown as existing at that time.

1963/1971 Topo Map

On the 1963 map (photorevised 1971), no structures are present on the subject property. The

California Aqueduct and the Kochergen Farms structures/landing strip are shown as existing, but the City of Avenal water treatment plant does not exist. A portion of this Topographic Map is provided as Figure 1 in Appendix A.

4.5.3 Sanborn Maps

No Sanborn maps were available for the vicinity of the subject property.

4.5.4 Zoning/Land Use Records

According to the City of Avenal Planning Department, the subject property and surrounding properties have been used as farm land since prior to incorporation of the City in 1979, except for the City of Avenal Water Treatment Plant. However, the city has zoned this area for industrial uses in anticipation of future development as an industrial park (City of Avenal Planning Department, 2001; Doughty, 2001).

5.0 SITE RECONNAISSANCE

5.1 METHODOLOGY AND LIMITING CONDITIONS

On March 14, 2001, TRC conducted an inspection of the subject property. No limitations on access were encountered other than the large size of the property. TRC personnel drove the perimeter of the subject property and walked over selected portions of the subject property and adjacent properties. The entire subject property was visually inspected from these selected locations.

5.2 GENERAL SITE SETTING

The entire subject property is active agricultural land. At the time of the site visit, the property was plowed with no vegetation on the majority of the property.

The area of the subject property is currently zoned industrial land by the City of Avenal (Doughty, 2001). The properties surrounding the subject property to the north, west and south are used for agricultural purposes. The City of Avenal Water Treatment Plant, California Aqueduct and additional farmland border the subject property to the east.

5.3 EXTERIOR OBSERVATIONS

5.3.1 Current Uses of the Property

The entire subject property is active agricultural land. At the time of the site visit, the property was plowed with no vegetation on the majority of the property. Some surface irrigation piping and a perimeter access road was observed on the subject property.

5.3.2 Past Uses of the Property

After conversations with the owner it was determined that the subject property has been used to farm potatoes, cotton, barley, melons and onions since 1951. Prior to 1951, the subject property was reportedly vacant land with native sage brush and was used as sheep grazing land (Kochergen, 2001).

5.3.3 Hazardous Substances and Petroleum Products Associated with Identified Uses

The only hazardous material usage identified at the subject property is typical agricultural chemicals. According to Alex Kochergen, pesticide usage has been in accordance with limitations set by the County of Kings Department of the Agricultural Commissioner. The only historical pesticide used at the subject property that has since been banned is dichloro-diphenyl-trichloroethane (DDT). DDT was probably used in the 1950s and possibly the 1960s during every third year when cotton was planted, but has not been used since it was banned in 1973. Pesticides have generally been applied by airplane, truck, or hand held sprayer. No mixing or storage of pesticides has been conducted at the subject property (Kochergen, 2001).

5.3.4 Storage Tanks

No evidence of ASTs or Underground Storage Tanks were observed during the on site inspection of the subject property.

5.3.5 Odors

No strong, pungent, or noxious odors were observed during the on site inspection of the subject property.

5.3.6 Pools of Liquid

No standing surface water was observed during the on site inspection of the subject property except in one area which was being irrigated with water.

5.3.7 Drums

No drums were observed during the on site inspection of the subject property.

5.3.8 Hazardous Substance and Petroleum Products Containers

No hazardous substance or petroleum product containers were observed during the on site inspection of the subject property.

5.3.9 Polychlorinated Biphenyls (PCBs)

PCBs are industrial chemicals widely used in industry for their heat transfer properties. These substances were used in electrical transformers, hydraulic fluids, as well as, electrical equipment such as fluorescent light ballasts. PCBs are stable compounds that persist in the environment after a spill or improper disposal. They have also been determined to be carcinogenic substances. However, since 1978, the use of PCBs has been prohibited in most products.

No electrical equipment or other equipment suspected to contain PCBs was observed during the on site inspection of the subject property.

5.3.10 Pits, Ponds, Lagoons

No pits, ponds, or lagoons were observed during the on site inspection of the subject property. The City of Avenal Water Treatment Plant has four bermed ponds on its property, which it uses to hold excess treated water generated during backflushing of lines and equipment (Cunningham, 2001).

5.3.11 Stained Soil or Pavement

No areas of stained soil or pavement were observed during the on site inspection of the subject property.

5.3.12 Stressed Vegetation

No areas of stressed vegetation were observed during the on site inspection of the subject property.

5.3.13 Solid Waste

No areas of solid waste disposal were observed during the on site inspection of the subject property.

5.3.14 Waste Water

No wastewater was observed during the on site inspection of the subject property.

5.3.15 Wells

No wells were observed on the subject property during the on site inspection. However, wells for irrigation purposes were observed on adjacent properties. Two groundwater monitoring wells for assessment of the chromium release from the Kettleman Compressor Station were observed approximately 1 mile southwest of the subject property. Wells identified during the site reconnaissance and from records related to the Kettleman Compressor Station are presented on Figure 1.

5.3.16 Septic Systems

No septic systems were observed during the on site inspection of the subject property.

6.0 INTERVIEWS

6.1 INTERVIEW WITH SITE MANAGER

For this Phase I ESA, an interview was conducted with the key site manager, Alex Kochergen, part owner of Kochergen Farms (Kochergen, 2001). Highlights of the interview are summarized below.

- Mr. Kochergen has actively overseen all farming activities on the subject property since 1951.
- Mr. Kochergen has no knowledge of any hazardous material usage other than typical agricultural chemicals at the subject property. Pesticides were applied in support of farming, but were not otherwise stored, mixed or handled at the subject property.
- Mr. Kochergen has no knowledge of any spills, releases or incidents occurring on the subject property or neighboring properties.
- Mr. Kochergen has no knowledge of any groundwater quality problems at the subject property. A nearby Kochergen Farms well to the north was used during droughts in the 1970s and early 1990s to pump groundwater into the California Aqueduct in order to supplement water supplies.
- Kochergen Farms has an equipment storage area and residence located approximately ½ mile to the west. Minimal hazardous materials are stored and/or used. No releases or other spills have occurred at this facility. A former air landing strip in the same area was purely for personal use by the Kochergens and never operated as a commercial airfield. The former air strip has been planted over with trees.

6.2 INTERVIEWS WITH COUNTY LOCAL GOVERNMENT OFFICIALS

For this Phase I ESA, interviews were conducted with the following county and local government officials:

- Personnel from the City of Avenal Planning Department – Jim Doughty (Doughty, 2001)
- Personnel from the City of Avenal Water Treatment Plant – Rick Cunningham (Cunningham, 2001)

Information obtained from these interviews is provided in section 4.0.

6.3 INTERVIEWS WITH STATE GOVERNMENT OFFICIALS

For this Phase I ESA, an interview was conducted with Mr. Terry Fox, Associate Engineering Geologist, California Regional Water Quality Control Board, Central Valley Region (Fox, 2001). Mr. Fox is the agency case worker providing oversight for the unauthorized release case from the Kettleman Compressor Station. Mr. Fox indicated that he had just recently taken over this case and was still becoming familiar with the case. It is not clear what further assessment, if any, will be performed. The information provided by Mr. Fox is discussed in section 4.3.2 of this report.

7.0 FINDINGS

TRC has performed a Phase I ESA in conformance with the ASTM E 1527-00 of the subject property located in the northeast ¼ of Section 19, Township 21 South, Range 18 East, Avenal, Kings County, California. The subject property has been farmed since 1951. The area has been zoned industrial by the City of Avenal in anticipation of future development as an industrial park. All adjacent properties are used for farming or as a water treatment plant.

This assessment has revealed no evidence classified as a known, suspect, or *recognized environmental condition* associated with the subject property except for the following:

- Chromium from historical surface impoundments at the Kettleman Compressor Station has impacted groundwater approximately 1.3 miles southwest of the subject property. Available groundwater sampling data indicate that these impacts do not appear to have affected agricultural wells located between the subject property and the compressor station. Groundwater flow has varied with time, but appears to have been toward the northwest to southwest recently.
- Pesticides, including historical use of DDT, have been used at the subject property in support of farming activities from 1951 to the present. However, no evidence of mixing operations, storage or other large-scale usage of pesticides at the subject property was identified.
- The City of Avenal Water Treatment Plant stores up to 6,000 pounds of chlorine gas as well as large quantities of other water treatment chemicals in above ground storage tanks. No known spills or accidental releases of these chemicals have been identified. Water treated by these chemicals is occasionally backflushed from lines and equipment into ponds on the water treatment plant property. The water in the ponds is allowed to naturally evaporate and/or percolate into the ground.

- Kochergen Farms operates an equipment storage facility and a grease trap disposal area within 1 mile west of the subject property. A composting facility is permitted approximately ¼ mile west southwest of the subject property, but has not yet operated.

8.0 OPINIONS

The findings listed in Section 7.0 and the determination as to whether or not these findings are considered *recognized environmental conditions* as classified by the ASTM guideline E 1527-00 are discussed below:

- The actual lateral and vertical extent of chromium impacts to groundwater around the compressor station has not been well assessed due to deep depth of groundwater and the availability of irrigation and drinking water wells in the area to provide some lateral assessment. The variability in measured groundwater flow direction from northeast to northwest to southwest also complicates the location and extent of chromium impacts to groundwater. However, the available data, including the distance from the subject site, recent direction of groundwater flow, and previous groundwater sampling results, suggests it is unlikely that identified chromium impacts at the compressor station have migrated below the subject property or pose a foreseeable threat of doing so. Therefore, this is not a *recognized environmental condition* as classified by the ASTM guideline E 1527-00.
- Regulatory agencies have generally not required assessment or remediation of properties where the historical use of pesticides was solely in support of farming activities and did not involve other activities such as storage, mixing or accidental releases, which have a greater potential to produce elevated concentrations in the subsurface. There is no evidence of a spill or accidental release of pesticides at the subject property. There is no evidence of storage, handling or other uses of pesticides that have the potential to cause significant concentrations in the subsurface at the subject property. This assessment identified no evidence to suggest that concentrations of pesticides above that of typical farmland would be encountered at the subject property. Therefore, this is not a *recognized environmental condition* as classified by the ASTM guideline E 1527-00.
- Based on the lack of any identified releases from the adjacent City of Avenal water treatment facility, the storage of large quantities of water treatment chemicals does not appear likely to have caused subsurface impacts at the subject property. The occasional backflushing of treated drinking water into surface ponds also appears unlikely to have caused subsurface impacts at the subject property. This is not a *recognized environmental condition* as classified by the ASTM guideline E 1527-00.
- Based on the distance from the site and description of activities associated with the disposal of grease trap pumpouts and Kochergen Farms equipment storage area (i.e. minimal to no hazardous material usage), it appears unlikely that these activities would

affect subsurface conditions at the subject property. This is not a *recognized environmental condition* as classified by the ASTM guideline E 1527-00.

9.0 CONCLUSIONS

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-00 of the subject property located in the northeast ¼ of Section 19, Township 21 South, Range 18 East, Avenal, Kings County, California, the *property*. Any exceptions to, or deviations from, this practice are described in Section 10.0 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the property.

10.0 DEVIATIONS

TRC has performed a Phase I ESA of the *property* in conformance with the scope and limitations of ASTM Practice E 1527-00.

11.0 REFERENCES

- Alisto Engineering Group, 1995, Preliminary Hydrogeologic Assessment, Pacific Gas and Electric Company, Kettleman Compressor Station, Avenal, California, Alisto Project No. 10-188-08-006, December 13, 1995.
- Alisto Engineering Group, 2001, Groundwater Monitoring and Sampling Report, December 2000, Pacific Gas and Electric Company, Kettleman Compressor Station, Avenal, California, Alisto Project No. 10-188-23-001, January 2001.
- California Regional Water Quality Control Board (CRWQCB), 2001, Central Valley Region, 3614 East Ashlan Avenue, Fresno, California 93726, (559) 445-5116, review of files for PG&E Compressor Station and Water Quality Plan for Tulare Lake Basin, March 15, 2001.
- City of Avenal Building Department, 2001, Highway 269, Avenal, California, (559) 386-5782, phone interview of staff regarding potential records of building permits for site, March 5, 2001.
- City of Avenal Fire Department, 2001, Highway 269, Avenal, California, (559) 386-5555, phone interview of staff regarding potential records of incidents, inspections or permits for site, March 5, 2001.

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Northeast ¼ Section 19, Township 21 South, Range 18 East, Avenal, California

August 3, 2001

City of Avenal Planning Department, 2001, Highway 269, Avenal, California, (559) 386-5782, phone interview of staff regarding potential records of building permits for site, March 5, 2001.

City of Avenal Water Department, 2001, Avenal Cutoff, Avenal, California, (559) 386-0868, phone interview of staff regarding potential records for water treatment plant, March 5, 2001.

County of Kings Assessor, 2001, 680 North Campus Drive, Suite B, Hanford, California, (559) 582-3211, review of pesticide usage records for Kochergen Farms, March 14, 2001.

County of Kings Department of the Agricultural Commissioner, 2001, 680 North Campus Drive, Suite B, Hanford, California, (559) 582-3211, review of pesticide usage records for Kochergen Farms, March 14, 2001.

Cunningham, Rick, 2001, Manager, City of Avenal Water Treatment Plant, Avenal Cutoff, Avenal, California, (559) 386-0868, onsite interview regarding plant operations, history and hazardous material use, March 14, 2001.

Division of Environmental Health Services (DEHS), 2001, County of Kings Health Department, 330 Campus Drive, Hanford, California 93230, (559) 584-1411, review of files for PG&E Compressor Station, Kochergen Farms Composting, Mustang Hill Landfill, Milham Avenue Illegal Disposal site, and Avenal Landfill, March 15, 2001.

Doughty, Jim, 2001, Director, Planning Department, City of Avenal, California, (559) 386-5766, phone interview regarding zoning, building permits and planning information, March 6, 2001.

Environmental Data Resources, Inc. (EDR), 2001, EDR-Radius Map with Geocheck report, Vacant, Avenal Cutoff, Avenal, California, (800) 352-0050, February 28, 2001.

Farm Services Agency (FSA), 2001, United States Department of Agriculture, 680 North Campus Drive, Hanford, California, (559) 582-1071, review of aerial photograph, March 14, 2001.

Fox, Terry, 2001, Associate Engineering Geologist, CRWQCB, Central Valley Region, 3614 East Ashlan Avenue, Fresno, California 93726, (559) 445-5116, interview regarding PG&E Kettleman Station, March 15, 2001.

Fresno County Environmental Health Department, 2001, Fresno, California, review of files for Huron Disposal site and Kochergen Grease Trap Disposal site, March 15, 2001.

Kochergen, Alex, 2001, Owner, Kochergen Farms, P.O. Box 9352, Fresno, California 93791, (209) 277-8068, interviewed onsite regarding current and historical site use, March 14, 2001.

Phase I Environmental Site Assessment Report

Northeast ¼ Section 19, Township 21 South, Range 18 East, Avenal, California

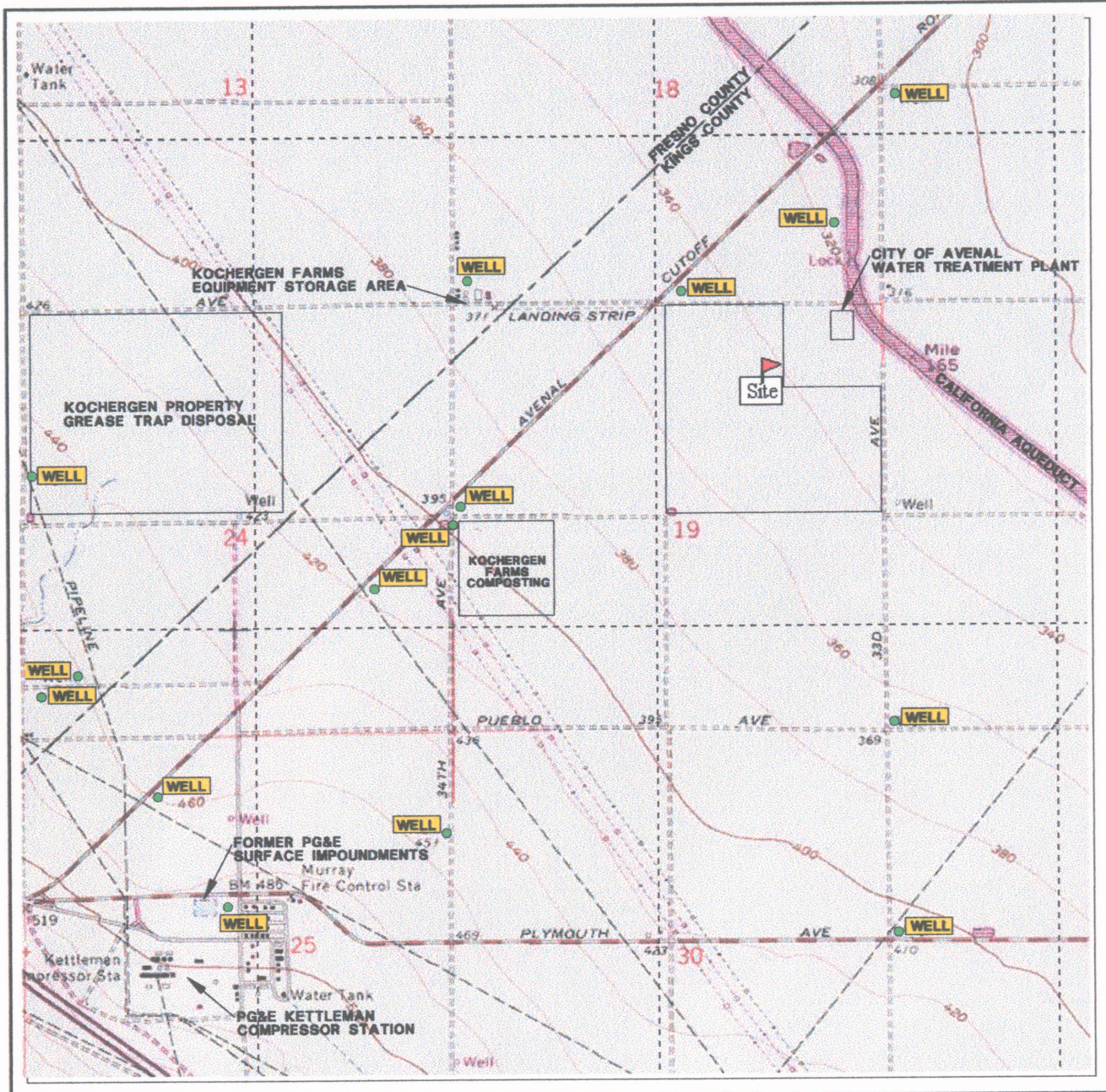
August 3, 2001

Kochergen Farms, 2001, review of laboratory analysis of water samples collected from agricultural wells 18-1, 18-4, 24-3 and 24-5 for sample dates March 5, 1991; April 4, 1991; May 20, 1991; January 4 and 7, 2000; and February 7 and 10, 2000, reviewed on March 15, 2001.

Natural Resources Conservation Service, 2001, United States Department of Agriculture, 680 North Campus Drive, Hanford, California, (559) 582-1071, review of aerial photographs, topographic maps, and soil and geologic publications, March 14, 2001.

United States Geologic Survey, 1963, Topographic map, La Cima quadrangle, California, 7.5 minute series, 1963, photorevised 1971.

APPENDIX A
FIGURE



0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000

NOTES:

Highlighted wells were either observed by TRC during the site reconnaissance or are used to monitor groundwater impacts from former PG&E surface impoundments. All dimensions and locations are estimated.

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
La Cima Quadrangles



INDEX MAP

Duke Avenal
Avenal Cutoff
Avenal, California

FIGURE 1

TRC

APPENDIX B
EDR DATABASE REPORT



The EDR-Radius Map with GeoCheck®

**Vacant
Avenal Cutoff
Avenal, CA 93239**

Inquiry Number: 0600813.1r

February 28, 2001

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**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

AVENAL CUTOFF
AVENAL, CA 93239

COORDINATES

Latitude (North): 36.092100 - 36° 5' 31.6"
 Longitude (West): 120.059800 - 120° 3' 35.3"
 Universal Tranverse Mercator: Zone 10
 UTM X (Meters): 764726.9
 UTM Y (Meters): 3997966.2

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2436120-A1 LA CIMA, CA
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

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

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPL	National Priority List
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-LQG	Resource Conservation and Recovery Information System
RCRIS-SQG	Resource Conservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

AWP..... AWP
Cal-Sites..... Cal-Sites
CHMIRS..... California Hazardous Material Incident Report System

EXECUTIVE SUMMARY

Cortese..... Cortese
Notify 65..... Notify 65
Toxic Pits..... Toxic Pits
SWF/LF..... State Landfill
WMUDS/SWAT..... WMUDS/SWAT
LUST..... Leaking Underground Storage Tank Information System
UST..... Hazardous Substance Storage Container Database
CA BOND EXP. PLAN..... CA Bond Exp. Plan
CA FID UST..... CA FID UST

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... CONSENT
ROD..... ROD
Delisted NPL..... NPL Deletions
FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... NPL Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... Ffra / Tscs Tracking System

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Petroleum Storage Tank Facilities
CA WDS..... Waste Discharge System
CA SLIC..... CA SLIC regions.
HAZNET..... HAZNET

EDR PROPRIETARY DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

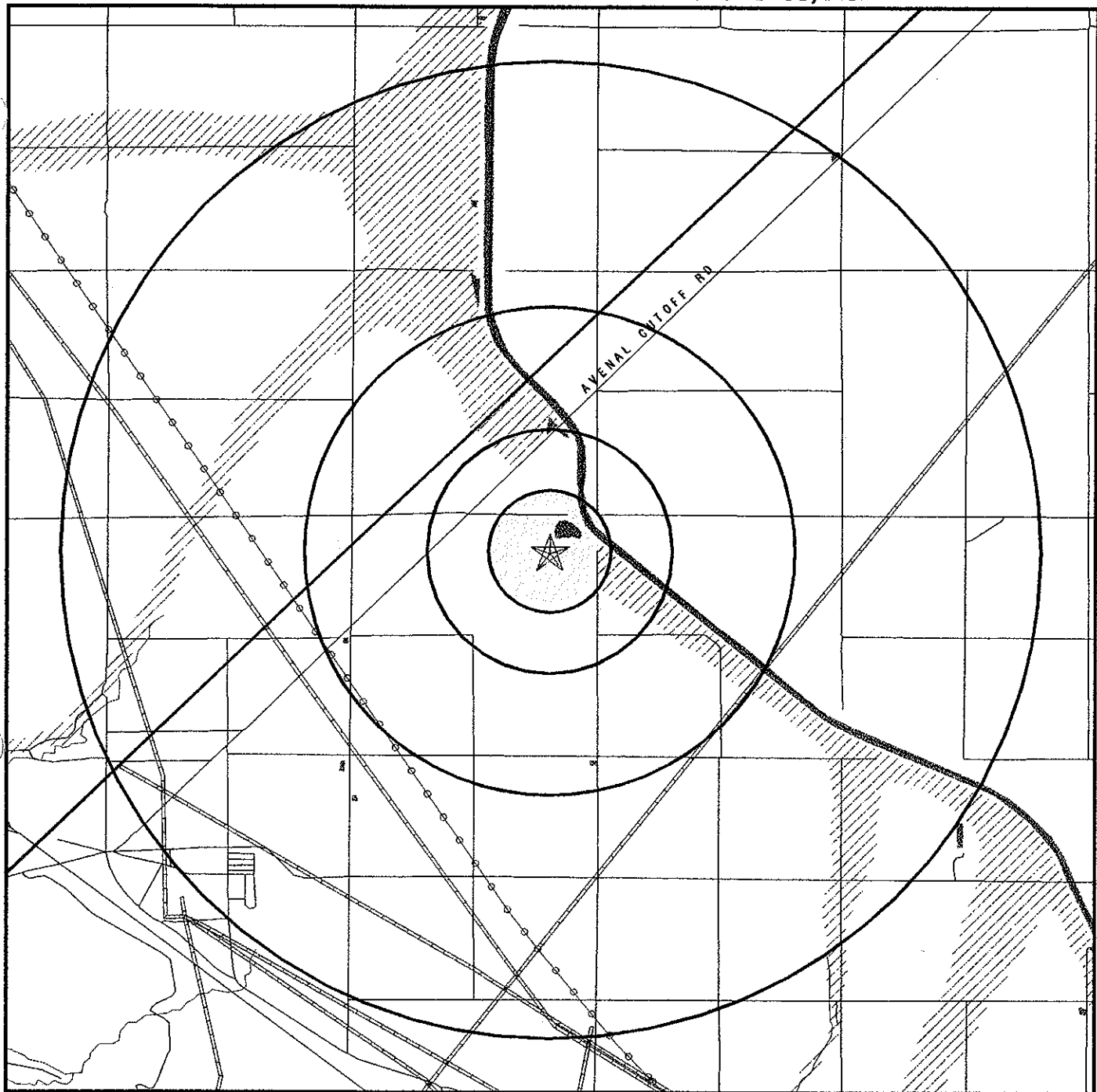
Surrounding sites were not identified.

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
GIFFEN DUMP SITE	CERC-NFRAP, Cal-Sites
NEW HURON MIDDLE SCHOOL - PROPOSED	Cal-Sites
BEACON OIL	Cal-Sites
CWM, KETTLEMAN HILLS FACILITY	Toxic Pits
CWM, BAKERSFIELD FACILITY	Toxic Pits
POWERS MALCOM P & MALCOM D	CERC-NFRAP
KOCHERGEN FARMS COMPOSTING	SWF/LF
AVENAL LANDFILL	SWF/LF
KINGS WASTE DISPOSAL	SWF/LF
KETTLEMEN COMPRESSOR STATION	SWF/LF
MILHAM AVENUE	SWF/LF
KOCHERGEN PROPERTY GREASE TRAP DISPOSAL	SWF/LF
KETTLEMAN CITY SANITARY LANDFILL	SWF/LF
MUSTANG HILL LANDFILL	SWF/LF
AERA ENERGY LLC WTS (CHP REFERRAL)	SWF/LF
CWMI KETTLEMAN HILLS FACILITY	SWF/LF
BEACON OIL COMPANY	SWF/LF
ARCO S/S #2170	LUST
ARCO FAC #2170	LUST
ARCO FAC #2170	LUST
KETTLEMAN CITY FIRE STATION	UST, AST
KETTLEMAN STATION	UST
KOCHERGEN FARMS	UST
CHEVRON PIPE LINE COMPANY	HAZNET
P G & E	HAZNET
CHEMICAL WASTE MANAGEMENT INC	HAZNET
CHEMICAL WASTE MGMT INC	HAZNET
ROBISON PREZIOSO INC	HAZNET
CALTRANS DISTRICT 6	HAZNET
CHEVRON USA INC KETTLEMAN STA	HAZNET
PARAMOUNT FARMS	RCRIS-SQG, FINDS
HURON DISPOSAL SITE	RCRIS-SQG, FINDS
	CA WDS

OVERVIEW MAP - 0600813.1r - Alton Geoscience, Inc.



★ Target Property

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

◆ Sites at elevations lower than the target property

▲ Coal Gasification Sites (if requested)

■ National Priority List Sites

■ Landfill Sites

~ Power transmission lines

~ Oil & Gas pipelines

▨ 100-year flood zone

▨ 500-year flood zone

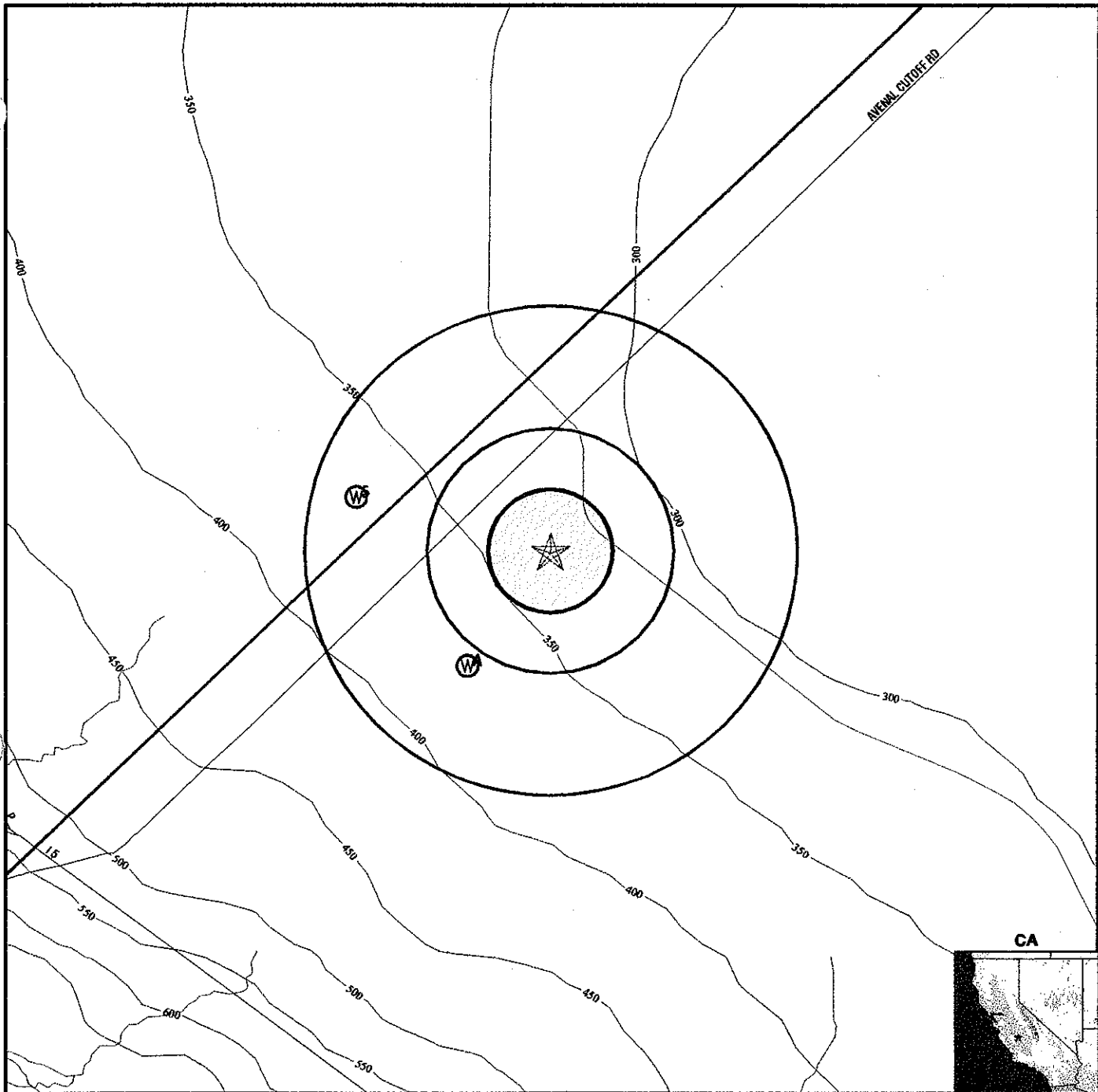
■ Wetlands

■ Areas of Concern

TARGET PROPERTY: Vacant
ADDRESS: Avenal Cutoff
CITY/STATE/ZIP: Avenal CA 93239
LAT/LONG: 36.0921 / 120.0598

CUSTOMER: Alton Geoscience, Inc.
CONTACT: Jerome Jaminet
INQUIRY #: 0600813.1r
DATE: February 28, 2001 8:21 am

PHYSICAL SETTING SOURCE MAP - 0600813.1r



- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY: Vacant
ADDRESS: Avenal Cutoff
CITY/STATE/ZIP: Avenal CA 93239
LAT/LONG: 36.0921 / 120.0598

CUSTOMER: Alton Geoscience, Inc.
CONTACT: Jerome Jaminet
INQUIRY #: 0600813.1r
DATE: February 28, 2001 8:21 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL ASTM STANDARD</u>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		1.500	0	0	0	0	0	0
CERC-NFRAP		1.250	0	0	0	0	0	0
CORRACTS		2.000	0	0	0	0	0	0
RCRIS-TSD		1.500	0	0	0	0	0	0
RCRIS Lg. Quan. Gen.		0.500	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.		0.500	0	0	0	NR	NR	0
ERNS		0.500	0	0	0	NR	NR	0
<u>STATE ASTM STANDARD</u>								
AWP		1.500	0	0	0	0	0	0
Cal-Sites		2.000	0	0	0	0	0	0
CHMIRS		1.500	0	0	0	0	0	0
Cortese		1.500	0	0	0	0	0	0
Notify 65		1.500	0	0	0	0	0	0
Toxic Pits		2.000	0	0	0	0	0	0
State Landfill		2.000	0	0	0	0	0	0
WMUDS/SWAT		1.500	0	0	0	0	0	0
LUST		2.000	0	0	0	0	0	0
UST		0.500	0	0	0	NR	NR	0
CA Bond Exp. Plan		1.500	0	0	0	0	0	0
CA FID UST		0.500	0	0	0	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.500	0	0	0	0	0	0
ROD		1.500	0	0	0	0	0	0
Delisted NPL		1.500	0	0	0	0	0	0
FINDS		0.500	0	0	0	NR	NR	0
HMIRS		0.500	0	0	0	NR	NR	0
MLTS		0.500	0	0	0	NR	NR	0
MINES		0.500	0	0	0	NR	NR	0
NPL Liens		0.500	0	0	0	NR	NR	0
PADS		0.500	0	0	0	NR	NR	0
RAATS		0.500	0	0	0	NR	NR	0
TRIS		0.500	0	0	0	NR	NR	0
TSCA		0.500	0	0	0	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST		0.500	0	0	0	NR	NR	0
CA WDS		1.000	0	0	0	0	NR	0
CA SLIC		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
HAZNET		0.500	0	0	0	NR	NR	0

EDR PROPRIETARY DATABASES

Coal Gas		1.500	0	0	0	0	0	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site	Database(s)	EDR ID Number EPA ID Number
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Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
AVENAL	S103340204	KOCHERGEN FARMS COMPOSTING	BOX 11006 - KOCHERGEN FARMS		SWF/LF	16-AA-0022
AVENAL	S102360520	AVENAL LANDFILL	201 NORTH HYDRIL ROAD		SWF/LF	16-AA-0004
AVENAL	S101612455	KINGS WASTE DISPOSAL	KETTLEMAN HILLS, KINGS COUNTY, CA		SWF/LF	16-CR-0005
AVENAL	S104493079	KETTLEMEN COMPRESSOR STATION	10 MI NORTH OF KETTLEMEN CITY ON I-5		SWF/LF	16-CR-0015
AVENAL	S102360536	MILHAM AVENUE	T22S, R18E, S14		SWF/LF	16-CR-0007
HURON	S104310319	HURON DISPOSAL SITE	AVENAL CUTOFF / REPUBLIC IND	93234	CA WDS	5D101082001
HURON	1000228184	GIFFEN DUMP SITE	3/4 MI N DORRIS 3 MI W LASSEN	93234	CERC-NFRAP, Cal-Sites	10490049
HURON	S102359976	KOCHERGEN PROPERTY GREASE TRAP DISPOSAL	15485 W REPUBLIC	93234	SWF/LF	10-AA-0174
HURON	S104384568	NEW HURON MIDDLE SCHOOL - PROPOSED	4TH STREET	93234	Cal-Sites	10010002
KETTLEMAN CITY	1000217923	POWERS MALCOM P & MALCOM D	25TH AVE	93239	CERC-NFRAP	
KETTLEMAN CITY	1000434419	CHEVRON USA INC KETTLEMAN STA	HWY 41	93239	RCRIS-SQG, FINDS	
KETTLEMAN CITY	S104573770	CHEVRON PIPE LINE COMPANY	HIGHWAY 41	93239	HAZNET	CAD000628990
KETTLEMAN CITY	U001581788	KETTLEMAN CITY FIRE STATION	HIGHWAY 41	93239	UST, AST	00000032026
KETTLEMAN CITY	U001593055	KETTLEMAN STATION	HWY. 41	93239	UST	00000016624
KETTLEMAN CITY	S103479932	ARCO S/S #2170	BERNARD / HWY 41	93239	LUST	5T16000044
KETTLEMAN CITY	S103479934	ARCO FAC #2170	BERNARD / HWY 41	93239	LUST	5T16000139
KETTLEMAN CITY	S100676277	CWM, KETTLEMAN HILLS FACILITY	P.O. BOX 471	93239	Toxic Pits	
KETTLEMAN CITY	S100925098	CWM, BAKERSFIELD FACILITY	P.O. BOX 471	93239	Toxic Pits	
KETTLEMAN CITY	S104573560	P G & E	CORNER OF QUAIL AVE / HWY 41	93239	HAZNET	CAC002243577
KETTLEMAN CITY	S100569076	CHEMICAL WASTE MANAGEMENT INC	NO DOME LANDFILL/HWY 41	93239	HAZNET	CAD000646117
KETTLEMAN CITY	S100858165	CHEMICAL WASTE MGMT INC	KETTLEMAN N DOME LOFL HWY 41	93239	HAZNET	CAT000646117
KETTLEMAN CITY	S102360522	KETTLEMAN CITY SANITARY LANDFILL	1 1/2 MI S KETTLEMAN CITY ON 25TH AVE	93239	SWF/LF	16-AA-0007
KETTLEMAN CITY	S103985128	ROBISON PREZIOSO INC	1/2 MILE S OF KETTLEMAN CITY ON HWY 41	93239	HAZNET	CAC001312128
KETTLEMAN CITY	S100183861	BEACON OIL	1.5 MILES SW OF KETTLEMAN CITY	93239	Cal-Sites	16490004
KETTLEMAN CITY	S102360528	MUSTANG HILL LANDFILL	29703 MILHAM ROAD	93239	SWF/LF	16-AA-0013
KETTLEMAN CITY	S104310783	AERA ENERGY LLC WTS (CHP REFERRAL)	EAST OF I-5, NEAR QUEBEC AVENUE	93239	SWF/LF	16-TI-1149
KETTLEMAN CITY	S103587956	CWMI KETTLEMAN HILLS FACILITY	35251 OLD SKYLINE ROAD	93239	SWF/LF	16-AA-0021
KETTLEMAN CITY	S103954550	CALTRANS DISTRICT 6	RACINE AT HWY 41	93239	HAZNET	CAL000030973
KETTLEMAN CITY	S102360533	BEACON OIL COMPANY	E/2 SEC35 T22S R18E MDB / M	93239	SWF/LF	16-CR-0002
KETTLEMAN CITY	1000149994	PARAMOUNT FARMS	STAR RTE BX 100 5	93239	RCRIS-SQG, FINDS	
KETTLEMAN CITY	U001581792	KOCHERGEN FARMS	STAR ROUTE 35	93239	UST	00000049924
KETTLEMEN CITY	S103479935	ARCO FAC #2170	BERNARD DR / HWY 41	93239	LUST	5T16000149

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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KOCHERGEN FARMS COMPOSTING BOX 11006 - KOCHERGEN FARMS AVENAL, CA

**SWF/LF S103340204
N/A**

LF:

Facility ID: 16-AA-0022
 Operator: KOCHERGEN FARMS
 Operator Addr: 8163 W. MCKINLEY
 Fresno, CA 93722
 Operator Phone: (559) 277-8069
 Owner: KOCHERGEN FARMS
 Owner Address: 8163 W. MCKINLEY
 Fresno, CA 93722
 Ower Telephone: (559) 277-8069
 Activity: Composting Facility (Green Waste)
 Operator's Status: Planned
 Regulation Status: Permitted
 Region: STATE
 Lat/Long: 36.00000 / -120.13333
 Waste Accepted: Green Materials
 Surrounding Land: Agricultural
 Report of Facility Info Date: 03/2000
 Report of Facility Info Amendment: Not reported
 Permitted Throughput with Units: Not reported
 Permitted Throughput with Units: Not reported
 Permitted Throughput with Units: Not reported
 Actual Throughput with Units: Not reported
 Actual Capacity with Units: 3700 Cubic Yards
 Permitted Capacity with Units: 3700 Cubic Yards
 Remaining Capacity with Units: Not reported
 Permitted Total Acreage: 30.00
 Actual Total Acreage: Not reported
 Permitted Disposal Acreage: Not reported
 Actual Disposal Acreage: Not reported
 Inspection Frequency: None

AVENAL LANDFILL 201 NORTH HYDRIL ROAD AVENAL, CA

**SWF/LF S102360520
N/A**

LF:

Facility ID: 16-AA-0004
 Operator: CITY OF AVENAL
 Operator Addr: CITY HALL, 919 SKYLINE BLVD
 AVENAL, CA 93204
 Operator Phone: (209) 386-5766
 Owner: CITY OF AVENAL
 Owner Address: CITY HALL, 919 SKYLINE BLVD
 AVENAL, CA 93204
 Ower Telephone: (209) 386-5766
 Activity: Solid Waste Landfill
 Operator's Status: Active
 Regulation Status: Permitted
 Region: STATE
 Lat/Long: 36.00889 / -120.11861
 Waste Accepted: Agricultural; Construction/demolition; Industrial; Mixed Municipal (MSW); Other designated; Dead Animals
 Surrounding Land: Agricultural; Industrial; Open Space
 Report of Facility Info Date: 04/1985
 Report of Facility Info Amendment: Not reported
 Permitted Throughput with Units: 300 Tons/day

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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AVENAL LANDFILL (Continued)

S102360520

Permitted Throughput with Units:	300 Tons/day
Permitted Throughput with Units:	300 Tons/day
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	6620000 Cubic Yards
Permitted Capacity with Units:	6620000 Cubic Yards
Remaining Capacity with Units:	1 Cubic Yards
Permitted Total Acreage:	173.00
Actual Total Acreage:	Not reported
Permitted Disposal Acreage:	87.00
Actual Disposal Acreage:	Not reported
Inspection Frequency:	Monthly

KINGS WASTE DISPOSAL KETTLEMAN HILLS, KINGS COUNTY, CA AVENAL, CA

SWF/LF S101612455
N/A

LF:

Facility ID:	16-CR-0005
Operator:	Not reported
Operator Addr:	Not reported
Operator Phone:	Not reported
Owner:	POWERS M
Owner Address:	P.O. BOX 128 KETTLEMAN CITY, CA 93239
Ower Telephone:	Not reported
Activity:	Solid Waste Disposal Site
Operator's Status:	To Be Determined
Regulation Status:	To Be Determined
Region:	STATE
Lat/Long:	36.00000 / -120.13333
Waste Accepted:	Not reported
Surrounding Land:	Not reported
Report of Facility Info Date:	Not reported
Report of Facility Info Amendment:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	Not reported
Actual Total Acreage:	Not reported
Permitted Disposal Acreage:	Not reported
Actual Disposal Acreage:	Not reported
Inspection Frequency:	None

KETTLEMEN COMPRESSOR STATION 10 MI NORTH OF KETTLEMEN CITY ON I-5 AVENAL, CA

SWF/LF S104493079
N/A

LF:

Facility ID:	16-CR-0015
Operator:	Not reported
Operator Addr:	Not reported
Operator Phone:	Not reported
Owner:	PG&E - WALNUT CREEK
Owner Address:	375 NORTH WIGET LANE, SUITE 130

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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KETTLEMEN COMPRESSOR STATION (Continued)

S104493079

WALNUT CREEK, CA 94598

Ower Telephone: Not reported

Activity: Solid Waste Disposal Site

Operator's Status: Closed

Regulation Status: Pre-regulations

Region: STATE

Lat/Long: 36.07111 / -120.08944

Waste Accepted: Not reported

Surrounding Land: Not reported

Report of Facility Info Date: Not reported

Report of Facility Info Amendment: Not reported

Permitted Throughput with Units: Not reported

Permitted Throughput with Units: Not reported

Permitted Throughput with Units: Not reported

Actual Throughput with Units: Not reported

Actual Capacity with Units: Not reported

Permitted Capacity with Units: Not reported

Remaining Capacity with Units: Not reported

Permitted Total Acreage: Not reported

Actual Total Acreage: Not reported

Permitted Disposal Acreage: Not reported

Actual Disposal Acreage: Not reported

Inspection Frequency: Quarterly

MILHAM AVENUE T22S, R18E, S14 AVENAL, CA

SWF/LF S102360536
N/A

LF:

Facility ID: 16-CR-0007

Operator: Not reported

Operator Addr: Not reported

Operator Phone: Not reported

Owner: WESTLAKE FARMS

Owner Address: 23311 NEWTON AVENUE
STRATFORD, CA 93266

Ower Telephone: (209) 947-3328

Activity: Solid Waste Disposal Site

Operator's Status: Closed

Regulation Status: Unpermitted

Region: STATE

Lat/Long: 36.00000 / -120.13333

Waste Accepted: Not reported

Surrounding Land: Not reported

Report of Facility Info Date: Not reported

Report of Facility Info Amendment: Not reported

Permitted Throughput with Units: Not reported

Permitted Throughput with Units: Not reported

Permitted Throughput with Units: Not reported

Actual Throughput with Units: Not reported

Actual Capacity with Units: Not reported

Permitted Capacity with Units: Not reported

Remaining Capacity with Units: Not reported

Permitted Total Acreage: Not reported

Actual Total Acreage: Not reported

Permitted Disposal Acreage: Not reported

Actual Disposal Acreage: Not reported

Inspection Frequency: Annual

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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HURON DISPOSAL SITE
AVENAL CUTOFF / REPUBLIC IND
HURON, CA

CA WDS S104310319
N/A

WDS:

Facility ID:	Tulare Lake 101082001	Facility Telephone:	Not reported
Facility Contact:	JOHN KOCHERGEN	SIC Code 2:	Not reported
SIC Code:	5812		
Agency Name:	KOCHERGEN FARMS		
Agency Addr:	PO BOX 11006		
	FRESNO, CA 93771		
Agency Contact:	JOHN KOCHERGEN	Agency Phone:	(559) 277-8068
Design Flow:	0 Million Gal/Day	Baseline Flow:	0 Million Gal/Day
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Process Waste (Waste produced as part of the industrial/manufacturing process) - Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and nonputrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).		
Threat to Water:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.		
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.		
Reclamation:	No reclamation requirements associated with this facility.		
POTW:	The facility is not a POTW.		
NPDES Number:	Not reported		
Subregion:	0		
Frequency of Reporting to Regional Board:	Quarterly Submittal		
Resource Conservation and Recovery Act (RCRA) Facility:	No		
Project Official's Initials:	JLK		

GIFFEN DUMP SITE
3/4 MI N DORRIS 3 MI W LASSEN
HURON, CA 93234

CERC-NFRAP 1000228184
Cal-Sites CAD982358442

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
Ownership Status: Unknown

Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
Assessment: PRELIMINARY ASSESSMENT

Completed: 19871201
Completed: 19881110

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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GIFFEN DUMP SITE (Continued)

1000228184

CAL-SITES:

Facility ID: 10490049
 Status: REFOA - DOES NOT REQUIRE DTSC ACTION OR OVERSITE ACTIVITY. REFERED TO OTHER AGENCY LEAD
 Status Date: 05/04/1988
 Lead: Not reported
 Region: 1 - SACRAMENTO
 Branch: CC - CENTRAL CALIFORNIA
 File Name: Not reported
 Status Name: PROPERTY/SITE REFERRED TO ANOTHER AGENCY
 Lead Agency: N/A
 NPL: Not reported
 SIC: 49 ELECTRIC, GAS & SANITARY SERVICES
 Facility Type: N/A
 Type Name: Not reported
 Staff Member Responsible for Site: Not reported
 Supervisor Responsible for Site: Not reported
 Region Water Control Board: Not reported
 Access: Not reported
 Cortese: Not reported
 Hazardous Ranking Score: Not reported
 Date Site Hazard Ranked: Not reported
 Groundwater Contamination: Not reported
 No. of Contamination Sources: 0
 Lat/Long: 36° 12' 6.00" / 120° 6' 12.00"
 Lat/long Method: UPLOADED FROM ASPIS
 State Assembly District Code: Not reported
 State Senate District: Not reported

The CAL-SITES database may contain additional details for this site.
 Please contact your EDR Account Executive for more information.

KOCHERGEN PROPERTY GREASE TRAP DISPOSAL
15485 W REPUBLIC
HURON, CA

SWF/LF S102359976
 N/A

LF:

Facility ID: 10-AA-0174
 Operator: KOCHERGEN FARMS
 Operator Addr: 8163 W. MCKINLEY
 Fresno, CA 93722
 Operator Phone: (559) 277-8069
 Owner: KOCHERGEN FARMS
 Owner Address: 8163 W. MCKINLEY
 Fresno, CA 93722
 Owner Telephone: (559) 277-8069
 Activity: Land Application
 Operator's Status: Active
 Regulation Status: Permitted
 Region: STATE
 Lat/Long: 36.20000 / -120.10000
 Waste Accepted: Other designated
 Surrounding Land: Rural
 Report of Facility Info Date: 01/1996
 Report of Facility Info Amendment: Not reported
 Permitted Throughput with Units: 150000 Gallons/day
 Permitted Throughput with Units: 150000 Gallons/day
 Permitted Throughput with Units: 150000 Gallons/day

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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KOCHERGEN PROPERTY GREASE TRAP DISPOSAL (Continued)

S102359976

Actual Throughput with Units:	Not reported
Actual Capacity with Units:	150000 Gallons/day
Permitted Capacity with Units:	150000 Gallons/day
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	200.00
Actual Total Acreage:	200.00
Permitted Disposal Acreage:	200.00
Actual Disposal Acreage:	200.00
Inspection Frequency:	Monthly

NEW HURON MIDDLE SCHOOL - PROPOSED 4TH STREET HURON, CA 93234

Cal-Sites S104384568
N/A

CAL-SITES:

Facility ID	10010002
Status:	VCOMP
Status Date:	03/09/2000
Lead:	DTSC
Region:	1 - SACRAMENTO
Branch:	CC - CENTRAL CALIFORNIA
File Name:	NEW HURON MIDDLE SCHOOL - PROPOSED
Status Name:	VOLUNTARY CLEANUP AGREEMENT COMPLETE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not reported
SIC:	01 AGRICULTURAL PRODUCTION - CROPS
Facility Type:	PROPOSED SCHOOL SITE PROPERTY
Type Name:	PSCHL
Staff Member Responsible for Site:	FLOPEZ2
Supervisor Responsible for Site:	RHUME
Region Water Control Board:	Not reported
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
No. of Contamination Sources:	0
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

POWERS MALCOM P & MALCOM D 25TH AVE KETTLEMAN CITY, CA 93239

CERC-NFRAP 1000217923
CAD078759966

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported
Ownership Status:	Unknown

Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY
Assessment:	PRELIMINARY ASSESSMENT
Assessment:	PRELIMINARY ASSESSMENT

Completed:	19791201
Completed:	19800601
Completed:	19881104

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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**CHEVRON USA INC KETTLEMAN STA
HWY 41
KETTLEMAN CITY, CA 93239**

**RCRIS-SQG 1000434419
FINDS CAD000628990**

RCRIS:

Owner: CHEVRON U.S.A. INC.
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(805) 393-1312

Record Date: 09/01/1996

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

**CHEVRON PIPE LINE COMPANY
HIGHWAY 41
KETTLEMAN CITY, CA 93388**

**HAZNET S104573770
N/A**

HAZNET:

Gepaid:	CAD000628990	Tepaid:	CAD980675276
Contact:	CHEVRON PIPE LINE COMPANY	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	Kern
Tons:	22.7556		
Category:	Asbestos-containing waste		
Disposal Method:	Disposal, Land Fill		
Mailing Address:	PO BOX 2930 BAKERSFIELD, CA 93303 - 2930		
County	Not reported		
Gepaid:	CAD000628990	Tepaid:	CAD980675276
Contact:	CHEVRON PIPE LINE COMPANY	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	Kern
Tons:	0.0225		
Category:	Asbestos-containing waste		
Disposal Method:	Treatment, Tank		
Mailing Address:	PO BOX 2930 BAKERSFIELD, CA 93303 - 2930		
County	Not reported		
Gepaid:	CAD000628990	Tepaid:	CAD009466392
Contact:	CHEVRON PIPE LINE COMPANY	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	7
Tons:	1.5		
Category:	Empty containers less than 30 gallons		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 2930 BAKERSFIELD, CA 93303 - 2930		
County	Not reported		
Gepaid:	CAD000628990	Tepaid:	CAD009452657
Contact:	CHEVRON PIPE LINE COMPANY	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	San Mateo
Tons:	0.834		
Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)		
Disposal Method:	Recycler		
Mailing Address:	PO BOX 2930 BAKERSFIELD, CA 93303 - 2930		
County	Not reported		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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CHEVRON PIPE LINE COMPANY (Continued)

S104573770

Gepaid:	CAD000628990	Tepaid:	CAD009466392
Contact:	CHEVRON PIPE LINE COMPANY	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	7
Tons:	7.1575		
Category:	Other empty containers 30 gallons or more		
Disposal Method:	Disposal, Other		
Mailing Address:	PO BOX 2930		
	BAKERSFIELD, CA 93303 - 2930		
County	Not reported		

The CA HAZNET database contains 1 additional record for this site.
Please contact your EDR Account Executive for more information.

KETTLEMAN CITY FIRE STATION HIGHWAY 41 KETTLEMAN CITY, CA 93239

UST U001581788
AST N/A

State UST:

Facility ID:	32026	Container Num:	5
Tank Num:	1	Year Installed:	Not reported
Tank Capacity:	550		
Tank Used for:	PRODUCT	Tank Constrctn:	Not reported
Type of Fuel:	UNLEADED		
Leak Detection:	Visual, Stock Inventor	Telephone:	(209) 386-5338
Contact Name:	KEN HARP - FIRE CHIEF	Region:	STATE
Total Tanks:	1	Other Type:	FIRE STATION
Facility Type:	2		

AST:

Region: 5F
Owner: COUNTY OF KINGS
PURCHASING DEPT./ATTN: E. RAY
1400 W. LACEY BLVD.
HANFORD, CA 93230

KETTLEMAN STATION HWY. 41 KETTLEMAN CITY, CA 93739

UST U001593055
N/A

State UST:

Facility ID:	16624	Container Num:	K1
Tank Num:	1	Year Installed:	Not reported
Tank Capacity:	1000		
Tank Used for:	PRODUCT	Tank Constrctn:	Not reported
Type of Fuel:	UNLEADED		
Leak Detection:	Stock Inventor	Telephone:	(805) 392-3000
Contact Name:	R.K. WILLIAMS	Region:	STATE
Total Tanks:	2	Other Type:	PUMP STATION
Facility Type:	2		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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KETTLEMAN STATION (Continued)

U001593055

Facility ID:	16624	Container Num:	K2
Tank Num:	2	Year Installed:	1928
Tank Capacity:	3400		
Tank Used for:	PRODUCT		
Type of Fuel:	Not Reported	Tank Constrcn:	6 inches
Leak Detection:	None		
Contact Name:	R.K. WILLIAMS	Telephone:	(805) 392-3000
Total Tanks:	2	Region:	STATE
Facility Type:	2	Other Type:	PUMP STATION

ARCO S/S #2170
BERNARD / HWY 41
KETTLEMAN CITY, CA 93239

LUST S103479932
N/A

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	5T16000044		
Reg Board:	Central Valley Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	16000		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Kings		
Abate Method:	Other Means		
Review Date:	04/05/90	Confirm Leak:	03/03/88
Workplan:	10/19/88	Prelim Assess:	11/10/88
Pollution Char:	12/1/88	Remed Plan:	4/22/89
Remed Action:	7/13/89	Monitoring:	Not reported
Close Date:	4/5/90		
Release Date:	06/02/88		
Cleanup Fund Id :	Not reported		
Discover Date :	06/02/1988		
Enforcement Dt :	Not reported		
Enf Type:	N		
Enter Date :	04/05/90		
Funding:	Responsible Party		
Staff Initials:	Not reported		
How Discovered:	Other Means		
How Stopped:	Other Means		
Interim :	Not reported		
Lat/Lon :	0 / 0		
Leak Cause:	Unknown		
Leak Source:	Piping		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	YP		
MTBE Date :	Not reported		
MTBE Tested :	NT		
Max MTBE GW :	Not reported		
GW Qualifies :	Not reported		
Max MTBE Soil :	0		
Soil Qualifies :	Not reported		
Hydr Basin #:	Not reported		
Operator :	D. E. BROOKS		
Oversight Prgm :	LIA		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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ARCO S/S #2170 (Continued)

S103479932

Priority : 3
 Review Date : 04/05/90
 Stop Date : 06/02/1988
 Street Number : Not reported
 Work Suspended : N
 Responsible Party: ARCO PRODUCTS COMPANY
 Summary: LEAK DETECTOR ON LEADED SYSTEM TRIPPED OFF SYSTEM PLACED OUT OF SERVICE.
 KINGS COUNTY REVIEWED STATION INVENTORY BOOKS END OF MAY. NO INVENTORY LOSS
 WAS DETECTED. BELIEVE PRODUCT LOSS ,IF ANY, IS MINIMAL. ARCO WILL LOCATE LINE
 LEAK

Cross Street:	HWY 41	
Qty Leaked:	Not reported	
Case Number	5T16000097	
Reg Board:	Central Valley Region	
Chemical:	Gasoline	
Lead Agency:	Local Agency	
Local Agency :	16000	
Case Type:	Soil only	
Status:	Signed off, remedial action completed or deemed unnecessary	
County:	Kings	
Review Date:	03/31/92	Confirm Leak: Not reported
Workplan:	Not reported	Prelim Assess: Not reported
Pollution Char:	Not reported	Remed Plan: Not reported
Remed Action:	Not reported	Monitoring: Not reported
Close Date:	1/1/99	
Release Date:	11/20/89	
Cleanup Fund Id :	Not reported	
Discover Date :	11/19/1989	
Enforcement Dt :	Not reported	
Enf Type:	N	
Enter Date :	12/05/89	
Funding:	Not reported	
Staff Initials:	Not reported	
How Discovered:	Not reported	
How Stopped:	Not reported	
Interim :	Not reported	
Lat/Lon :	0 / 0	
Leak Cause:	Overfill	
Leak Source:	Other Source	
Local Case # :	Not reported	
Beneficial:	Not reported	
Staff :	YP	
MTBE Date :	Not reported	
MTBE Tested :	NT	
Max MTBE GW :	Not reported	
GW Qualifies :	Not reported	
Max MTBE Soil :	0	
Soil Qualifies :	Not reported	
Hydr Basin #:	Not reported	
Operator :	DE BROOK INC.	
Oversight Prgm :	LIA	
Priority :	3	
Review Date :	03/31/92	
Stop Date :	11/19/1989	
Street Number :	Not reported	
Work Suspended :	N	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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ARCO S/S #2170 (Continued)

S103479932

Responsible Party ARCO PETROLEUM PRODUCTS

Summary: CUSTOMER DROVE OFF WITH HOSE IN TANK. FIRE DEPT., EPA, PUBLIC WORKS ALL ON HAND. FIRE DEPT. HELPED WITH THE CLEAN UP. DEPT. OF ENVIRONMENTAL HEALTH CALLED. WILL REPLACE HOSE ETC., AND TEST LINES.

Cross Street:	HWY 41		
Qty Leaked:	Not reported		
Case Number	5T16000103		
Reg Board:	Central Valley Region		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	16000		
Case Type:	Soil only		
Status:	Signed off, remedial action completed or deemed unnecessary		
County:	Kings		
Review Date:	01/05/93	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	1/1/99		
Release Date:	03/05/90		
Cleanup Fund Id :	Not reported		
Discover Date :	02/15/1990		
Enforcement Dt :	Not reported		
Enf Type:	N		
Enter Date :	03/23/90		
Funding:	Responsible Party		
Staff Initials:	Not reported		
How Discovered:	Tank Test		
How Stopped:	Repair Piping		
Interim :	Not reported		
Lat/Lon :	0 / 0		
Leak Cause:	Unknown		
Leak Source:	Other Source		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	YP		
MTBE Date :	Not reported		
MTBE Tested :	NT		
Max MTBE GW :	Not reported		
GW Qualifies :	Not reported		
Max MTBE Soil :	0		
Soil Qualifies :	Not reported		
Hydr Basin #:	Not reported		
Operator :	D.E. BROOKS INC.		
Oversight Prgm :	LIA		
Priority :	3		
Review Date :	01/05/93		
Stop Date :	02/15/1990		
Street Number :	Not reported		
Work Suspended N			

Responsible Party ARCO PETROLEUM PRODUCTS

Summary: REGULAR 12,000 GALLON TANK FAILED TANK TEST. DID NOT PASS THE CRITERIA. LEAK WAS FOUND IN THE VENT VAPOR LINES ABOVE TANK TOP. PRODUCT LINES WERE FOUND TIGHT. CONTRACTOR WAS SENT OUT TO REPAIR AND RETEST. COUNTY H.D. WAS NOTIFIED.

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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ARCO S/S #2170 (Continued)

S103479932

LUST Region 5:

Responsible Party: ARCO PRODUCTS COMPANY Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: YP Case Number: 5T16000044
Status: Signed off, remedial action completed or deemed unnecessary
MTBE: Not reported

Responsible Party: ARCO PETROLEUM PRODUCTS Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: YP Case Number: 5T16000097
Status: Signed off, remedial action completed or deemed unnecessary
MTBE: Not reported

Responsible Party: ARCO PETROLEUM PRODUCTS Substance: GASOLINE
Case Type: Soil only
Program: Local Implementing Activity - County Run Activity
Staff Initials: YP Case Number: 5T16000103
Status: Signed off, remedial action completed or deemed unnecessary
MTBE: Not reported

ARCO FAC #2170
BERNARD / HWY 41
KETTLEMAN CITY, CA 93239

LUST S103479934
N/A

State LUST:

Cross Street:	HWY 41	
Qty Leaked:	Not reported	
Case Number	5T16000139	
Reg Board:	Central Valley Region	
Chemical:	Unleaded Gasoline	
Lead Agency:	Local Agency	
Local Agency :	16000	
Case Type:	Soil only	
Status:	Signed off, remedial action completed or deemed unnecessary	
County:	Kings	
Review Date:	05/22/96	Confirm Leak: 03/24/94
Workplan:	Not reported	Prelim Assess: Not reported
Pollution Char:	Not reported	Remed Plan: Not reported
Remed Action:	Not reported	Monitoring: Not reported
Close Date:	5/22/96	
Release Date:	03/24/94	
Cleanup Fund Id :	Not reported	
Discover Date :	03/23/1994	
Enforcement Dt :	Not reported	
Enf Type:	N	
Enter Date :	04/22/94	
Funding:	Responsible Party	
Staff Initials:	Not reported	
How Discovered:	Other Means	
How Stopped:	Other Means	
Interim :	Not reported	
Lat/Lon :	0 / 0	
Leak Cause:	Unknown	
Leak Source:	Unknown	
Local Case # :	Not reported	
Beneficial:	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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ARCO FAC #2170 (Continued)

S103479934

Staff : YP
 MTBE Date : Not reported
 MTBE Tested : NT
 Max MTBE GW : Not reported
 GW Qualifies : Not reported
 Max MTBE Soil : 0
 Soil Qualifies : Not reported
 Hydr Basin #: Not reported
 Operator : D.E. BROOKS
 Oversight Prgm : LIA
 Priority : 3
 Review Date : 05/22/96
 Stop Date : 03/23/1994
 Street Number : Not reported
 Work Suspended : N
 Responsible Party: ARCO PRODUCTS CO.
 Summary: ON 3/17 LEAK DETECTOR MO DUCT LINE WENT INTO SLOW FLOW. A CONTRACTOR WAS
 DISPATCHED TO TEST LINE, TEST INCONCLUSIVE. 2ND CONTRACTOR SENT ON 3/23 TO TEST
 LINE, LINE FAILED. THEY ARE TO ISOLATE PROBLEM & CHECK TURBINE PUMP.

LUST Region 5:

Responsible Party:	ARCO PRODUCTS CO.	Substance:	UNLEAD GASOLINE
Case Type:	Soil only		
Program:	Local Implementing Activity - County Run Activity		
Staff Initials:	YP	Case Number:	5T16000139
Status:	Signed off, remedial action completed or deemed unnecessary		
MTBE:	Not reported		

CWM, KETTLEMAN HILLS FACILITY
P.O. BOX 471
KETTLEMAN CITY, CA 93239

Toxic Pits S100676277
 N/A

TOXIC PITS:

Region:	05F	Task #:	05087
Owner:	CWM, KETTLEMAN HILLS FACILITY		
Num. of Pits:	12	1/2 Mi Limit:	No
Hydro Geological Assessment Report Due: Not Reported			
Final Hydro Geological Assessment Review Completed: Not Reported			
Cease Discharge Due:	Not reported	Cease Discharge Completed:	Not reported
Closure Due:	Not reported	Closure Completed:	Not reported
Status:	ACTIVE		

CWM, BAKERSFIELD FACILITY
P.O. BOX 471
KETTLEMAN CITY, CA 93239

Toxic Pits S100925098
 N/A

TOXIC PITS:

Region:	05F	Task #:	85088
Owner:	CHEMICAL WASTE MANAGEMENT, INC.		
Num. of Pits:	7	1/2 Mi Limit:	Yes
Hydro Geological Assessment Report Due: Not Reported			
Final Hydro Geological Assessment Review Completed: Not Reported			
Cease Discharge Due:	Not reported	Cease Discharge Completed:	04/01/87
Closure Due:	Not reported	Closure Completed:	11/02/90
Status:	CLOSED		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
P G & E CORNER OF QUAIL AVE / HWY 41 KETTLEMAN CITY, CA 00000	HAZNET	S104573560 N/A
HAZNET:		
Gepaid: CAC002243577	Tepaid: CAT000646117	
Contact: P G & E	Telephone: (559) 263-5213	
Gen County: Kings	Tsd County: Kings	
Tons: 15.1704		
Category: Unspecified oil-containing waste		
Disposal Method: Disposal, Land Fill		
Mailing Address: 650 O ST		
FRESNO, CA 93760		
County: Not reported		
CHEMICAL WASTE MANAGEMENT INC NO DOME LANDFILL/HWY 41 KETTLEMAN CITY, CA 00000	HAZNET	S100569076 N/A
HAZNET:		
Gepaid: CAD000646117	Tepaid: CAD000088252	
Contact: Not reported	Telephone: (000) 000-0000	
Gen County: Kings	Tsd County: Los Angeles	
Tons: 27.8124		
Category: Other inorganic solid waste		
Disposal Method: Not reported		
Mailing Address: PO BOX 471		
KETTLEMAN CITY, CA 93239		
County: Not reported		
Gepaid: CAD000646117	Tepaid: CAD000088252	
Contact: Not reported	Telephone: (000) 000-0000	
Gen County: Kings	Tsd County: Los Angeles	
Tons: 0.4587		
Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)		
Disposal Method: Transfer Station		
Mailing Address: PO BOX 471		
KETTLEMAN CITY, CA 93239		
County: Not reported		
Gepaid: CAD000646117	Tepaid: CAT000646117	
Contact: Not reported	Telephone: (000) 000-0000	
Gen County: Kings	Tsd County: Kings	
Tons: 67.424		
Category: Other organic solids		
Disposal Method: Disposal, Land Fill		
Mailing Address: PO BOX 471		
KETTLEMAN CITY, CA 93239		
County: Not reported		
Gepaid: CAD000646117	Tepaid: CAT000646117	
Contact: Not reported	Telephone: (000) 000-0000	
Gen County: Kings	Tsd County: Kings	
Tons: 12.122		
Category: Unspecified sludge waste		
Disposal Method: Not reported		
Mailing Address: PO BOX 471		
KETTLEMAN CITY, CA 93239		
County: Not reported		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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CHEMICAL WASTE MANAGEMENT INC (Continued)

S100569076

Gepaid:	CAD000646117	Tepaid:	CAT000646117
Contact:	Not reported	Telephone:	(000) 000-0000
Gen County:	Kings	Tsd County:	Kings
Tons:	25.4121		
Category:	Unspecified sludge waste		
Disposal Method:	Treatment, Tank		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239		
County	Not reported		

The CA HAZNET database contains 19 additional records for this site.
Please contact your EDR Account Executive for more information.

CHEMICAL WASTE MGMT INC KETTLEMAN N DOME LDFL HWY 41 KETTLEMAN CITY, CA 93210

HAZNET S100858165
N/A

HAZNET:

Gepaid:	CAT000646117	Tepaid:	AZD000007004
Contact:	WASTE MANAGEMENT INC	Telephone:	(713) 512-6200
Gen County:	Kings	Tsd County:	0
Tons:	0.05		
Category:	Other inorganic solid waste		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239 - 0471		
County	Not reported		

Gepaid:	CAT000646117	Tepaid:	AZD983473539
Contact:	WASTE MANAGEMENT INC	Telephone:	(713) 512-6200
Gen County:	Kings	Tsd County:	99
Tons:	1.578		
Category:	Polychlorinated biphenyls and material containing PCB's		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239 - 0471		
County	Not reported		

Gepaid:	CAT000646117	Tepaid:	AZT050010180
Contact:	WASTE MANAGEMENT INC	Telephone:	(713) 512-6200
Gen County:	Kings	Tsd County:	99
Tons:	16.1007		
Category:			
Disposal Method:	Not reported		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239 - 0471		
County	Not reported		

Gepaid:	CAT000646117	Tepaid:	AZT050010180
Contact:	WASTE MANAGEMENT INC	Telephone:	(713) 512-6200
Gen County:	Kings	Tsd County:	99
Tons:	0.4587		
Category:	Aqueous solution with metals (restricted levels and Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc))		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239 - 0471		
County	Not reported		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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CHEMICAL WASTE MGMT INC (Continued)

S100858165

Gepaid:	CAT000646117	Tepaid:	AZT050010180
Contact:	WASTE MANAGEMENT INC	Telephone:	(713) 512-6200
Gen County:	Kings	Tsd County:	99
Tons:	0.0208		
Category:	Off-specification, aged, or surplus inorganics		
Disposal Method:	Not reported		
Mailing Address:	PO BOX 471		
	KETTLEMAN CITY, CA 93239 - 0471		
County	Not reported		

The CA HAZNET database contains 543 additional records for this site.
Please contact your EDR Account Executive for more information.

**KETTLEMAN CITY SANITARY LANDFILL
1 1/2 MI S KETTLEMAN CITY ON 25TH AVE
KETTLEMAN CITY, CA**

**SWF/LF S102360522
N/A**

LF:

Facility ID:	16-AA-0007
Operator:	Not reported
Operator Addr:	Not reported
Operator Phone:	Not reported
Owner:	COUNTY OF KINGS WASTE MANAGEMENT AUTHORI
Owner Address:	7803 HANFORD - ARMONA ROAD
	HANFORD, CA 93230
Ower Telephone:	(209) 583-8829
Activity:	Solid Waste Disposal Site
Operator's Status:	Closed
Regulation Status:	Permitted
Region:	STATE
Lat/Long:	35.99660 / -119.95600
Waste Accepted:	Not reported
Surrounding Land:	Not reported
Report of Facility Info Date:	Not reported
Report of Facility Info Amendment:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	Not reported
Actual Total Acreage:	Not reported
Permitted Disposal Acreage:	Not reported
Actual Disposal Acreage:	Not reported
Inspection Frequency:	Quarterly

**ROBISON PREZIOSO INC
1/2 MILE S OF KETTLEMAN CITY ON HWY 41
KETTLEMAN CITY, CA 93239**

**HAZNET S103985128
N/A**

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
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ROBISON PREZIOSO INC (Continued)

S103985128

HAZNET:

Gepaid:	CAC001312128	Tepaid:	CAD028409019
Contact:	ROBISON PREZIOSO INC	Telephone:	(562) 906-9002
Gen County:	Kings	Tsd County:	Los Angeles
Tons:	0.2085		
Category:	Unspecified organic liquid mixture		
Disposal Method:	Treatment, Tank		
Mailing Address:	PO BOX 2448		
	SANTA FE SPRINGS, CA 90670		
County	Not reported		

BEACON OIL

1.5 MILES SW OF KETTLEMAN CITY
KETTLEMAN CITY, CA 93239

Cal-Sites S100183861
N/A

CAL-SITES:

Facility ID	16490004
Status:	REFRC - DOES NOT REQUIRE DTSC ACTION. REFERRED TO RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) LEAD
Status Date:	04/25/1989
Lead:	RWQCB
Region:	1 - SACRAMENTO
Branch:	CC - CENTRAL CALIFORNIA
File Name:	Not reported
Status Name:	PROPERTY/SITE REFERRED TO RCRA
Lead Agency:	REGIONAL WATER QUALITY CONTROL BOARD
NPL:	Not Listed
SIC:	49 ELECTRIC, GAS & SANITARY SERVICES
Facility Type:	N/A
Type Name:	Not reported
Staff Member Responsible for Site:	Not reported
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Unknown
No. of Contamination Sources:	0
Lat/Long:	0° 0' 0.00" / 0° 0' 0.00"
Lat/long Method:	Not reported
State Assembly District Code:	Not reported
State Senate District:	Not reported

The CAL-SITES database may contain additional details for this site.
Please contact your EDR Account Executive for more information.

MUSTANG HILL LANDFILL
29703 MILHAM ROAD
KETTLEMAN CITY, CA

SWF/LF S102360528
N/A

LF:

Facility ID:	16-AA-0013
Operator:	COUNTY OF KINGS WASTE MANAGEMENT AUTHORI
Operator Addr:	7803 HANFORD - ARMONA ROAD
	HANFORD, CA 93230
Operator Phone:	(209) 583-8829

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

MUSTANG HILL LANDFILL (Continued)

S102360528

Owner: COUNTY OF KINGS WASTE MANAGEMENT AUTHORITY
 Owner Address: 7803 HANFORD - ARMONA ROAD
 HANFORD, CA 93230
 Owner Telephone: (209) 583-8829
 Activity: Solid Waste Landfill
 Operator's Status: Planned
 Regulation Status: Permitted
 Region: STATE
 Lat/Long: 36.00000 / -119.95000
 Waste Accepted: Mixed Municipal (MSW); Industrial; Sludge
 Surrounding Land: Rural
 Report of Facility Info Date: 10/1997
 Report of Facility Info Amendment: Not reported
 Permitted Throughput with Units: 500 Tons
 Permitted Throughput with Units: 500 Tons
 Permitted Throughput with Units: 500 Tons
 Actual Throughput with Units: Not reported
 Actual Capacity with Units: 10100000 Cubic Yards
 Permitted Capacity with Units: 10100000 Cubic Yards
 Remaining Capacity with Units: Not reported
 Permitted Total Acreage: 340.00
 Actual Total Acreage: Not reported
 Permitted Disposal Acreage: 74.00
 Actual Disposal Acreage: Not reported
 Inspection Frequency: None

AERA ENERGY LLC WTS (CHP REFERRAL)
 EAST OF I-5, NEAR QUEBEC AVENUE
 KETTLEMAN CITY, CA

SWF/LF S104310783
 N/A

LF:

Facility ID: 16-TI-1149
 Operator: Not reported
 Operator Addr: Not reported
 Operator Phone: Not reported
 Owner: Aera Energy LLC
 Owner Address: P.O.Box 11164
 Bakersfield, CA 93389
 Owner Telephone: Not reported
 Activity: Waste Tire Location
 Operator's Status: Active
 Regulation Status: Not Currently Regulated
 Region: STATE
 Lat/Long: 36.05750 / -120.06056
 Waste Accepted: Not reported
 Surrounding Land: Not reported
 Report of Facility Info Date: Not reported
 Report of Facility Info Amendment: Not reported
 Permitted Throughput with Units: Not reported
 Permitted Throughput with Units: Not reported
 Permitted Throughput with Units: Not reported
 Actual Throughput with Units: 350 Tires
 Actual Capacity with Units: Not reported
 Permitted Capacity with Units: Not reported
 Remaining Capacity with Units: 350
 Permitted Total Acreage: Not reported
 Actual Total Acreage: Not reported
 Permitted Disposal Acreage: Not reported

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX E

EDR DATABASE REPORT



The EDR Radius Map with GeoCheck®

**Federal Power - Avenal
Avenal Cutoff
Avenal, CA 93239**

Inquiry Number: 2041704.2s

October 01, 2007

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

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

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

AVENAL CUTOFF
AVENAL, CA 93239

COORDINATES

Latitude (North):	36.092100 - 36° 5' 31.6"
Longitude (West):	120.059800 - 120° 3' 35.3"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	764726.9
UTM Y (Meters):	3997966.2
Elevation:	334 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	36120-A1 LA CIMA, CA
Most Recent Revision:	1978

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

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

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
ICIS	Integrated Compliance Information System
LUCIS	Land Use Control Information System
RADINFO	Radiation Information Database
LIENS 2	CERCLA Lien Information
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
LIENS	Environmental Liens Listing
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites

EXECUTIVE SUMMARY

HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
HAULERS	Registered Waste Tire Haulers Listing
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. 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.

STATE AND LOCAL RECORDS

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 Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, and dated 09/10/2007 has revealed that there are 2 SWF/LF sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KOCHERGEN FARMS COMPOSTING	AVENAL CUTOFF RD. AND O	1/2 - 1 WSW 1		6
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>KOCHERGEN PROPERTIES</i>	<i>15485 W REPUBLIC</i>	<i>1 - 2 NNE 2</i>		<i>7</i>

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

A review of the Fresno Co. CUPA list, as provided by EDR, and dated 07/16/2007 has revealed that

EXECUTIVE SUMMARY

there is 1 Fresno Co. CUPA site within approximately 1.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KOCHERGEN PROPERTIES	15485 W REPUBLIC	1 - 2 NNE 2		7

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
CALTRANS	SWEEPS UST
ARCO FAC #2170	SWEEPS UST
LASSEN AVE, 2 MI N OF HIGHWAY	CDL
ARCO S/S #2170	LUST, Cortese
ARCO FAC #2170	LUST, Cortese
ARCO FAC #2170	LUST
KETTLEMAN CITY FIRE STATION	HIST UST
KETTLEMAN STATION	HIST UST
KOCHERGEN FARMS	HIST UST
KETTLEMAN CITY M.S. (DIST. 6)	AST
D ANDERSON & SONS FARMING DBA VAST	HAZNET
CALTRANS DIST 6/CONSTR/EA06-39810	HAZNET
CHEVRON PIPE LINE COMPANY	HAZNET
CONWAY WESTERN EXPRESS SVCS INC	HAZNET
P G & E	HAZNET
CALTRANS DISTRICT 6	HAZNET
CHEVRON USA INC KETTLEMAN STA	RCRA-SQG
WEBER IMPLEMENT	RCRA-SQG, FINDS
PARAMOUNT FARMS	RCRA-SQG, FINDS
3MI E OF AVENAL/OFF:HWY-5	ERNS
WWTF	CA WDS
CHEVRON PIPELINE-KETTLEMAN ALP	EMI
CHEVRON USA, INC.	EMI
CON-WAY WESTERN EXPRESS	EMI

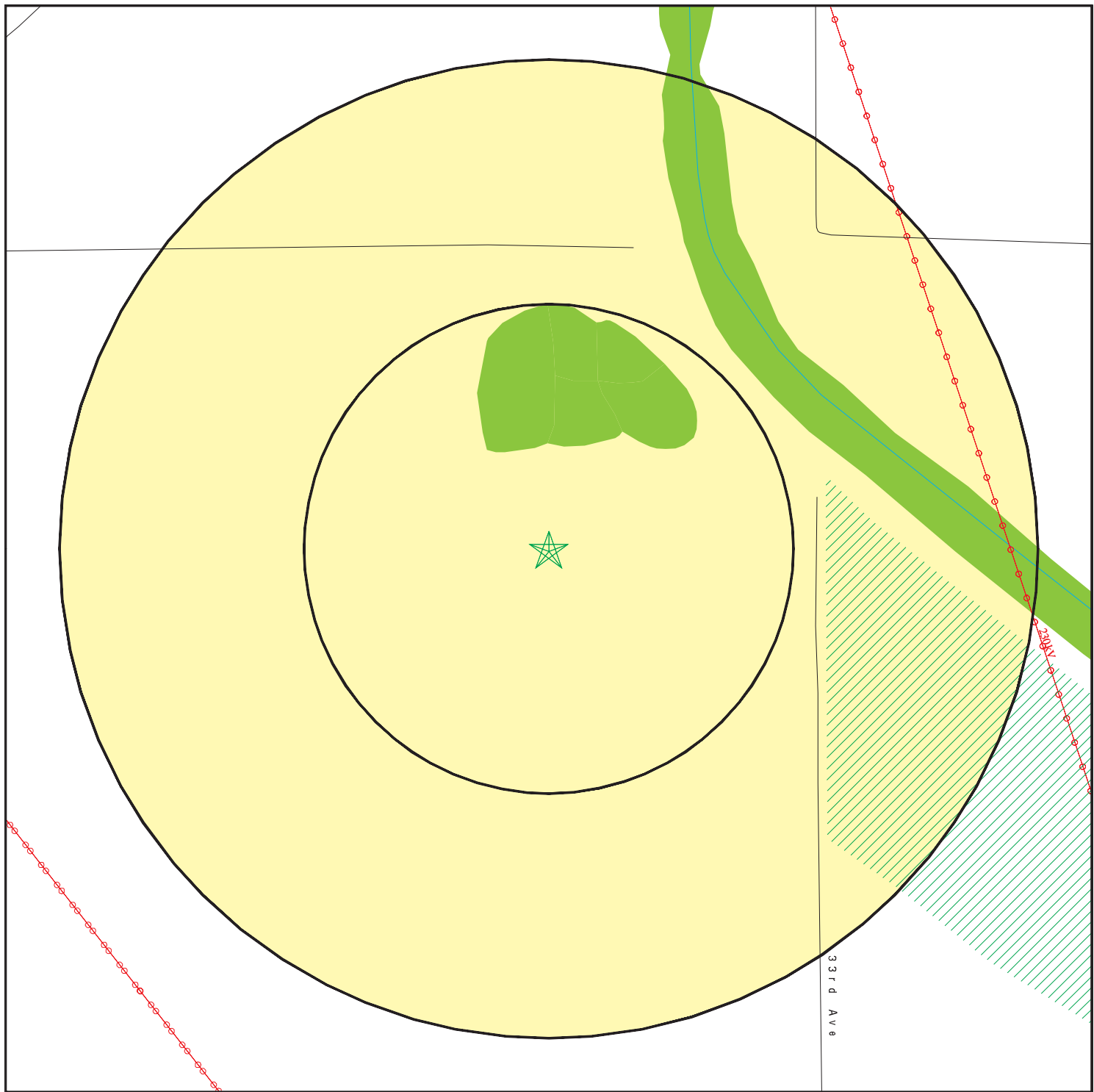
This map illustrates the impact of the 2004 Indian Ocean Tsunami on the Sumatra region. The epicenter is marked by a yellow starburst. Concentric black circles show the progression of the tsunami waves. The green line represents the coastline, and the green hatched areas show the extent of coastal inundation. Red dashed lines with circles indicate seismic wave propagation paths, with labels for the years 2004 and 2005. A red line labeled 'Avenal Cutoff Rd' is shown in the upper right. Two specific locations are marked with black squares and labeled '1' and '2'.

-

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

CLIENT: TRC
CONTACT: Carole Missirlian
INQUIRY #: 2041704.2s
DATE: October 01, 2007 4:16 pm

DETAIL MAP - 2041704.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🏠 National Priority List Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- ⚡ Power transmission lines
- 🛢 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory

🏠 Areas of Concern

0 1/16 1/8 1/4 Miles



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Federal Power - Avenal
 ADDRESS: Avenal Cutoff
 Avenal CA 93239
 LAT/LONG: 36.0921 / 120.0598

CLIENT: TRC
 CONTACT: Carole Missirlian
 INQUIRY #: 2041704.2s
 DATE: October 01, 2007 4:16 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
NPL LIENS		1.000	0	0	0	0	NR	0
CERCLIS		1.500	0	0	0	0	0	0
CERC-NFRAP		1.500	0	0	0	0	0	0
CORRACTS		2.000	0	0	0	0	0	0
RCRA TSD		1.500	0	0	0	0	0	0
RCRA Lg. Quan. Gen.		1.250	0	0	0	0	0	0
RCRA Sm. Quan. Gen.		1.250	0	0	0	0	0	0
ERNS		1.000	0	0	0	0	NR	0
HMIRS		1.000	0	0	0	0	NR	0
US ENG CONTROLS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	0	0
DOD		2.000	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
US BROWNFIELDS		1.500	0	0	0	0	0	0
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
ODI		1.500	0	0	0	0	0	0
TRIS		1.000	0	0	0	0	NR	0
TSCA		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	0	NR	0
HIST FTTS		1.000	0	0	0	0	NR	0
ICIS		1.000	0	0	0	0	NR	0
LUCIS		1.500	0	0	0	0	0	0
RADINFO		1.000	0	0	0	0	NR	0
LIENS 2		1.000	0	0	0	0	NR	0
DOT OPS		1.000	0	0	0	0	NR	0
CDL		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	0	0	NR	0
MINES		1.250	0	0	0	0	0	0
FINDS		1.000	0	0	0	0	NR	0
RAATS		1.000	0	0	0	0	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		2.000	0	0	0	0	0	0
CA Bond Exp. Plan		2.000	0	0	0	0	0	0
SCH		1.250	0	0	0	0	0	0
Toxic Pits		2.000	0	0	0	0	0	0
State Landfill		1.500	0	0	0	1	1	2
CA WDS		1.000	0	0	0	0	NR	0
WMUDS/SWAT		1.500	0	0	0	0	0	0
Cortese		1.500	0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWRCY		1.500	0	0	0	0	0	0
LUST		1.500	0	0	0	0	0	0
CA FID UST		1.250	0	0	0	0	0	0
SLIC		1.500	0	0	0	0	0	0
UST		1.250	0	0	0	0	0	0
HIST UST		1.250	0	0	0	0	0	0
LIENS		1.000	0	0	0	0	NR	0
AST		1.250	0	0	0	0	0	0
Fresno Co. CUPA		1.250	0	0	0	0	1	1
SWEEPS UST		1.250	0	0	0	0	0	0
CHMIRS		1.000	0	0	0	0	NR	0
Notify 65		2.000	0	0	0	0	0	0
DEED		1.500	0	0	0	0	0	0
VCP		1.500	0	0	0	0	0	0
DRYCLEANERS		1.250	0	0	0	0	0	0
WIP		1.250	0	0	0	0	0	0
CDL		1.000	0	0	0	0	NR	0
RESPONSE		2.000	0	0	0	0	0	0
HAZNET		1.000	0	0	0	0	NR	0
EMI		1.000	0	0	0	0	NR	0
HAULERS		1.000	0	0	0	0	NR	0
ENVIROSTOR		2.000	0	0	0	0	0	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		2.000	0	0	0	0	0	0
INDIAN LUST		1.500	0	0	0	0	0	0
INDIAN UST		1.250	0	0	0	0	0	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		2.000	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
WSW
1/2-1
4864 ft.

KOCHERGEN FARMS COMPOSTING
AVENAL CUTOFF RD. AND OMAHA AVE.
AVENAL, CA

SWF/LF **S105964536**
N/A

Relative:
Higher

LF:

Actual:
397 ft.

Region: STATE
Facility ID: 16-AA-0022
Facility Telephone: Not reported
Facility Telephone 2: Not reported
Lat/Long: 36.08736 / -120.07519
Land Owner: Not reported
Owner Name: Kochergen Farms
Owner Telephone: 5592778069
Owner Address: Not reported
Owner Address2: 8163 W. McKinley
Owner City,St,Zip: Fresno, CA 93722
Operator: Kochergen Farms
Operator Phone: 5592778069
Operator Address: Not reported
Operator Address2: 8163 W. McKinley
Operator City,St,Zip: Fresno, CA 93722
Operator's Status: Active
Permit Date: 12/2/2003
Permit Status: Permitted
Permitted Acreage: \$30.00
Activity: Composting Facility (Green Waste)
Regulation Status: Permitted
Land Use: Not reported
Landuse Name: Agricultural
GIS Source: GPS
Category: Composting
Unit Number: 01
Inspection Frequency: Monthly
Accepted Waste: Food Wastes,Green Materials
Year Opened: Not reported
Year Closed: Not reported
Closure Date: Not reported
Closure Type: Not reported
Closure Approve: Not reported
Disposal Acreage: Not reported
Status: Not reported
Swisnumber: 16-AA-0022
Aka: Not reported
Type Of Waste: Not reported
Disposal Area: Not reported
SWFP Date: Not reported
WDR Number: Not reported
Dates Operation: Not reported
Dt Of Field Units: Not reported
Surface Condition: Not reported
Landfill Gas: Not reported
Leachate: Not reported
Emrgncy Response: Not reported
Lea Date: Not reported
Restrictions: Not reported
Fill Area: Not reported
Type Of Refuse: Not reported
Avg Depth Of Fill: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

KOCHERGEN FARMS COMPOSTING (Continued)

EDR ID Number
EPA ID Number

Database(s)

S105964536

Addtl Expansion Area: Not reported
Site Size: Not reported
Site Type: Not reported
Site Description: Not reported
Reassess Site: Not reported
Location: Not reported
Parcel Num: Not reported
Issue & Observations: Not reported
Other Observations: Not reported
Date: Not reported
Address: Not reported
Prep By: Not reported
DOHS Number: Not reported
CUP Number: Not reported
CIWMB: Not reported
Program Type: Not reported
Public Notice: Not reported
PERMTIER: Not reported
Recommendations: Not reported
Othr Recommendation: Not reported
Sig. Change Since Last Visit: Not reported
Priority For Site Assessment: Not reported
Permitted Throughput with Units: 1000
Actual Throughput with Units: Cu Yards/day
Permitted Capacity with Units: 37000
Remaining Capacity: Not reported
Remaining Capacity with Units: Cubic Yards
Last Waste Tire Inspection Count: Not reported
Last Waste Tire Inspection Date: Not reported
Original Waste Tire Count: Not reported
Original Waste Tire Count Date: Not reported
Explanation: Not reported
No Further Action: Not reported
Issues & Observations: Not reported

2
NNE
> 1
5825 ft.

KOCHERGEN PROPERTIES
15485 W REPUBLIC
HURON, CA 93234

SWF/LF S102359976
Fresno Co. CUPA N/A

Relative:
Lower

Actual:
305 ft.

LF:
Region: STATE
Facility ID: 10-AA-0174
Facility Telephone: Not reported
Facility Telephone 2: Not reported
Lat/Long: 36.10713 / -120.05306
Land Owner: Not reported
Owner Name: Kochergen Farms
Owner Telephone: 5592778069
Owner Address: Not reported
Owner Address2: 8163 W. McKinley
Owner City,St,Zip: Fresno, CA 93722
Operator: Kochergen Farms
Operator Phone: 5592778069
Operator Address: Not reported
Operator Address2: 8163 W. McKinley
Operator City,St,Zip: Fresno, CA 93722
Operator's Status: Active

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

KOCHERGEN PROPERTIES (Continued)

S102359976

Permit Date: 6/26/1996
Permit Status: Permitted
Permitted Acreage: \$200.00
Activity: Land Application
Regulation Status: Permitted
Land Use: Not reported
Landuse Name: Rural
GIS Source: External
Category: Disposal
Unit Number: 01
Inspection Frequency: Monthly
Accepted Waste: Other designated
Year Opened: Not reported
Year Closed: Not reported
Closure Date: 7/1/2003
Closure Type: Estimated
Closure Approve: Not reported
Disposal Acreage: \$200.00
Status: Not reported
Swisnumber: 10-AA-0174
Aka: Not reported
Type Of Waste: Not reported
Disposal Area: Not reported
SWFP Date: Not reported
WDR Number: Not reported
Dates Operation: Not reported
Dt Of Field Units: Not reported
Surface Condition: Not reported
Landfill Gas: Not reported
Leachate: Not reported
Emrgncy Response: Not reported
Lea Date: Not reported
Restrictions: Not reported
Fill Area: Not reported
Type Of Refuse: Not reported
Avg Depth Of Fill: Not reported
Addtl Expansion Area: Not reported
Site Size: Not reported
Site Type: Not reported
Site Description: Not reported
Reassess Site: Not reported
Location: Not reported
Parcel Num: Not reported
Issue & Observations: Not reported
Other Observations: Not reported
Date: Not reported
Address: Not reported
Prep By: Not reported
DOHS Number: Not reported
CUP Number: Not reported
CIWMB: Not reported
Program Type: BOE Reporting Disposal Facility
Public Notice: Not reported
PERMTIER: Not reported
Recommendations: Not reported
Othr Recommendation: Not reported
Sig. Change Since Last Visit: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KOCHERGEN PROPERTIES (Continued)

S102359976

Priority For Site Assessment: Not reported
Permitted Throughput with Units: 150000
Actual Throughput with Units: Gallons/day
Permitted Capacity with Units: 150000
Remaining Capacity: Not reported
Remaining Capacity with Units: Gallons/day
Last Waste Tire Inspection Count: Not reported
Last Waste Tire Inspection Date: Not reported
Original Waste Tire Count: Not reported
Original Waste Tire Count Date: Not reported
Explanation: Not reported
No Further Action: Not reported
Issues & Observations: Not reported

Fresno Co. CUPA:

Region: Not reported
Facility ID: FA0271855
APM Number: 85-090-07,57,78
Owner Name: JOHN A KOCHERGEN PROP INC
Program Element: SOLID WASTE FACILITY-FULL PERMIT

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AVENAL	8712717	3MI E OF AVENAL/OFF:HWY-5	3MI E OF AVENAL/OFF:HWY-5		ERNS
HURON	S104576927	D ANDERSON & SONS FARMING DBA VAST	HWY 198 / 145	93234	HAZNET
HURON	S108200562	CALTRANS DIST 6/CONSTR/EA06-39810	FRES RTE 269(MEDIAN) PM 0	93234	HAZNET
HURON	S107539163		LASSEN AVE, 2 MI N OF HIGHWAY	93234	CDL
KETTLEMAN CITY	S105937108	CHEVRON PIPELINE-KETTLEMAN ALP	I-5 / HWY 41	93239	EMI
KETTLEMAN CITY	S106828562	CHEVRON USA, INC.	I-5 / HWY 41	93239	EMI
KETTLEMAN CITY	1000434419	CHEVRON USA INC KETTLEMAN STA	HWY 41	93239	RCRA-SQG
KETTLEMAN CITY	A100176297	KETTLEMAN CITY M.S. (DIST. 6)	HWY. 41 @ RACINE AVE.	93239	AST
KETTLEMAN CITY	S104573770	CHEVRON PIPE LINE COMPANY	HIGHWAY 41	93239	HAZNET
KETTLEMAN CITY	S105084051	CONWAY WESTERN EXPRESS SVCS INC	32251 HWY 41	93239	HAZNET
KETTLEMAN CITY	S106923905	CALTRANS	HWY 41 / RACINE	93239	SWEEPS UST
KETTLEMAN CITY	S108431565	CON-WAY WESTERN EXPRESS	32251 HIGHWAY 41	93239	EMI
KETTLEMAN CITY	U001581788	KETTLEMAN CITY FIRE STATION	HIGHWAY 41	93239	HIST UST
KETTLEMAN CITY	U001593055	KETTLEMAN STATION	HWY. 41	93239	HIST UST
KETTLEMAN CITY	S103479932	ARCO S/S #2170	BERNARD / HWY 41	93239	LUST, Cortese
KETTLEMAN CITY	S103479934	ARCO FAC #2170	BERNARD / HWY 41	93239	LUST, Cortese
KETTLEMAN CITY	S106922793	ARCO FAC #2170	BERNARD DR/HWY 41	93239	SWEEPS UST
KETTLEMAN CITY	S104573560	P G & E	CORNER OF QUAIL AVE / HWY 41	93239	HAZNET
KETTLEMAN CITY	S105557919	WWTF	0.75 MI E/O HWY 41	93239	CA WDS
KETTLEMAN CITY	1000210694	WEBER IMPLEMENT	32040 ORANGE AVE	93239	RCRA-SQG, FINDS
KETTLEMAN CITY	S103954550	CALTRANS DISTRICT 6	RACINE AT HWY 41	93239	HAZNET
KETTLEMAN CITY	1000149994	PARAMOUNT FARMS	STAR RTE BX 100 5	93239	RCRA-SQG, FINDS
KETTLEMAN CITY	U001581792	KOCHERGEN FARMS	STAR ROUTE 35	93239	HIST UST
KETTLEMEN CITY	S103479935	ARCO FAC #2170	BERNARD DR / HWY 41	93239	LUST

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.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

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: 07/18/2007	Source: EPA
Date Data Arrived at EDR: 08/03/2007	Telephone: N/A
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 07/31/2007
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/31/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 06/25/2007	Last EDR Contact: 08/29/2007
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by 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 received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991

Date Data Arrived at EDR: 02/02/1994

Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267

Last EDR Contact: 08/20/2007

Next Scheduled EDR Contact: 11/19/2007

Data Release Frequency: No Update Planned

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 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: 04/23/2007

Date Data Arrived at EDR: 06/20/2007

Date Made Active in Reports: 08/29/2007

Number of Days to Update: 70

Source: EPA

Telephone: 703-412-9810

Last EDR Contact: 09/19/2007

Next Scheduled EDR Contact: 12/17/2007

Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/21/2007

Date Data Arrived at EDR: 07/23/2007

Date Made Active in Reports: 08/29/2007

Number of Days to Update: 37

Source: EPA

Telephone: 703-412-9810

Last EDR Contact: 09/17/2007

Next Scheduled EDR Contact: 12/17/2007

Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/26/2007

Date Data Arrived at EDR: 08/08/2007

Date Made Active in Reports: 08/29/2007

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346

Last EDR Contact: 09/04/2007

Next Scheduled EDR Contact: 12/03/2007

Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: (415) 495-8895
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/04/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2006	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/24/2007	Telephone: 202-267-2180
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 07/23/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 07/02/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/18/2007	Telephone: 202-366-4555
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 07/18/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8905
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 10/01/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/31/2007
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8905
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 10/01/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/31/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 08/09/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 11/05/2007
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 10/01/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/31/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2007	Telephone: 202-566-2777
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/10/2007
Number of Days to Update: 51	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

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: 04/13/2007	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 07/16/2007	Telephone: Varies
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 08/23/2007
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 06/08/2007	Source: EPA
Date Data Arrived at EDR: 07/03/2007	Telephone: 703-416-0223
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 10/01/2007
Number of Days to Update: 57	Next Scheduled EDR Contact: 12/31/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/08/2006	Telephone: 505-845-0011
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 09/19/2007
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

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: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 04/27/2007	Telephone: 202-566-0250
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 09/18/2007
Number of Days to Update: 69	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/30/2007
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Every 4 Years

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

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: 07/06/2007	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/20/2007	Telephone: 202-566-1667
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/06/2007	Source: EPA
Date Data Arrived at EDR: 07/20/2007	Telephone: 202-566-1667
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 03/13/2007	Telephone: 202-564-4203
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 09/12/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2007	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/30/2007	Telephone: 202-366-4595
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/29/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/26/2007
	Data Release Frequency: Varies

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 06/29/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/02/2007	Telephone: 202-564-5088
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 06/22/2007
Number of Days to Update: 58	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 01/08/2007
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 3

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/28/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/31/2007
Date Data Arrived at EDR: 08/01/2007
Date Made Active in Reports: 08/29/2007
Number of Days to Update: 28

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 08/01/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/08/2007
Date Data Arrived at EDR: 04/12/2007
Date Made Active in Reports: 05/14/2007
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Varies

PADS: PCB Activity Database System

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: 04/12/2007
Date Data Arrived at EDR: 06/08/2007
Date Made Active in Reports: 08/29/2007
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 08/09/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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: 07/09/2007
Date Data Arrived at EDR: 07/24/2007
Date Made Active in Reports: 09/18/2007
Number of Days to Update: 56

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/09/2007
Date Data Arrived at EDR: 06/28/2007
Date Made Active in Reports: 08/29/2007
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/26/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/19/2007
Date Data Arrived at EDR: 07/25/2007
Date Made Active in Reports: 09/18/2007
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 08/31/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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: 12/31/2005
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 38

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/12/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Biennially

USGS WATER WELLS: National Water Information System (NWIS)

This database consists of well records in the United States. Available site descriptive information includes well location information (latitude and longitude, well depth, site use, water use, and aquifer).

Date of Government Version: 03/25/2005
Date Data Arrived at EDR: 03/25/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: USGS
Telephone: N/A
Last EDR Contact: 03/25/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

PWS: Public Water System Data

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 02/24/2000
Date Data Arrived at EDR: 04/27/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA
Telephone: N/A
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: N/A

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 08/27/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA BOND EXP. PLAN: Bond Expenditure Plan

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

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/28/2007
Date Data Arrived at EDR: 08/29/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

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

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/12/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 16

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 09/12/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

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

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 09/17/2007
Next Scheduled EDR Contact: 12/17/2007
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 07/09/2007
Date Data Arrived at EDR: 07/11/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 07/16/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/06/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2007

Date Data Arrived at EDR: 08/01/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 8

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834

Last EDR Contact: 08/01/2007

Next Scheduled EDR Contact: 10/01/2007

Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004

Date Data Arrived at EDR: 09/07/2004

Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710

Last EDR Contact: 09/24/2007

Next Scheduled EDR Contact: 12/24/2007

Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003

Date Data Arrived at EDR: 05/19/2003

Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786

Last EDR Contact: 08/13/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004

Date Data Arrived at EDR: 10/20/2004

Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433

Last EDR Contact: 07/09/2007

Next Scheduled EDR Contact: 10/08/2007

Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001

Date Data Arrived at EDR: 02/28/2001

Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769

Last EDR Contact: 08/20/2007

Next Scheduled EDR Contact: 11/19/2007

Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

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. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/10/2007

Date Data Arrived at EDR: 07/11/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 29

Source: State Water Resources Control Board

Telephone: see region list

Last EDR Contact: 07/11/2007

Next Scheduled EDR Contact: 10/08/2007

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004

Date Data Arrived at EDR: 02/26/2004

Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943

Last EDR Contact: 08/20/2007

Next Scheduled EDR Contact: 11/19/2007

Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

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

Date of Government Version: 10/31/1994

Date Data Arrived at EDR: 09/05/1995

Date Made Active in Reports: 09/29/1995

Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851

Last EDR Contact: 12/28/1998

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 08/03/2007

Date Data Arrived at EDR: 08/03/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 6

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 08/03/2007

Next Scheduled EDR Contact: 10/08/2007

Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003

Date Data Arrived at EDR: 04/07/2003

Date Made Active in Reports: 04/25/2003

Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)

Telephone: 707-576-2220

Last EDR Contact: 08/20/2007

Next Scheduled EDR Contact: 11/19/2007

Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004

Date Data Arrived at EDR: 10/20/2004

Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457

Last EDR Contact: 07/09/2007

Next Scheduled EDR Contact: 10/08/2007

Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006

Date Data Arrived at EDR: 05/18/2006

Date Made Active in Reports: 06/15/2006

Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147

Last EDR Contact: 08/13/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 07/17/2007
Date Data Arrived at EDR: 07/18/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 22

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 09/10/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/10/2007
Date Data Arrived at EDR: 07/11/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Semi-Annually

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/25/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 29

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Varies

HIST UST: Hazardous Substance Storage Container Database

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

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/27/2007
Date Data Arrived at EDR: 08/28/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/2007
Date Data Arrived at EDR: 05/01/2007
Date Made Active in Reports: 05/25/2007
Number of Days to Update: 24

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/23/2007
Date Made Active in Reports: 04/06/2007
Number of Days to Update: 42

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

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

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 07/16/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 07/02/2007
Date Data Arrived at EDR: 07/03/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/03/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/28/2007
Date Data Arrived at EDR: 08/29/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2007
Date Data Arrived at EDR: 07/31/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 9

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/01/2007
Next Scheduled EDR Contact: 12/31/2007
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 03/13/2007
Date Made Active in Reports: 04/06/2007
Number of Days to Update: 24

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/27/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/07/2007
Date Made Active in Reports: 04/06/2007
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/28/2007
Date Data Arrived at EDR: 08/29/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/20/2006
Date Made Active in Reports: 01/03/2007
Number of Days to Update: 44

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 08/09/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/17/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 23

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/20/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Varies

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/17/2007
Date Data Arrived at EDR: 09/18/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 09/10/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/28/2007
Date Data Arrived at EDR: 08/29/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/09/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/14/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 21

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/30/2007
Date Data Arrived at EDR: 05/31/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 35

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/20/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/20/2007	Source: EPA Region 4
Date Data Arrived at EDR: 04/16/2007	Telephone: 404-562-8677
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006	Source: EPA Region 1
Date Data Arrived at EDR: 12/01/2006	Telephone: 617-918-1313
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 59	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/23/2007	Source: EPA Region 10
Date Data Arrived at EDR: 05/24/2007	Telephone: 206-553-2857
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/18/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/18/2007	Telephone: 415-972-3372
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2007	Source: EPA Region 7
Date Data Arrived at EDR: 06/14/2007	Telephone: 913-551-7003
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2007	Source: EPA Region 6
Date Data Arrived at EDR: 06/07/2007	Telephone: 214-665-7591
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/18/2007	Source: EPA Region 9
Date Data Arrived at EDR: 06/18/2007	Telephone: 415-972-3368
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006	Source: EPA, Region 1
Date Data Arrived at EDR: 12/01/2006	Telephone: 617-918-1313
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 59	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 05/30/2007	Source: EPA Region 8
Date Data Arrived at EDR: 05/31/2007	Telephone: 303-312-6137
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 03/20/2007	Source: EPA Region 4
Date Data Arrived at EDR: 04/16/2007	Telephone: 404-562-9424
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 05/23/2007	Source: EPA Region 10
Date Data Arrived at EDR: 05/24/2007	Telephone: 206-553-2857
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 08/20/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL RECORDS

COLLEGES: Integrated Postsecondary Education Data

The National Center for Education Statistics' primary database on integrated postsecondary education in the United States.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/12/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: National Center for Education Statistics
Telephone: 202-502-7300
Last EDR Contact: 09/22/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

PUBLIC SCHOOLS: Public Schools

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/13/2004
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: National Center for Education statistics
Telephone: 202-502-7300
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: N/A

PRIVATE SCHOOLS: Private Schools of the United States

The National Center for Education Statistics' primary database on private school locations in the United States.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/07/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: National Center for Education Statistics
Telephone: 202-502-7300
Last EDR Contact: 09/22/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

NURSING HOMES: Directory of Nursing Homes

Information on Medicare and Medicaid certified nursing homes in the United States.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: N/A
Telephone: 800-568-3282
Last EDR Contact: 09/22/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

MEDICAL CENTERS: Provider of Services Listing

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health & Human Services.

Date of Government Version: 06/01/1998
Date Data Arrived at EDR: 11/10/2005
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
Last EDR Contact: 01/12/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

HOSPITALS: AHA Hospital Guide

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/19/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: American Hospital Association
Telephone: 800-242-2626
Last EDR Contact: 09/22/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/03/2007
Date Data Arrived at EDR: 08/07/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 50

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 08/03/2007
Date Data Arrived at EDR: 08/07/2007
Date Made Active in Reports: 09/24/2007
Number of Days to Update: 48

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

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

Date of Government Version: 09/11/2007
Date Data Arrived at EDR: 09/14/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 14

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 09/10/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

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

Date of Government Version: 07/16/2007
Date Data Arrived at EDR: 07/17/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 23

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 08/06/2007
Next Scheduled EDR Contact: 11/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 06/20/2007
Date Data Arrived at EDR: 06/21/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/17/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998

Date Data Arrived at EDR: 07/07/1999

Date Made Active in Reports: N/A

Number of Days to Update: 0

Source: EPA Region 9

Telephone: 415-972-3178

Last EDR Contact: 07/16/2007

Next Scheduled EDR Contact: 10/15/2007

Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2007

Date Data Arrived at EDR: 08/27/2007

Date Made Active in Reports: 09/26/2007

Number of Days to Update: 30

Source: Department of Public Works

Telephone: 626-458-3517

Last EDR Contact: 08/13/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 08/17/2007

Date Data Arrived at EDR: 09/24/2007

Date Made Active in Reports: 09/28/2007

Number of Days to Update: 4

Source: La County Department of Public Works

Telephone: 818-458-5185

Last EDR Contact: 08/17/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2007

Date Data Arrived at EDR: 03/27/2007

Date Made Active in Reports: 04/27/2007

Number of Days to Update: 31

Source: Engineering & Construction Division

Telephone: 213-473-7869

Last EDR Contact: 09/10/2007

Next Scheduled EDR Contact: 12/10/2007

Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/30/2007

Date Data Arrived at EDR: 07/11/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 29

Source: Community Health Services

Telephone: 323-890-7806

Last EDR Contact: 09/20/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 05/14/2007

Date Data Arrived at EDR: 05/15/2007

Date Made Active in Reports: 06/25/2007

Number of Days to Update: 41

Source: City of El Segundo Fire Department

Telephone: 310-524-2236

Last EDR Contact: 08/13/2007

Next Scheduled EDR Contact: 11/12/2007

Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003

Date Data Arrived at EDR: 10/23/2003

Date Made Active in Reports: 11/26/2003

Number of Days to Update: 34

Source: City of Long Beach Fire Department

Telephone: 562-570-2563

Last EDR Contact: 08/23/2007

Next Scheduled EDR Contact: 11/19/2007

Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 05/29/2007
Date Data Arrived at EDR: 05/29/2007
Date Made Active in Reports: 06/25/2007
Number of Days to Update: 27

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 11/12/2007
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 05/08/2007
Date Data Arrived at EDR: 06/08/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 47

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 09/24/2007
Date Data Arrived at EDR: 09/25/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 3

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 07/24/2007
Date Data Arrived at EDR: 07/27/2007
Date Made Active in Reports: 09/07/2007
Number of Days to Update: 42

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/19/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 10

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/31/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/19/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 10

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/31/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 06/01/2007

Date Data Arrived at EDR: 06/19/2007

Date Made Active in Reports: 07/25/2007

Number of Days to Update: 36

Source: Health Care Agency

Telephone: 714-834-3446

Last EDR Contact: 08/31/2007

Next Scheduled EDR Contact: 12/03/2007

Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007

Date Data Arrived at EDR: 07/23/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 17

Source: Placer County Health and Human Services

Telephone: 530-889-7312

Last EDR Contact: 09/17/2007

Next Scheduled EDR Contact: 12/17/2007

Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/06/2007

Date Data Arrived at EDR: 08/07/2007

Date Made Active in Reports: 09/26/2007

Number of Days to Update: 50

Source: Department of Public Health

Telephone: 951-358-5055

Last EDR Contact: 07/16/2007

Next Scheduled EDR Contact: 10/15/2007

Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 08/06/2007

Date Data Arrived at EDR: 08/07/2007

Date Made Active in Reports: 09/24/2007

Number of Days to Update: 48

Source: Health Services Agency

Telephone: 951-358-5055

Last EDR Contact: 07/16/2007

Next Scheduled EDR Contact: 10/15/2007

Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/07/2007

Date Data Arrived at EDR: 08/08/2007

Date Made Active in Reports: 09/26/2007

Number of Days to Update: 49

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Last EDR Contact: 07/31/2007

Next Scheduled EDR Contact: 10/29/2007

Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

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

Date of Government Version: 08/07/2007

Date Data Arrived at EDR: 08/08/2007

Date Made Active in Reports: 09/26/2007

Number of Days to Update: 49

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Last EDR Contact: 07/31/2007

Next Scheduled EDR Contact: 10/29/2007

Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Permits

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

Date of Government Version: 06/27/2007
Date Data Arrived at EDR: 06/29/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

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

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 07/05/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 01/03/2007
Date Made Active in Reports: 01/24/2007
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 06/27/2007
Date Data Arrived at EDR: 07/20/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 20

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 07/03/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/07/2007
Date Data Arrived at EDR: 09/07/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 21

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/07/2007
Date Data Arrived at EDR: 09/07/2007
Date Made Active in Reports: 09/24/2007
Number of Days to Update: 17

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/04/2007
Next Scheduled EDR Contact: 12/03/2007
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 08/21/2007
Date Data Arrived at EDR: 08/22/2007
Date Made Active in Reports: 09/24/2007
Number of Days to Update: 33

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

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

Date of Government Version: 07/30/2007
Date Data Arrived at EDR: 07/30/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 10

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 07/09/2007
Date Data Arrived at EDR: 07/10/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 30

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county.
Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/26/2007
Date Data Arrived at EDR: 03/27/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 31

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/24/2007
Next Scheduled EDR Contact: 12/24/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/17/2007

Date Data Arrived at EDR: 09/17/2007

Date Made Active in Reports: 09/28/2007

Number of Days to Update: 11

Source: City of San Jose Fire Department

Telephone: 408-277-4659

Last EDR Contact: 09/17/2007

Next Scheduled EDR Contact: 12/03/2007

Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 07/09/2007

Date Data Arrived at EDR: 08/03/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 6

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770

Last EDR Contact: 09/24/2007

Next Scheduled EDR Contact: 12/24/2007

Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 07/09/2007

Date Data Arrived at EDR: 08/03/2007

Date Made Active in Reports: 09/24/2007

Number of Days to Update: 52

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770

Last EDR Contact: 09/24/2007

Next Scheduled EDR Contact: 12/24/2007

Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/09/2007

Date Data Arrived at EDR: 07/09/2007

Date Made Active in Reports: 08/09/2007

Number of Days to Update: 31

Source: Department of Health Services

Telephone: 707-565-6565

Last EDR Contact: 07/09/2007

Next Scheduled EDR Contact: 10/22/2007

Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007

Date Data Arrived at EDR: 05/04/2007

Date Made Active in Reports: 05/24/2007

Number of Days to Update: 20

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500

Last EDR Contact: 10/01/2007

Next Scheduled EDR Contact: 12/31/2007

Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/30/2007
Date Data Arrived at EDR: 06/22/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 7

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/12/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2007
Date Data Arrived at EDR: 08/29/2007
Date Made Active in Reports: 09/26/2007
Number of Days to Update: 28

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/21/2007
Next Scheduled EDR Contact: 11/19/2007
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/05/2007
Date Data Arrived at EDR: 06/21/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/12/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/26/2007
Date Data Arrived at EDR: 07/27/2007
Date Made Active in Reports: 09/07/2007
Number of Days to Update: 42

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 07/30/2007
Date Data Arrived at EDR: 09/04/2007
Date Made Active in Reports: 09/24/2007
Number of Days to Update: 20

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/15/2007
Date Made Active in Reports: 08/20/2007
Number of Days to Update: 66

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 09/12/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 04/01/2007
Date Data Arrived at EDR: 04/05/2007
Date Made Active in Reports: 05/08/2007
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/03/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/27/2007
Date Data Arrived at EDR: 08/30/2007
Date Made Active in Reports: 09/21/2007
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2007
Next Scheduled EDR Contact: 11/26/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 08/23/2007
Date Made Active in Reports: 09/27/2007
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/10/2007
Next Scheduled EDR Contact: 12/10/2007
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/12/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/17/2007
Next Scheduled EDR Contact: 12/17/2007
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 04/27/2007
Date Made Active in Reports: 06/08/2007
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FEDERAL POWER - AVENAL
AVENAL CUTOFF
AVENAL, CA 93239

TARGET PROPERTY COORDINATES

Latitude (North):	36.09210 - 36° 5' 31.6"
Longitude (West):	120.0598 - 120° 3' 35.3"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	764726.9
UTM Y (Meters):	3997966.2
Elevation:	334 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	36120-A1 LA CIMA, CA
Most Recent Revision:	1978

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

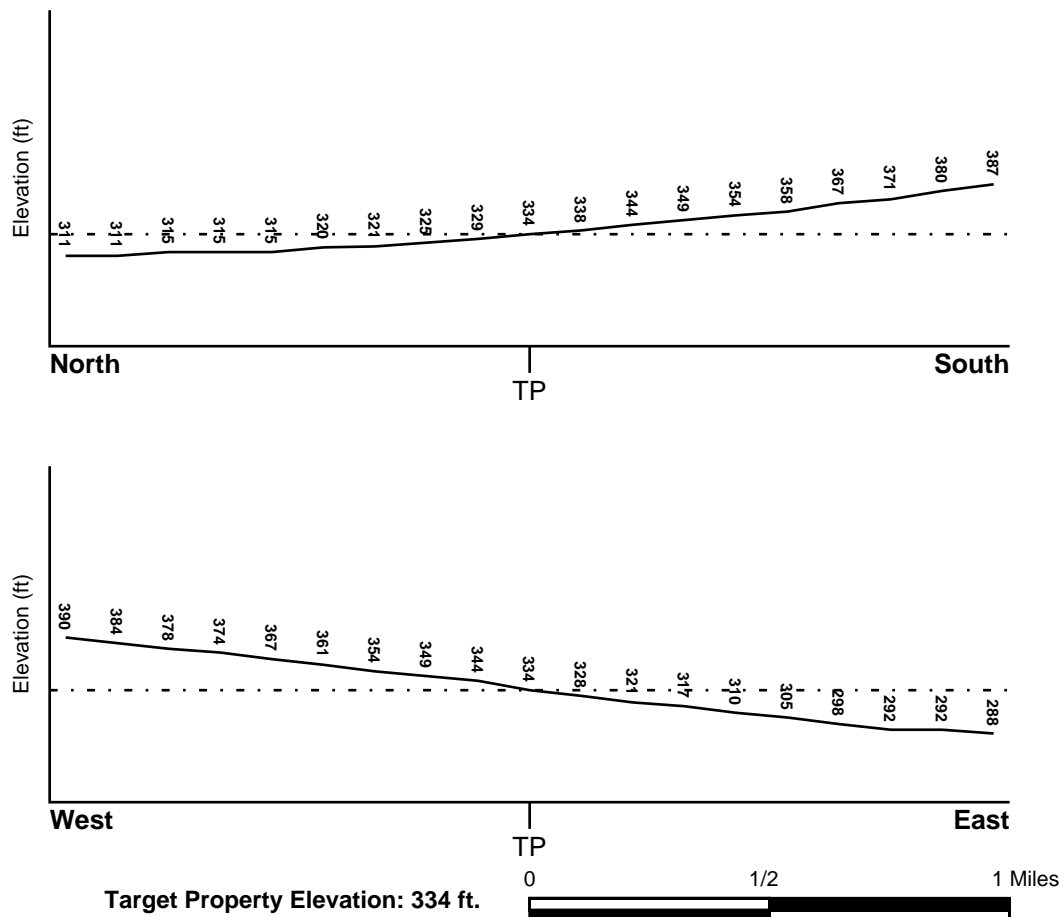
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
KINGS, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0650730005A

Additional Panels in search area: 0650291725B
0600860175B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
LA CIMA

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

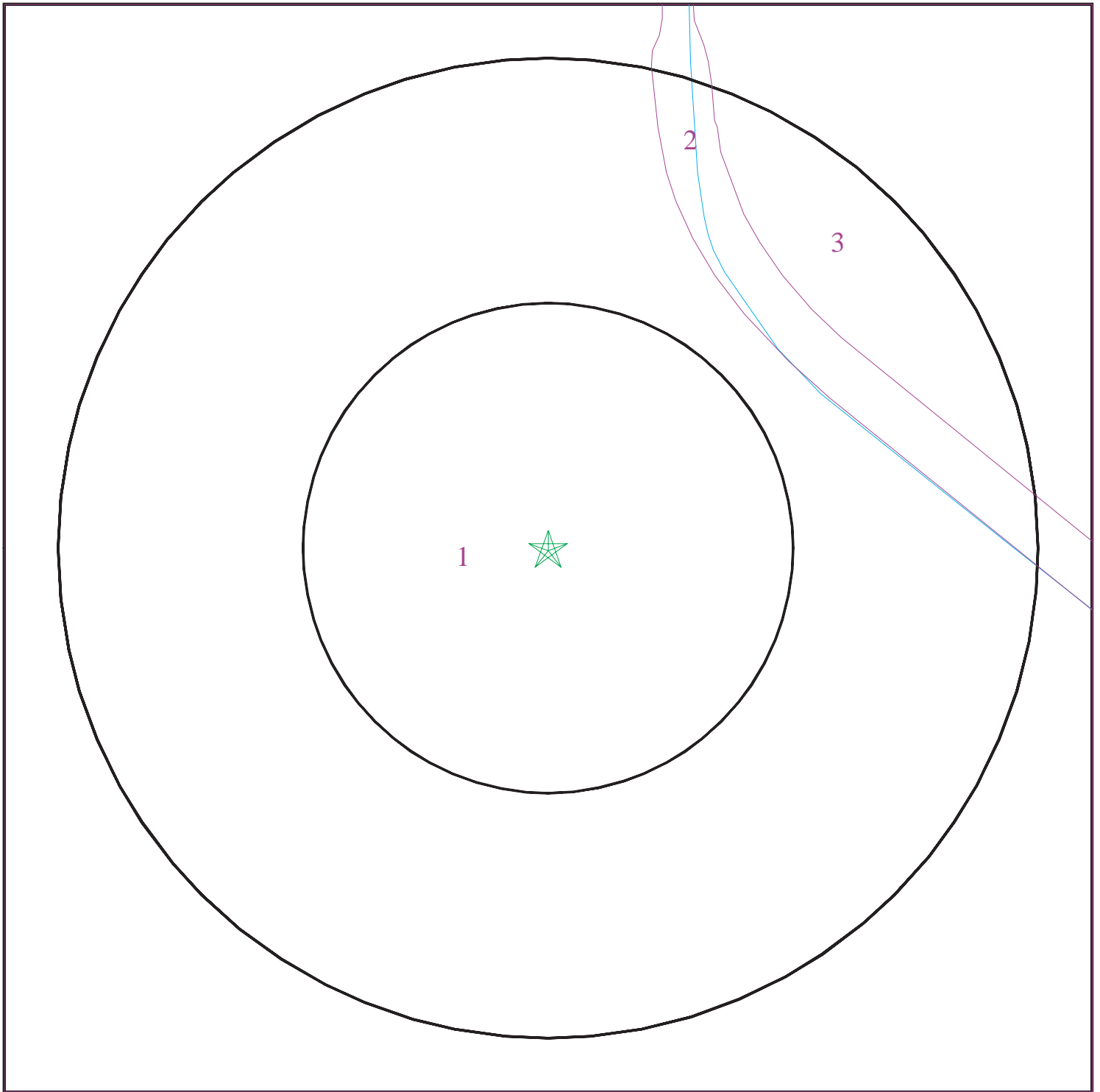
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 2041704.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Federal Power - Avenal
ADDRESS: Avenal Cutoff
Avenal CA 93239
LAT/LONG: 36.0921 / 120.0598

CLIENT: TRC
CONTACT: Carole Missirlian
INQUIRY #: 2041704.2s
DATE: October 01, 2007 4:16 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WASCO

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
1	0 inches	20 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.10
2	12 inches	60 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.90

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	20 inches	60 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 6.60

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	60 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.90

Soil Map ID: 3

Soil Component Name: MILHAM

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	3 inches	15 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.80 Min: 7.40
2	14 inches	32 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.90
3	15 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
3	32 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 8.40 Min: 7.90

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	USGS3205099	1/4 - 1/2 Mile NE
A4	USGS3205098	1/4 - 1/2 Mile NE
B6	USGS3205083	1/4 - 1/2 Mile SSE
C10	USGS3205084	1/4 - 1/2 Mile SW
E16	USGS3205107	1/2 - 1 Mile NNE
E17	USGS3205106	1/2 - 1 Mile NNE
18	USGS3205094	1/2 - 1 Mile ENE
F19	USGS3205072	1/2 - 1 Mile SSE
G21	USGS3205102	1/2 - 1 Mile WNW
I25	USGS3205079	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

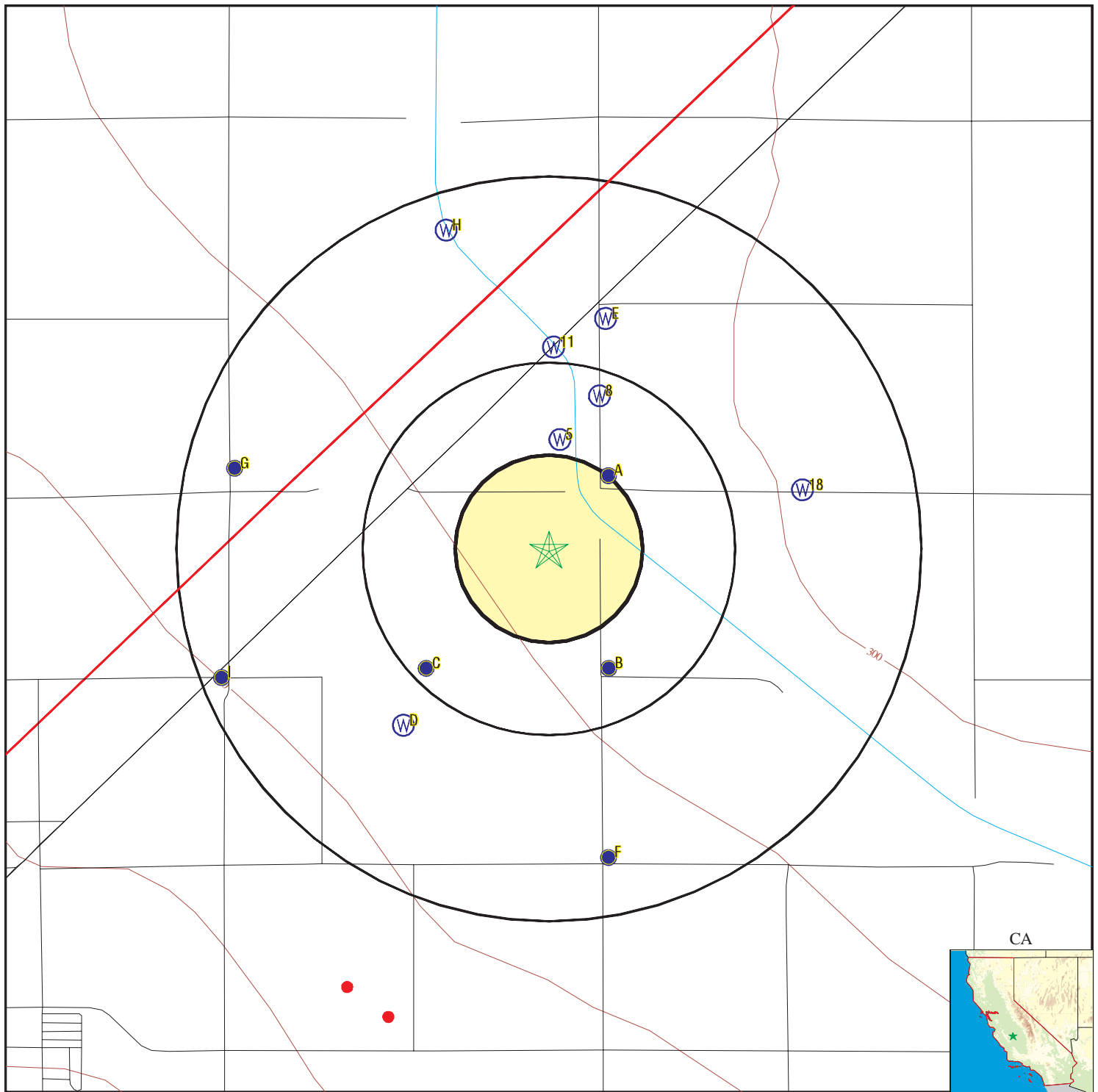
MAP ID	WELL ID	LOCATION FROM TP
A1	CADW10000026899	1/8 - 1/4 Mile NE
A2	CADW10000026900	1/8 - 1/4 Mile NE
5	CADW10000026913	1/4 - 1/2 Mile North
B7	CADW10000026837	1/4 - 1/2 Mile SSE
8	CADW10000026926	1/4 - 1/2 Mile NNE
C9	CADW10000026838	1/4 - 1/2 Mile SW
11	CADW10000026932	1/2 - 1 Mile North
D12	23480	1/2 - 1 Mile SW
D13	23479	1/2 - 1 Mile SW
D14	23482	1/2 - 1 Mile SW
D15	23481	1/2 - 1 Mile SW
F20	CADW10000026784	1/2 - 1 Mile South
G22	CADW10000026906	1/2 - 1 Mile WNW
H23	CADW10000026960	1/2 - 1 Mile NNW
H24	CADW10000026959	1/2 - 1 Mile NNW
I26	CADW10000026839	1/2 - 1 Mile WSW
I27	CADW10000026825	1/2 - 1 Mile WSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1 - 2 Miles SSW	1 - 2 Miles SSW

PHYSICAL SETTING SOURCE MAP - 2041704.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Federal Power - Avenal
 ADDRESS: Avenal Cutoff
 Avenal CA 93239
 LAT/LONG: 36.0921 / 120.0598

CLIENT: TRC
 CONTACT: Carole Missirlian
 INQUIRY #: 2041704.2s
 DATE: October 01, 2007 4:16 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NE
1/8 - 1/4 Mile
Lower

CA WELLS CADW10000026899

Longn: -120.0561
Latn: 36.095
Stwellno: 21S18E17N001M
Districtco: 8
Wellusecod: Z
Countycode: 10
Gwcode: 502209
Site id: CADW10000026899

A2
NE
1/8 - 1/4 Mile
Lower

CA WELLS CADW10000026900

Longn: -120.0561
Latn: 36.095
Stwellno: 21S18E17N002M
Districtco: 8
Wellusecod: Z
Countycode: 10
Gwcode: 502209
Site id: CADW10000026900

A3
NE
1/4 - 1/2 Mile
Lower

FED USGS USGS3205099

Agency cd:	USGS	Site no:	360542120032102
Site name:	021S018E17N002M		
Latitude:	360542		
Longitude:	1200321	Dec lat:	36.09495369
Dec lon:	-120.05680379	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	320.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19620101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	300	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
Water quality data end date: 0000-00-00
Ground water data begin date: 1962-11-01
Ground water data count: 1

Water quality data begin date: 0000-00-00
Water quality data count: 0
Ground water data end date: 1962-11-01

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-11-01	219.00	

A4
NE
1/4 - 1/2 Mile
Lower

FED USGS USGS3205098

Agency cd:	USGS	Site no:	360542120032101
Site name:	021S018E17N001M		
Latitude:	360542		
Longitude:	1200321	Dec lat:	36.09495369
Dec lon:	-120.05680379	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	320.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19510101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	650	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1957-05-01	Ground water data end date:	1957-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1957-05-01	209.00	

5
North
1/4 - 1/2 Mile
Lower

CA WELLS CADW10000026913

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longn: -120.0583
 Latn: 36.0964
 Stwellno: 21S18E18R001M
 Districtco: 8
 Wellusecod: Z
 Countycode: 16
 Gwcode: 502209
 Site id: CADW10000026913

B6
SSE
 1/4 - 1/2 Mile
 Higher

FED USGS USGS3205083

Agency cd:	USGS	Site no:	360515120032201
Site name:	021S018E20E001M		
Latitude:	360515		
Longitude:	1200322	Dec lat:	36.08745374
Dec lon:	-120.05708147	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	340.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19520101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	795	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1957-05-01	Ground water data end date:	1957-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1957-05-01	229.00	

B7
SSE
 1/4 - 1/2 Mile
 Higher

CA WELLS CADW10000026837

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longn: -120.0558
Latn: 36.0875
Stwellno: 21S18E20E001M
Districtco: 8
Wellusecod: Z
Countycode: 16
Gwcode: 502209
Site id: CADW10000026837

8
NNE
1/4 - 1/2 Mile
Lower

CA WELLS CADW10000026926

Longn: -120.0564
Latn: 36.0981
Stwellno: 21S18E17N003M
Districtco: 8
Wellusecod: Z
Countycode: 10
Gwcode: 502209
Site id: CADW10000026926

C9
SW
1/4 - 1/2 Mile
Higher

CA WELLS CADW10000026838

Longn: -120.0647
Latn: 36.0875
Stwellno: 21S18E19G001M
Districtco: 8
Wellusecod: Z
Countycode: 16
Gwcode: 502209
Site id: CADW10000026838

C10
SW
1/4 - 1/2 Mile
Higher

FED USGS USGS3205084

Agency cd:	USGS	Site no:	360515120035301
Site name:	021S018E19G001M		
Latitude:	360515		
Longitude:	1200353	Dec lat:	36.08745383
Dec lon:	-120.06569285	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	370.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19530101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	770	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
North
1/2 - 1 Mile
Lower

CA WELLS CADW10000026932

Longn:	-120.0586
Latn:	36.1
Stwellno:	21S18E18J002M
Districtco:	8
Wellusecod:	Z
Countycode:	16
Gwcode:	502211
Site id:	CADW10000026932

D12
SW
1/2 - 1 Mile
Higher

CA WELLS 23480

Water System Information:

Prime Station Code:	L16/002-AVLTRD2	User ID:	CYA
FRDS Number:	1610002007	County:	Kings
District Number:	12	Station Type:	STREAM/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Treated
Source Lat/Long:	360507.5 1200357.3	Precision:	1,000 Feet (10 Seconds)
Source Name:	TREATMENT PLANT NO. 2 - TREATED		
System Number:	1610002		
System Name:	CITY OF AVENAL		
Organization That Operates System:	919 SKYLINE BLVD. AVENAL 93204		
Pop Served:	11073	Connections:	1500
Area Served:	AVENAL		
Sample Collected:	01/02/2002 00:00:00	Findings:	3.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/24/2002 00:00:00	Findings:	2.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/01/2002 00:00:00	Findings:	2.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/05/2002 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/03/2002 00:00:00	Findings:	3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/07/2002 00:00:00	Findings:	1.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/02/2002 00:00:00	Findings:	3.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/05/2003 00:00:00	Findings:	3.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/02/2003 00:00:00	Findings:	1.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/06/2003 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/07/2003 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/04/2003 00:00:00	Findings:	1.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/02/2003 00:00:00	Findings:	2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/06/2004 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/16/2004 00:00:00	Findings:	1.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/06/2004 00:00:00	Findings:	3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2004 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2004 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/03/2004 00:00:00	Findings:	1.04 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/08/2004 00:00:00	Findings:	2.89 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/12/2004 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/12/2004 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/02/2004 00:00:00	Findings:	1.51 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2004 00:00:00	Findings:	1.87 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/02/2005 00:00:00	Findings:	4.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/13/2005 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/01/2005 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/13/2005 00:00:00	Findings:	2.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/03/2005 00:00:00	Findings:	2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/09/2005 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2005 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

**D13
SW
1/2 - 1 Mile
Higher**

CA WELLS 23479

Water System Information:

Prime Station Code:	L16/002-AVLTRD1	User ID:	CYA
FRDS Number:	1610002008	County:	Kings
District Number:	12	Station Type:	STREAM/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Treated
Source Lat/Long:	360507.3 1200357.2	Precision:	1,000 Feet (10 Seconds)
Source Name:	TREATMENT PLANT NO. 1 - TREATED		
System Number:	1610002		
System Name:	CITY OF AVENAL		
Organization That Operates System:	919 SKYLINE BLVD. AVENAL 93204		
Pop Served:	11073	Connections:	1500
Area Served:	AVENAL		
Sample Collected:	01/02/2002 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/24/2002 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/01/2002 00:00:00	Findings:	2.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/05/2002 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/03/2002 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/07/2002 00:00:00	Findings:	1.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/02/2002 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/05/2003 00:00:00	Findings:	3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/02/2003 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/06/2003 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/04/2003 00:00:00	Findings:	1.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/02/2003 00:00:00	Findings:	2.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/06/2004 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/16/2004 00:00:00	Findings:	1.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/06/2004 00:00:00	Findings:	3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2004 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2004 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/03/2004 00:00:00	Findings:	1.16 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/08/2004 00:00:00	Findings:	2.67 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/02/2004 00:00:00	Findings:	1.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2004 00:00:00	Findings:	2.11 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/02/2005 00:00:00	Findings:	4.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/13/2005 00:00:00	Findings:	2.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/01/2005 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/13/2005 00:00:00	Findings:	2.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/03/2005 00:00:00	Findings:	2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/09/2005 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2005 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

**D14
SW
1/2 - 1 Mile
Higher**

CA WELLS 23482

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	L16/002-AVNLTRD	User ID:	CYA
FRDS Number:	1610002002	County:	Kings
District Number:	12	Station Type:	STREAM/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Combined Treated
Source Lat/Long:	360507.0 1200357.0	Precision:	100 Feet (one Second)
Source Name:	WTP 1 & 2 COMBINED EFFLUENT - TREATED		
System Number:	1610002		
System Name:	CITY OF AVENAL		
Organization That Operates System:	919 SKYLINE BLVD. AVENAL 93204		
Pop Served:	11073	Connections:	1500
Area Served:	AVENAL		

**D15
SW
1/2 - 1 Mile
Higher**

CA WELLS 23481

Water System Information:

Prime Station Code:	L16/002-AVNLRAW	User ID:	CYA
FRDS Number:	1610002001	County:	Kings
District Number:	12	Station Type:	STREAM/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Raw
Source Lat/Long:	360507.0 1200357.0	Precision:	100 Feet (one Second)
Source Name:	CALIFORNIA AQUEDUCT - RAW		
System Number:	1610002		
System Name:	CITY OF AVENAL		
Organization That Operates System:	919 SKYLINE BLVD. AVENAL 93204		
Pop Served:	11073	Connections:	1500
Area Served:	AVENAL		
Sample Collected:	01/02/2002 00:00:00	Findings:	7.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/24/2002 00:00:00	Findings:	3.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/01/2002 00:00:00	Findings:	3.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/05/2002 00:00:00	Findings:	3.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/02/2002 00:00:00	Findings:	3.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/05/2003 00:00:00	Findings:	4.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/04/2003 00:00:00	Findings:	460 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/04/2003 00:00:00	Findings:	200 UG/L
Chemical:	BORON		
Sample Collected:	06/04/2003 00:00:00	Findings:	4 UG/L
Chemical:	VANADIUM		
Sample Collected:	07/02/2003 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/23/2003 00:00:00	Findings:	350 US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	1.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/21/2003 00:00:00	Findings:	205 UG/L
Chemical:	BORON		
Sample Collected:	11/04/2003 00:00:00	Findings:	2.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/02/2003 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/06/2004 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/06/2004 00:00:00	Findings:	180 UG/L
Chemical:	BORON		
Sample Collected:	03/16/2004 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/06/2004 00:00:00	Findings:	4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/06/2004 00:00:00	Findings:	150 UG/L
Chemical:	BORON		
Sample Collected:	05/04/2004 00:00:00	Findings:	3.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2004 00:00:00	Findings:	3.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	2.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	2.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/02/2004 00:00:00	Findings:	.09 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/13/2004 00:00:00	Findings:	400 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/13/2004 00:00:00	Findings:	400 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/13/2004 00:00:00	Findings:	130 UG/L
Chemical:	BORON		
Sample Collected:	07/13/2004 00:00:00	Findings:	4 UG/L
Chemical:	VANADIUM		
Sample Collected:	08/03/2004 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/08/2004 00:00:00	Findings:	3.09 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/12/2004 00:00:00	Findings:	2.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2004 00:00:00	Findings:	2.25 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/13/2005 00:00:00	Findings:	4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/01/2005 00:00:00	Findings:	3.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/13/2005 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/13/2005 00:00:00	Findings:	.85 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/03/2005 00:00:00	Findings:	3.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/02/2005 00:00:00	Findings:	2 MFL
Chemical:	ASBESTOS		
Sample Collected:	11/02/2005 00:00:00	Findings:	25 UNITS
Chemical:	COLOR		
Sample Collected:	11/02/2005 00:00:00	Findings:	400 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/02/2005 00:00:00	Findings:	8
Chemical:	PH, LABORATORY		
Sample Collected:	11/02/2005 00:00:00	Findings:	72 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	11/02/2005 00:00:00	Findings:	88 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/02/2005 00:00:00	Findings:	85 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	11/02/2005 00:00:00	Findings:	16 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/02/2005 00:00:00	Findings:	11 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/02/2005 00:00:00	Findings:	44 MG/L
Chemical:	SODIUM		
Sample Collected:	11/02/2005 00:00:00	Findings:	2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/02/2005 00:00:00	Findings:	64 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/02/2005 00:00:00	Findings:	440 UG/L
Chemical:	IRON		
Sample Collected:	11/02/2005 00:00:00	Findings:	50 UG/L
Chemical:	MANGANESE		
Sample Collected:	11/02/2005 00:00:00	Findings:	290 UG/L
Chemical:	ALUMINUM		
Sample Collected:	11/02/2005 00:00:00	Findings:	230 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/02/2005 00:00:00	Findings:	- .042
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11/02/2005 00:00:00	Findings:	3 MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	11/02/2005 00:00:00	Findings:	3.4 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11/09/2005 00:00:00	Findings:	2.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2005 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/13/2006 00:00:00	Findings:	15 UNITS
Chemical:	COLOR		
Sample Collected:	12/13/2006 00:00:00	Findings:	500 US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/13/2006 00:00:00	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	12/13/2006 00:00:00	Findings:	63 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	12/13/2006 00:00:00	Findings:	77 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/13/2006 00:00:00	Findings:	100 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	12/13/2006 00:00:00	Findings:	21 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/13/2006 00:00:00	Findings:	13 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/13/2006 00:00:00	Findings:	57 MG/L
Chemical:	SODIUM		
Sample Collected:	12/13/2006 00:00:00	Findings:	3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/13/2006 00:00:00	Findings:	79 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/13/2006 00:00:00	Findings:	180 UG/L
Chemical:	IRON		
Sample Collected:	12/13/2006 00:00:00	Findings:	160 UG/L
Chemical:	ALUMINUM		
Sample Collected:	12/13/2006 00:00:00	Findings:	240 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/13/2006 00:00:00	Findings:	.067
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12/13/2006 00:00:00	Findings:	2.3 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12/13/2006 00:00:00	Findings:	1 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	12/13/2006 00:00:00	Findings:	12
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

E16
NNE
1/2 - 1 Mile
Lower

FED USGS USGS3205107

Agency cd:	USGS	Site no:	360604120032202
Site name:	021S018E17M002M		
Latitude:	360604		
Longitude:	1200322	Dec lat:	36.10106476
Dec lon:	-120.05708166	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	312.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19510101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	750	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

E17
NNE
1/2 - 1 Mile
Lower

FED USGS USGS3205106

Agency cd:	USGS	Site no:	360604120032201
Site name:	021S018E17M001M		
Latitude:	360604		
Longitude:	1200322	Dec lat:	36.10106476
Dec lon:	-120.05708166	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	312.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19510101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	1212	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported
Water quality data end date: Not Reported
Ground water data begin date: Not Reported
Ground water data count: Not Reported

Water quality data begin date: Not Reported
Water quality data count: Not Reported
Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

18
ENE
1/2 - 1 Mile
Lower

FED USGS USGS3205094

Agency cd:	USGS	Site no:	360540120024801
Site name:	021S018E20B001M		
Latitude:	360540		
Longitude:	1200248	Dec lat:	36.09439804
Dec lon:	-120.04763682	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	397.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	109	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1950-01-01	Ground water data end date:	1950-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1950-01-01	107.00	

F19
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3205072

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	360449120032101
Site name:	021S018E20N001M		
Latitude:	360449		
Longitude:	1200321	Dec lat:	36.08023157
Dec lon:	-120.05680358	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	031
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	370.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	997	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1961-05-01	Ground water data end date:	1961-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1961-05-01	306.00	

F20
South
1/2 - 1 Mile
Higher

CA WELLS CADW10000026784

Longn:	-120.0561
Latn:	36.08
Stwellno:	21S18E20N001M
Districtco:	8
Wellusecod:	Z
Countycode:	10
Gwcode:	502209
Site id:	CADW10000026784

G21
WNW
1/2 - 1 Mile
Higher

FED USGS USGS3205102

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	360543120042601
Site name:	021S018E18N001M		
Latitude:	360543		
Longitude:	1200426	Dec lat:	36.09523164
Dec lon:	-120.07485992	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	019
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	378.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19500101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	1475	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1951-08-14
Water quality data end date:	1951-08-14	Water quality data count:	1
Ground water data begin date:	1951-03-01	Ground water data end date:	1951-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1951-03-01	394.00	

G22
WNW
1/2 - 1 Mile
Higher

CA WELLS CADW10000026906

Longn:	-120.0739
Latn:	36.0953
Stwellno:	21S18E18N001M
Districtco:	8
Wellusecod:	Z
Countycode:	16
Gwcode:	502209
Site id:	CADW10000026906

H23
NNW
1/2 - 1 Mile
Lower

CA WELLS CADW10000026960

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longn: -120.0631
 Latn: 36.1047
 Stwellno: 21S18E18G002M
 Districtco: 8
 Wellusecod: Z
 Countycode: 10
 Gwcode: 502209
 Site id: CADW10000026960

H24
NNW
1/2 - 1 Mile
Lower

CA WELLS CADW10000026959

Longn: -120.0644
 Latn: 36.1044
 Stwellno: 21S18E18G003M
 Districtco: 8
 Wellusecod: Z
 Countycode: 10
 Gwcode: 502209
 Site id: CADW10000026959

I25
WSW
1/2 - 1 Mile
Higher

FED USGS USGS3205079

Agency cd: USGS	Site no: 360514120042701	
Site name: 021S018E19E001M		
Latitude: 360514		
Longitude: 1200427	Dec lat: 36.08717616	
Dec lon: -120.0751376	Coor meth: M	
Coor accr: S	Latlong datum: NAD27	
Dec latlong datum: NAD83	District: 06	
State: 06	County: 031	
Country: US	Land net: Not Reported	
Location map: Not Reported	Map scale: Not Reported	
Altitude: 400.00		
Altitude method: Interpolated from topographic map		
Altitude accuracy: 5.		
Altitude datum: National Geodetic Vertical Datum of 1929		
Hydrologic: TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic: Valley flat		
Site type: Ground-water other than Spring	Date construction: 19560101	
Date inventoried: Not Reported	Mean greenwich time offset: PST	
Local standard time flag: Y		
Type of ground water site: Single well, other than collector or Ranney type		
Aquifer Type: Not Reported		
Aquifer: Not Reported		
Well depth: 1229	Hole depth: Not Reported	
Source of depth data: Not Reported		
Project number: Not Reported		
Real time data flag: Not Reported	Daily flow data begin date: Not Reported	
Daily flow data end date: Not Reported	Daily flow data count: Not Reported	
Peak flow data begin date: Not Reported	Peak flow data end date: Not Reported	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported
Water quality data end date: Not Reported
Ground water data begin date: Not Reported
Ground water data count: Not Reported

Water quality data begin date: Not Reported
Water quality data count: Not Reported
Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

I26
WSW
1/2 - 1 Mile
Higher

CA WELLS CADW10000026839

Longn: -120.0744
Latn: 36.0875
Stwellno: 21S18E19E001M
Districtco: 8
Wellusecod: Z
Countycode: 16
Gwcode: 502209
Site id: CADW10000026839

I27
WSW
1/2 - 1 Mile
Higher

CA WELLS CADW10000026825

Longn: -120.075
Latn: 36.0867
Stwellno: 21S17E24J001M
Districtco: 8
Wellusecod: Z
Countycode: 10
Gwcode: 502209
Site id: CADW10000026825

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction
Distance

Database EDR ID Number

SSW 1 - 2 Miles

OIL_GAS CA2000000166087

Apinumber:	03120047	Operator:	W.E. Strangman
Lease:	Not Reported	Well no:	33
Field:	Kings County	Area:	Not Reported
Map:	W5-1	Status cod:	006
Source:	hud		
Latitude:	36.075089		
Longitude:	-120.068502		
Td:	4533		
Sec:	30		
Twn:	21S	Rge:	18E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/21/1969 00:00:00
Abanddate:	05/27/1969 00:00:00	Comments:	Not Reported
District:	5	Site id:	CA2000000166087

SSW 1 - 2 Miles

OIL_GAS CA2000000166072

Apinumber:	03120049	Operator:	Tiger Oil Company
Lease:	Redman-Bossana	Well no:	1-30
Field:	Kings County	Area:	Not Reported
Map:	W5-1	Status cod:	006
Source:	hud		
Latitude:	36.073927		
Longitude:	-120.066529		
Td:	12348		
Sec:	30		
Twn:	21S	Rge:	18E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	09/05/1969 00:00:00
Abanddate:	10/28/1969 00:00:00	Comments:	Not Reported
District:	5	Site id:	CA2000000166072

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.475 pCi/L	92%	8%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX F

CENTRAL VALLEY RWQCB RECORDS

(PG&E KETTLEMAN COMPRESSOR STATION)



California Regional Water Quality Control Board

Central Valley Region



Fresno Branch Office

Internet Address: <http://www.swrcb.ca.gov/~rwqcb5/home.html>
3614 East Ashlan Avenue, Fresno, California 93726
Phone (209) 445-5116 • FAX (209) 445-5910

10 August 1998

Mr. Melvin Wong
Pacific Gas and Electric Company
375 North Wiget Lane, Suite 170
Walnut Creek, CA 94598

DISCONTINUE GROUNDWATER MONITORING, PACIFIC GAS AND ELECTRIC COMPANY, KETTLEMAN COMPRESSOR STATION, AVENAL, KINGS COUNTY


We have reviewed the *Groundwater Monitoring and Sampling Report: April 1 to June 30, 1998*. The report contains analytical results for groundwater samples from two on-site (25-F2 and 25-F3) and two off-site (25-D1 and 25-D2) monitoring wells at your Kettleman Compressor Station. The report also contains a table of historical sample results for the wells (see attached Table 2 from the report). Since August 1994, the on-site wells have had sporadic detection of chromium at or slightly above the detection limit, mostly associated with a lack of sample filtration. The off-site wells were installed in August 1997 and had an initial detection of chromium near the detection limit in an unfiltered sample. The filtered samples indicated that dissolved chromium has not been detected in the off-site wells during the four quarters of monitoring.

The *Groundwater Monitoring and Sampling Report* recommends the discontinuance of groundwater monitoring and the proper abandonment of the on-site and off-site wells. In a letter dated 8 January 1998, we concurred with the recommendation of quarterly monitoring of the wells for one year, after which we would reevaluate the results. After one year of monitoring, dissolved chromium has not been detected in the off-site wells, where previous computer modeling predicted the center of the potential plume would be located.

We concur with your recommendation to discontinue groundwater monitoring. However, we request that the monitoring wells be maintained for at least one more year. After that time, and following the collection and analysis of a sample from each well, we will consider final well abandonment.

If you have any questions, please call Doug Patteson at (209) 445-6191.

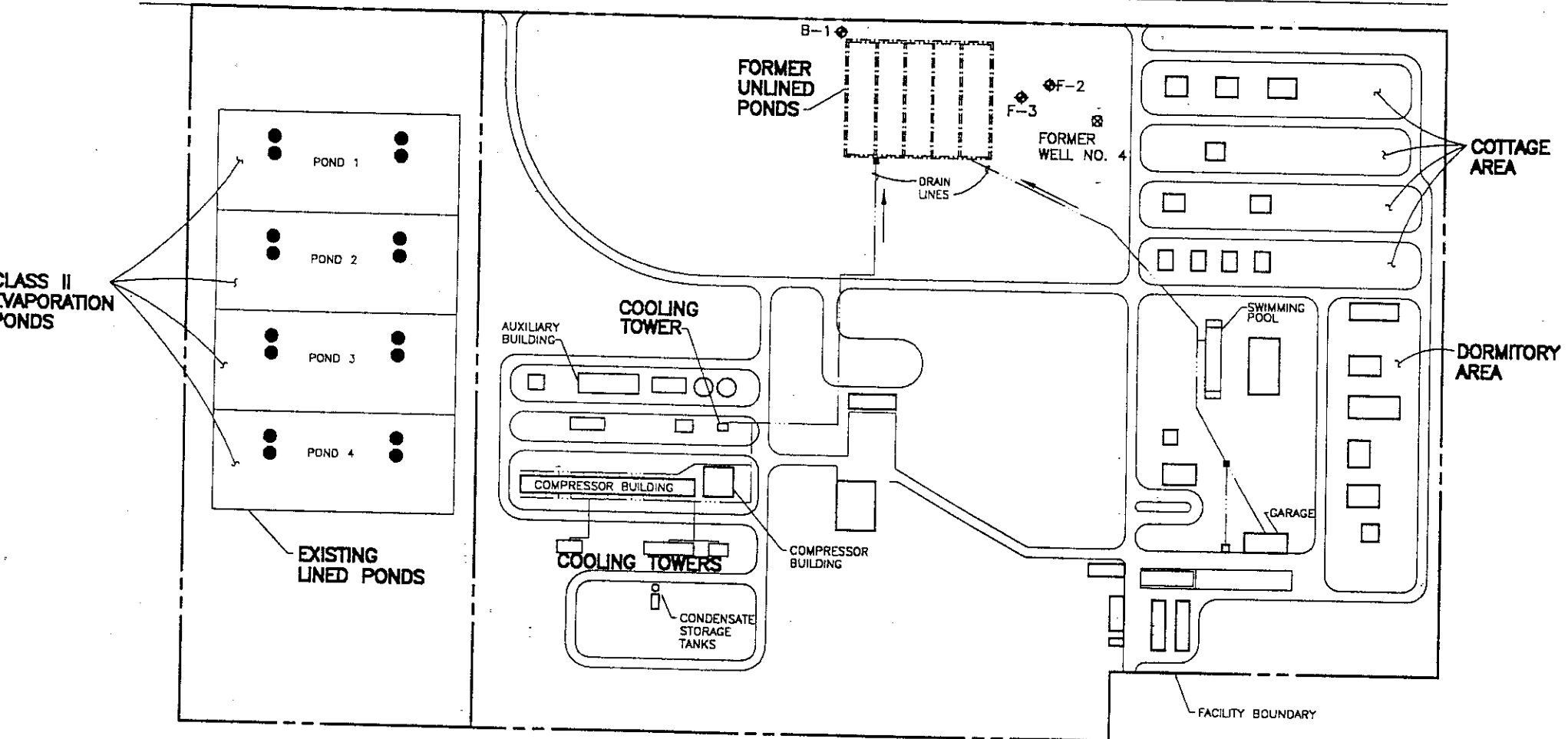

SHELTON R. GRAY
Senior Engineering Geologist


WILLIAM PFISTER
Supervising Engineering Geologist
CEG No. 931

cc: Department of Toxic Substances Control, Rancho Cordova
Kings County Environmental Health Department, Hanford
Mr. Al Sevilla, Alisto Engineering, Walnut Creek

California Environmental Protection Agency

PLYMOUTH AVENUE





California Regional Water Quality Control Board

Central Valley Region

Robert Schneider, Chair



Jerry Tamminen
Secretary for
Environmental
Protection

Fresno Branch Office

www.swrcb.ca.gov/~rwqcb5
1685 E Street, Fresno, California 93706-2020
Phone (559) 445-5116 • FAX (559) 445-5910

Arnold Schwarzenegger
Governor

9 December 2004

Mr. Mike Bennett
Pacific Gas and Electric Company
650 'O' Street, Building A
Fresno, CA 93760

NOTICE OF APPLICABILITY OF GENERAL WAIVER, RESOLUTION NO. R5-2003-0008, PG&E KETTLEMAN COMPRESSOR STATION, KINGS COUNTY

The Pacific Gas and Electric (PG&E) Kettleman Compressor Station in Kings County produces process cooling water as part of its operation. The facility has four Class II surface impoundments which will be closed. Waste Discharge Requirements Order Number 99-145 regulates the facility. Regional Board staff received a proposal dated 5 August 2004 for the discharge of process cooling water to land following impoundment closure. A revised proposal dated 21 September 2004, serves as a Report of Waste Discharge (RWD).

Discharge Location

The PG&E Kettleman Compressor Station is located in a remote part of western Kings County. The facility is bounded by the Kettleman Hills to the southwest and by properties primarily agricultural or open range to the northeast. The site is on an 85-acre parcel adjacent to Interstate-5, approximately six miles north-northeast of Avenal, California. The legal description of the site is as follows: a portion of Section 25, Township 21S, Range 17E, MDB&M.

Depth to the uppermost water-bearing zone is greater than 500 feet. The closest domestic well is approximately 8,000 feet north-northeast of the site and the closest agricultural well is approximately 3,000 feet to the east.

Discharge Description

In 2002, PG&E upgraded the Kettleman Compressor Station by replacing the water-cooled reciprocating engines with air-cooled turbines for natural gas compression. The replacement of the reciprocating engines eliminated blow-down water from the cooling towers and only a small quantity of process cooling water is now generated at the facility. The City of Avenal water is used for the cooling system water and no additives are introduced into the water. PG&E is proposing to reuse the process cooling water to supplement the current landscaping irrigation through the existing facility irrigation system. City of Avenal water is used for irrigation and the irrigation demand at the facility has been calculated to be 6,000 to 9,000 gallons per day.

California Environmental Protection Agency

Typically, process cooling water is only generated when the ambient temperature is above 75 degrees F, May through October. It is conservatively estimated that on the average, 2,000 gallons a day of process cooling water will be generated. Actual data indicates that between September 2001 and June 2004, approximately 202,700 gallons of cooling water have been discharged from the cooling system. This is approximately 68,000 per six-month period, or approximately 400 gallons per day. The cooling water will be stored in two 7,100-gallon holding tanks.

In the unlikely event that the cooling system would be required to operate 24 hours a day, the maximum discharge would be 13,000 gallons per day for irrigation. The maximum irrigation demand is estimated to be 9,000 gallons per day leaving an excess of 4,000 gallons per day. PG&E proposes to discharge any excess cooling water to a 0.6-acre non-landscaped area at the location of the closed impoundments. A water balance for this area indicates that the evaporation rate exceeds the discharge and rainfall rate.

The proposal contains cooling water and groundwater analytical data. Analyses indicate that the process cooling water will have an electrical conductivity approximately the same as the uppermost underlying groundwater and a TDS concentration less than the uppermost underlying groundwater.

Conditional Waiver

Based on Regional Board staff review, the discharge as described in your RWD satisfies the general and specific conditions of Resolution No. R5-2003-0008 for the category of *Air Conditioner, Cooling and Elevated Temperature Waters Discharged to Land*. Therefore, this shall serve as formal notice that Resolution No. R5-2003-0008 is applicable and waste discharge requirements for the discharge are waived.


This waiver will expire on 31 January 2008 at which time you must submit a new RWD with filing fee to renew the waiver or cease the discharge. Further, this waiver is conditional. For continued waiver, the discharge must meet on an ongoing basis the general conditions listed in the enclosed Attachment A of the General Waiver and the following specific conditions, also detailed in Attachment A:

- Waste constituent concentrations must be less than in the uppermost underlying groundwater
- Biochemical oxygen demand (BOD) must be consistently less than 30 mg/L without treatment and, if impounded, must be less than 10 lb/acre/day
- Additives, if any, must be used in accordance with manufacturer's guidelines and reliably attenuated before infiltrating to groundwater

If the operation changes significantly from what was described, waste discharge requirements may be appropriate. If the discharge violates the terms or conditions of the waiver, the Regional Board may take enforcement, including assessment of administrative civil liability.

If you have any questions regarding this Notice of Applicability, please contact Terry Fox at (559) 445-6191.



 THOMAS R. PINKOS
Executive Officer

Enclosure: General Waiver, including Staff Report and Attachment A

cc: w/encl: Kings County Environmental Health, Hanford
w/o encl: Bo Bowman, Alisto Engineering, 2737 North Main Street, Suite 100, Walnut Creek,
CA 93706

**Pacific Gas and Electric Company
Kettleman Compressor Station**

Prepared for:

Prepared by:

Alisto Project No. 10-188-22-001

MONITORING REPORT REVIEW

Engineer _____

Compliance yes no

Date Reviewed _____

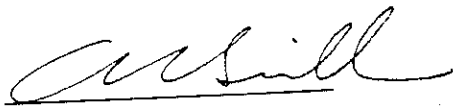
GROUNDWATER MONITORING AND SAMPLING REPORT 1999

Pacific Gas and Electric Company
Kettleman Compressor Station

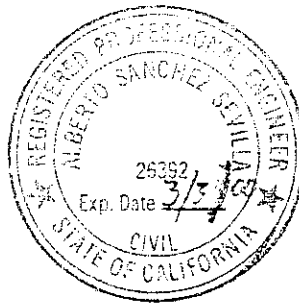
Alisto Project No. 10-188-22-001

The undersigned certify that this report presents the results of environmental monitoring requested by the California Regional Water Quality Control Board, Central Valley Region, for this facility.

Alisto Engineering Group:



Al Sevilla, P.E.
Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

Pacific Gas and Electric Company
Kettleman Compressor Station

Alisto Project No. 10-188-22-001

October 1999

INTRODUCTION

To comply with the requirements of the Regional Water Quality Control Board, Central Valley Region (RWQCB), Pacific Gas and Electric Company (PG&E) retained Alisto Engineering Group to perform groundwater monitoring and sampling at PG&E's Kettleman compressor station, 34453 Plymouth Avenue, near Avenal, California. This report presents the results and findings of the 1999 groundwater monitoring and sampling performed by Alisto at the Kettleman station from August 17 to 18, 1999 as set forth in the letter from the RWQCB dated August 10, 1999. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

Depth to groundwater was measured on August 17, 1998 in two onsite and two offsite monitoring wells using an electronic water level indicator. Depth to groundwater in the 14 offsite water supply wells was measured using an acoustic sounder. The location of these wells is shown on Figure 2. The depth to groundwater in wells monitored and corresponding groundwater elevations are summarized in Table 1.

Groundwater samples were collected from two onsite wells (21S/17E/25-F2 and 21S/17E/25-F3) and from four offsite wells (21S/17E/25-D1, 21S/17E/25-D2, 21S/17E/24-N2 and 21S/17E/30-P1) in accordance with the requirements of the Regional Water Quality Control Board, Central Valley Region (RWQCB). Analytical results, including historical data collected since October 1993, are summarized in Table 2.

The two onsite wells (25-F2 and 25-F3) and the two offsite monitoring wells (25-D1 and 25-D2) are equipped with dedicated pumps. Well 25-D2 was purged of three well volumes before sampling and Well 25-F3 was purged dry after one well volume and allowed to recover before sample collection. As approved by the RWQCB in a letter dated May 27, 1998 Wells 25-D1 and 25-F2 were purged of one well volume before sampling based on the results of a site-specific purging study. The three offsite irrigation water supply wells were not purged before collecting grab samples using a bailer.

Approximately 1800 gallons of groundwater was purged from Wells 25-D1 and 25-D2 and stored in a temporary tank pending analytical results to determine the appropriate method of disposal. Copies of the field data sheets are presented in Appendix A. Based on analytical results and with concurrence from the RWQCB, the purge water was transported to the PG&E Kettleman facility and discharged at the lawn area on September 17, 1999.



SAMPLING AND ANALYTICAL RESULTS

The groundwater samples collected on August 18, 1999 were submitted to Applied P & Ch Laboratory (APCL), a state-certified analytical laboratory, for analyses of total and hexavalent chromium using EPA Methods 200.7/6010 and 7196A. All samples were filtered at the laboratory by APCL before analysis.

Total and hexavalent chromium were not detected in the groundwater samples analyzed by APCL either at or above the method detection limit of 0.01 milligrams per liter (mg/l). Total and hexavalent chromium were also not detected in the grab samples of purge water from the temporary storage tank. Analytical results for total and hexavalent chromium, for this event as well as historical data collected since October 1993, are summarized in Table 2. Copies of the laboratory reports and chain of custody documentation are included in Appendix B.

Review of historical analytical data for groundwater samples collected from PG&E monitoring wells and selected nearby irrigation water supply wells indicates that hexavalent chromium has not been detected above the method detection limit (MDL) of 0.01 milligrams per liter (mg/l) since April 1994. Total chromium has also not been detected above the MDL or the practical quantitation limit (PQL) of 0.02 mg/l since August 1994.

Groundwater elevation contours, as interpreted from the August 1999 monitoring data and shown on Figure 3, indicate that the groundwater flow regime beneath and in the vicinity of the PG&E facility is generally consistent with previous monitoring results and the potentiometric contour map presented in the Hydrogeologic Investigation report (Alisto, 1997). Graphical interpretation of groundwater elevation contours, shown on Figure 3, indicates an apparent depression in the water table beneath the PG&E facility, probably as a result of groundwater pumping by nearby agricultural water supply wells.

RECOMMENDATIONS

Based on the results of this and previous quarterly monitoring events and in accordance with RWQCB's letters, dated January 8, 1998 and August 10, 1998, regarding the hydrogeologic investigation at PG&E's Kettleman compressor station, Alisto recommends that PG&E requests RWQCB's approval to:

- Terminate the quarterly groundwater monitoring and sampling of designated wells at and in the vicinity of the Kettleman compressor station.
- Properly abandon/destroy the groundwater monitoring wells associated with the hydrogeologic investigation in the future. The two offsite monitoring wells, 25-D1 and 25-D2, can be left in place and converted to other uses, subject to applicable requirements of the California Department of Water Resources and local agencies.



TABLE 1 - RESULTS OF GROUNDWATER MONITORING
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	MONITORING DATE	CASING ELEVATION (feet)	(a)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (feet) (b)	SCREENED INTERVAL (feet)
21S/17E/11N1	09/28/95	427	(c)	480	-53	---
21S/17E/11N1	03/06/96	427		469.6	-43	---
21S/17E/11N1	05/06/96	427		455.8	-29	---
21S/17E/11N1	08/06/96	427		454.5	-28	---
21S/17E/11N1	10/22/96	427		452.2	-25	---
21S/17E/11N1	02/26/97	427		449.7	-23	---
21S/17E/11N1	04/23/97	427		453.7	-27	---
21S/17E/11N1	08/18/97	427		376.7	50	---
21S/17E/11N1	10/21/97	427		385.8	41	---
21S/17E/11N1	02/18/98	427		328.8	98	---
21S/17E/11N1	05/14/98	427		333.4	94	---
21S/17E/11N1	08/17/99	427		330.6	96	---
21S/17E/14A1	09/29/95	401	(c)	339.54 (d)	61.46	730-1420
21S/17E/14A1	03/06/96	401		327.0	74	730-1420
21S/17E/14A1	05/06/96	401		308.7	92	730-1420
21S/17E/14A1	08/06/96	401		300.9	100	730-1420
21S/17E/14A1	10/22/96	401		298.1	103	730-1420
21S/17E/14A1	02/26/97	401		297.3	104	730-1420
21S/17E/14A1	04/23/97	401		300.7	100	730-1420
21S/17E/14A1	08/18/97	401		330.0	71	730-1420
21S/17E/14A1	10/21/97	401		338.2	63	730-1420
21S/17E/14A1	02/18/98	401		287.8	113	730-1420
21S/17E/14A1	05/14/98	401		293.1	108	730-1420
21S/17E/14A1	08/17/99	401		289.9	111	730-1420
21S/17E/14A2	09/29/95	401	(c)	366.06 (d)	34.94	---
21S/17E/14A2	03/06/96	401		331.5	70	---
21S/17E/14A2	05/06/96	401		309.2	92	---
21S/17E/14A2	08/06/96	401		308.0	93	---
21S/17E/14A2	10/22/96	401		305.7	95	---
21S/17E/14A2	02/26/97	401		300.8	100	---
21S/17E/14A2	04/23/97	401		304.3	97	---
21S/17E/14A2	08/18/97	401		355.3	46	---
21S/17E/14A2	10/21/97	401		364.9	36	---
21S/17E/14A2	02/18/98	401		314.2	87	---
21S/17E/14A2	05/14/98	401		317.1	84	---
21S/17E/14A2	08/17/99	401		315.6	85	---
21S/17E/14H1	09/28/95	402	(c)	444.58 (d)	-42.58	---
21S/17E/14H1	03/06/96	402		432.6	-31	---
21S/17E/14H1	05/06/96	402		416.9	-15	---
21S/17E/14H1	08/06/96	402		415.6	-14	---
21S/17E/14H1	10/22/96	402		412.0	-10	---
21S/17E/14H1	02/26/97	402		408.6	-7	---
21S/17E/14H1	04/23/97	402		412.8	-11	---
21S/17E/14H1	08/18/97	402		403.4	-1	---
21S/17E/14H1	10/21/97	402		413.9	-12	---
21S/17E/14H1	02/18/98	402		289.5	113	---
21S/17E/14H1	05/14/98	402		283.7	118	---
21S/17E/14H1	08/17/99	402		280.9	121	---
21S/17E/14N3	09/29/95	476.16	(e)	542.85 (d)	-66.69	---
21S/17E/14N3	03/06/96	476.16		---	---	---
21S/17E/22G1	09/29/95	576		492.03 (d)	83.97	555-1707

TABLE 1 - RESULTS OF GROUNDWATER MONITORING
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	MONITORING DATE	CASING ELEVATION (feet)	(a)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (feet) (b)	SCREENED INTERVAL (feet)
21S/17E/22G1	03/06/96	576		482.6	93	555-1707
21S/17E/22G1	08/06/96	576		--- (f)	---	555-1707
21S/17E/24E1	09/28/95	448.27	(e)	443.32 (d)	4.95	506-1734
21S/17E/24E1	03/06/96	448.27		429.7	19	506-1734
21S/17E/24E1	05/06/96	448.27		418.2	30	506-1734
21S/17E/24E1	08/06/96	448.27		417.1	31	506-1734
21S/17E/24E1	10/22/96	448.27		415.2	33	506-1734
21S/17E/24E1	02/26/97	448.27		409.9	38	506-1734
21S/17E/24E1	04/23/97	448.27		411.2	37	506-1734
21S/17E/24E1	08/18/97	448.27		428.9	19	506-1734
21S/17E/24E1	10/21/97	448.27		439.1	9	506-1734
21S/17E/24E1	02/18/98	448.27		423.8	25	506-1734
21S/17E/24E1	05/14/98	448.27		426.9	21	506-1734
21S/17E/24E1	08/17/99	448.27		421.1	27	506-1734
21S/17E/24G1	09/28/95	420.06	(e)	462.62 (d)	-42.56	572-1800
21S/17E/24G1	03/06/96	420.06		443.2	-23	572-1800
21S/17E/24G1	05/06/96	420.06		--- (f)	---	---
21S/17E/24H1	09/28/95	393.10	(e)	330.0	63.1	---
21S/17E/24H1	03/06/96	393.10		323.3	70	---
21S/17E/24H1	05/06/96	393.10		310.1	83	---
21S/17E/24H1	08/06/96	393.10		308.6	85	---
21S/17E/24H1	10/22/96	393.10		306.2	87	---
21S/17E/24H1	02/26/97	393.10		304.2	89	---
21S/17E/24H1	04/23/97	393.10		308.1	85	---
21S/17E/24H1	08/18/97	393.10		307.0	86	---
21S/17E/24H1	10/21/97	393.10		318.4	75	---
21S/17E/24H1	02/26/98	393.10		312.0	81	---
21S/17E/24H1	05/14/98	393.10		311.5	82	---
21S/17E/24H1	08/17/99	393.10		313.5	80	---
::						
21S/17E/24J1	09/28/95	396.84	(e)	389.63 (d)	7.21	---
21S/17E/24J1	03/06/96	396.84		368.4	28	---
21S/17E/24J1	05/06/96	396.84		359.9	37	---
21S/17E/24J1	08/06/96	396.84		358.7	38	---
21S/17E/24J1	10/22/96	396.84		355.7	41	---
21S/17E/24J1	02/26/97	396.84		351.7	45	---
21S/17E/24J1	04/23/97	396.84		358.2	39	---
21S/17E/24J1	08/18/97	396.84		314.7	82	---
21S/17E/24J1	10/21/97	396.84		323.9	73	---
21S/17E/24J1	02/18/98	396.84		299.9	97	---
21S/17E/24J1	05/14/98	396.84		302.6	94	---
21S/17E/24J1	08/17/99	396.84		304.2	93	---
21S/17E/24N1	10/19/95	461.99	(e)	539.14 (d)	-77.15	---
21S/17E/24N1	03/06/96	461.99		426.6	35	---
21S/17E/24N1	05/06/96	461.99		416.3	46	---
21S/17E/24N1	08/06/96	461.99		415.0	47	---
21S/17E/24N1	10/22/96	461.99		413.8	48	---
21S/17E/24N1	02/26/97	461.99		409.7	52	---
21S/17E/24N1	04/23/97	461.99		415.0	47	---
21S/17E/24N1	04/23/97	461.99		422.2	40	---
21S/17E/24N1	08/18/97	461.99		426.3	36	---
21S/17E/24N1	08/27/97	461.99		422.2	40	---

TABLE 1 - RESULTS OF GROUNDWATER MONITORING
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	MONITORING DATE	CASING ELEVATION (feet)	(a)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (b) (feet)	SCREENED INTERVAL (feet)
21S/17E/24N1	10/21/97	461.99		429.7	32	---
21S/17E/24N1	02/18/98	461.99		407.1	55	---
21S/17E/24N1	05/14/98	461.99		403.6	58	---
21S/17E/24N1	08/17/99	461.99		405.1	57	---
21S/17E/24N2	10/19/95	476.18	(e)	519.14 (d)	-42.96	---
21S/17E/24N2	03/06/96	476.18		502.5	-26	---
21S/17E/24N2	05/06/96	476.18		488.9	-13	---
21S/17E/24N2	08/06/96	476.18		487.7	-12	---
21S/17E/24N2	10/22/96	476.18		485.4	-9	---
21S/17E/24N2	02/26/97	476.18		480.6	-4	---
21S/17E/24N2	04/23/97	476.18		485.7	-10	---
21S/17E/24N2	08/18/97	476.18		411.6	65	---
21S/17E/24N2	08/27/97	476.18		420.6	56	---
21S/17E/24N2	10/21/97	476.18		427.2	49	---
21S/17E/24N2	02/18/98	476.18		401.4	75	---
21S/17E/24N2	05/14/98	476.18		444.0	32	---
21S/17E/24N2	08/17/99	476.18		446.1	30	---
21S/17E/25D1	08/18/97	471.54		---	---	---
21S/17E/25D1	08/27/97	471.54		---	---	---
21S/17E/25D1	10/21/97	471.54		510.75 (d)	-39.21	---
21S/17E/25D1	02/18/98	471.54		481.47 (d)	-9.93	---
21S/17E/25D1	05/14/98	471.54		508.25 (d)	-36.71	---
21S/17E/25D1	08/17/99	471.54		502.51 (d)	-30.97	---
21S/17E/25D2	08/18/97	471.38		496.92 (d)	-25.54	---
21S/17E/25D2	08/27/97	471.38		496.09 (d)	-24.71	---
21S/17E/25D2	10/21/97	471.38		495.41 (d)	-24.03	---
21S/17E/25D2	02/18/98	471.38		492.25 (d)	-20.87	---
21S/17E/25D2	05/14/98	471.38		489.82 (d)	-18.44	---
21S/17E/25D2	08/17/99	471.38		482.5 (d)	-11.12	---
21S/17E/25F2	09/28/95	485.98	(e)	533.63 (d)	-47.65	---
21S/17E/25F2	03/06/96	485.98		530.62 (d)	-44.64	---
21S/17E/25F2	05/06/96	485.98		529.64 (d)	-43.66	---
21S/17E/25F2	08/06/96	485.98		528.40 (d)	-42.42	---
21S/17E/25F2	10/22/96	485.98		527.93 (d)	-41.95	---
21S/17E/25F2	02/26/97	485.98		524.21 (d)	-38.23	---
21S/17E/25F2	04/22/97	485.98		527.37 (d)	-41.39	---
21S/17E/25F2	08/18/97	485.98		523.95 (d)	-37.97	---
21S/17E/25F2	08/27/97	485.98		523.80 (d)	-37.82	---
21S/17E/25F2	10/21/97	485.98		524.15 (d)	-38.17	---
21S/17E/25F2	02/18/98	485.98		522.31 (d)	-36.33	---
21S/17E/25F2	05/14/98	485.98		519.16 (d)	-33.18	---
21S/17E/25F2	08/17/99	485.98		515.50 (d)	-29.52	---
21S/17E/25F3	09/28/95	485.69	(e)	517.03 (d)	-31.34	---
21S/17E/25F3	03/06/96	485.69		511.03 (d)	-25.34	---
21S/17E/25F3	05/06/96	485.69		510.06 (d)	-24.37	---
21S/17E/25F3	08/06/96	485.69		509.01 (d)	-23.32	---
21S/17E/25F3	10/22/96	485.69		508.56 (d)	-22.87	---
21S/17E/25F3	02/26/97	485.69		505.14 (d)	-19.45	---
21S/17E/25F3	04/22/97	485.69		507.99 (d)	-22.30	---
21S/17E/25F3	08/18/97	485.69		503.38 (d)	-17.69	---
21S/17E/25F3	08/27/97	485.69		503.95 (d)	-18.26	---

TABLE 1 - RESULTS OF GROUNDWATER MONITORING
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	MONITORING DATE	CASING ELEVATION (feet)	(a)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (b) (feet)	SCREENED INTERVAL (feet)
21S/17E/25F3	10/21/97	485.69		504.32 (d)	-18.63	---
21S/17E/25F3	02/18/98	485.69		501.77 (d)	-16.08	---
21S/17E/25F3	05/14/98	485.69		501.97 (d)	-16.28	---
21S/17E/25F3	08/17/99	485.69		507.91 (d)	-22.22	---
21S/17E/25H1	09/26/95	451.06	(e)	396.57 (d)	54.49	560-900
21S/17E/25H1	03/06/96	451.06		388.5	63	560-900
21S/17E/25H1	08/06/96	451.06		---	---	560-900
21S/17E/25H1	10/22/96	451.06		380.9	70	560-900
21S/17E/25H1	02/26/97	451.06		376.1	75	560-900
21S/17E/25H1	04/23/97	451.06		383.0	68	560-900
21S/17E/25H1	08/18/97	451.06		393.3	58	560-900
21S/17E/25H1	10/21/97	451.06		399.0	52	560-900
21S/17E/25H1	02/18/98	451.06		364.7	86	560-900
21S/17E/25H1	05/14/98	451.06		377.4	74	560-900
21S/17E/25H1	08/17/99	451.06		376.2	75	560-900
::						
21S/18E/18N1	09/28/95	372	(c)	311.86 (d)	60.14	492-1100
21S/18E/18N1	03/06/96	372		302.3	70	492-1100
21S/18E/18N1	05/06/96	372		300.8	71	492-1100
21S/18E/18N1	08/06/96	372		299.5	73	492-1100
21S/18E/18N1	10/22/96	372		296.3	76	492-1100
21S/18E/18N1	02/26/97	372		292.6	79	492-1100
21S/18E/18N1	04/23/97	372		340.0	32	492-1100
21S/18E/18N1	08/18/97	372		330.5	42	492-1100
21S/18E/18N1	10/21/97	372		340.2	32	492-1100
21S/18E/18N1	02/18/98	372		290.7	81	492-1100
21S/18E/18N1	05/14/98	372		237.8	134	492-1100
21S/18E/18N1	08/17/99	372		242.2	130	492-1100
21S/18E/20N1	09/29/95	370	(c)	276.53 (d)	93.47	---
21S/18E/20N1	03/06/96	370		272.7	97	---
21S/18E/20N1	08/06/96	370		---	---	---
21S/18E/20N1	10/22/96	370		297.3	73	---
21S/18E/20N1	02/26/97	370		295.5	75	---
21S/18E/20N1	04/23/97	370		308.2	62	---
21S/18E/20N1	08/18/97	370		549.7	-180	---
21S/18E/20N1	10/21/97	370		553.4	-183	---
21S/18E/20N1	02/18/98	370		493.6	-124	---
21S/18E/20N1	05/14/98	370		495.3	-125	---
21S/18E/20N1	08/17/99	370		288.6	81	---
21S/18E/29E1	09/29/95	407	(c)	329.49 (d)	77.51	---
21S/18E/29E1	03/06/96	407		322.9	84	---
21S/18E/29E1	08/06/96	407		---	---	---
21S/18E/29E1	10/22/96	407		314.7	92	---
21S/18E/29E1	02/26/97	407		312.7	94	---
21S/18E/29E1	04/23/97	407		320.1	87	---
21S/18E/29E1	08/18/97	407		324.0	83	---
21S/18E/29E1	10/21/97	407		329.2	78	---
21S/18E/29E1	02/18/98	407		311.7	95	---
21S/18E/29E1	05/14/98	407		317.1	90	---
21S/18E/29E1	08/17/99	407		316.2	91	---
21S/18E/30P1	09/27/95	467.80	(e)	460.93 (d)	6.87	---
21S/18E/30P1	03/06/96	467.80		446.1	22	---

TABLE 1 - RESULTS OF GROUNDWATER MONITORING
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	MONITORING DATE	CASING ELEVATION (a) (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (b) (feet)	SCREENED INTERVAL (feet)
21S/18E/30P1	05/06/96	467.80	433.6	34	---
21S/18E/30P1	08/06/96	467.80	432.3	36	---
21S/18E/30P1	10/22/96	467.80	430.9	37	---
21S/18E/30P1	02/26/97	467.80	425.6	42	---
21S/18E/30P1	04/23/97	467.80	428.9	39	---
21S/18E/30P1	08/18/97	467.80	439.0	29	---
21S/18E/30P1	08/27/97	467.80	439.1	29	---
21S/18E/30P1	10/21/97	467.80	444.2	24	---
21S/18E/30P1	02/18/98	467.80	418.0	50	---
21S/18E/30P1	05/14/98	467.80	422.2	46	---
21S/18E/30P1	08/17/99	467.80	442.7	25	---

ABBREVIATION:

--- Not available/not measured

NOTES:

- (a) Elevation of casing in feet above mean sea level.
- (b) Groundwater elevation in feet above/below mean sea level.
- (c) Land surface elevation interpolated from USGS topo maps.
- (d) Depth to groundwater measured using a Solinst electronic sounder.
If footnote (d) is not indicated, depth to groundwater was measured using an acoustic sounder.
- (e) Wellhead elevation surveyed by L. C. Hollfelder (PG&E-TES) from July 6 to 8, 1988.
- (f) Access port welded shut or not accessible. Well subsequently removed from monitoring program.
- (g) Sounder reading not possible due to location of transducer equipment.

TABLE 2 - SUMMARY OF GROUNDWATER SAMPLING RESULTS
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	SAMPLING DATE	TOTAL CHROMIUM (mg/l)	HEXAVALENT CHROMIUM (mg/l)	LAB
24-N1	10/23/96	ND<0.01	ND<0.01	CL
24-N1	02/27/97	ND<0.01	ND<0.006	APCL
24-N1	04/23/97	ND<0.01	ND<0.01	APCL
24-N1	08/19/97	0.012 (b)	0.010 (b)	CL
24-N1	08/19/97	0.010	---	CL
24-N1	08/27/97	0.010 (c)	0.01	APCL
24-N1	10/22/97	ND<0.01	ND<0.01	APCL
24-N1	02/19/98	ND<0.01	ND<0.01	APCL
24-N1	05/16/98	ND<0.01	ND<0.01	APCL
24-N2	03/07/96	ND<0.01 (b)	ND<0.01 (b)	CL
24-N2	03/07/96	ND<0.01	---	CL
24-N2	05/08/96	ND<0.01	ND<0.01	CL
24-N2	08/07/96	ND<0.01	ND<0.01	CL
24-N2	10/23/96	ND<0.01	ND<0.01	CL
24-N2	02/27/97	ND<0.01	ND<0.006	APCL
24-N2	04/23/97	ND<0.01	ND<0.01	APCL
24-N2	08/19/97	ND<0.01 (b)	ND<0.010 (b)	CL
24-N2	08/19/97	ND<0.01	---	CL
24-N2	08/19/97	ND<0.01	ND<0.01	APCL
24-N2	08/27/97	ND<0.01	ND<0.01	APCL
24-N2	10/22/97	ND<0.01	ND<0.01	APCL
24-N2	02/19/98	ND<0.01	ND<0.01	APCL
24-N2	05/16/98	ND<0.01	ND<0.01	APCL
24-N2	08/18/99	ND<0.01	ND<0.01	APCL
30-F1	05/08/96	ND<0.01	ND<0.01	CL
30-F1	08/07/96	ND<0.01	ND<0.01	CL
30-F1	10/23/96	ND<0.01	ND<0.01	CL
30-F1 (d)	02/27/97	---	---	
30-P1	05/08/96	ND<0.01	ND<0.01	CL
30-P1	08/07/96	ND<0.01	ND<0.01	CL
30-P1	10/23/96	ND<0.01	ND<0.01	CL
30-P1	02/27/97	ND<0.01	ND<0.006	APCL
30-P1	04/23/97	ND<0.01	ND<0.01	APCL
30-P1	08/19/97	ND<0.01 (b)	ND<0.010 (b)	CL

TABLE 2 - SUMMARY OF GROUNDWATER SAMPLING RESULTS
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	SAMPLING DATE	TOTAL CHROMIUM (mg/l)	HEXAVALENT CHROMIUM (mg/l)	LAB
25-F3	11/20/95	---	ND<0.01	CL
25-F3	03/07/96	0.02 (b)	ND<0.01 (b)	CL
25-F3	03/07/96	ND<0.01	---	CL
25-F3	05/08/96	ND<0.01	ND<0.01	CL
25-F3	08/07/96	ND<0.01	ND<0.01	CL
25-F3	10/23/96	ND<0.01	ND<0.01	CL
25-F3	02/27/97	ND<0.01	ND<0.006	APCL
25-F3	04/23/97	ND<0.01	ND<0.01	APCL
25-F3	08/19/97	0.014 (b)	0.010 (b)	CL
25-F3	08/19/97	0.015	---	CL
25-F3	08/27/97	ND<0.01	ND<0.01	APCL
25-F3	10/22/97	ND<0.01	ND<0.01	APCL
25-F3	04/30/98	ND<0.01	ND<0.01	APCL
25-F3	05/16/98	ND<0.01	ND<0.01	APCL
25-F3	08/18/99	ND<0.01	ND<0.01	APCL
25-D1	08/19/97	ND<0.01 (b)	ND<0.010 (b)	CL
25-D1	08/19/97	ND<0.01	---	CL
25-D1	08/27/97	ND<0.01	ND<0.01	APCL
25-D1	10/21/97	ND<0.01	ND<0.01	APCL
25-D1E	02/19/98	ND<0.01	ND<0.01	APCL
25-D1	05/16/98	ND<0.01	ND<0.01	APCL
25-D1	08/18/99	ND<0.01	ND<0.01	APCL
25-D2	08/19/97	0.016 (b)	0.010 (b)	CL
25-D2	08/19/97	ND<0.01	---	CL
25-D2	08/27/97	ND<0.01	ND<0.01	APCL
25-D2	10/21/97	ND<0.01	ND<0.01	APCL
25-D2	02/19/98	ND<0.01	ND<0.01	APCL
25-D2	05/16/98	ND<0.01	ND<0.01	APCL
25-D2	08/18/99	ND<0.01	ND<0.01	APCL
24-N1	03/07/96	0.01 (b)	ND<0.01 (b)	CL
24-N1	03/07/96	ND<0.01	---	CL
24-N1	05/08/96	ND<0.01	ND<0.01	CL
24-N1	08/07/96	ND<0.01	ND<0.01	CL

TABLE 2 - SUMMARY OF GROUNDWATER SAMPLING RESULTS
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

WELL ID	SAMPLING DATE	TOTAL CHROMIUM (mg/l)	HEXAVALENT CHROMIUM (mg/l)	LAB
25-F2	10/26/93	ND<0.01	ND<0.01	BCA
25-F2	04/28/94	0.023 (a)	ND<0.01	CL
25-F2	06/02/94	ND<0.01	ND<0.01	BCA
25-F2	08/03/94	ND<0.01	ND<0.01	CL
25-F2	01/27/95	ND<0.01	ND<0.01	CL
25-F2	05/16/95	ND<0.01 (b)	ND<0.01 (b)	CL
25-F2	05/16/95	ND<0.01	ND<0.01	CL
25-F2	08/10/95	ND<0.01 (b)	0.01 (b)	CL
25-F2	08/10/95	ND<0.01	0.01	CL
25-F2	11/20/95	---	---	CL
25-F2	03/07/96	0.01 (b)	ND<0.01 (b)	CL
25-F2	03/07/96	ND<0.01	---	CL
25-F2	05/08/96	ND<0.01	ND<0.01	CL
25-F2	08/07/96	ND<0.01	ND<0.01	CL
25-F2	10/23/96	ND<0.01	ND<0.01	CL
25-F2	02/27/97	ND<0.01	ND<0.006	APCL
25-F2	04/25/97	ND<0.01	ND<0.01	APCL
25-F2	08/19/97	ND<0.01 (b)	ND<0.010 (b)	CL
25-F2	08/19/97	ND<0.01	---	CL
25-F2	08/27/97	ND<0.01	ND<0.01	APCL
25-F2	10/22/97	ND<0.01	ND<0.01	APCL
25-F2E	02/19/98	ND<0.01	ND<0.01	APCL
25-F2	05/16/98	ND<0.01	ND<0.01	APCL
25-F2	08/18/99	ND<0.01	ND<0.01	APCL
25-F3	10/26/93	0.14	0.014	BCA
25-F3	04/28/94	0.036	ND<0.01	CL
25-F3	06/02/94	0.031	ND<0.01	BCA
25-F3	08/03/94	0.048 (b)	ND<0.01 (b)	CL
25-F3	08/03/94	ND<0.01	---	CL
25-F3	01/27/95	ND<0.01	ND<0.01	CL
25-F3	05/16/95	ND<0.01	ND<0.01	CL
25-F3	05/16/95	ND<0.01	ND<0.01	CL
25-F3	08/10/95	ND<0.01 (b)	ND<0.01 (b)	CL
25-F3	08/10/95	ND<0.01	ND<0.01	CL
25-F3	11/20/95	0.01 (b)	ND<0.01 (b)	CL

TABLE 2 - SUMMARY OF GROUNDWATER SAMPLING RESULTS
PG&E KETTLEMAN COMPRESSOR STATION

ALISTO PROJECT NO. 10-188-19

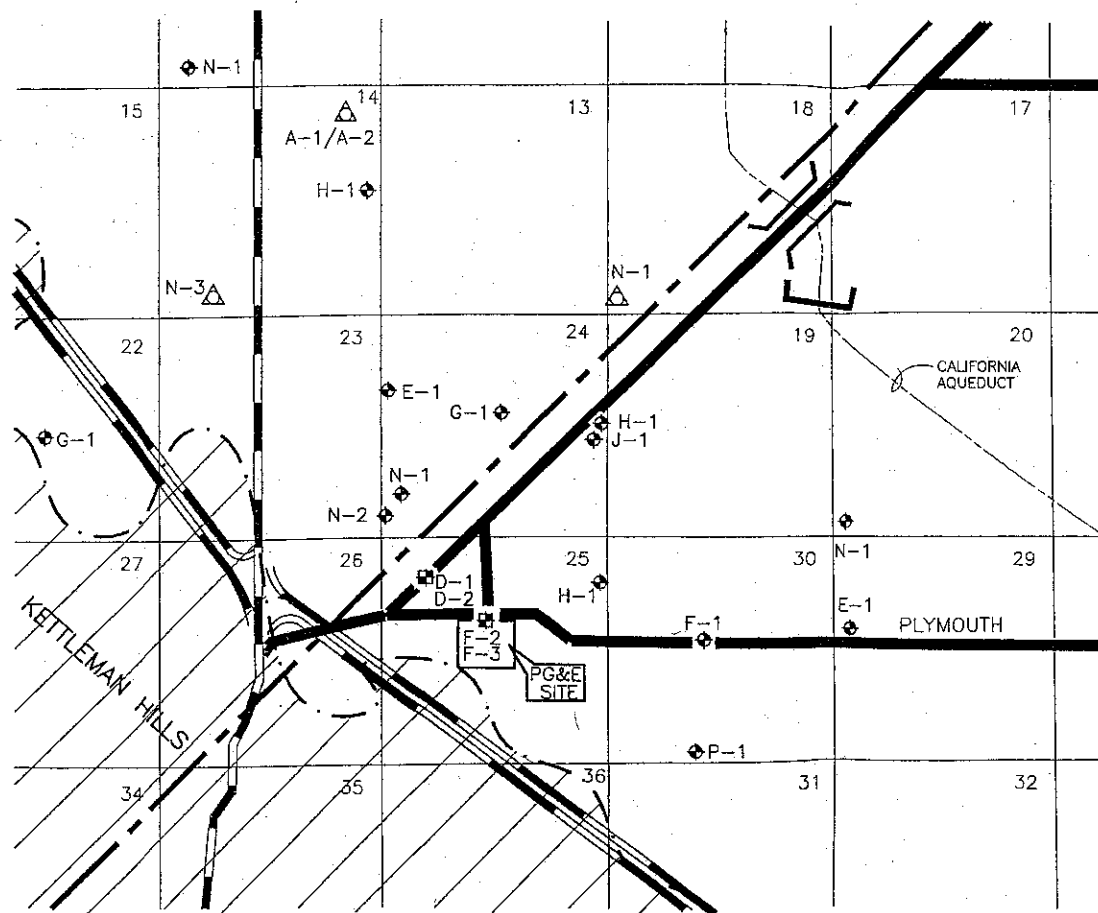
WELL ID	SAMPLING DATE	TOTAL CHROMIUM (mg/l)	HEXAVALENT CHROMIUM (mg/l)	LAB
30-P1	08/19/97	ND<0.01	---	CL
30-P1	08/27/97	ND<0.01	ND<0.01	APCL
30-P1	10/22/97	ND<0.01	ND<0.01	APCL
30-P1	02/19/98	ND<0.01	ND<0.01	APCL
30-P1	05/16/98	ND<0.01	ND<0.01	APCL
30-P1	08/18/99	ND<0.01	ND<0.01	APCL

ABBREVIATIONS:

NOTES:

mg/l Milligrams per liter
 APCL Applied P & Ch Laboratory
 BCA BC Analytical
 CL Chromalab, Inc
 ND Not reported above method detection limit
 --- Not measured/available/analyzed
 25-F2 Well 21S/17E/25F2 (also called E1)
 25-F3 Well 21S/17E/25F3 (also called E2)
 25-D1 Well 21S/17E/25D1
 25-D2 Well 21S/17E/25D2
 24-N1 Well 21S/17E/24N1
 24-N2 Well 21S/17E/24N2
 30-F1 Well 21S/18E/30F1
 30-P1 Well 21S/18E/30P1

All samples were filtered prior to analysis unless noted
 (a) Anomalous result. Laboratory reported that sample contained sediment.
 (b) Sample was not filtered before analysis.
 (c) Reported value is above the method detection limit (MDL) but below the method's practical quantification limit (PQL).
 (d) Well removed from sampling program at request of owner.



LEGEND

- ◆ IRRIGATION WELL
- MONITORING WELL
- △ DOMESTIC WELL, AS IDENTIFIED BY DEPARTMENT OF WATER RESOURCES, ACTUAL USE UNKNOWN
- BOUNDARY OF KETTLEMAN HILLS

FIGURE 2
LOCATION OF GROUNDWATER WELLS

PACIFIC GAS AND ELECTRIC COMPANY
KETTLEMAN COMPRESSOR STATION
AVENAL, CALIFORNIA

PROJECT NO. 10-188

Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

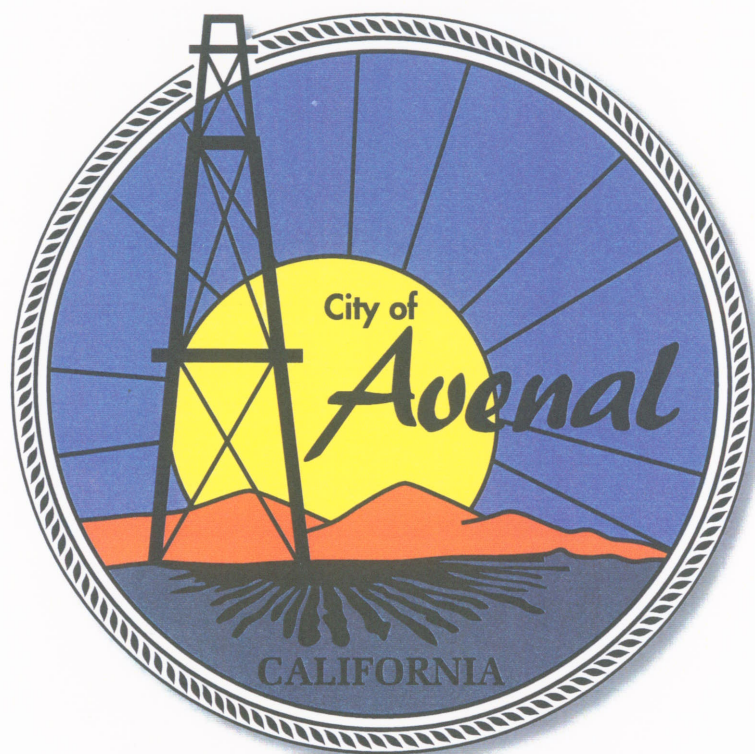
October 30, 2007

APPENDIX G

**DUKE ENERGY AVENAL RESPONSES TO CALIFORNIA ENERGY COMMISSION
(JANUARY 24, 2002 DATA REQUESTS)
PARTIAL SUMMARY**

APPLICATION FOR CERTIFICATION CALIFORNIA ENERGY COMMISSION

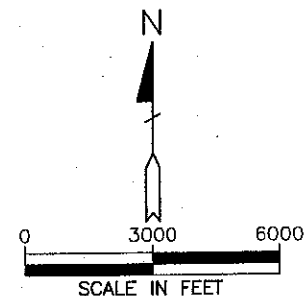
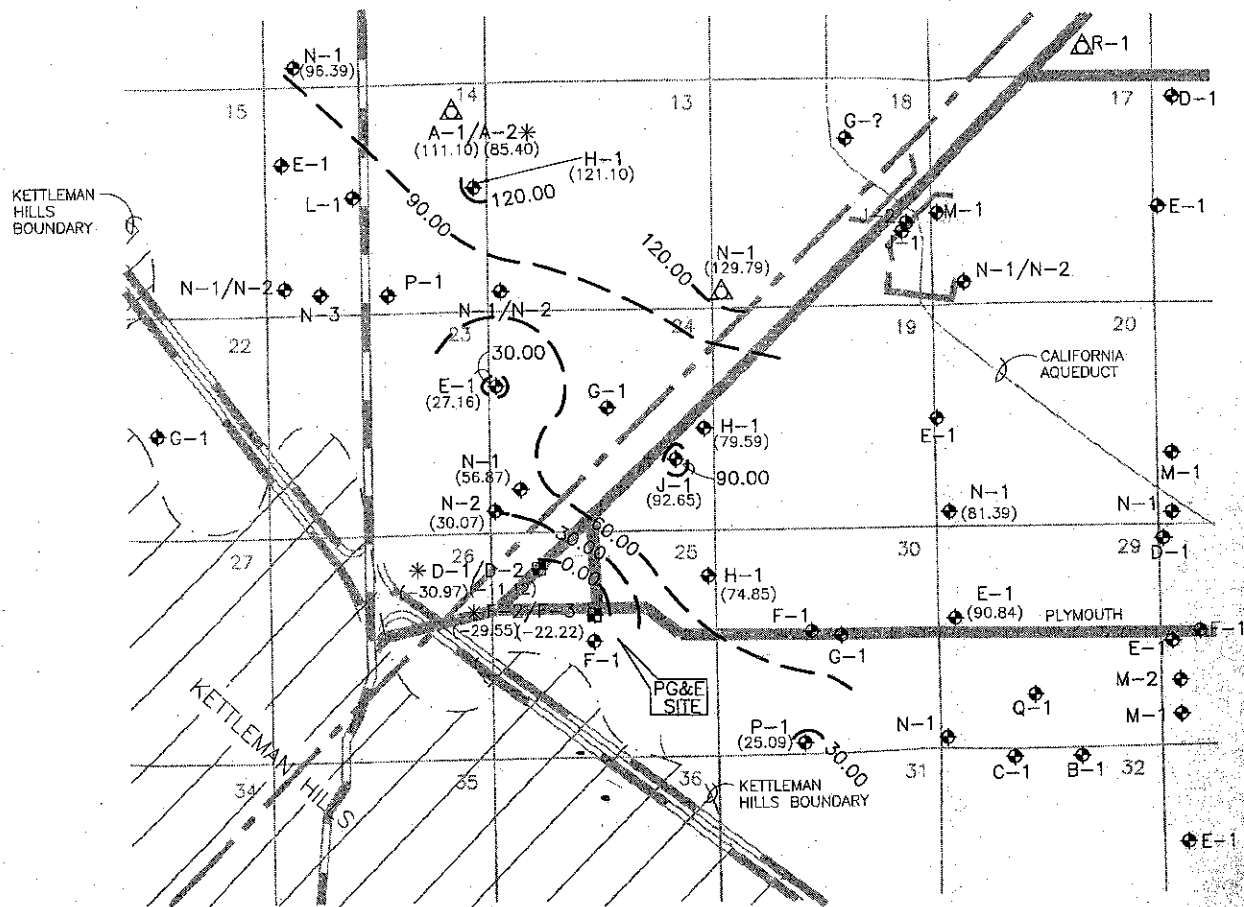
AVENAL ENERGY
(01-AFC-20)



RESPONSES TO
JANUARY 24, 2002 DATA REQUESTS

SUBMITTED BY
DUKE ENERGY AVENAL, LLC

FEBRUARY 2002



LEGEND

- ◆ IRRIGATION WELL
- MONITORING WELL
- △ DOMESTIC WELL, AS IDENTIFIED BY DEPARTMENT OF WATER RESOURCES
- (120.79) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 120.00 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 30.00 FEET)
- * GROUNDWATER ELEVATION NOT USED IN PREPARING CONTOURS

NOTE:

Potentiometric groundwater elevation contours were generated with Quicksurf using the Kriging method with an exponential variogram on a triangulated grid surface.

FIGURE 3
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 17, 1999

PACIFIC GAS AND ELECTRIC COMPANY
 KETTLEMAN COMPRESSOR STATION
 AVENAL, CALIFORNIA

PROJECT NO. 10-188



**AVENAL ENERGY PROJECT
Data Request Responses
(01-AFC-20)**

Response

See Exhibit 77-1, Draft Groundwater Conservation Plan.

DATA REQUEST

78. *Please provide the maximum pumping capacity anticipated for each project well.*

Response

Individual well production rates, based on testing conducted in May and June 2001 indicate flow rates of approximately 900 gpm for well 24-5, approximately 1,000 gpm for well 18-1, and 1,800 gpm for well 18-4. The combined capacity of these three wells is about 3,700 gpm. The project anticipates that the surface water supply from KCWA will entirely meet the needs of Duke Avenal for plant operation and maintenance.

BACKGROUND

Chromium Groundwater Contamination

Ground water serving the Kettleman Hills compressor station 7,000 feet from the Project Site has been identified as contaminated with chromium-6. Review of AFC Tables 6.5-2 and 6.5-3 identifies Site well 18-1 as the shallowest of the three existing Project site wells (based on pump setting), and the only well with detectable chromium in ground water samples (collected in April of 2001 by the Applicant). AFC Figure 1.5-3 identifies at least nine other wells in the area of the Project that are likely high capacity irrigation supply wells within the same aquifer serving the proposed backup wells.

DATA REQUEST

79. *Please provide the as-built well construction diagrams for Kochergen Farms wells 18-1, 18-4, and 24-5. Please provide pumping records for these wells, calculated aquifer characteristics, geologic log (if available) and period and history of use. Using well test information that should already be available, please calculate the area of influence and capture of each of the three wells. If well specific data is not sufficient to calculate well-specific transmissivity (or hydraulic conductivity) please use values reported in the literature to be typical for the aquifer area.*

**AVENAL ENERGY PROJECT
Data Request Responses
(01-AFC-20)**

Response

There is no likelihood of the project back-up water supply exacerbating chromium transport from the Kettleman Compressor Station. This is due to the attenuation of chromium that has occurred in the compressor station area, as further detailed in Response 81, and is independent of any project-related parameter including area of influence of the pumping wells that would be used for the backup water supply. Nevertheless, in response to Data Request 79, pumping test results for Wells 18-1 and 24-5 were analyzed to determine aquifer transmissivity values. The calculated values at Wells 18-1 and 24-5 are 41,600 gpd/ft and 25,600 gpd/ft, respectively. These transmissivity values were used to compute worst-case scenario steady state capture zones for the three project wells (Javandel, I. and Tsang, C., 1986. *Capture-zone type curves = a tool for aquifer cleanup*, in *Groundwater*. v. 24, No. 5, pp. 616-625). The computational results describe a capture zone width of 3,000 to 5,000 feet extending up gradient from each wellhead. These computations are idealized and do not account for factors such as lateral changes in permeability, operation of other high capacity irrigation wells in the region, and recharge in the capture zone area. Further refinement of the capture zone computations is not warranted because there is no foreseeable scenario under which project-related backup water supply pumping could cause significant transport of chromium from the compressor station area (see Response 81). Exhibit 79-1 provides completion details for Well 18-4. Completion details are not available for Wells 18-1 or 24-5.

DATA REQUEST

80. *Please map operating wells within 7,000 feet of the Project site and identify the portion of the aquifer (depth) from which water is extracted if that information is available.*

Response

Exhibit 80-1 shows the location and screened interval depth (where available) for wells within 7,000 feet of the Avenal Energy Site.

DATA REQUEST

81. *Please discuss the likelihood of exacerbating contaminant transport of chromium due to the pumping of the Project Site backup wells. For example, if fresh surface water supply were interrupted during the non-irrigation season, what is the likelihood that pumping from 18-1, 18-4, and/or 24-5 will transport Kettleman Hills chromium contaminants into Project wells or neighboring wells?*

AVENAL ENERGY PROJECT
Data Request Responses
(01-AFC-20)

Response

The Commission Staff's background discussion to this Data Request references detectable chromium at Well 18-1 for the April 2001 sampling event. In responding to the Data Request it was noted that the chromium value reported for Well 18-1 in Table 6.5-3 of the AFC appears anomalous and is likely due to a laboratory problem or error. Well 18-1 was sampled and tested for chromium in January 2000 and June 2001 and both of these sampling events showed chromium to be below detection limits. The January 2000 sampling event showed total chromium to be less than 5 parts per billion (ppb). The June 2001 sampling event showed hexavalent chromium to be less than 0.01 parts per million (ppm).

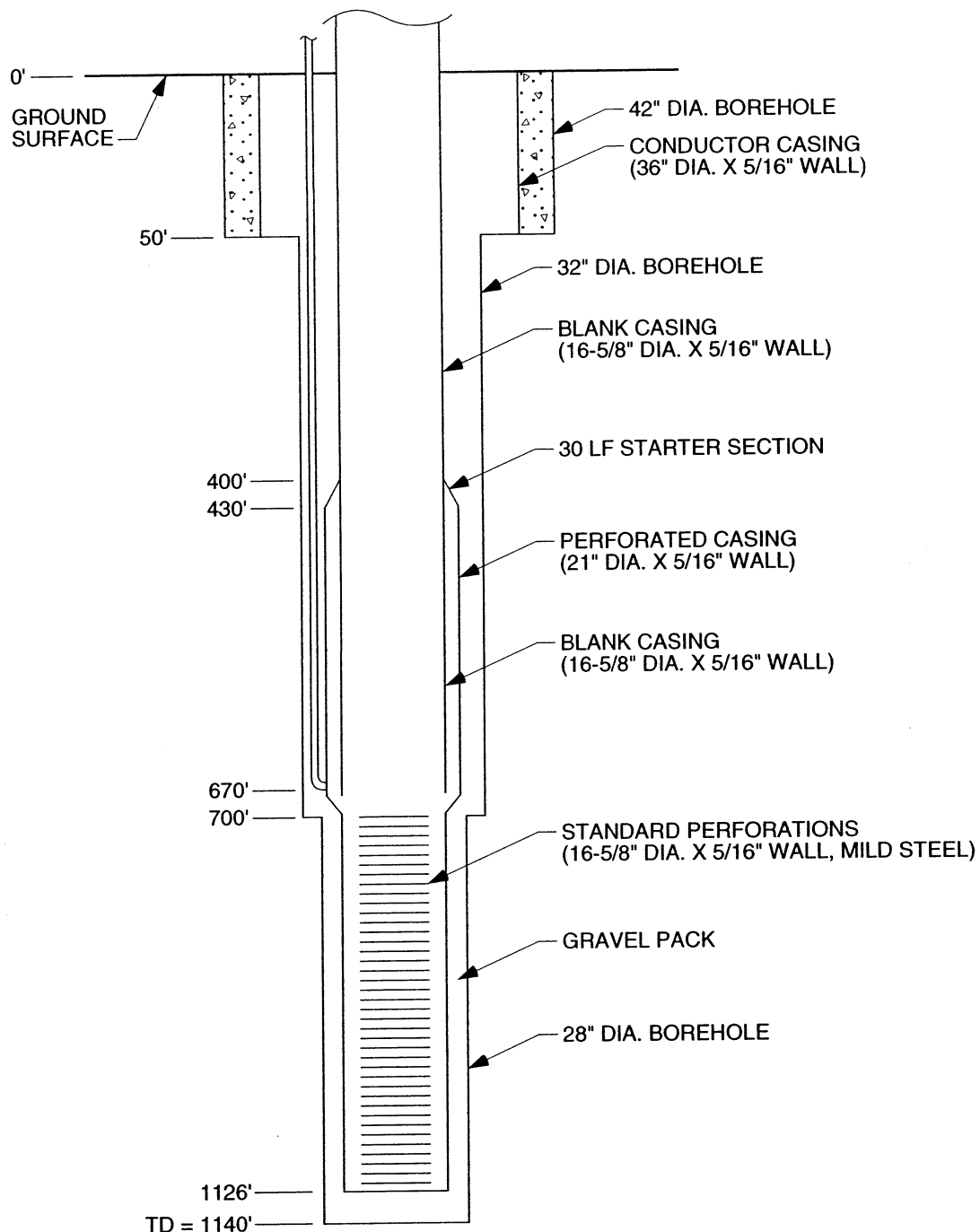
There is no likelihood of the project back-up water supply exacerbating chromium transport from the Kettleman Compressor Station, regardless of rate or timing of backup water supply pumping or any other project parameter. In 1979, the compressor station discontinued use of the chromate-based chemical agent suspected of causing the contamination (Alisto Engineering Group, 1995. *Preliminary Hydrogeologic Assessment, Pacific Gas and Electric Company Kettleman Compressor Station, Avenal, California.*) Based on review of the Regional Water Quality Control Board's file on the compressor station, chromium contamination has been decreasing since 1988. Since that time, attenuation mechanisms have reduced the concentration of chromium to below detection limits. Exhibit 81-1 provides a summary of relevant data obtained from the Regional Water Quality Control Board's file for the compressor station. As shown in Exhibit 81-1, chromium concentrations have been low for the last 8 years or more, and during the last four years, none of the wells monitored have exhibited detectable chromium.

DATA REQUEST

82. *AFC Appendix 6.5-2, Section 2.2 states that shallow perched water is not present beneath the site. The text and numerous figures also suggest that the Corcoran Clay Member is not present beneath the site. Please document the source of this assumption. If shallow perched brackish groundwater is encountered during construction, what protocols are proposed to de-water, collect and properly dispose of this water?*

Response

The limit of the Corcoran clay, as depicted in Figure 3 of Appendix 6.5-2, is based on the Westlands Water District map referenced in the figure. The Westlands Water District has mapped the Corcoran clay to occur east of the San Luis Canal in the vicinity of the Avenal Energy site. The Corcoran clay occurs hundreds of feet below the ground surface and is unrelated to the shallow brackish ground water described in Section 6.5-2 and Appendix 6.5-2 of the AFC. As described in Section 6.5.1.3.3 and



NOTES:

1. Pump is set at 502 feet.
2. Completion details provided on this drawing are based on interpretation of information included in the well construction bid and subsequent information provided by Kochergen Farms. Well perforations are interpreted to start at 430 feet below the ground surface, with an internal section of blank casing placed opposite the perforations to a depth of 700 feet to reduce cascading water effects within the well.

SOURCE:

Luhdorff & Scalmanini Consulting Engineers Drawing,
Kochergen Farm Well 18-4 Based on Drilling Cost Estimate
and Subsequent Invoices, February 2002.

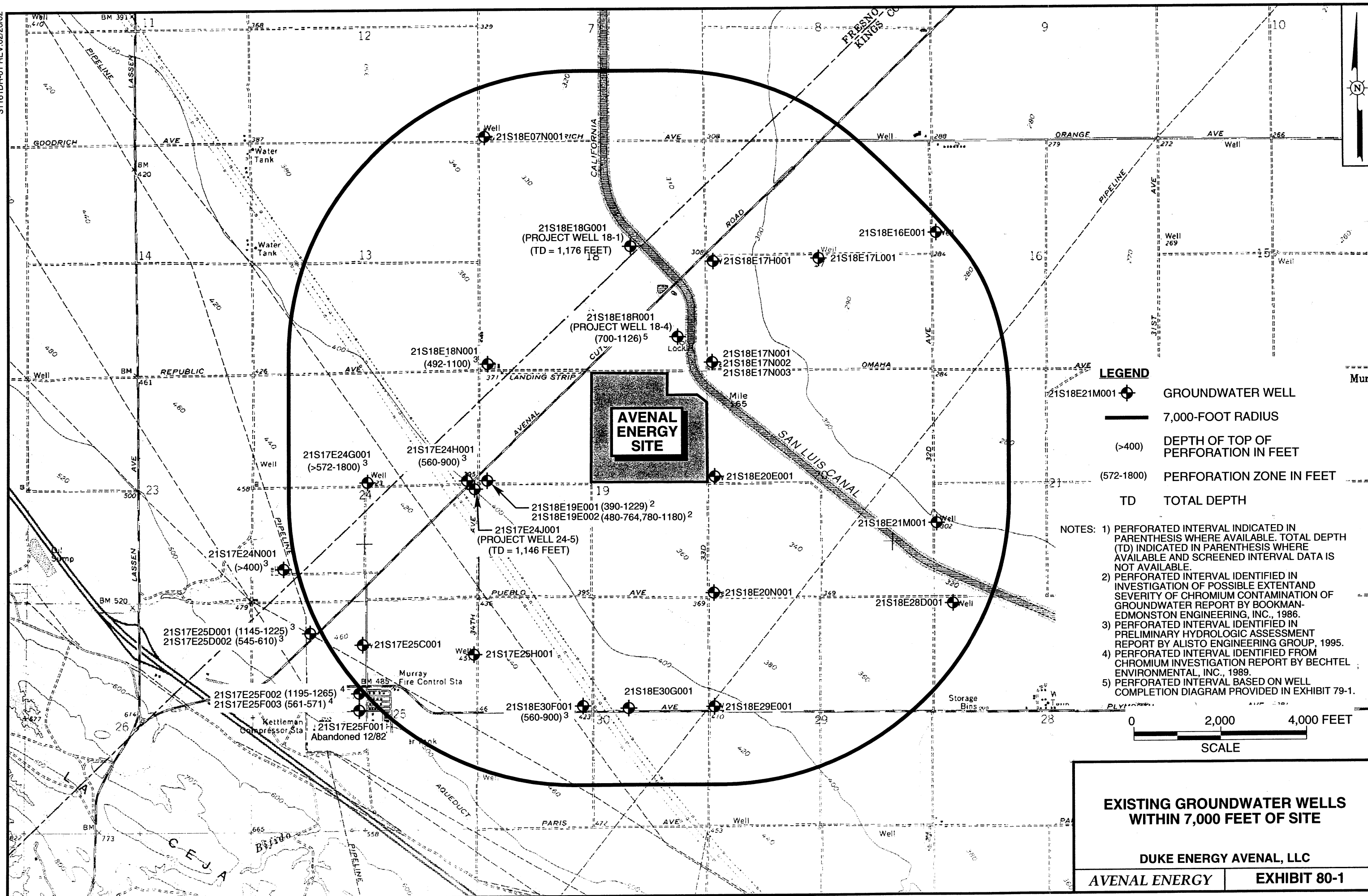
NOT TO SCALE

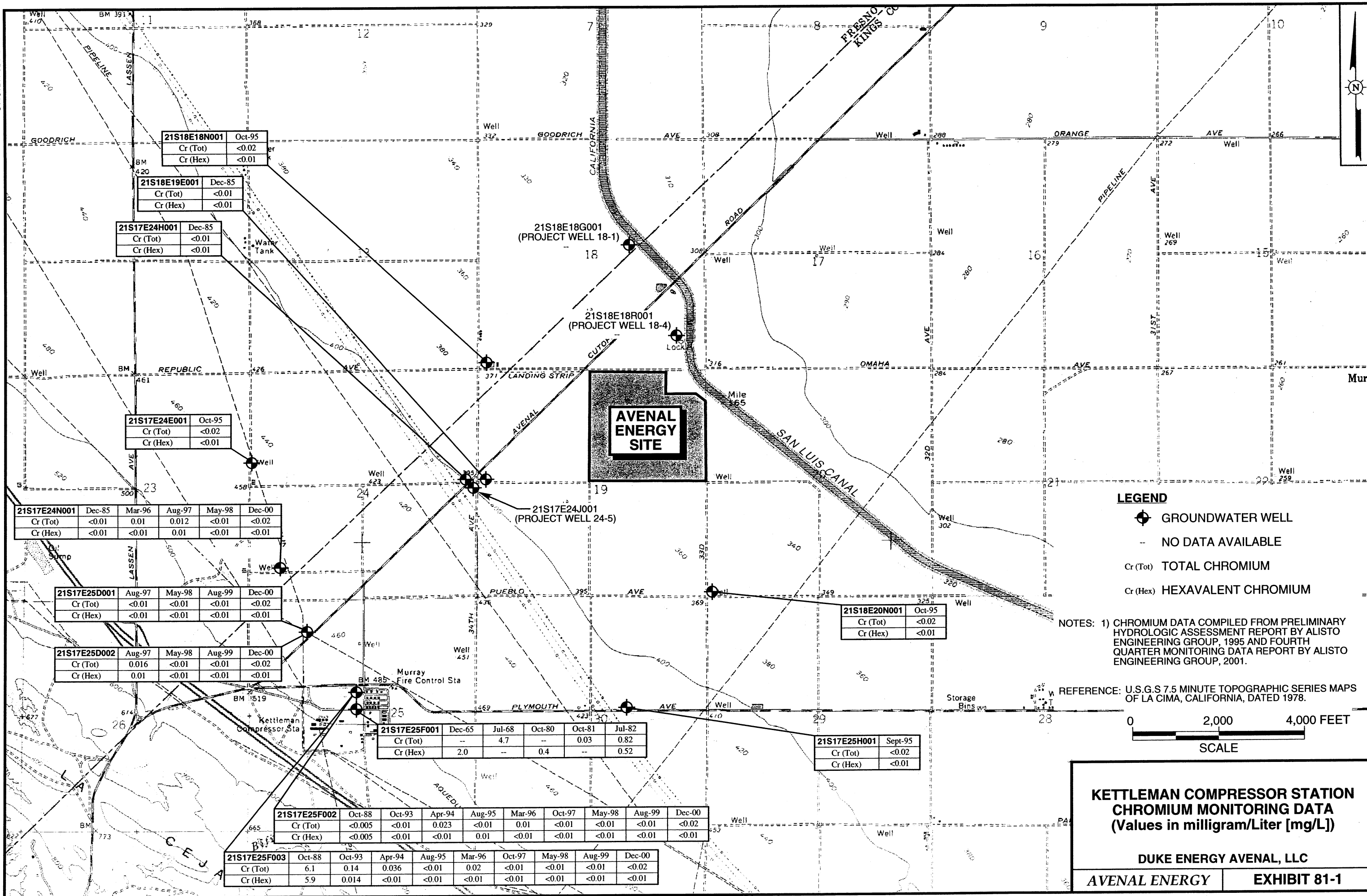
**KOCHERGEN FARMS
WELL 18-4
COMPLETION DIAGRAM**

DUKE ENERGY AVENAL, LLC

AVENAL ENERGY

EXHIBIT 79-1





Phase I Environmental Site Assessment

Northeast 148 acres of APN 36-170-032, Avenal, CA

October 30, 2007

APPENDIX H

PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
Property at Northeast ¼ Section 19, T 21 S, R 18 E. MDB&M
Avenal, California



Photograph 1: View of Subject property, looking east along northern dirt road, from about intersection with Avenal Cutoff Road.



Photograph 2: View of western part of the subject property, looking south.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
Property at Northeast ¼ Section 19, T 21 S, R 18 E. MDB&M
Avenal, California



Photograph 3: View of subject property looking southwest.



Photograph 4: View of property looking west.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
Property at Northeast ¼ Section 19, T 21 S, R 18 E. MDB&M
Avenal, California



Photograph 5: Typical detail view of field (subject property).



Photograph 6: View of adjoining property to the east – City of Avenal Water Treatment Plant.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
Property at Northeast ¼ Section 19, T 21 S, R 18 E. MDB&M
Avenal, California



Photograph 7: View of adjoining property to the north – Almond orchard on north side of dirt road.



Photograph 8: View of adjoining properties on north side of Avenal Cutoff Road – orchards.