Draft
Supplemental Recirculated Environmental Impact Report

SCH# 2014041005

Volume 10
Volume 6 Appendix G.1 through Appendix J.1 (Part 1)
of the Previously Circulated DEIR

GRAPEVINE SPECIFIC AND COMMUNITY PLAN (2019)
Tejon Ranchcorp

Specific Plan Amendment No. 157, Map 500
General Plan Amendment No. 9, Map 202
General Plan Amendment No. 10, Map 202
General Plan Amendment No. 4, Map 218R
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Zone Change Case No. 14, Map 219
Agricultural Preserve #19 - Exclusion

Kern County
Planning and Natural Resources Department
Bakersfield, California

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GRAPEVINE SPECIFIC AND COMMUNITY PLAN PROJECT
Tejon Ranchcorp

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NOTE TO REVIEWER OF ELECTRONIC FILES:

To assist you in reviewing this electronic document, "bookmarks" and/or "links" have been provided for easier navigation between sections. When available, bookmarks are located in the panel to the left. Links are highlighted in BLUE in the Table of Contents. Clicking on either the bookmarks or links will take you to the selected item. This document may consist of multiple linked PDF files. If saving this document to your computer, you must save all corresponding files to a directory on your hard drive to maintain the manner in which these PDF documents are linked.

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REDACTED

PHASE I SURVEY/CLASS III INVENTORY, GRAPEVINE SPECIFIC PLAN AREA, TEJON RANCH, KERN COUNTY, CALIFORNIA

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June 2015
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LIST OF ABBREVIATIONS

amsl	Above mean sea level
BRM	Bedrock mortar
CHL	California Historical Landmark
CEQA	California Environmental Quality Act
CO	Conical mortar hole
CRHR	California Register of Historical Resources
CCS	Cryptocrystallate silica
I-5	Interstate 5
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
SHL	State Historic Landmark
YBP	Years before present

EXECUTIVE SUMMARY

An intensive Phase I survey/Class III archaeological inventory was conducted for the 8,010-acre Grapevine specific plan area, Kern County, California. This study was conducted by ASM Affiliates, Inc., with David S. Whitley, Ph.D., RPA, serving as principal investigator. Background studies for the survey were completed between April and June 2013, with field research conducted from June to November 2013. The study was undertaken to provide compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, related to the potential development within the Grapevine specific plan area.

An archival records search of site files and maps was conducted at the Southern San Joaquin Valley Information Center, California State University, Bakersfield, and the California Native American Heritage Commission Sacred Lands files. These studies indicated that few previously conducted studies had been completed within the Study Area, with a corresponding limited number of previously recorded sites. According to the NAHC files, no Native American sacred sites or traditional cultural places have been identified within or in the vicinity of the Study Area.

An intensive Phase I survey/Class III inventory was conducted from June to November 2013, within the specific plan area by walking parallel transects spaced at 45-foot (15-meter) intervals to identify, record, and assess cultural resources. The study area currently consists primarily of open-space in use as either livestock range-land or row crop and orchards/vineyards.

Including sites and isolated features, a total of 140 previously or newly recorded cultural resources are present within the study area. These include 65 archaeological sites consisting of two historical Native American villages, 14 bedrock mortar (BRM) stations with surface artifacts and/or other surface features, 41 BRM stations, three multicomponent (historical and prehistoric) sites, four historical (Euro-American) sites, and one site of unknown age and cultural affiliation. The total also includes 75 isolated features, 72 of which are ephemeral bedrock mortars.

As proposed, the development within the specific plan area would preserve 96 (69%) of the resources in either dedicated or retained open space (46 sites and 50 isolated features). A total of 44 resources are located within the proposed development area; 25 of these are isolated features and 19 are archaeological sites. The isolated features do not constitute unique resources following CEQA. With the exception of one of the 19 archaeological sites, a historical oil well that lacks integrity, significance evaluations of the development area sites have not been conducted. It is recommended that they be deemed significant and preserved in open space or that a Phase II test excavation and determination of significance/evaluation be conducted in order to assess potential impacts and make final recommendations for resource mitigation and treatment.

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

At the request of the Tejon Ranchcorp, an intensive Phase I archaeological survey/Class III inventory was conducted within the 8,010-acre Grapevine specific plan area (study area), Kern County, California. This study was conducted by ASM Affiliates, Inc., with David S. Whitley, Ph.D., RPA, serving as principal investigator. Background studies for the survey were completed between April and June 2013, with field research conducted from June to November 2013.

The study was undertaken to provide compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, in anticipation of potential development of the specific plan area. Its purpose was to identify all extant cultural resources within this study area, to obtain a preliminary assessment of their condition and potential significance, and to make planning recommendations for the future evaluation, management and/or treatment of the identified resources.

1.2 PROJECT DESCRIPTION AND PROJECT DESIGN FEATURES

1.2.1 Project Location

The Grapevine specific plan area is located in the west-central portion of Tejon Ranch. The approximately 270,000-acre Ranch is currently held in private ownership by Tejon Ranchcorp. The Ranch includes a large portion of the Tehachapi Mountains as well as smaller portions of the San Joaquin and Antelope valleys. Generally, the Ranch extends from Interstate 5 (I-5) on the western side to State Route 58 on the northern side and State Route 138 to the south (Map A1, Confidential Appendix A).

The 8,010-acre Grapevine specific plan area is entirely within unincorporated Kern County just south of the junction of I-5 and SR-99. Downtown Bakersfield is approximately 25 miles north of the specific plan area. The majority of the specific plan area is on the east side of I-5, but a smaller portion lies on the west side of I-5. The specific plan area is bisected by the California Aqueduct (Map A2, Confidential Appendix A).

The Grapevine specific plan area lies mainly in the Grapevine (approximately 7195 acres) and Pastoria Creek (~576 acres) U.S. Geological Survey 7.5-minute quadrangles. There is one parcel and a portion of two other parcels(~287 acres) in the specific plan area that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57'9" N and 118°55'39" W. The Universal Transverse Mercator coordinates for the approximate center are Easting 323999 meters and Northing 3869472 meters, in Zone 11.

1.2.2 Project Overview

The Grapevine specific plan area includes approximately 8,010 acres, of which approximately 3,232 acres (or about 40%) would be designated as exclusive agriculture with grazing and open space as the predominant land uses and approximately 4,778 acres would be developed as a residential community and employment center. The community would leverage and build upon the economic expansion and job growth that has occurred at Tejon Ranch Commerce Center, and would feature a series of compact neighborhoods linked by bicycle and pedestrian trails that provide convenient access to grocery and drugstores, professional services, schools, and parks. The project site is located along I-5, at the gateway to the Southern San Joaquin Valley, and is immediately adjacent to the extensive open space that was conserved in the Tejon Ranch Land Use and Conservation Agreement.

The project, which includes up to 14,000 residential units and 10.7 million square feet of commercial land uses, is designed as a series of conveniently located village centers, each composed of a mix of housing (averaging 15 dwelling units/net acre), neighborhood-serving retail and office uses, schools, parks, and community services. Outside the village cores, the Grapevine project includes a mix of residential uses, office, research and development, regional commercial, freeway-oriented commercial, and light industrial/warehouse uses. Other potential public facilities, including a fire station, sheriff substation, transit facility/park-and-ride, and water and wastewater treatment facilities, are proposed throughout the community.

The plan includes a mix of lower-density residential uses (averaging 6.5 dwelling units/net acre), office, research and development, regional commercial, freeway-oriented commercial, and light industrial/warehouse uses.

Access to the first phases of the Grapevine community will be from Interstate 5 at the existing Grapevine Road and Laval Road interchanges. During later phases of development, the existing Grapevine Road/ Interstate 5 interchange may be expanded and relocated to the north. To allow for the relocation and replacement of the interchange, an existing Vehicle Enforcement Facility may be relocated to a TRC owned parcel on the west side of the junction of I-5 and CA-99. The project would also improve an existing TRC agricultural road east of the project area to provide access for truck traffic currently using Edmonston Pumping Plant Road to travel to properties east of the project. The circulation network with in the project is composed of two- and four-lane arterials, collector streets, and local streets organized in a grid pattern. All roads within the project site will be public. Multipurpose trails are proposed along Grapevine Creek, Cattle Creek, the southern foothills, and the open space adjacent to the California Aqueduct and at other locations throughout the project site. Some of these trails would connect to on-street, Class 2 bike lanes. Water and sewer service will be provided by the Tejon–Castac Water District.

1.2.3 Project Design Features (PDFs)

As planned, the project includes 3,232 acres of open space and exclusive agricultural land uses. A total of 140 cultural resources have been identified within the 8,010-acre specific plan area. The project has been designed to accommodate site avoidance either through dedicated open-space or retained open-space, resulting in the passive preservation of 90, or 64%, of these resources (Table

1.1; see Confidential Appendix A, Figure A5). This includes 46 of the 65 prehistoric and historical archaeological sites (71%), and 44 of the 75 feature isolates (59%). Included in the preserved sites is CA-KER-810, a historical Native American village that is a component of the Sebastian Indian Reserve Discontiguous Archeological District, designated as California State Historical Landmark (CHL) #133, which is listed on the California Register of Historic Resources (CRHR) and has been determined eligible for listing in the National Register of Historic Place (NRHP) by the California Office of Historic Preservation (OHP) at the State level of significance. Also included is Rose Station, a historical Euro-American site designated CHL #300.

Table 1.1 Cultural Resources Preserved in Designated Open-Space

Sites	Isolated Features
Previously Recorded: (7 total)	**Prehistoric:** (44 total)
P-15-000810/CA-KER-810 (Component of P-15-7674, CHL 133)	TP-ISO-12
P-15-004884/CA-KER-4465 (Component of P-15-7674, CHL 133)	TP-ISO-13
P-15-009629/CA-KER-5855	TP-ISO-17
P-15-010845/CA-KER-6306	TP-ISO-18
P-15-010846/CA-KER-6307	TP-ISO-21
P-15-010847	TP-ISO-22
P-15-007743 / Rose Station (CHL 300)	TP-ISO-27
Historic/Multicomponent (1):	TP-ISO-31
TP-SITE-25	TP-ISO-41
Prehistoric: (38 total)	TP-ISO-42
TP-SITE-03	TP-ISO-43
TP-SITE-05	TP-ISO-54
TP-SITE-11	TP-ISO-70
TP-SITE-13	TP-ISO-71
TP-SITE-20	TP-ISO-72
TP-SITE-21	TP-ISO-74
TP-SITE-23	TP-ISO-75
TP-SITE-24	TP-ISO-76
TP-SITE-26	TP-ISO-77
TP-SITE-27	TP-ISO-79
TP-SITE-28	TP-ISO-80
TP-SITE-29	TP-ISO-81
TP-SITE-30	TP-ISO-82
TP-SITE-31	TP-ISO-83
TP-SITE-32	TP-ISO-85
TP-SITE-33	TP-ISO-86
TP-SITE-34	TP-ISO-87
TP-SITE-35	TP-ISO-88
TP-SITE-36	TP-ISO-90
TP-SITE-37	TP-ISO-91
TP-SITE-38	TP-ISO-92
TP-SITE-39	TP-ISO-93
TP-SITE-40	TP-ISO-95
TP-SITE-41	TP-ISO-96
TP-SITE-42	TP-ISO-98
TP-SITE-43	TP-ISO-99
TP-SITE-44	TP-ISO-102
TP-SITE-45	TP-ISO-104
TP-SITE-46	TP-ISO-105
TP-SITE-47	TP-ISO-106
TP-SITE-48	TP-ISO-108

Sites	Isolated Features
Previously Recorded: (7 total)	**Prehistoric:** (44 total)
TP-SITE-49	TP-ISO-109
TP-SITE-50	TP-ISO-110
TP-SITE-51	TP-ISO-111
TP-SITE-52	
TP-SITE-54	
TP-SITE-58	
TP-SITE-59	

1.2.4 Project Construction Scenario

The project site is divided into six planning areas ranging in size from approximately 450 to 1,400 acres. Development would be phased over a period of 19+ years, starting with the development of Planning Area 1 and/or 6 and continuing with the balance of the planning areas (2, 3, 4, and 5) in numerical order. Buildout of each phase is projected to take approximately 2 to 4 years (Phase 1: 2 years; Phase 2: 4 years; Phase 3: 3 years; Phase 4: 4 years; Phase 5: 4 years; Phase 6: 2 years), with the first phase commencing in 2016. The portions of the site that are proposed to remain in exclusive agriculture/open space are primarily located along the southern edge of the California Aqueduct, along the southern portion of the project site at the foothills of the Tehachapi Mountains, and along Grapevine and Cattle Creeks.

Ground surface disturbance of any kind, including grubbing, grading, soil compaction, and the installation of subsurface utilities, including landscaping water lines, has the potential to result in adverse impacts to cultural resources.

1.2.5 Project Operation Scenario

The project operations are described in the Grapevine Specific and Community Plan, and land uses associated with operations are described in the Grapevine Special Planning District Plan.

2.0 SETTING AND BACKGROUND

2.1 ENVIRONMENTAL SETTING

The Grapevine specific plan area is located in the southern end of the San Joaquin Valley and the foothills of the Tehachapi Mountains, Kern County, California (Figures D1 and D2, Confidential Appendix D). The San Joaquin Valley portion of the specific plan area ranges in elevation from roughly 1,000 to 1,300 feet above mean sea level (amsl), with elevation sloping gradually upwards from north to south. While this area may be generally characterized as "open flats," outside of leveled fields and orchards it is better described as an uneven plain consisting of extensive alluvial fans, debris flows and over-bank deposits. The debris flows and deposits spread outwards from the primary drainage within the plan area, Grapevine Creek near its western side, and, to a lesser degree, from Live Oak Canyon, near the center of the plan area, and Pastoria Creek, at the plan area's eastern boundary. These deposits contain surface exposures of boulders, cobbles, and gravel intermixed with coarse sandy alluvium and colluvium, and generally reflect a high energy depositional environment. Lithic clasts within the boulder and cobble concentrations reflect the geological complexity of the northern front of the Tehachapis, and include grano-diorite, limestone, basalt, sandstone, conglomerates, and breccias.

The Tehachapi Mountains foothill portion of the specific plan area ranges roughly from 1,300 to 2,200 feet amsl. It includes the mouths of three significant canyons/drainages, Grapevine, Live Oak, and Pastoria creeks, from west to east. Grapevine Canyon has served as the primary north-south transit and communication corridor for California since the mid-nineteenth century, and it has been very heavily impacted as a result. This canyon mouth currently contains the I-5 freeway and a series of transmission and pipeline corridors, including pumping stations and tank facilities. Combined with vineyards and other development, it contains almost no original/intact ground surface. Perhaps as a result of flood control modifications associated with its lengthy use, and/or perhaps combined with historical flood incidents, Grapevine Creek currently comprises a series of inter-braided, in some cases large, drainage channels on the open flats. All of these channels, like the other drainages within the specific plan area, only carry water intermittently Live Oak Canyon and drainage is effectively intact though Edmonston Pumping Station Road crosses the drainage a short distance north of the canyon mouth. The mouth of Pastoria Canyon has been truncated by the California Aqueduct. Two transmission corridors run north-south through it and a switching station has been constructed near its mouth.

The mountain front itself consists of moderate to very steep slopes cut by numerous intermittent drainages. A large landslide feature to the east of the I-5 has created an upland flat although, as the origin of this feature implies, the northern front of the Tehachapis represents a relatively unstable geomorphological setting.

Vegetation on the valley floor is predominated by modern cultigens and other introduced species, such as Russian thistle (tumbleweed; *Salsola tragus*) and grasses, but also includes cheatgrass (*Bromus tectorum*) and doveweed (*Croton setiger*). Historically, however, this area was most likely covered by the Valley Grassland community (Schoenherr 1992:520-521). This was dominated by perennial bunchgrasses such as needle-grasses (*Stipa* spp.), triple-awned grasses

(*Aristida* spp.), bluegrasses (*Poa* spp.), and rye grasses (*Elymus* spp.), as well as annual grasses, herbs, and geophytes. The mountain front includes oak woodlands and riparian environments. Noted vegetation on the mountain front includes vinegar weed (*Trichostema lancedatim*), dove weed, fiddleneck (*Amsinckia* spp.), scrub and live oak (*Quercus* spp.), poison oak (*Toxicodendron diversilobum*), saltbush (*Atriplex* spp.), coyote brush/chaparral broom (*Baccharis pilularis*), gooseberry trees (*Ribes divericatum*), California buckeye trees (*Aesculus californica*), jimsonweed (*Datura wrightii*), Russian thistle, cheatgrass, and other annual grasses. Adjacent areas include row crops and grape vineyards as well as walnut, almond, and pistachio orchards (Whitley 2013).

2.2 REGULATORY CONTEXT

Section 106 of the NHPA is applicable to federal undertakings, including projects financed or permitted by federal agencies, regardless of whether the activities occur on land that is managed by federal agencies, other governmental agencies, or private landowners. NHPA Section 106 may be applicable to the project due to future potential U.S. Fish and Wildlife Service or U.S. Army Corps of Engineers permitting requirements. The purpose of Section 106 is to determine whether adverse effects would occur to significant cultural resources, defined as "historic properties" that are listed in or determined eligible for listing in the NRHP. The criteria for NRHP eligibility are defined at 36 CFR §60.4 and include:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that:

(a) Are associated with events that have made a significant contribution to the broad patterns of our history; or

(b) Are associated with the lives of persons significant in our past; or

(c) Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

(d) Have yielded or may be likely to yield, information important in prehistory or history.

Ordinarily cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered NRHP. However, such properties would qualify either if they are integral parts of districts that otherwise meet the criteria, or if they fall within the following categories:

(a) A religious property deriving primary significance from architectural or artistic distinction or historical importance; or

(b) A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or

(c) A birthplace or grave of a historical figure of outstanding importance if there is no appropriate site or building directly associated with his productive life.

(d) A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or

(e) A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or

(f) A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own exceptional significance; or

(g) A property achieving significance within the past 50 years if it is of exceptional importance. (http://www.achp.gov/nrcriteria.html)

CEQA is applicable to discretionary actions by state or local lead agencies. Under CEQA, lead agencies must analyze impacts to cultural resources. Significant impacts under CEQA occur when "historically significant" or "unique" cultural resources are adversely affected, which occurs when such resources could be altered or destroyed through project implementation. Historically significant cultural resources are defined by eligibility for or by listing in the California Register of Historical Resources (CRHR). In practice, the federal NRHP criteria for significance applied under Section 106 are generally (although not entirely) consistent with CRHR criteria (see PRC § 5024.1, Title 14 CCR, Section 4852 and § 15064.5(a)(3)).

Significant cultural resources are those archaeological resources and historical properties that:

(1) Are associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

(2) Are associated with the lives of persons important in our past;

(3) Embody the distinctive characteristics of a type, period, region, or method of construction, or represent the work of an important creative individual, or possess high artistic values; or

(4) Have yielded, or may be likely to yield, information important in prehistory or history.

Unique resources under CEQA, in slight contrast, are those that represent:

an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC § 21083.2(g)).

Preservation in place is the preferred approach under CEQA to mitigating adverse impacts to significant or unique cultural resources.

2.3 CULTURAL BACKGROUND

Background to the Tejon Ranch, including the specific plan area, has recently been synthesized by Whitley (2013), Whitley and Andrews (2011), and Whitley et al. (2011). The following summaries are taken from these sources.

2.3.1 Ethnographic Background

The Tejon Ranch region was a contact point between five separate ethnolinguistic groups immediately prior to the arrival of Euro-Americans in California: the Kawaiisu, Tataviam, Southern Valley Yokuts, Interior Chumash, and Haminat-Kitanemuk. The last three of these groups lived within or in the general vicinity of the specific plan study area.

Interior Chumash (probably speakers of Ventureño Chumash) lived on upper Piru Creek, in Grapevine and Tecuya canyons, and in the Gorman area. Their villages extended to the eastern shore of Tejon (Castac) Lake on the Tejon Ranch, where the historic village of *Kashtiq* was located, and south to Quail Lake, known in Chumash as *Shraqang*. They also occupied a village at the mouth of Grapevine Canyon, *Mat'apxwelxwel*, and another, *Tecuya*, at the mouth of Tecuya Creek to the west.

Otherwise the San Joaquin Valley floor was occupied by the southern Valley Yokuts, with the Yauelmani Yokuts extending farthest to the southeast into the Tejon Ranch. The Yokuts are Penutian speakers, and thus are linguistically related to other occupants of the Central Valley. Yokuts villages apparently extended up to, but not into, the mouths of the canyons on the northern front of the Tehachapi Mountains.

The Kitanemuk occupied the south and central “heart” of the Tehachapi Mountains and the adjacent northwestern end of the Antelope Valley. These are speakers of the Serran branch of the Takic branch of the Uto-Aztecan language stock, and they are sometimes referred to as Haminat. They were closely related linguistically to other Serran Takic groups, such as the Serrano proper and Vanyume, who lived along the northern front of the Transverse Ranges. The Kitanemuk, however, probably did not extend down onto the San Joaquin Valley floor, which was occupied by the Yokuts. The westernmost Kitanemuk occupation appears to have fallen between Tunas and El Paso creeks, judging from known village locations, with most of their villages found further east and south.

The specific plan study area thus falls in a contact zone between the Kitanemuk, Yokuts, and Chumash. Despite the apparent ethnolinguistic distinctions between these three groups (as well as the others that also inhabited parts of the Tejon Ranch more generally), their lifeways were in many instances similar, reflecting widespread adaptive patterns in south-central California, as well as a deep and shared series of cultural traditions.

The Chumash, for example, followed a hunting-gathering-fishing subsistence pattern that incorporated a heavy reliance on maritime resources, including pelagic and littoral fish, and shellfish -- at least for groups living along the coast. Indeed, the bountiful sea resources that they exploited may have been a key factor in their evolutionary success: at the time of the arrival of the Spanish, the Chumash had reached levels of population density and complexities in social organization unequaled worldwide by other non-farming groups. These included permanent coastal villages along the Santa Barbara Channel area containing as many as 1,000 inhabitants, as well as a hierarchical sociopolitical organization consisting of at least two major chiefdoms. Further, based on recent reconstructions using mission registers, the Chumash appear to have had a matrilocal, and perhaps matrilineal, clan-based society.

The Interior Chumash of course lacked direct access to the marine resources that contributed to such unusually high population densities along the Santa Barbara coastline. Adaptation to the environment was therefore more closely tied to terrestrial resources, including especially the acorn-bearing oak, with cultural patterns in general very similar to surrounding interior groups, such as the Yokuts. Notably, however, the Interior Chumash are particularly renowned for their rock paintings or pictographs, important concentrations of which are located on the San Emigdio Ranch and the Carrizo Plain, to the west and northwest of the study area. Ethnographic information demonstrates that their cave paintings were made by shamans, and that they depict the supernatural experiences these medicine men had on their vision quests.

Ethnographic information indicates that the southern San Joaquin Valley area was occupied by the Yauelmani Yokuts. Like most Yokuts groups, the Yauelmani were organized as a recognized and distinct tribelet, a landowning group linked by their shared territory and descent from a common ancestor. The tribelet was headed by a chief who was assisted by a variety of assistants. A shaman also existed, who served as religious officer, but the shaman did not have any direct political authority in a strict sense. Like other Yokuts groups, subsistence emphasized the acorn-bearing oak, with the addition of a wide variety of other plants, fish, and game.

Less ethnographic information exists on the Kitanemuk. Like many south-central California groups, however, they were also probably organized into tribelets, with political organization and subsistence practices similar to their Yokuts neighbors.

2.3.2 Ethnohistoric and Historic Background

Spanish contact effectively started in A.D. 1772, when Pedro Fages crossed through Tejon Pass, the first of a series of early explorers visiting the region. Fages was followed by Fr. Francisco Garcés, with the de Anza expedition, who spent a week in Tejon Canyon in 1776, and Fr. Jose Maria Zaldivea, coming from Santa Barbara in 1806, who traversed *Cañada de las Uvas* (Grapevine Canyon). In 1827, Jedediah Smith also went through the region during his fur-trapping escapades. He was followed by John C. Frémont and his guides, Kit Carson and Alexis Godey, in 1830 and 1844 respectively. In 1847-1848, Frémont spent the winter in the Tejon Pass area.

Perhaps more important, in terms of ramifications for local Native American communities, was the establishment of the Spanish mission system starting in 1769 in San Diego. This had both direct and indirect impacts on local tribal populations in the region. Although outside the heavily missionized coastal zone, some Tejon area individuals were relocated to the missions, converted

to Catholicism, and learned farming and other European crafts and skills. Other Native Americans actively resisted missionization, resulting in revolts at the missions themselves and armed insurrections, especially in the San Joaquin Valley region. By 1824, the mission system had started to unravel. Former neophytes began to return to their ancestral villages or sought refuge outside the reach of the missions, bringing farming and other training with them.

During the latter period of Mexican control of California, from 1843 to 1846, four large land grants were awarded in the immediate area: the 26,626 acres *Rancho Los Alamos y Agua Caliente* ("cottonwoods and hot water"), acquired by Pedro Carillo from Governor Micheltorena in October 1843; 100,000-acre *Rancho El Tejon* ("the badger"), awarded to José Antonio Aguirre and Ignacio del Valle in November 1843; the approximately 22,000-acre *Rancho Castac* (Chumash for "spring-eye"; in Spanish "*ojo de agua*") obtained by José Maria Covarrubias in 1843; and the 48,800 acres *Rancho La Liebre* ("the hare"), granted to José Maria Flores in April 1846.

Additionally, at this time, the San Joaquin Valley tribes were effectively in armed revolt. This accelerated with the California Gold Rush, starting in 1848, resulting in the movements of large numbers of Euro-Americans into the Sierra Nevada foothills, destroying Native American populations and life-ways. Euro-American incursions began roughly due east of the San Francisco Bay Area but, over time, spread progressively southward, towards the southern San Joaquin Valley, increasing pressure on the southern tribes. They resisted both Euro-American movement through and settlement into their territory and used the southern San Joaquin Valley as a staging ground for raiding cattle ranches in the Los Angeles Basin and central coast.

Likely as a result of both remote location and instability in the area, the Mexican land grants were all but unused by their grantees. A small, short-lived ranch was established on *Rancho El Tejon* by an employee of del Valle, but this appears to have had little appreciable impact. As a result, other Euro-Americans either assumed the lands were unclaimed and open to settlement, or knew about the land grants but paid them little heed. For example, Dr. Darwin French set up a ranch at the mouth of Tejon Canyon in the spring of 1850. Due to Native American unrest in the region, he departed in 1851, subsequently becoming renowned for his involvement in the exploration of the Death Valley region. Likewise, Alonzo Ridley and David McKenzie came into the Tejon region to trade with Native Americans in May 1852. Around this same time, Samuel A. Bishop moved into the area, settling on what was *Rancho Castac*.

To address the "Indian Problem," as it was then called, three federal commissioners were appointed in 1850 to establish treaties with the tribes. These treaties would in part include the establishment of reserved lands—reservations—for tribes to occupy in perpetuity. This formal process began in January 1851. Commissioners, accompanied by detachments of U.S. soldiers, signed eight treaties by September of that year, ostensibly creating 10 separate reserves located in the Central and San Joaquin valleys. The treaty covering the southern San Joaquin Valley, "Treaty D," was signed in Tejon Canyon and was the seventh of the eight.

Commissioner George Barbour arrived at Tejon in June 1851 with Capt. Erasmus D. Keyes and their military detachment. They established Camp Persifer F. Smith, at French's deserted rancho, at the entrance to Tejon Pass. Here they met with the assembled tribes. "Treaty D" was signed by Barbour and 29 chiefs, seven of whom were (at that time) associated with villages that would

become components of the reserve, and a number of others who became prominent leaders on the reserve. From Tejon ("Texon" in the treaty; that is, the Kitanemuk chiefs) there were Vincente ("Vicente" in some accounts), Chico, Pablo, Jose Antonio, Martin, and Francisco. Another Chief Antonio signed for *Uvas*, the Chumash village in Grapevine Canyon, the westernmost village on the reserve. Yokuts Chief Raymundo ("Remundo") from the Bakersfield area, and Chumash Chief Emiterio ("Imiterio"), from San Emigdio to the west, were also notable signators. Vincente and Chico, two brothers, along with Pablo (also sometimes called Zapatero) played significant roles in reserve history.

"Treaty D" was intended to reserve the southern extent of the San Joaquin Valley for the signatories' tribal groups. This extended from the Kern River above modern Bakersfield across the valley for roughly 40 miles, turning along the base of the Temblors and Tehachapis south to Tejon Canyon and then north along the northwestern front of the Tehachapis to the starting point. This was in keeping with approximate sizes of other treaties. As with others, it included provisions for providing assistance, establishing farms, and fully transitioning the tribes to full-time agriculture. With this treaty, the chiefs effectively agreed to end any insurrection and find an accommodation with the U.S. Government and the influx of Euro-Americans. It was, in a real sense, a realistic acknowledgment of the future, and it terminated over a generation of instability and violence at the southernmost end of the San Joaquin Valley.

Due to opposition from the California Congressional delegation who objected to the "loss" of valuable land for Euro-American settlement, none of the treaties were subsequently ratified by the U.S. Senate. This left the "Indian Problem" unresolved, although the tribes were not informed of this fact. In 1853, Congress authorized the creation of five 25,000-acre reserves to address the issue. Edward F. Beale, who was appointed Superintendent of Indians Affairs for California and Nevada in 1852, attempted to establish the Sebastian Military Reserve, as it was first known, following consultation with the U.S. Army commander in California. It was placed on portions of Tejon and Castac ranchos in 1853.

Although envisioned by Beale as covering 50,000 to 75,000 acres, the extent of the reserve was first established by Congress as 25,000 acres in size, and then reduced to 10,000 acres, but its boundaries were never legally mapped or defined. Federal records indicate that Beale was aware that the area of the proposed reserve was covered by Mexican land grants (*Rancho El Tejon* and *Rancho Castac*), but he believed they had been abandoned and were therefore open to federal appropriation. Beale established villages (probably on existing, pre-contact settlements) primarily at canyon mouths to provide water for farming. Chiefs were present at each of these villages and, at least initially, it was planned that they would form a kind of governing body for the reserve as a whole. As discussed below, the mouth of Grapevine Canyon contained the westernmost village on the reserve; others are known to have existed at the mouths of Live Oak, Pastoria, Tejon, and Chanac creeks, as well as at some areas in between. The initial headquarters of the reserve was in Live Oak Canyon, within the specific plan study area, with Samuel A. Bishop as the first Indian Agent, under Beale. The reserve headquarters was subsequently moved to upper El Paso Creek, eventually becoming the original Tejon Ranch headquarters. Two of the reserve villages, in Grapevine and Live Oak Canyons, are located within the project area, with the majority of the villages located to the east. The two within the project area were known as *Mat'apxwelxwel* and *Couyan*, respectively. (As discussed below, *Mat'apxwelxwel* was destroyed by highway

construction.) Villages outside of the project area were located on Pastoria Creek (*Tripohow)*, Tunis Creek (*Tutruw)*, El Paso Creek (*Tinliu*), El Monte (*Hoshtsiw, Tsuitsaw,* and *Toinew Yauliw*), and Tejon Canyon (*Pusin Tinliu*), not all of which have been relocated or are still intact.

Beale's appointment as Superintendent and his creation of the reserve were politically controversial and soon came under attack, in part due to allegations about the misuse of government funds. He and his supporters asserted, in Beale's defense, that by 1854 the reserve contained about 2,500 Native Americans cultivating approximately 3,000 acres of wheat with 10 miles of irrigation ditches. This glowing (and hyperbolic) claim was repeated by many California newspaper articles, contributing to something of a mythology about Beale and the beginnings of the reserve that is, in full light, questionable.

Beale was replaced as Superintendent in 1854 by Thomas J. Henley who, in his first report, stated that a maximum of only 800, not 2,500, Native Americans had ever been resident at Tejon. J. R. Vineyard was Indian Agent from 1856 to 1859; he reported only 700 residents prior to an 1857 addition of Yokuts from the Tule River area, which putatively raised the population to just over 1,000, although clearly for only a short time. By 1862, the tribal population is estimated at roughly 500. It is also clear that, Beale's statements notwithstanding, the reserve never proved fully self-sufficient.

Further, as a result of U.S. land claims cases started in 1852, the private titles to the land grants underlying the reserve were perfected under U.S. law later that decade. In 1864, Congress limited the number of reservations in California to four, and ordered all others terminated and the land sold. The Sebastian Indian Reserve, never having been formally established, was not one of the four, and in 1864, many Native Americans living on it were relocated to other reservations. Many Native Americans moved to a newly created reservation near Porterville; others stayed on what had become the Tejon Ranch, by then privately owned by Beale.

The selection of the Tejon area as a reserve was a joint decision by Beale and the U.S. Army Commander in California. It was initially called the Sebastian Military Reserve, named after Wouldiam K. Sebastian, chairman of the U.S. Senate Committee on Indian Affairs. The U.S. Army constructed a fort to protect Native Americans on the reserve from exploitation by Euro-Americans and prevent raiding into the greater Los Angeles Basin by "renegades" from the Tulare County and Colorado River regions. A small detachment of soldiers was quartered initially on El Paso Creek, at the then-second reserve headquarters, circa 1853-1854. Shortly thereafter, most of the troops were shifted to the top of Grapevine Canyon in what is now referred to as the "Tejon Pass." This second fort continued in use, with a brief hiatus, until the end of the Civil War. It was reoccupied during the war because of concerns about southern sympathizers in the Kernville region, and due to the outbreak of an "Indian War" in the Owens Valley region east of the Sierra Nevada. This resulted in a little known but quite tragic episode in Native American history, which connected the reserve to the larger events of the Civil War.

Tensions had begun to develop between Euro- and Native Americans in the Owens Valley by 1861. These were caused by the Euro-American in-migration and usurpation of critical Native American resources (such as seed gathering areas) and traditional village locations at springs. They were exacerbated by the unusually bitter winter of 1861-1862, which witnessed six straight weeks

of snow and rain. U.S. Army scouting expeditions were sent from Fort Tejon, and Camp Independence in the Owens Valley was established in 1862. These efforts to quell the unrest had little effect. In 1863, Capt. Moses A. McLaughlin, commander of Camp Independence, issued an order to "shoot on sight and show no mercy." He also adopted a policy of intentionally destroying cached food supplies recognizing that, by winter, the loss of reserves would cause the tribes to surrender. During May 1863, four soldiers in Company L alone destroyed 300 bushels of stored seeds in the Bishop Creek vicinity; the results were predictable though faster than expected. Through the summer, Native American bands filtered into Camp Independence to surrender, until there were over 1,000 people under the care of the Army. This group of detainees is referred to in historical accounts as Owens Valley Indians, and thus by implication the Northern Paiute. They were in fact a mixed tribal group that included Northern Paiute and Coso Shoshone, and possibly some Southern Paiute, Kawaiisu and/or Tubatulabal. The U.S. Army apparently then made the unilateral decision for their removal to the Sebastian Indian Reserve, though it lacked the resources to accommodate the detainees.

On 11 July 1863, 70 soldiers forced 998 Native Americans to march south through Owens Valley, west across the mountains, and finally to the reserve were they were kept for approximately two months. Only about 850 of the original 998 Indians completed the 225-mile trek. Partly because the reserve was not in a position to absorb the detainees, and partly due to objections from Beale who had purchased and was now claiming ownership of *Rancho El Tejon*, the group was again marched on 3 October 1863 to Fort Tejon at the top of the Grapevine, and placed under U.S. Army supervision and care. In early 1864, Capt. John Schmidt, the new commander for Fort Tejon, arrived to find the detainees in complete disarray and recommended removal of the group to the Tule Indian Reservation near Porterville. Part of the confusion and disorder evident in these U.S. Army affairs resulted from the on-going Civil War. Fort Tejon was itself abandoned in mid-August 1864, due to changing fortunes and needs with respect to the war, thus ending the sojourn of Owens Valley tribes at the reserve and Fort Tejon. It appears that the remnant detainees were simply allowed to drift back to their homes on their own recognizance or moved to the Porterville Reservation.

Following the Congressional dissolution of the reserve in 1864, the resident Native American population was successively consolidated geographically into a single location: Tejon Canyon. The traditional Native American settlement pattern, involving a nucleated village, was replaced by dispersed but small individual family homesteads or ranchos, with the occupants building adobe houses. Most of the men made the transition to the wage economy, working on the ranch as vaqueros or as agricultural field hands. In 1952, the White Wolf earthquake destroyed almost all of the adobe homes of the Native American community, and all but the Montes family moved off the ranch at that time. The settlement was abandoned in the 1960s.

Descendants of the Native American residents of the *ranchería*, many of whom continue to reside in Kern County, are known as the Tejon Indian Tribe. They received federal re-recognition in January 2012. The current tribal chair, Kathryn Montes Morgan, is a descendant Vincente and Chico, signators of the 1851 unratified treaty.

During the early historical period, and even though nearby Fort Tejon was, for a decade, a "major" population center in southern California (with 920 inhabitants, exceeded only by Los Angeles,

with 4,385, and El Monte, with 1,004), the Tejon Ranch was still geographically remote and isolated. Granted, it was traversed by the first stage route, the Butterfield Overland mail stage established in 1858, which had stops at Lake Elizabeth, Cow Springs, Fort Tejon, and the "Sinks of the Tejon" ("Los Alamitos," below the confluence of the Tejon and Chanac creeks) on the ranch. However, the stage was something of a magnet to draw outlaws: for many years the ranch was known as the "Refuge of the Bandits," and served as a haunt for Joaquin Murrieta and Tiburcio Vasquez and their gangs. Moreover, because of various economic competitions with the directors of the Southern Pacific Railroad, the rails were routed 50 miles to the east, through Antelope Valley and Tehachapi Pass, to avoid traversing Beale's land in 1876, continuing the ranch's geographical isolation from other parts of southern California. Nonetheless, the overland stage route crossed the ranch through the western Antelope Valley, skirting Quail Lake before heading to Gorman Station and then Fort Tejon. It then traveled down Grapevine Canyon to Rose Station and next to the stage stop at the Sinks of the Tejon, before heading to Bakersfield.

Initially, the economic emphasis of the Tejon Ranch was on sheep, and, at its peak, over 125,000 were grazing on the ranch. It was not until the 1880s, after a number of years of drought, that cattle were introduced (although Beale had recorded the Tejon brand–the crescent and the cross–in 1865). By 1891, there were about 25,000 head of cattle and 7,500 sheep grazing on the ranch. Following Beale's death in 1893, the ranch was inherited by his son, Truxton, who completed the transition to cattle.

Truxton Beale sold the Tejon Ranch in 1912 to a Los Angeles real estate syndicate, forming the nucleus for what has evolved into the modern Tejon Ranchcorp. The size of the ranch was increased to 281,000 acres through a series of strategic purchases. Because cattle did not immediately prove profitable, sales of various rights-of-way to public utilities initially aided the company's cash flow. More recently, the ranch operated in part by leasing acreage to various farming, oil, and cattle interests. By 1957, 70% of the land of the Tejon Ranch was operated under lease.

Today, large-scale farming, oil and gas extraction, mining, and cattle grazing continue on the ranch, overseen by the ranch headquarters at the top of Grapevine Canyon, and subject to the Tejon Ranch Conservation and Land Use Agreement signed in 2008, which preserves approximately 240,000 acres of the ranch in open space in perpetuity. The portions of the ranch in the specific plan area include large areas used for agriculture and grazing.

2.3.3 Archaeological Background

The Tehachapi Mountains/southern San Joaquin Valley region, remote from other portions of California, has received minimal archaeological attention compared to other areas of the state. In part, this is probably due to the fact that the majority of California archaeological work has concentrated in the Sacramento Delta, Santa Barbara Channel, and Mojave Desert areas. Although our knowledge of the prehistory of this region is therefore limited in specific details, enough is known to conclude that the archaeological record is broadly similar to central and especially south-central California as a whole (Rosenthal et al. 2007; Siefkin 1999). Summarizing from Whitley (2005), the general prehistory of the study area can be outlined as follows.

Initial occupation of the region occurred at least as early as the *Paleoindian Period*, or prior to about 10,000 years before the present (B.P.). Evidence of this early use of the region has been revealed by the repeated discovery of characteristic fluted and stemmed points found around the margins of Tulare and Buena Vista lakes, in the foothills of the Sierra, and in the Mojave. In each case, these are locations that are many miles distant from the study area. These finds suggest a terminal Pleistocene/early Holocene lakeshore adaptation similar to that found in other portions of the Far West at this same time, although little else is known about these earliest peoples. An additional find consisting of a Clovis-like projectile point was discovered in a flash-flood cut-bank near White Oak Lodge in 1953, northeast of the study area. More recently, a similar fluted point was found near Bakersfield, while a number are now known from the Edwards Air Force Base and Boron area of the western Mojave Desert. Thus, while it has now been well-established that human occupation of the state occurred during the Late Pleistocene, little can yet be inferred about the nature and distribution of this occupation.

Substantial evidence for human occupation of California first occurs during the middle Holocene, from roughly 7,500 to 4,000 B.P. This period is known as the *Early Horizon*, and is sometimes alternatively referred to as the Early Millingstone along the Santa Barbara Channel. In the coastal area, population concentrated along the shore, with minimal visible use of inland areas. Adaptation appears to have emphasized hard seeds and nuts, with tool-kits dominated by mullers and grindstones (*manos* and *metates*). Minimal evidence of Early Horizon occupation has been found in most inland portions of the state. In part, this is due to a severe cold and dry paleoclimatic period that occurred at this time. Evidence for an Early Horizon occupation of the inland region is limited, and primarily consists of some early dates from the west side of Buena Vista Lake, to the northwest (Rosenthal et al. 2007).

Perhaps not surprisingly, Phase II test excavations for the Tejon Mountain Village project, south of the current study area, failed to find evidence of Early Horizon occupation of the Tehachapi Mountains, although it is possible that some use of the area occurred that left no visible archaeological trace (Whitley 2005). Furthermore, the lack of evidence for Early Horizon occupations at the base of subsequent later (Middle Horizon, see below) deposits indicates that, even if there was an Early Horizon use of the area, it was culturally discontinuous with the subsequent occupants of the Tehachapis. Regardless of specifics, it is clear that overall Early Horizon population density was low in interior south-central California, and, if any kind of occupation and specialized subsistence adaptation existed, it was probably tied to plant food gathering rather than hunting.

Environmental conditions improved dramatically after about 4000 B.P., during the *Middle Horizon* (or Intermediate Period). This period is known climatically as the Holocene Maximum, and it was characterized by significantly warmer and wetter conditions than had been experienced previously (or than occur today). It was marked archaeologically by a large population increase and radiation into new environments along the south-central California coast, the southern Sierra Nevada, and the Mojave Desert (Whitley et al. 2007). In the Sacramento Delta region to the north, this same period of favorable environmental conditions was marked by the appearance of the Windmiller culture, which exhibited a high degree of ritual elaboration (especially in burial practices) and perhaps even a rudimentary mound-building tradition. Along with ritual elaboration, Middle Horizon times experienced increasing subsistence specialization, perhaps correlating with the

appearance of the acorn-processing technology. Penutian-speaking peoples (including the Yokuts) are also posited to have entered the state roughly at the beginning of this period and, perhaps, to have brought this technology with them. Likewise, the so-called "Shoshonean Wedge" in southern California, or the Takic-speaking groups that included the Gabrielino/Fernandeño, Tataviam, and Kitanemuk, appear to have moved into this region at about this time (Sutton 2009).

Evidence for Middle Horizon occupation of the Upper Santa Clara/Agua Dulce region, in Tataviam territory south of the Tehachapis, is substantial, in that it has been found at a number of sites and has been based on radiocarbon, obsidian hydration, and typological dating. The Agua Dulce village complex, located to the southeastf the study area, for example, includes occupation extending back to the Middle Horizon, at which time the population of the village may have been 50 or more people. Similarly, the inhabitation of the Hathaway Ranch region, near Lake Piru, and on Newhall Ranch, near Valencia, appears to have begun during the Middle Horizon. To the northwest, there is minimal evidence for pre-Middle Horizon occupation in the upper Sisquoc and Cuyama River drainages and on the Carrizo Plain, but population expanded very rapidly immediately thereafter (Whitley et al. 2007).

Phase II test excavations for the Tejon Mountain Village project, in the mountains south of the current project, involved a study of 33 sites. This demonstrated a substantial Middle Horizon occupation in the Tehachapis: all tested habitation sites included at least some deposit from this period, and some of the villages were only inhabited at this time (Whitley 2005). The existing evidence now suggests that a similar pattern occurred in the inland Ventura County region, as well as possibly in the Antelope Valley and western Mojave Desert, the southern Sierra Nevada, and the Coso Range region. In all of these areas, a major expansion in settlement, the establishment of large site complexes, and an increase in the range of environments exploited appear to have occurred sometime roughly around 4,000 years ago. Although most efforts to explain this expansion have focused on very local circumstances and events, this was a major Southern California-wide occurrence (Whitley et al. 2007).

The beginning of the *Late Horizon* is set variously at 1500 and 800 B.P., although a consensus seems to be growing for the shorter chronology for this time period. Regardless of specific date, the appearance of the Late Horizon correlates with another series of periodic droughts at circa A.D. 800-1200 which decimated major portions of western North America. This is known, climatically, as the Medieval Climatic Anomaly, followed by the Little Ice Age, and this general period of climatic instability extended to about A.D. 1860. In much of inland south-central California, the Carrizo Plain, and the Mojave Desert, a large-scale abandonment of sites occurred approximately at the start of this period. For the ancestral Chumash, this appears to correlate with an increase in coastal populations, suggesting a shift from inland to seashore occupation rather than a drop in total numbers of people. Along Buena Vista Lake, to the northwest of the study area, population appears to have been increasingly concentrated towards the later end of the Medieval Climatic Anomaly (Culleton 2006).

Based on the results of the Phase II testing for the Tejon Mountain Village project, however, the Late Horizon circumstances did not result in wide-spread abandonment of the Tehachapi Mountains (Whitley 2005). This area is unusually well-watered and probably was not subjected to the same degree of desiccation as occurred elsewhere in interior south-central California. Some

Middle Horizon villages were abandoned before the start of the Late Horizon, but those sites with Late Horizon occupation appear to have been more intensively occupied during the last 1,000 years, and no significant population change has yet been identified. The Tehachapis experienced intensification rather than the abandonment seen in surrounding areas during the last millennium. Regardless of regional circumstance, the ethnographic Native American tribes and conditions are recognized as a direct outgrowth of the Late Horizon occupations of this portion of south-central California.

2.4 RESEARCH DESIGN

Previous research in the south-central California region suggests some topics worthy of further research efforts. Although any given cultural resource management study, including this survey, may not be able to fully resolve these topics, due to limited scopes of work or the nature of the sites encountered and/or studied, it is nonetheless recognized that, where possible, these studies can contribute to the accumulation of the kinds of data that may help us better understand this region's prehistory.

The first and most fundamental research problem is the nature of the prehistoric settlement pattern in this portion of Kern County. Substantial previous research has been conducted in the Tehachapi Mountains proper (e.g., Whitley 2005; Whitley and Andrews 2011), along the lakeshores and sloughs in the southern San Joaquin Valley (e.g., Rosenthal et al. 2007; Siefkin 1999).

A significant prehistoric problem concerns the putative abandonment of village sites at the end of the Middle Horizon, which has been observed in a number of locations throughout south-central California. This abandonment specifically has been identified on the Carrizo Plain, to the northwest (e.g., Whitley et al. 2007), but not in the uplands of the Tehachapi Mountains (Whitley 2005; Whitley and Andrews 2011). Circumstances on the southern San Joaquin Valley floor have not been investigated. Clarification of the extent of this apparent pattern throughout the region would help to define its geographical limits and could help determine whether, at the end of the Middle Horizon, there was an overall reduction in population, or instead whether total population levels remained roughly constant while population concentrated in fewer, environmentally favorable locations.

A second potential issue concerns the initial occupation of the southernmost portion of the San Joaquin Valley. Clear evidence of Paleo-Indian occupation dating between about 12,000 and 9000 B.P. has been discovered along the lake basin margins of Tulare Lake, to the north. Whether this extended further south, away from lacustrine environments, has not yet been established.

Resolution of either research issue during a Phase I survey requires the presence of temporally diagnostic surface artifacts. Should these be present, questions to be addressed include the age of identified sites, their nature, their size, and how the settlement systems differ from time period to time period.

3.0 ARCHIVAL STUDIES

3.1 RECORDS SEARCH

In order to determine whether the 8,010-acre study area had been previously surveyed for cultural resources, and/or whether cultural resources were known to exist within it, an archival records search was conducted by ASM staff at the Southern San Joaquin Valley Information Center, housed at California State University, Bakersfield. The records search was completed to determine: (i) if prehistoric or historical archaeological sites had previously been recorded within the study areas; (ii) if the study area had been systematically surveyed by archaeologists prior to the initiation of this field study; and/or (iii) whether the region of the field project was known to contain archaeological sites and to thereby be archaeologically sensitive. Records examined included archaeological site files and maps, the National Register of Historic Places (NRHP), Historic Property Data File, California Inventory of Historic Resources, and the California Points of Historic Interest.

In addition to the Information Center records search, the vertical files and maps housed at the Beale Memorial Library's Local History Collection were also reviewed, including published and unpublished documents. Google Earth air photo images were consulted to identify existing/recent field conditions and evidence of previous use or development, with the earliest of these available images dating from 1989. Historical USGS maps were also examined to identify possible structures or features. Although the scales of these maps varied over time, the Grapevine 1958, Lebec 1945, Tecuya Creek 1942 and 1945, Grapevine Peak 1988, Tejon Ranch 1966, West of Tejon Hills 1931 and 1934, Tejon Hills 1933 and 1955, Caliente 1914, and Tejon 1903 quadrangles were all examined.

According to the Information Center records, 42 previous archaeological surveys had been conducted (Table 3.1) within a 0.5-mi. radius of the study area, documenting nine cultural resources within the specific plan study area. Twenty of the previous studies covered portions of the study area (KE-00172, -00319, -00320, -00723 -00945, -01028, -01394, -01750, -01930, -02369, -02395, -02596 -02695, -02857, -02858, -03089, -03528, -03564, -04326, and -04329). Seven of the nine previously recorded cultural resources are archaeological sites. Two California Historical Landmarks (CHL) had also been recorded within the study area: the Sebastian Indian Reserve (P-15-007674 / CHL 133), which includes two of the previously recorded sites, and Rose Station (P-15-007743 / CHL 300), which had not been previously recorded as an archaeological site. Dedicatory plaques for both CHLs have been erected near the Grapevine I-5 exit.

A Sacred Lands File Search was also conducted by the California Native American Heritage Commission (NAHC), to determine whether sacred sites were known to be within or in proximity to the study area. Based on their files, no Native American cultural resources or traditional cultural places were known to be present within the study area.

Table 3.1 Previous Studies within 0.5 Mile Radius of Study Area

IC Report # (KE -)	Date	Author(s)	Title
00172	1989	BioSystems Analysis, Inc.	Technical Report of Cultural Resources Studies for WTG-West Fiber Optic Cable
00319	1977	David Chavez	An archaeological reconnaissance of the proposed pipeline route from the Elk Hills Petroleum Reserves to the Redlands Facilities, California Phase II
00320	1978	David Chavez	Cultural Resources Evaluation for the Naval Petroleum Reserve No. 1 (Elk Hills) to Rialto Crude Oil Pipeline, Kern County, California
00353	1980	A.B. Clayton	Archaeological and historic property survey report for the proposed expansion and improvement of the Wheeler Ridge Truck Weigh Station
00361	1997	John Johnson	Ethnohistory of Mat'apxwelxwel
00633	1993	Michael Macko, Jeanne Binning, David Earle & Paul Langenwalter	National Register Eligibility Determinations for Historic Resources Along the Proposed AT&T Lightguide System, Victorville to Bakersfield
00723	1997	Judy Berryman & Karin Anderson	Subsurface Archaeological Survey Report at CA-KER-4465, Results of Backhoe Testing
00752	1982	Denise O'Connor	Archaeological Survey Report for a Proposed Truck Escape Route
00782	1994	Richard Osborne	Negative Archaeological Survey Report for Caltrans Seismic Standard Compliance of Bridge# 50-0240R
00784	1994	Richard Osborne	Negative Archaeological Survey Report for Caltrans Seismic Standard Compliance of Bridge# 50-0322
00787	1994	Richard Osborne	Negative Archaeological Survey Report for Caltrans Seismic Standard Compliance of Bridge# 50-0230
00945	1995	Ivan Strudwick, Deborah McLean & Bradley Sturm	Results of an Archaeological Windshield Survey in the Wheeler Ridge Area of the Tejon Ranch Near Grapevine, Kern County, California (Also see KE-00325)
01028	1996	Science Applications International Corporation	Cultural Resources Investigation, Pacific Pipeline Emidio Route
01394	1990	Robert Schiffman	Archaeological Investigation for the Proposed Expansion of Grapevine Commercial Facility
01501	1981	Scientific Resource Surveys, Inc.	Archaeological Survey Report on The Cummings Ranch (5120 acres) Cummings Mountain, Tehachapi Mountains, Kern County, California
01750	1991	David Van Horn	A Cultural Resources Overview of the Rancho San Emidio "New Town" Site, Kern County, California
01751	1991	David Van Horn	A Cultural Resources Study of Portions of the Rancho San Emidio "New Town" Development Site, Kern County, California
01772	1984	Edward Weil, Jill Weisbord & E.R. Blakley	Cultural resources literature search, records check and sample field survey for the California portion of the Celeron/All American Pipeline Project
01930	1988	Lawrence Weigel & Daryl Noble	Negative Archaeological Survey Report for Caltrans Truck Escape Ramp on West Side of Northbound Lanes of I-5
02011	1998	LSA Associates	Supplemental Archaeological Report: Addendum Cultural Resource Survey for Wastewater Treatment Facility Site
02077	1998	LSA Associates	Letter Report: Cultural Resources Survey of the I-5/Wheeler Ridge Road Interchange Improvements Project Area, Caltrans Right-of-Way and Tejon Ranch, Kern County, California
02117	1998	Ivan Strudwick	Cultural resources survey report for a 150 acre portion of "Laval West," West of the Laval Road/I-5 Interchange, Tejon Ranch, Kern County, California
02170	1998	LSA Associates	Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility LA 293-02, 4436½ Lebec Road, Lebec, Kern County, California
02172	1998	Don Laylander	Negative Archaeological Survey Report for Caltrans Pavement Rehabilitation and Shoulder Widening of Route 99 Between I-5 and Herring Road

IC Report # (KE -)	Date	Author(s)	Title
02369	1999	Kevin Hovey	Negative Archaeological Survey Report for Caltrans Rehabilitation of 57 On/Off Ramps on State Routes 5 and 99
02394	1999	Don Laylander, Mandy Marine, Phil Chick & Sarah Wallace	Negative Archaeological Survey Report for Caltrans Installation of 21 Traffic Surveillance Stations, Kern, Kings and Tulare Counties
02395	2000	Brian Hatoff	Cultural Resources Testing for the Pastoria Energy Facility
02538	2001	Cordelia Sutch	IT Wheeler Ridge, Kern County; PL Project Number 800-019 (Installation of gopher resistant innerducts)
02566	2001	Robert Schiffman	Archaeological Investigation for the Darling Property
02596	2001	J.A. Simon, et al.	Phase I Archaeological Survey of the Tejon Industrial Complex East Kern County, CA
02606	2002	Robert Parr	Cultural Resources Assessment for the Peter & Davida Delis Water Rights, Application #30302, Kern County, California
02695	2002	Catherine Lewis Pruett	Cultural Resources Assessment for the Griffith Company Edmonston Rock Quarry Located Approximately Five Miles East of Grapevine, Kern County, CA
02742	2001	Impact Sciences, Inc.	Notice of Preparation and Initial Study: Tejon Industrial Complex East Specific Plan
02749	2002	Cheryl Casdorph	Draft Environmental Impact Report (SCH No. 2001101133) Tejon Industrial Complex East Specific Plan Volume I and II
02857	2003	Roger Mason	Southern California Gas Company Line 85 Natural Gas Pipeline Replacement Project: Results of the Archaeological Test Program at CA-KER-6306 and CA-KER-6307
02858	2003	Jay Sander & Roger Mason	Cultural Resources Survey Southern California Gas Company Line 85 Natural Gas Pipeline Replacement Project Between Grapevine and Gorman, Kern and Los Angeles Counties, CA
03089	2005	Brian Hatoff, Byron Bass & Christine Hacking	Pastoria Energy Facility Final Cultural Resources Report (Condition of Certification CUL-13) Docket No. 99-AFC-7
03528	2006	SWCA Environmental Consultants & Cindy Arrington	Cultural Resources Final Report on Monitoring and Findings for the Qwest Network Construction Project, State of CA
03564	2008	Lisa Holm	Cultural Resources Assessment of the Salinas Energy Wine Locations Project (PL 822-43), Kern County, CA
03893	2008	John F. Romani	Archaeological Survey Report Wheeler Ridge Road from David Road South to Interstate 5 at Laval Road, Kern County, California
04326	2012	David Whitley	Phase I Archaeological Survey of 8 Rancho Grande Well Pads, Tejon Ranch, Kern County, California
04329	2011	David Whitley	Phase I Archaeological Survey of 8 Rancho Grande Well Pads, Tejon Ranch, Kern County, California

3.2 PREVIOUSLY RECORDED RESOURCES

3.2.1 Sebastian Indian Reserve Discontiguous Archaeological District (P-15-007674 - CHL 133)

Portions of the historical Sebastian Indian Reserve lie within the Grapevine specific plan study area. The reserve was designated in 1934 as California Historical Landmark #133 (Miller 1934), a designation that, at that time, did not require the identification of a specific and physical historical property. The landmark was subsequently assigned the designation P-15-7674 in the current inventory system though, again, without the specification of specific archaeological sites. Although the original designation did not have defined boundaries, the reserve villages are known to have stretched from Grapevine Creek west to Chanac Creek, and thus to have fallen partly within the specific plan study area. In order to ensure the preservation of the extant remains of the reserve, a project was completed to identify and map its existing remnants, to nominate the identified sites

as a National Register of Historic Places (NRHP) district, and to thereby protect the sites in permanent open-space. The resulting Sebastian Indian Reserve Discontiguous Archaeological District, nominated in 2013, consists of the known, extant remains of the primary Native American villages occupied from 1850 to 1875 (the district's period of significance), as well as the first reserve headquarters and mill, including the original Fort Tejon (Whitley 2013). Following the reserve's planned lay-out, these historical properties consist of a series of discrete archaeological sites in canyon mouths or along nearby streams that were historically and intentionally isolated from one another. The district was listed on the CRHR and determined eligible for NRHP listing at the State level of significance by the State Historical Resources Commission in November 2014.

The archaeological sites comprising the district, and the features and artifacts within them, represent the only physical remnants of the original reserve. These sites were identified by a combination of archival research and archeological field studies. The archival research involved an examination of primary and secondary sources, including period accounts such as published or unpublished documents, letters, maps, newspaper articles and autobiographies, and studies of the history of the reserve and the Tejon Ranch more generally. Archaeological field studies included focused, intensive site surveying at locations identified as pertinent in the archival sources, and detailed site mapping (Whitley 2013). The studies demonstrated that the Sebastian Indian Reserve included three recorded villages which fall within or immediately outside of the Grapevine specific plan study area boundaries: the Grapevine Canyon (P-15-4884/CA-KER-4465), Live Oak Canyon P-15-810/CA-KER-810), and Pastoria Canyon (P-15-2185/CA-KER-2195) villages, all of which form components of P-15-7674. The status of each is summarized below, per Whitley (2013).

Grapevine Canyon (P-15-4884/CA-KER-4465)

A Chumash village, known in that language as *Mat'apxwelxwel*, was located [redacted]. This was the westernmost of the reserve villages, and the northeasternmost extent of Chumash territory. It was called *Lapau* (or *Lapnaw*) in Yokuts and *Shevingatspea* in Kitanemuk. These names all translate as "Cottonwood Place."

Although imprecise in specific details, two 1850s sketch maps locate a village on Grapevine Creek, presumably *Mat'apxwelxwel*. Anthropologist J. P. Harrington visited the village location with elderly Chumash informants in the early 1900s, providing positive identification and descriptions of it when occupied. Harrington's most detailed geographical information, including a photograph of the original location, was obtained in 1916-1917. This indicates the village contained four components: the main residential area on the west side of Grapevine Creek and at the base of a hill where an oil pumping station had been built in 1912; an adobe occupied by Jose Sastre (a famous rain-maker) on the east side of the creek across from the main site area; an upper and smaller residential area, already destroyed at that early date, situated on the hill under the 1912 pumping station; and a cemetery located immediately west of the main village area. The main residential area was said to have seven to eight adobes, but may have also included traditional brush huts.

Grapevine Canyon is the primary north-south transport and communication route on the west coast. It currently contains the eight-lane I-5 freeway along with numerous pipeline, communication, and power transmission right-of-ways, many of which date back over a century and all of which have resulted in very significant disturbances to the canyon. As noted by Harrington circa 1916, portions of the village had already been destroyed by that time.

Nonetheless, a number of unsuccessful efforts have been made to relocate the village. Scattered/disturbed archeological remains, primarily bedrock mortar (BRM) stations, have been identified within the canyon area and have been recorded as CA-KER-4465. No identification of the village location proper had occurred, despite intensive backhoe trenching in the hopes of uncovering buried archeological deposits (Berryman and Anderson 1997).

It was possible during the survey for the NRHP nomination to identify the village location using Harrington's 1916-1917 photograph, taken when he visited the site area with informant Jose Juan Olivas. This shows the 1912 pumping station as a visible landmark near the sky-line, with the main village area (as described by Olivas) in the already then-disturbed foreground. Although the structure and equipment at the upper pump station have been replaced during the last century, the station itself is still in place. Using this as a reference combined with visible ridgeline features, it is clear that the main residential area and cemetery fell under a 1924 pump station and the southbound lanes of the I-5, while the area of Jose Sastre's adobe to the east has been graded away. This photographic interpretation is independently confirmed by notes collected by D. L. Jennings in 1979, which indicate that burials were found immediately west of the 1924 pump station in the 1940s, correlating with the described location of the cemetery, now under the I-5 freeway.

Although it was originally partly located within the designated open space area of the specific plan study area, and in part on an inholding and right-of-ways outside of Tejon Ranch, the Grapevine village has been destroyed, lacks integrity and, for that reason, was not included as a contributing property in the NRHP nomination.

Live Oak Canyon (P-15-810/CA-KER-810)

Archaeological site CA-KER-810 was recorded in 1978 at [redacted] as a prehistoric midden deposit with large concentration of BRM stations and cupules. Historical records are limited with respect to this site and in some cases contradictory, but are clear that it was one of the reserve villages. The confusions appear to stem from two sources: failure to distinguish the "first reserve headquarters" from the "second reserve headquarters" located at the "old ranch headquarters" (on upper El Paso Creek, east of the study area); and the putative residence of a reserve chief known both as Zapatero and Pablo, who was alternately said to live at three different villages (and may well have moved during the history of the reserve). Based on the archaeological record alone, it is clear that the Live Oak village was occupied during the Sebastian Indian Reserve period of significance and that (contrary to some secondary accounts) it served as the first reserve headquarters. Multiple historical accounts confirm this conclusion, one of which indicates that it was the village *Couyan*, a Kitanemuk name for a Yokuts village and cemetery. Samuel Bishop is said to have built adobes at this location before 1852, and visible evidence of these adobes was still apparent in the 1930s.

Archaeological survey and mapping of this site in 2013 (described in detail subsequently) identified the remnants of two adobe structures, house-pits, Native American and Euro-American surface artifacts, numerous BRM stations, and rocks with cupules. Temporally diagnostic surface artifacts primarily date from the 1850s to the 1860s. This site maintains archaeological integrity, and is considered a contributing property to the nominated NRHP district. It lies within the designated open space portion of the Grapevine specific plan area.

Pastoria Creek (P-15-2185/CA-KER-2185)

A limited but unambiguous amount of historical information places the village of *Tripohow* [redacted]. This village was occupied until the early 1870s and, while its specific prehistoric tribal affiliation is uncertain, it was likely multi-tribal during the existence of the reserve. It may also have been known in Chumash as *Tats'ik'oho*.

This village was recorded as CA-KER-2185 in 1987 as a large concentration of BRM stations. Archaeological survey and mapping in 2012 resulted in the identification of extensive midden deposits, two possible house-pits, numerous BRM stations, Native American and Euro-American surface artifacts, and a linear rock feature. This feature represents the remnants of a cleared *milpa*, or farm field, adjacent to Pastoria Creek.

The Pastoria village site is considered to maintain integrity and be a contributing element of the NRHP district. It is located approximately 0.5 mile (1 kilometer) south of the southeastern boundary of the Grapevine specific plan area, in permanently preserved open-space pursuant to the Tejon Ranch Conservation and Land Use Agreement.

3.2.2 Rose Station (P-15-007743/CHL 300)

Rose Station was registered in 1939 as California Historical Landmark #300 (Roof 1939). Although not previously recorded as an archaeological site, its location is indicated on topographical maps. It was established in 1856 by Juan Marmolejo as *Rancho Canoas* ('watering troughs') at the "Sinks of Grapevine Creek," with the water troughs fed by a pipe from a wooden diversion dam in the creek. It subsequently changed hands a number of times, with a post office established circa 1877. Its last owner, prior to its purchase by Tejon Ranch, was William B. Rose, the source of the name "Rose Station." Rose built a two-story adobe "public house" and restaurant in 1875 but these never proved economically viable. According to Latta (1976:48, 66), the wooden barn and tank house burned down in 1887 and the adobe was destroyed by the 1952 White Wolf earthquake, with remnants of the building then carted away. Rose Station was on the Overland Butterfield Stage route (1858-1861) between its stops at Fort Tejon and the Sinks of the Tejon, but was never a stage stop in the formal sense of the term.

The archaeological remnants of Rose Station, which are located within designated open-space, were identified and mapped during the survey for the Grapevine specific plan study area. The site is discussed in more detail subsequently.

3.3 ADDITIONAL PREVIOUSLY RECORDED ARCHAEOLOGICAL SITES

In addition to the above, five additional archaeological sites had been previously recorded with the Grapevine specific plan study area.

3.3.1 P-15-000115 (CA-KER-115)

This prehistoric site was originally recorded at an unknown date within the designated open-space portion of the specific plan area. It was reported to include a BRM, midden deposits, house-pits, tools, flakes, and a core. The records identify two loci, located about 0.3 mile (500 meters) apart. Although discussed in more detail below, this appears to represent an initial mis-mapping of site CA-KER-810, as no cultural resources are present at this mapped location.

3.3.2 P-15-009629 (CA-KER-5855)

This site was originally recorded in 1999 as a prehistoric milling complex containing six BRM stations with eight mortars total and no associated artifacts. This site straddles the northern study area boundary with approximately half of the site falling within the designated open-space portion of the specific plan area.

3.3.3 P-15-010845 (CA-KER-6306)

This prehistoric milling complex was originally recorded in 2003 and was reported to include four BRM stations with a total of 23 mortars, approximately 50 cores, several quartzite retouched flakes, one quartzite stone bowl fragment, one red quartzite scraper/knife, one gray quartzite hammerstone, and one metamorphic hammerstone. All of the quartzite cobbles found on site exhibited some evidence of battering and/or flaking. This site is within the designated open-space portion of the specific plan area.

3.3.4 P-15-010846 (CA-KER-6307)

P-15-010846 was originally recorded in 2003 as a small prehistoric milling site including four stations containing a total of three slicks, seven mortars, and four cupules, as well as an associated quartzite cobble cache located in the fissure of a granite outcrop. Many of the quartzite cobbles were noted as battered and/or flaked. This site is within the designated open-space portion of the specific plan area.

3.3.5 P-15-010847

P-15-010847 was originally recorded in 2003 as a roughly 1-mile-long historical transmission corridor consisting of 15- to 20-foot-tall telephone poles, probably representing a rural telephone line. One fragmented insulator was tentatively identified as a Hemingray-14, dating the transmission corridor to circa 1919-1950. The site was considered to be in fair to poor condition, with many of the poles cut down and almost all of the insulators missing or fragmentary. This linear feature was found to extend east from its original identification, turning south and heading up the east side of Grapevine Canyon for a short distance alongside the I-5 freeway, and is in very poor condition. This linear site lies partly within the designated open-space portion of the specific plan area, extending into the development area.

4.0 FIELD METHODS

An intensive Phase I survey/Class III inventory of the 8,010-acre Grapevine specific plan area, Tejon Ranch, Kern County, California, was conducted from June to November 2013. David S. Whitley, Ph.D., RPA, served as principal investigator and field director, assisted by Jena Rizzi, B.A., and Colin Rambo, B.A., crew chiefs, with Patrick O'Neill, M.A, Andrea Troupin, B.A., Robert Azpitarte, B.A., Stacey Escamilla, B.A., Jon Malamma, B.A., Katie Reagan, B.A., Michael Huerta, Dave Purdy, B.A., and Jessica Neal, B.A., serving as archaeological field technicians. Gloria Montes Morgan, representing the Tejon Indian Tribe, served as Native American monitor and tribal liaison for the project.

APN 241-240-09 is a small (0.23 acres) inholding within the study area located in Section 23, Township 10W, Range 19W. It is classified as an Assessor's Utility Parcel and is owned by the Pacific Telephone and Telegraph Company. It is not a part of the project and was not surveyed during the study. The project will have no impact on the existing utility structures within this parcel.

The field methods employed included intensive, on-foot examination of the ground surface for evidence of archaeological sites, in the form of artifacts, surface features (such as bedrock mortars or house pits), and archaeological indicators (e.g., organically enriched midden soil or burnt animal bone); the identification and location of any new or previously discovered sites; tabulation and recording of surface diagnostic artifacts; site photography and sketch mapping; preliminary evaluation of site integrity; and site recording or, in the case of previously recorded sites, site record updating. The California Office of Historic Preservation Instructions for Recording Historic Resources and DPR 523 forms were followed and employed for site recording.

The study area was examined by walking parallel 15- to 20-meter transects. Areas exceeding the angle of repose were covered with zigzag transects, with special attention paid to rock outcrops and overhangs that might contain preserved cultural resources. Foot- and toe-slopes of steep slopes were carefully examined for downward-moving cultural materials. Areas of dense vegetation were examined purposively and opportunistically to determine whether they contained cultural resources, using narrower transects and with particular attention paid to rodent burrow spoils piles, cut-banks, cleared edges of disturbed areas, and other spots with better ground surface visibility. Surface visibility, overall, was fair to excellent.

Newly discovered cultural resources were identified using colored surveyor pin flags, with the identified site area carefully examined by the crew walking 5-meter transects to locate additional cultural remains. A high-precision Trimble GPS unit, with sub-meter accuracy, was employed to map sites, features and boundaries. Sketch maps were drawn and/or photos taken of sites and site features, along with written descriptions, including tabulations of diagnostic artifact classes. Site records for previously recorded sites were updated with respect to two primary issues: site location; and status/integrity. The concern was to ensure these sites had been properly located (many of the earlier recorded sites were mapped without the use of a GPS), and to determine whether integrity had changed visibly since original recording. In cases where the previously mapped site locations and/or site boundaries were found to be incorrect, new site sketch maps were completed. New

maps were not made for previously recorded sites with accurate existing maps (generally resulting from relatively recent site record updates).

As discussed subsequently, at the request of the Tejon Tribe and with the concurrence of the Tejon Ranchcorp, isolated artifacts were GPS-mapped, and surface collected. They were subsequently catalogued and would be permanently curated at the Tejon Indian Tribe headquarters (Confidential Appendix C).

5.0 INVENTORY RESULTS

5.1 FIELD RESULTS

Field conditions for the survey were good to excellent. Where ground cover was present, it was typically sparse to moderate and did not significantly hinder ground surface visibility. As noted above, the study area consisted of the foothills, slopes, and ridges along the northern front of the Tehachapi Mountains, and the open flats of the southern San Joaquin Valley. This last area effectively comprises an expansive series of alluvial fans characterized by an undulating ground surface created by flood and overbank deposits. These result in sporadic boulder concentrations which are predominated by grano-diorites but also include occasional limestones, basalts, breccias, and other rock types.

Surface water within the study area is almost entirely restricted to springs and spring-fed streams in the foothills. Drainages on the open flats are generally dry, with occasional flooding. Because of the surface water limitations, it was expected that Native American villages would be restricted to the foothill zone, at least during the recent paleoclimatic regime extending back for roughly the last 1,000 years. Sites within the open flats, accordingly, were predicted to primarily be smaller special activity areas, such as plant processing stations. No good or significant sources of tool-stone have yet been identified on the Tejon Ranch (Whitley et al. 2011), and they seemed unlikely to occur in the grano-diorite and limestone dominated foothills. Quarries and lithic workshops were thought unlikely for this reason.

Consistent with these expectations, no new villages or quarries and lithic workshops were found. As is evident in the site descriptions below, the vast majority of the discovered archaeological remains consisted of BRM and BRM stations, most of which contained conical mortar holes (COs). Substantial numbers of these kinds of remains were identified, mapped and recorded. The numbers of COs and other kinds of BRMs (such as oblong or saucer mortars) identified at these resources varied from hundreds to one or a few. The difference in these numbers is significant in terms of prehistoric behavior and for purposes of archaeological resource management. Large concentrations of BRMs, especially with deep mortars, represent habitual use areas, and are often associated with other kinds of remains. One or two COs, especially minimally ground/shallow COs, reflect casual, perhaps ephemeral use areas. Recent management precedents, obtained through concurrence between the State Historic Preservation Office (SHPO), the Bureau of Land Management, the U.S. Forest Service, and the California Public Utility Commission, indicate that small, isolated BRMs are not considered significant or eligible for NRHP or CRHR listing (DeBarros and Baksh 2012; Hale 2011; Whitley and Williams 2011; Williams 2012).

Site recording was designed with this management precedent and significance determination in mind. Locations with three or more mortars located within 50 meters of each other were recorded as archaeological sites whereas those with one or two mortars have been classified as “isolated prehistoric features.” COs themselves were categorized by depth as follows: deep (>6 centimeters), moderate (3-6 centimeters), and shallow (<3 centimeters).

A total of 65 archaeological sites is present, along with 75 isolated features, resulting in 140 cultural resources. As noted above, 46 (71%) of the sites and 44 (59%) of the isolated features would be preserved in dedicated or retained open-space areas. One historical Native American village (CA-KER-810) is present within the study area, within the open-space. It very likely also includes prehistoric remains. The original location of a second historical Native American village, CA-KER-4465, was identified using historical photos and descriptions. It was destroyed by the construction of I-5 and oil pipelines and tank facilities. The only remnants of it are a series of displaced BRMs in graded areas. One previously recorded village site, CA-KER-115, does not exist at its mapped location and (based on the description in the site record) most likely represents a mismapping of CA-KER-810, which is nearby. (Note that, for this reason, CA-KER-115 is not included in the total of 65 sites above.) In addition, 14 sites contained BRM stations and other kinds of prehistoric remains, perhaps indicating use as camps. Three BRM stations are coincidentally associated with historical/ranch remains. Forty-one sites are BRM stations. Four sites are solely historical in nature, and one site has an undetermined function, age and affiliation.

Sites were given the temporary designations of TP-SITE-*x*. Note that in the following discussion, temporary numbers are not in all cases sequential. The nineteen sites in the development area are listed in Table 5.1. The 46 sites in designated open-space are in Table 5.2 (see also Confidential Appendix A, Figures A3 and A5). Site records and updates are provided in Confidential Appendix B.

Table 5.1 Archaeological Sites within Development Area

SITE ID#	DESCRIPTION
TP-SITE-04	Multi-component site: ostrich farm historical site (lacks integrity) with BRMs
TP- SITE -06	BRM station
TP- SITE -07	BRM station
TP-SITE-08	BRM station and 2 surface artifacts
TP- SITE -09	BRM station
TP- SITE -10	BRM station
TP- SITE -12	Historical oil wellhead and associated sump and brick scatter/boiler (lacks integrity)
TP-SITE-14	BRM station
TP-SITE-15	BRM station with cupules
TP-SITE-16	BRM station
TP-SITE-17	BRM station with cupules
TP-SITE-18	BRM station
TP-SITE-19	BRM station
TP-SITE-53	BRM station
TP-SITE-55	BRM station
TP-SITE-56	BRM station
TP-SITE-57	BRM station

SITE ID#	DESCRIPTION
TP-SITE-60	Cairn (unknown age/affiliation)
TP-SITE-61	BRM station

Table 5.2 Archaeological Sites within Open-Space

SITE ID#	DESCRIPTION
TP-SITE-03	BRM station
TP- SITE -05	Multicomponent site: BRM station with historical irrigation features (historical lacks integrity)
TP- SITE -11	BRM station
TP- SITE -13	BRM station (disturbed, lacks integrity)
TP-SITE-20	BRM station with cupules
TP-SITE-21	BRM station
TP-SITE-23	BRM station
TP-SITE- 24	BRM station
TP-SITE-25	Multicomponent site: BRM station with historical debris (historical lacks integrity)
TP-SITE-26	BRM station with cupules and surface artifacts
TP-SITE-27	BRM station
TP-SITE-28	BRM station
TP-SITE-29	BRM station
TP-SITE -30	BRM station
TP-SITE-31	BRM station
TP-SITE-32	BRM station with cupules
TP-SITE-33	BRM station with cupules and surface artifacts
TP-SITE-34	BRM station
TP-SITE-35	BRM station
TP-SITE-36	BRM station
TP-SITE-37	BRM station with cupules
TP-SITE-38	BRM station
TP-SITE-39	BRM station
TP-SITE-40	BRM station
TP-SITE-41	BRM station
TP-SITE-42	BRM station
TP-SITE-43	BRM station

SITE ID#	DESCRIPTION
TP-SITE-44	BRM station with cupules and surface artifact
TP-SITE-45	BRM station with cupules and surface artifacts
TP-SITE-46	BRM station
TP-SITE-47	BRM station
TP-SITE-48	BRM station
TP-SITE-49	BRM station with cupules
TP-SITE-50	Historical refuse scatter (lacks integrity)
TP-SITE- 51	Disturbed BRM station with surface artifacts (lacks integrity)
TP-SITE-52	BRM station
TP-SITE-54	BRM station
TP-SITE-58	BRM station
TP-SITE-59	BRM station
Previously Recorded Sites	
P-15-7743 / Rose Station	Historic ranch station with adobe foundations remains, CHL 300.
P-15-810/KER-810	Native American village; component of Sebastian Indian Reserve District (also recorded as CA-KER-115). Component of CHL 133.
P-15-9629 /KER-5855	BRM station
P-15-10845 / CA-KER-6306	BRM station with surface artifacts
P-15-10846 / KER-6307	BRM station with surface artifacts
P-15-0101847	Telephone Pole Corridor (not significant)
P-15-4884 / CA-KER-4465	Historic village in Grapevine Canyon (destroyed/lacks integrity) Component of CHL 133.

5.2 NEWLY RECORDED SITES

5.2.1 TP-SITE-03

This prehistoric milling complex consists of three BRM/milling stations, all on gray granite boulders. The site is situated at an average elevation of 1,305 feet (398 meters) amsl, on the open flats of the San Joaquin Valley floor. Site dimensions measure 164 feet (50 meters) north–south by 18 feet (5.5 meters) east–west. Vegetation consists of cheatgrass, small patches of vinegar weed and doveweed, and Russian thistle. Site soils are light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 has two slicks and two shallow COs. BRM #2 has one moderate CO. BRM #3 has four deep, one moderate, and one shallow COs. It also includes two partly buried mortar holes. No surface artifacts were observed on the site and archaeological deposit depth (if any) is unknown. This site is in good condition and is located in the open-space area.

5.2.2 TP-SITE-04

TP-SITE-04 is a multi-component site consisting of a prehistoric BRM station and the remains of the historic Tejon Ranch ostrich farm complex. According to Bailey (1957:74-75), the ostrich farm encompassed 160 acres within the ranch. It was in operation from about 1907 until 1924 and had almost 200 birds, used for their plumage. This site is located on the open flats of the San Joaquin Valley floor, at an average elevation of 1,330 feet (405 meters) amsl. Site dimensions are 312 feet (95 meters) northwest–southeast by 558 feet (170 meters) northeast–southwest, totaling an area of 174,096 square feet (16,150 square meters). Vegetation consists of cheatgrass, vinegar weed, doveweed, and numerous introduced trees (palm, eucalyptus, and tamarisk), which were likely planted during the operation of the farm. The site soil is light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

The prehistoric component of this site consists of a single BRM station containing two shallow COs, situated on a large gray granite boulder.

While the ostrich farm complex and its structures have been demolished, concrete foundations and other remnants are present. Feature 1 (F1) is the remains of a wooden corral/pen, indicated by intermittent wooden fence posts, measuring 65 feet (20 meters) by 55 feet (17 meters). F2 is a concrete garage or shed foundation that appears to be sectioned into three rooms. It measures 14 feet (4 meters) by 9 feet (3 meters). A 20-foot- (6-meter-) long and approximately 1-foot- (30-centimeter-) tall concrete wall (F4) is located a few feet east of F2. F3 is the concrete foundation/footing of another demolished structure. It measures 34.5 feet (10.5 meters) by 15 feet (5 meters). A wooden utility pole is still standing at the northwest corner of F3.

The site also contains two low-density historical surface artifact scatters. Concentration 1 (C1) measures 59 feet (18 meters) northwest–southeast by 36 feet (11 meters) northeast–southwest. It is located near the south–central portion of the site and includes multiple fragments of crazed, white earthenware; numerous aqua, green, brown and frosted bottle glass fragments; an intact, plated metal spoon with a marking that reads “OLASHAR”; and an intact colorless medicine bottle with two seam lines. C2 is situated at the far western end of the site. It measures 31 feet (9.5 meters) northwest–southeast by 39 feet (12 meters) northeast–southwest and consists of bricks, miscellaneous glass fragments, bottle caps, tobacco tin fragments, and a Bell jar internal friction lid. Beyond the concentrated artifacts, there is a highly dispersed scatter of milled lumber fragments, metal machine parts, metal fasteners, barbed wire, piping, and metal slag throughout the northern half of the site.

While the BRMs are in good condition, the historical ostrich farm complex has been demolished and lacks integrity. Depth of a subsurface deposit associated with the BRMs, if any, is currently unknown. The site is within the development area.

5.2.3 TP-SITE-05

TP-SITE-05 is a multi-component site consisting of two historical features and nearby BRM stations. It is situated within/adjacent to an unnamed drainage on the open flats of the San Joaquin Valley at 1,460 feet (445 meters) amsl. Dimensions are 141 feet (43 meters) north–southwest by 102 feet (31 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite,

quartz, and limestone cobbles. Vegetation includes dispersed saltbushes, chaparral broom, vinegar weed, doveweed, and a medium cover of cheatgrass and non-native annual grasses.

The cultural assemblage consists of two historic irrigation features and two prehistoric BRMs. Historic Feature 1 is a 32-foot (10-meter) metal irrigation pipe laying at a vertical angle within the drainage. The pipe is located 13 feet (4 meters) northeast of a bedrock mortar and 98 feet (30 meters) southwest of Feature 2, a fragmented conduit/aqueduct structure (16 feet in length) made of cement and local boulders. The midsection of the conduit is missing, but two portions of this construction are present on the east and west banks of the drainage.

The prehistoric component consists of two BRMs with two mortars total. BRM #1 consists of one granite boulder with one moderate CO, lying 46 feet (14 meters) southwest of BRM #2, which is a small granite boulder with one shallow CO.

The historic component is in poor condition and lacks integrity. The prehistoric component is in good condition. Depth of subsurface deposit, if any, is unknown but seems unlikely, given the geomorphological context of the site. The site is located in the open-space area.

5.2.4 TP-SITE-06

TP-SITE-06 is a prehistoric site consisting of three BRM stations. It is on the open flats of the San Joaquin Valley, 105 feet (32 meters) north of an intermittent drainage, at 1,447 feet (441 meters) amsl. Dimensions are 209 feet (64 meters) northeast–southwest by 69 feet (21 meters) northwest–southeast. Soil on site is light brown alluvial sandy silt with dispersed granite, quartz, and limestone rocks. Vegetation includes a moderate cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed.

The BRMs are situated along the west side of an east–south-trending drainage. BRM #1 and BRM #3 each have one deep CO. BRM #2 has one shallow CO on a small granite boulder. Depth if any is unknown. The site is in good condition. It is within the development area.

5.2.5 TP-SITE-07

TP-SITE-07 is a prehistoric site consisting of two BRM stations with a total of five mortars. The site is on the open flats of the San Joaquin Valley, 262 feet (80 meters) north of an intermittent drainage, at 1,440 feet (439 meters) amsl. Dimensions are 174 feet (53 meters) northeast–southwest by 43 feet (13 meters) east–west. Soil on site is light brown alluvial silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a moderate cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed, doveweed, saltbush, and chaparral broom.

The cultural assemblage consists of two BRMs spaced 154 feet (47 meters) apart. BRM #1 contains three moderately deep COs on the surface of a large basalt boulder. BRM #2 has two shallow COs on a large granite boulder. The site is in good condition. Depth if any is unknown. It is within the development area.

5.2.6 TP-SITE-08

TP-SITE-08 is a prehistoric site consisting of two surface artifacts and 10 BRM stations. It is situated on the open flats of the San Joaquin Valley, north of an intermittent drainage, at 1,417 feet (432 meters) amsl. Dimensions are 315 feet (96 meters) north–south by 210 feet (64 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed.

The two surface artifacts were found lying next to one another near an animal burrow. Artifact 1 is a fragmented portable schist mortar bowl. Artifact 2 is a quartzite core. Both artifacts were collected and are curated by the Tejon Indian Tribe. The site contains 10 BRMs on granite, basalt, and limestone boulders, with a total of 19 mortars varying in sizes and depths. There are a total of nine shallow COs, three moderate COs, and seven deep COs. Site depth is unknown but a subsurface deposit is possible, given the location of the artifacts. The site is in fair condition, with heavy ground squirrel and pocket gopher bioturbation present in the area. The site is within the development area.

5.2.7 TP-SITE-09

TP-SITE-09 is a prehistoric site consisting of six BRM stations with a total of 12 mortars. It is situated on the open flats of the San Joaquin Valley, north of an intermittent drainage, at 1,417 feet (432 meters) amsl. Dimensions are 276 feet (84 meters) northwest–southeast by 102 feet (31 meters) southwest–northeast. Vegetation includes a medium cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed. Soil is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks.

The cultural assemblage includes six BRMs with a total of 12 mortars. BRM #1 is a single granite boulder with three moderate and two shallow COs. BRM #2 contains one moderate oval mortar located within the natural fissure of the granite boulder. BRM #3 is located directly west of a pipeline and contains one shallow CO. BRM #4 is on a granite boulder with one shallow CO on the eastern tip of the boulder. BRM #5 contains three shallow mortars of varying shapes on one large flat granite boulder. BRM #6 contains one shallow CO. The site is in good condition. Depth if any is unknown. The site is within the development area.

5.2.8 TP-SITE-10

TP-SITE-10 is a small prehistoric milling complex containing three BRM stations. The site is located on the open flats of the San Joaquin Valley floor, approximately 1,082 feet (330 meters) east of Grapevine Creek, at an elevation of 1,457 feet (444 meters) amsl. Site boundaries measure 51 feet (15.5 meters) northeast–southwest by 6.5 feet (2 meters) northwest–southeast. Vegetation consists of short cheatgrass and very sparse patches of vinegar weed. Site soils are light brown alluvial silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 consists of three boulders: Boulder 1 has one shallow CO; Boulder 2 contains two moderate COs on a comparatively larger gray granitic boulder; Boulder 3 consists of one deep CO on a small conglomerate boulder. BRM #2 is a single deep CO on a small gray granitic boulder. BRM#3 has one shallow CO on a small gray granite boulder. No surface artifacts were observed.

The site is in good condition and depth, if any, is unknown. The site is within the development area.

5.2.9 TP-SITE-11

TP-SITE-11 is a prehistoric milling site that consists of four BRM stations with a total of nine mortars and one grinding slick. The site is situated approximately 262 feet (80 meters) east of Grapevine Creek, on the open flats of the San Joaquin Valley, on the east bank of an unnamed drainage at 1,302 feet (397 meters) amsl. The site dimensions are 1,018 feet (33 meters) northeast–southwest by 20 feet (6 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone. Vegetation includes short cheatgrass and small patches of vinegar weed.

The cultural assemblage at TP-SITE-11 consists of four BRMs. BRM #1 has five COs and one slick on three small granite boulders: Boulder 1 has one slick and one moderate CO; Boulder 2 has one deep partially buried CO; Boulder 3 has one deep and two shallow COs. BRM #2 has one moderate and one shallow CO. BRM #3 has one moderate CO, and BRM #4 has one shallow CO. The site is in good condition and depth (if any) is unknown. The site is located in the open-space area.

5.2.10 TP-SITE-12

TP-SITE-12 is a historical oil extraction site, located on the open flats of the San Joaquin Valley at 1,283 feet (391 meters) amsl. The site is immediately east of the I-5 freeway. A dirt road paralleling the freeway has graded through an original drilling sump location, with the wellhead to the east, and brick scatter further east. Site dimensions are 66 feet (20 meters) north–south by 181 feet (55 meters) east–west. Soil on site is light brown alluvial sandy silt. Vegetation includes a moderate cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed.

The cultural assemblage includes a graded pad with a capped wellhead, bulldozed sump remnants, metal machine parts, metal fasteners, including variously sized nuts, bolts, nails, screws, and red and tan firebricks, representing the remains of a boiler/heater. One red firebrick includes a manufacturer's mark that reads "DOUGLASS / EXCELSIOR". This mark was used by the Douglass Clay Products Company between 1891 and 1897. A second firebrick is impressed with "CARNEGIE". This mark was used between 1902 and 1911 by the Carnegie Brick and Pottery Company. These dates suggest that the site dates to the early twentieth century. The site is in poor condition, and lacks integrity, as the original oil equipment has been demolished/removed. There is no potential for subsurface remains given the nature and condition of the site. It lacks research value and the site is not significant. It is within the development area.

5.2.11 TP-SITE-13

This disturbed prehistoric site consists of two BRM/milling stations within a concentration of gray granite boulders which were displaced by the construction of hotel and gas station parking lots within the Grapevine commercial complex. The site is on the open flats of the San Joaquin Valley, at an elevation of 1,542 feet (470 meters) amsl. Site dimensions measure 20 feet (6 meters) north–south by 59 feet (18 meters) east–west. Vegetation consists of cheatgrass with small patches of

vinegar weed. Site soil is light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 contains a milling slick and a single CO, and BRM #2 consists of a single CO. Both COs are moderate depth. The BRMs are located approximately 41 feet (12.5 meters) apart. This site lacks integrity of location and, for that reason, is not considered significant or unique. It is located in the open-space area.

5.2.12 TP-SITE-14

TP-SITE-14 is a prehistoric site consisting of one isolated BRM station with a total of 11 mortars. It is located west of the I-5 on the open flats of the San Joaquin Valley at 1,335 feet (407 meters) amsl. The site dimensions are 36 feet (11 meters) north–south by 36 feet (11 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a low cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed.

The cultural assemblage consists of one BRM with 11 conical mortars of varying sizes and depths on a ground-surface level, bluish-gray conglomerate boulder. The BRM station has five deep and six shallow COs. It is in good condition. Depth if any is unknown. It is within the development area.

5.2.13 TP-SITE-15

TP-SITE-15 is a prehistoric site consisting of one cupule boulder with associated BRMs. It lies west of the I-5 within the open flats of the San Joaquin Valley at 1,430 feet (436 meters) amsl, and is 197 feet (60 meters) west of a dirt road, and 141 feet (43 meters) northeast of a large visible and distinctive boulder. The site dimensions are 33 feet (10 meters) north–south by 33 feet (10 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed.

The TP-SITE-15 cultural assemblage consists of one large grayish-green crescent-shaped boulder with all visible surface covered by cupules and mortars. There are at least seven deep COs that follow the top ridge of the boulder, and cupules cover its sloping sides. The boulder is partially buried with cupules continuing underground. A purple cryptocrystallate silica (CCS) secondary flake was found adjacent to the boulder. The site is in fair condition, with natural fractures on the boulder’s surface. Depth if any is unknown. It is within the development area.

5.2.14 TP-SITE-16

This prehistoric site is comprised of three BRM stations. The site is situated at 1,499 feet (457 meters) amsl on the open flats of the San Joaquin Valley floor, west of the I-5 corridor, and adjacent to a dirt road. Site dimensions are 92 feet (28 meters) north–south by 20 feet (6 meters) east–west. Vegetation includes short cheatgrass and very sparse patches of vinegar weed. The site soil is light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 is a pinkish granite boulder with two shallow COs. BRM #2 consists of two (possibly three) shallow COs on a small gray granitic surface-level boulder. BRM #3 is a small gray granitic surface-level boulder with three shallow COs. No associated surface artifacts were observed at the site. The site is in good condition and depth if any is unknown. It is within the development area.

5.2.15 TP-SITE-17

TP-SITE-17 is a prehistoric site consisting of a cupule boulder with associated BRMs. It lies west of the I-5 corridor within the open flats of the San Joaquin Valley at 1,453 feet (443 meters) amsl, and is 285 feet (87 meters) east of a dirt road, and 141 feet (43 meters) northeast of a large visible and distinctive boulder. The site dimensions are 30 feet (9 meters) north–south by 30 feet (9 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed.

The TP-SITE-17 cultural assemblage consists of a large granite boulder with numerous cupules and mortars. There are a series of deep COs that follow the top ridge of the boulder, and cupules on its eastern, vertical face. The site is in fair condition. Depth if any is unknown. It is within the development area.

5.2.16 TP-SITE-18

This prehistoric site is a BRM station with cupules. It is on the open flats of the San Joaquin Valley floor at an elevation of 1,516 feet (462 meters) amsl. Site dimensions measure 26 feet (8 meters) north–south by 26 feet (8 meters) east–west. Vegetation consists of cheatgrass and sparse patches of vinegar weed. The site soil is light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

The site consists of a single BRM station with cupules, with two deep COs and approximately 23 more mortars and/or cupules on a single boulder. Because the distribution of COs and cupules is continuous across the sloping boulder surface, it is difficult to differentiate mortars from cupules, although ground cups on a vertical boulder side are clearly the latter. No artifacts were observed at the site. The site is in good condition. Depth if any is currently unknown. It is within the development area.

5.2.17 TP-SITE-19

TP-SITE-19 is a prehistoric site consisting of two BRM stations, located roughly 33 meters apart. They are situated at 1,575 feet (480 meters) amsl on the open flats of the San Joaquin Valley floor, west of the I-5 corridor. Site dimensions measure 118 feet (36 meters) north–south by 20 feet (6 meters) east–west. Vegetation includes short cheatgrass and very sparse patches of vinegar weed. The site soil is light brown alluvial sandy silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 is a gray granite boulder with two moderate COs and BRM #2 is a blue conglomerate boulder with two shallow COs. No artifacts were observed on the surface. The site is in good condition and depth if any is unknown. It is within the development area.

5.2.18 TP-SITE-20

TP-SITE-20 is a prehistoric site consisting of two BRM stations. It is located on a small ridge within the northern foothills of the Tehachapis at 1,634 feet (498 meters) amsl, 98 feet (30 meters) southeast of an intermittent drainage. The site dimensions are 78 feet (24 meters) northwest–southeast by 56 feet (17 meters) east–west. Soil on site is light brown silty colluvium. Vegetation includes oak trees, sunflowers, sticky madia, doveweed, vinegar weed, and a moderate cover of non-native annual grasses and cheatgrass.

The cultural assemblage at TP-SITE-20 consists of two BRM stations with a total of five mortars. A large unmodified granite boulder lies intermediate to BRM #1, to the southeast, and BRM #2, to the northwest. BRM #1 is a small gray granite boulder with two small shallow COs. BRM #2 has two deep COs at the center, and one shallow CO on a far corner of the granite boulder. TP-SITE-20 is in fair condition with minimal impacts from natural weathering/erosion. Depth is unknown but a subsurface deposit is unlikely, given site location on a ridge. The site is located in the open-space area.

5.2.19 TP-SITE-21

TP-SITE-21 is a prehistoric site consisting of two BRM stations. It is on the toeslope of the northern foothills of the Tehachapi Mountains at 1,752 feet (534 meters) amsl. The site dimensions are 75 feet (23 meters) northeast–southwest by 30 feet (9 meters) east–west. Soil on site is light brown silty colluvium. Vegetation includes dispersed sunflowers, doveweed, vinegar weed, and a variety of brushes and weeds as well as a moderate cover of non-native annual grasses and cheatgrass.

The cultural assemblage consists of two BRMs with a total of three COs. BRM #1 is a large surface-level granite boulder located on the southeast side of a drainage with two moderate COs. The mortars are partially buried by soil. BRM #2 is located 66 feet (20 meters) north of BRM #1 and has one shallow CO on a small fragmented granite boulder. The site is in good condition. Depth is unknown, but the BRMs are partly buried by colluvium. The site is located in the open-space area.

5.2.20 TP-SITE-23

TP-SITE-23 is a prehistoric site consisting of three BRM stations. It is located on a flat ridge within the northern foothills of the Tehachapi Mountains at 1,821 feet (555 meters) amsl. Site dimensions are 131 feet (40 meters) northwest–southeast by 75 feet (23 meters) east–west. Soil on site is light brown silty colluvium. Vegetation includes doveweed, vinegar weed, sunflowers, and a medium to low cover of cheatgrass and non-native annual grasses.

The cultural assemblage consists of three BRMs with a total of three mortars. A large granite boulder is located in the middle of the site with the BRMs lying to the northwest, east, and southeast. Both BRM #1 and BRM #2 have one moderate CO. BRM #3 has one shallow saucer mortar. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.21 TP-SITE-24

TP-SITE-24 is a prehistoric site consisting of one BRM station and one grinding slick. It is located on a ridge within the northern foothills of the Tehachapi Mountains at 2,041 feet (62 meters) amsl. The site dimensions are 66 feet (20 meters) east–west by 36 feet (11 m) north–south. Soil observed on site is light brown silty colluvium with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a moderate cover of non-native annual grasses and cheatgrass, with dispersed doveweed, sunflowers, and vinegar weed.

The cultural assemblage consists of one BRM station and one grinding slick. The BRM station has four moderately deep COs on one small granite boulder. The isolated slick is located on a separate granite boulder, 30 feet (9 meters) northwest of the BRM station. The site is in good condition. Depth if any is unknown but unlikely, given site location. The site is located in the open-space area.

5.2.22 TP-SITE-25

This multi-component site consists of a prehistoric milling station and a dismantled historical water irrigation feature. It is located in the Tehachapi foothills, west of and adjacent to an unnamed drainage west of I-5, at an average elevation of 2,005 feet (611 meters) amsl. Site dimensions measure 197 feet (60 meters) northwest–southeast by 82 feet (25 meters) northeast–southwest. Vegetation consists of vinegar weed, doveweed, fiddleneck, live oak, saltbush, jimsonweed, Russian thistle, cheatgrass, and other non-native annual grasses. Site soils are light brown silty colluvium.

The prehistoric component consists of a single BRM station with two conical mortars on a single outcrop. South and west of the BRM are the remains of a dismantled historic irrigation feature consisting of metal piping and a small holding tank. A metal sign “MAX GUNDLACH / BAKERSFIELD” is in the drainage at the southwestern end of the site. The prehistoric component of the site is in good condition and its depth, if any, is unknown. The historical component lacks integrity. The site is located in the open-space area.

5.2.23 TP-SITE-26

This moderately sized prehistoric milling complex is located on the northern front of the Tehachapis, between Grapevine and Live Oak canyons, at an average elevation of 1,857 feet (566 meters) amsl. Site dimensions measure 75 feet (23 meters) northwest–southeast by 233 feet (71 meters) northeast–southwest. Vegetation consists of vinegar weed, doveweed, fiddleneck, live oak, poison oak, saltbush, coyote brush/chaparral broom, gooseberry trees, buckeye trees, jimsonweed, Russian thistle, cheatgrass, and other non-native annual grasses. The site soil is light brown sandy silty colluvium.

The cultural assemblage consists of 10 BRM stations, cupules, and debitage. All of the BRMs are on gray granite outcrops. BRM #1, the largest feature at the site, has approximately 30 COs of varying depths, including shallow, moderate, and deep COs, along with a possible grinding slick. This station includes a separate granite boulder with seven cupules. BRM #2 contains six shallow COs. BRM #s 3, 4, 5, 7, 8, and 9 each consist of a single shallow CO. BRM #6 has one deep CO, and BRM #10 has a single oval mortar. Debitage, consisting of a low density of quartzite primary

and secondary flakes, was also observed. The site is in good condition. Depth if any is currently unknown. The site is located in the open-space area.

5.2.24 TP-SITE-27

TP-SITE-27 is a prehistoric BRM/milling complex located on an intermediate ridge slope overlooking a drainage to the west, in the northern front of the Tehachapis at an average elevation of 1,998 feet (609 meters) amsl. Site dimensions measure 171 feet (52 meters) north–south by 236 feet (72 meters) east–west. Vegetation consists of vinegar weed, doveweed, fiddleneck, live oak, poison oak, coyote brush/chaparral broom, gooseberry trees, buckeye trees, jimsonweed, Russian thistle, cheatgrass, and other non-native annual grasses. The site soil is a light brown sandy silty colluvium.

This site occurs within a large gray granite outcrop/boulder pile measuring roughly 112 feet (34 meters) by 174 feet (53 meters). The outcrop/boulder pile contains six COs, two of which are deep, and one grinding slick. Three additional BRM stations are located on granite boulders northwest and southeast of the main boulder pile. BRM #1 contains a moderate depth saucer mortar, BRM #2 is a moderate CO, and BRM #3 consists of two shallow COs. No artifacts were observed on site. The site is in good condition. Depth if any is unknown. The site is located in the designated open-space area.

2.2.25 TP-SITE-28

TP-SITE-28 is a prehistoric site consisting of two BRM stations. It is located within the northern foothills of the Tehachapi Mountains, 98 feet (30 meters) west of a main dirt road and 31 feet (10 meters) east of an unnamed drainage, at 1,545 feet (471 meters) amsl. The site dimensions are 144 feet (44 meters) northeast–southwest by 33 feet (10 meters) east–west. Soil on site is light brown sandy silty colluvium. Vegetation includes a medium cover of annual non-native grasses, cheatgrass, doveweed, and dispersed live oaks and coyote brush/chaparral broom.

The cultural assemblage consists of two BRMs with a total of six mortars. BRM #1 is composed of two granite boulders with five mortars in total; Boulder 1 has one moderate CO and one shallow CO, and Boulder 2 has one moderate CO and two shallow COs. BRM #2 is located 141 feet (43 meters) southwest of BRM #1 and contains one shallow saucer mortar. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.26 TP-SITE-29

TP-SITE-29 is a prehistoric site consisting of two BRM stations. It is located in the northern foothills of the Tehachapi Mountains at 1,562 feet (476 meters) amsl. The site dimensions are 171 feet (52 meters) east–west by 26 feet (8 meters) north–south. Soil on site is light brown alluvial silt with dispersed granite boulders, basalt, quartz, and limestone rocks. Vegetation includes a moderate cover of cheatgrass and non-native annual grasses.

The cultural assemblage of TP-SITE-29 consists of two BRMs with a total of three mortars. BRM #1 has two granite boulders that are lying directly next to each other with two total mortars; Boulder 1 has one moderate partially buried CO, and Boulder 2 is a small granite boulder with one shallow CO. BRM #2 is situated between two unnamed drainages, comprising one granite boulder

with one small shallow CO located at the center. The site is in good condition and is minimally impacted by natural weathering/erosion and ground squirrel bioturbation. Depth if any is unknown. The site is located in the open-space area.

5.2.27 TP-SITE-30

TP-SITE-30 is a prehistoric site that consists of three BRM stations. It is located on the west side of an unnamed drainage within the northern foothills of the Tehachapi Mountains at 1,499 feet (457 meters) amsl. The site dimensions are 66 feet (20 meters) north–south by 26 feet (8 meters) east–west. Soil on site is light brown sandy silty colluvium. Vegetation includes a moderate cover of cheatgrass and non-native annual grasses.

The cultural assemblage consists of three BRM stations with a total of five mortars. BRM #1 contains two separate granite boulders with one shallow CO each. BRM #2 lies directly north of BRM #1, and has one granite boulder with one shallow CO. BRM #3 has one granite boulder with two shallow COs. The site is in good condition. Depth is unknown, but unlikely given the site location within a drainage. The site is located in the open-space area.

5.2.28 TP-SITE-31

TP-SITE-31 is a prehistoric site consisting of two BRM stations. It is on the west side of an unnamed drainage on a north-facing slope in the northern foothills of the Tehachapi Mountains at 1,467 feet (447 meters) amsl. The site dimensions are 66 feet (20 meters) northeast–southwest by 26 feet (8 meters) east–west. Soil on site is light brown sandy silty colluvium. Vegetation includes a moderate cover of cheatgrass and non-native annual grasses.

The cultural assemblage consists of two BRM stations with a total of 11 mortars. BRM #1 has three separate granite boulders, each less than 3 feet (1 meter) apart, with a total of 10 mortars of varying sizes and depths. Boulder 1 has four deep and three shallow COs. Boulder 2 has one deep and one moderate CO. Boulder 3 has one moderate CO. BRM #2 is a single granite boulder with one shallow CO. The site is in good condition. Depth is unknown but, given the site's geomorphological location, unlikely. The site is located in the open-space area.

5.2.29 TP-SITE-32

TP-SITE-32 is a prehistoric site consisting of four BRM stations and one boulder with cupules and mortars. It is on the east and west side of a drainage located 174 feet (53 meters) west of a dirt road, at the toeslope of the northern foothills of the Tehachapi Mountains, at 1,427 feet (435 meters) amsl. The site dimensions are 292 feet (89 meters) northeast–southwest by 118 feet (36 meters) northwest–southeast. Soil is light brown colluvial sandy silt. Vegetation includes dispersed weeds and a moderate cover of cheatgrass and annual non-native grasses.

The cultural assemblage consists of four BRMs with a total of four mortars, and one granite boulder with cupules and five associated mortars (Cupule/BRM #1). BRM #1 has one granite boulder with one shallow and one moderate CO. This boulder appears to have been moved from its original location, probably due to drainage flooding. Both BRM #2 and BRM #3 consist of one granite boulder with one shallow CO each. Cupule/BRM #1 consists of three moderate COs, two shallow COs, and multiple cupules located along the ridge of the boulder. BRM #4 is 30 feet (9

meters) southeast of the cupule boulder and contains five deep and eight shallow COs. The deepest mortar within BRM #4 measures 16 centimeters in depth and 20 centimeters in width. The site is in fair condition with some flooding disturbance. Depth is unknown but unlikely given its position within a drainage. The site is located in the open-space area.

5.2.30 TP-SITE-33

TP-SITE-33 is a prehistoric site consisting of 21 BRM stations. It is located 207 feet (63 meters) east of an unnamed north–south-trending drainage within the northern foothills of the Tehachapi Mountains at 1,696-1,732 feet (517-528 meters) amsl. The site dimensions are 282 feet (86 meters) north–south by 312 feet (95 meters) east–west. Soil on site is light brown sandy silty colluvium. Vegetation includes dispersed vinegar weed, doveweed, sunflowers, sticky madia, and a moderate cover of non-native annual grasses and cheatgrass.

The cultural assemblage consists of 21 BRM stations, one large gray granite cupule boulder, two slicks and three surface artifacts. The BRMs include over 100 individual mortars: approximately 80% are shallow, about 15% are deep, and about 5% are moderate COs.

Cupule Boulder 1 is a large granite boulder with one horizontal line of cupules across the center/vertical side of the boulder and continuing to the far eastern side. A dense concentration of about 50 cupules is located on the lower southeast section of the boulder and another, more dispersed, concentration of cupules are located on the northeastern surface. Two shallow COs are on top of the boulder, and a few more COs are directly below the farthest east lines of cupules.

Surface Artifact 1 is a small granite grinding stone. Artifact 2 is a primary quartzite flake. Artifact 3 is a white cryptocrystalline silicate (CCS) biface thinning flake. These artifacts were collected and are curated by the Tejon Indian Tribe. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.31 TP-SITE-34

This moderately sized prehistoric milling contains 10 BRM stations. These are on either side of an approximately north–south-trending, unnamed spring, on the northern front of the Tehachapi Mountains near the mid-elevation of the range, at an average elevation of 1,614 feet (492 meters) amsl. Site dimensions are 404 feet (123 meters) northwest–southeast by 131 feet (40 m) northeast–southwest. Vegetation includes cheatgrass, saltbush, matchweed, fiddleneck, vinegar weed, Russian thistle, doveweed, live oak, and coyote brush/chaparral broom. Site soils are light brown sandy silty colluvium.

The cultural assemblage consists of 10 BRMs. BRM #1 contains a single moderate CO. BRM #2 has two boulders containing seven total COs; two are deep, three moderate, and two shallow. BRM #3 is a single boulder with two shallow COs. Both BRM #4 and BRM #5 are single boulders, each with one shallow CO. BRM #6 contains two boulders with a total of 13 COs; Boulder 1 has seven moderate and three shallow COs, and Boulder 2 has three shallow COs. BRM #7 contains one moderate CO. BRM #8 and BRM #9 each have one shallow CO. BRM #10 is a single boulder with three shallow and two moderate COs. No artifacts were observed on the surface. The site is

in good condition and depth, if any, is unknown but unlikely, given site location within a drainage. The site is located in the open-space area.

5.2.32 TP-SITE-35

TP-SITE-35 is a prehistoric site consisting of two BRM stations. It is located 131 feet (40 meters) west of an unnamed drainage/spring and 115 feet (35 meters) east of a dirt road at the toeslope of the northern foothills of the Tehachapi Mountains, at 1,535 feet (468 meters) amsl. The site dimensions are 98 feet (30 meters) northwest–southeast by 20 feet (6 meters) east–west. Soil on site is light brown colluvial sandy silt. Vegetation includes a low to medium cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed.

The cultural assemblage consists of two BRM stations with a total of 11 mortars and one grinding slick. BRM #1 contains one large granite boulder with 10 small shallow COs and the slick. BRM #2 is a surface-level granite boulder with one partially buried deep CO. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.33 TP-SITE-36

TP-SITE-36 is a prehistoric site consisting of three BRM stations. It is in an unnamed drainage 656 feet (200 meters) northwest of a spring, in the northern foothills of the Tehachapi Mountains at 1,480-1,492 feet (451-455 meters) amsl. The site dimensions are 141 feet (43 meters) northeast–southwest by 69 feet (21 meters) northwest–southeast. Soil on site is light brown to gray colluvial sandy silt. Vegetation includes a low to medium cover of non-native annual grasses, cheatgrass, jimsonweed, vinegar weed, and doveweed.

The cultural assemblage consists of three BRM stations with a total of eight COs. BRM #1 is a large flat granite boulder with one moderate and two shallow COs. BRM #2 consists of two separate granite boulders located along the east side of the drainage within a larger granite boulder outcrop. Boulder 1 has one deep CO; Boulder 2 is located 10 feet (3 meters) south of Boulder 1 and also contains one deep CO. BRM #3 is also located along the east side of the drainage and has two deep and one small shallow CO. The site is in good condition. Depth is unknown but unlikely given its location in a drainage. The site is located in the open-space area.

5.2.34 TP-SITE-37

TP-SITE-37 is a prehistoric site consisting of five BRM stations and one cupule boulder. It is 66 feet (20 meters) west of a dirt road and 207 feet (63 meters) north–northwest of an unnamed drainage, on a northern toeslope of the Tehachapi Mountains at 1,490 feet (454 meters) amsl. The site dimensions are 164 feet (50 meters) northeast–southwest by 36 feet (11 meters) north–south. Soil on site is light brown colluvial sandy silt. Vegetation includes a low to medium cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed.

The cultural assemblage consists of five BRM stations and one cupule boulder. The BRMs contain a total of 61 mortars, three slicks, and a few dispersed cupules. BRM #1 has a total of 30 mortars with 11 moderate and 19 shallow COs. BRM #2 consists of three boulders. Boulder 1 has 15 medium and shallow COs, and a number of cupules located on the upper/northeastern section of the granite boulder. Boulder 1 also has three grinding slicks on its eastern and western sides. The

surface of Boulder 2 is heavily fissured/cracked due to natural erosion and weathering. Boulder 2 has 11 deep and three shallow COs, and a single cupule, all located on its eastern side. Boulder 3 is a small surface-level granite boulder located east of Boulder 1. It has three small shallow COs. BRM #3 is located 69 feet (21 meters) southwest of BRM #2 and consists of one small shallow CO on a granite boulder that has been broken in half by natural weathering.

Cupule Boulder 1 is located 79 feet (24 meters) west of the unnamed dirt road and has approximately 16 small shallow cupules. The cupule boulder has many cracks and fissures due to natural weathering, making it difficult to discern the total number of cupules present.

The site is in fair condition, with natural weathering resulting in highly fractured/cracked BRMs. Depth if any is unknown. The site is located in the open-space area.

5.2.35 TP-SITE-38

TP-SITE-38 is a prehistoric site consisting of two BRM stations. It is 66 feet (20 meters) north of an intermittent drainage in the northern foothills of the Tehachapi Mountains, at 1,552 feet (473 meters) amsl. The site dimensions are 89 feet (27 meters) north–south by 33 feet (10 meters) east–west. Soil on site is light brown colluvial sandy silt. Vegetation includes cheatgrass, sunflowers, doveweed, and vinegar weed.

The cultural consists of two BRMs with a total of four COs and one grinding slick. BRM #1 is comprised of one large flat surface-level granite boulder that has one shallow CO and the grinding slick. BRM #2 has two shallow and one moderate CO. The site is in good condition and depth if any is unknown. The site is located in the open-space area.

5.2.36 TP-SITE-39

TP-SITE-39 is a prehistoric site consisting of two BRM stations. It is 72 feet (22 meters) north of an intermittent drainage within the northern foothills of the Tehachapi Mountains, at 1,529 feet (466 meters) amsl. The site dimensions are 52 feet (16 meters) east–west by 20 feet (6 meters) north–south. Soil on site is light brown colluvial sandy silt. Vegetation includes cheatgrass, sunflowers, doveweed, and vinegar weed.

The cultural assemblage consists of two BRMs with a total of four COs. BRM #1 has one deep and one small shallow CO. BRM #2 is 26 feet (8 meters) west of BRM #1 with two deep COs. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.37 TP-SITE-40

TP-SITE-40 is a prehistoric site consisting of four BRM stations. It is within an intermittent drainage at 1,522 feet (464 meters) amsl, in the northern foothills of the Tehachapi Mountains. The site dimensions are 128 feet (39 meters) east–west by 92 feet (28 meters) north–south. Soil on site is light brown colluvial silt. Vegetation includes cheatgrass, sunflowers, doveweed, and vinegar weed.

The cultural assemblage consists of four BRM stations with a total of 21 COs. BRM #1 is two granite boulders; Boulder 1 has one deep and one shallow CO, and Boulder 2 has one deep and

three moderate COs. BRM #2 is a surface-level granite boulder with one deep and one small shallow CO. BRM #3 is a large gray granite boulder that has been displaced and is lying on its side in the drainage. It contains one shallow and seven deep COs. BRM #4 is a single granite boulder with three deep and three shallow COs. The site is in fair condition with locational integrity damaged due to drainage flooding. Depth is unknown but a subsurface deposit is unlikely, given the location of the site in a drainage. The site is located in the open-space area.

5.2.38 TP-SITE-41

TP-SITE-41 is a prehistoric site consisting of one BRM station. It is adjacent to an unnamed drainage on a western sloping hill in the northern foothills of the Tehachapi Mountains, at 1,490 feet (454 meters) amsl. The site dimensions are 26 feet (8 meters) north/south by 26 feet (8 meters) east/west. Soil is light brown colluvial silty sand. Vegetation includes cheatgrass, sunflowers, doveweed, and vinegar weed.

The cultural assemblage consists of one BRM station with two adjacent granite boulders. Boulder 1 has one deep and one very shallow CO. Boulder 2 has one deep and three moderate COs. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.39 TP-SITE-42

This prehistoric site consists of three BRM stations on granite outcrops. It is located in an unnamed drainage between Live Oak and Bear Trap canyons, near the base of the foothills of the Tehachapis, at an average elevation of 1,332 feet (406 meters) amsl. Site dimensions measure 171 feet (52 meters) north–south by 20 feet (6 meters) east–west. Vegetation consists of cheatgrass and other non-native annual grasses, saltbush, live oak, fiddleneck, vinegar weed, and doveweed. The site soil is light brown colluvial silty sand.

BRM #1 has one deep and one shallow CO. BRM #2 consists of two boulders; Boulder 1 has one shallow CO, and Boulder 2 has one deep CO. BRM #3 is a single boulder with two shallow COs and one grinding slick. The site is in good condition and depth of subsurface deposit, if any, is unknown though unlikely, given the site location in a drainage. The site is located in the open-space area.

5.2.40 TP-SITE-43

TP-SITE-43 consists of two BRM stations and a boulder with possible cupules on granite outcrops. It is located in an unnamed drainage between Live Oak and Bear Trap canyons, near the base of the foothills of the Tehachapis, at an average elevation of 1,302 feet (397 meters) amsl. Site dimensions measure 46 feet (14 meters) north–south by 26 feet (8 meters) east–west. Vegetation consists of cheatgrass and other non-native annual grasses, saltbush, live oak, fiddleneck, vinegar weed, and doveweed. The site soil is light brown colluvial silty sand.

BRM #1 consists of two boulders. Boulder 1 contains one shallow and two deep COs. One of the deep COs is 23 centimeters deep with a 20-centimeter diameter, and the other is 12 centimeters deep with a 16-centimeter diameter. BRM #2 is a single shallow CO. No artifacts were observed. The site is in good condition. Depth is unknown. The site is located in the open-space area.

5.2.41 TP-SITE-44

TP-SITE-44 is prehistoric site with two BRM stations and associated cupules on granite boulders. It is located in an unnamed drainage between Live Oak and Bear Trap canyons at the base of the Tehachapis, at an average elevation of 1,280 feet (390 meters) amsl. Site dimensions are 167 feet (51 meters) north–south by 98 feet (30 meters) east–west. Vegetation consists of cheatgrass and other non-native annual grasses, saltbush, live oak, fiddleneck, vinegar weed, and doveweed. The site soil is light brown silty sandy colluvium.

BRM #1 consists of two deep and one shallow COs. BRM #2 is comprised of two boulders; Boulder 1 has one deep CO, and Boulder 2 has two shallow COs as well as six cupules. A single white chert biface-thinning flake was also identified in a graded dirt road at the western edge of the site; the artifact was collected and is curated by the Tejon Indian Tribe. The site is in good condition. Depth is unknown. The site is located in the open-space area.

5.2.42 TP-SITE-45

TP-SITE-45 is a prehistoric site containing BRM stations and cupules on granite boulders, with associated surface artifacts. It is located outside of the mouth of an unnamed drainage, on the open flats of the San Joaquin Valley between Live Oak and Bear Trap canyons, at an average elevation of 1,263 feet (385 meters) amsl. Site dimensions measure 36 feet (11 meters) northwest–southeast by 125 feet (38 meters) northeast–southwest. Vegetation consists of cheatgrass and other non-native annual grasses, saltbush, live oak, fiddleneck, vinegar weed, and doveweed. The site soil is light brown silty sandy colluvium.

The cultural assemblage includes five BRM stations, cupules, and associated artifacts. BRM #1 is two granite boulders, with a single moderate CO on a surface-level boulder and nine COs of varying depths on a nearby larger boulder. BRM #2 is a single moderate CO. A fragmented quartzite cobble showing evidence of battering (Artifact 2) was found in association with this feature. BRM #3 has one shallow CO and BRM #4 is a single deep CO. BRM #5 is two boulders; Boulder 1 has a single shallow CO while Boulder 2 contains three deep COs.

Cupule #1 consists of a granite outcrop with cupules and COs. It is adjacent to BRM #1 at the southern end of the site. A separate boulder, with cupules and COs (Cupule #2), is at the northern limit of the site. The site also contains a low-density lithic scatter (Concentration 1) consisting of primary and secondary flakes of various lithic materials. A projectile point (Artifact 1) was located adjacent to BRM #4. It is a reworked basalt Elko-eared dart point, dating from 1500 B.C.–A.D. 500. It was collected and is curated by the Tejon Indian Tribe. The site is in good condition and its depth, if any, is unknown. The site is located in the open-space area.

5.2.43 TP-SITE-46

TP-SITE-46 is a prehistoric site consisting of one BRM station with four mortars and one grinding slick. It is in the northern foothills of the Tehachapi Mountains, 262 feet (80 meters) west of a dirt road, at 1,453 feet (443 meters) amsl. The site dimensions are 100 feet (33 meters) north–south by 33 feet (10 meters) east–west. The site soil is light brown silty sandy colluvium. Vegetation includes doveweed, vinegar weed, sunflowers, and a medium cover of short non-native annual grasses and cheatgrass.

The cultural assemblage consists of a small surface-level granite boulder with four shallow COs and one slick. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.44 TP-SITE-47

TP-SITE-47 is a prehistoric site consisting of three BRM stations. It is located in the Pastoria Creek Canyon mouth at 1,286 feet (392 meters) amsl. The site dimensions are 164 feet (50 meters) northwest–southeast by 26 feet (8 meters) east–west. Soil observed on site is light brown alluvial sandy silt with dispersed granite boulders. Vegetation includes a moderate cover of low-lying non-native annual grasses and cheatgrass.

The cultural assemblage consists of three BRMs with a total of three COs. BRM #1 is two granite boulders; Boulder 1 has one moderate CO, and Boulder 2 has one shallow CO. BRM #2 consists of one partially buried shallow CO in the center of a boulder. Heavy ground squirrel bioturbation is occurring around BRM #2. The site is otherwise in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.45 TP-SITE-48

TP-SITE-48 is a prehistoric site consisting of two BRM stations. It is on the open flats of the San Joaquin Valley at 1,283 feet (391 meters) amsl. The site dimensions are 56 feet (17 meters) northeast–southwest by 33 feet (10 meters) east–west. Soil observed on site is light brown alluvial silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed.

The cultural assemblage consists of two BRMs with a total of four mortars. BRM #1 has one deep and two moderate COs. BRM #2 has one shallow oval-shaped mortar. The site is in good condition. Depth if any is unknown. The site is located in the open-space area.

5.2.46 TP-SITE-49

TP-SITE-49 is a prehistoric site consisting of a large granite boulder with 10 shallow COs. A 1968 benchmark has been cemented inside one of the mortars. The site is on the open, heavily disturbed flats of Grapevine Canyon at 1,709 feet (521 meters) amsl. The site dimensions are 36 feet (11 meters) north–south by 36 feet (11 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes vinegar weed, saltbush, and a medium cover of low-lying non-native annual grasses and cheatgrass. The site is in fair condition and its depth, if any, is unknown. The site is located in the open-space area.

5.2.47 TP-SITE-50

TP-SITE-50 is a historic refuse scatter located within the mouth of Grapevine Canyon at 1,680 feet (512 meters) amsl. The site boundaries measure about 75 feet (23 meters) north–south by 42 feet (13 meters) east–west, for a total area of 3,150 square feet (299 square meters). Vegetation consists of cheatgrass and small patches of vinegar weed. Site soils are light brown colluvial sandy silt containing dispersed gravels and granite.

The site consists of the front-end of a historical automobile and two discrete, circular concentrations, both containing mixes of domestic and industrial debris. Concentration 1 (C1), at the south end of the site, measures 16.5 feet (5 meters) north/south by 20 feet (6 meters) east/west. It includes colorless soda/juice bottles (intact and fragmented); numerous miscellaneous frosted, amethyst, cobalt, green, brown, and colorless glass bottle fragments; numerous ceramic vessel and dinnerware fragments; approximately 25 oil cans; about six paint cans; about nine sanitary seal cans; and over 100 metal barrel straps. Two diagnostic Owens-Illinois bottle bases, dating circa 1920-1940, were found within C1. C2 is located approximately 35 feet (11 meters) north of C1, and measures 13 feet (4 meters) north/south by 16.5 feet (5 meters) east/west. Artifacts include numerous miscellaneous frosted, brown, cobalt, amethyst, colorless, and green bottle glass fragments; numerous miscellaneous ceramic vessel and dinnerware fragments (including whiteware, porcelain, and fiestaware); two pieces of a fragmented porcelain toilet; about 14 oil cans; over 50 metal barrel straps; various sized nuts, washers and bolts; miscellaneous metal machine parts; metal slag; and tire fragments. Two diagnostic Owens-Illinois bottle bases, dating circa 1910-1920, were found within C2. Additionally, a dark green bottle base with an embossed Eskimo holding a bottle and a diamond, flanked by an “A” and “B”, was found within C2. This was made by the American Bottle Company for Clicquot Club sodas during the first half of the twentieth century. A portion of the front end of an unidentifiable historical car is located about 66 feet (20 meters) southeast of C1.

TP-SITE-50 is located in a graded and heavily disturbed area, with the fragmentary nature of the artifacts reflecting this disturbance. It lacks integrity and research potential and is not considered significant or unique. The site is located in the open-space area.

5.2.48 TP-SITE-51

This highly disturbed prehistoric site consists of two BRM stations, and four surface artifacts. It is located along a graded, sloping ridge within Grapevine Canyon, at an average elevation of 1,883 feet (574 meters) amsl. Site dimensions measure 256 feet (78 meters) northwest–southeast by 75.5 feet (23 meters) northeast–southwest. Vegetation includes cheatgrass and non-native other non-native annual grasses, vinegar weed, doveweed, fiddleneck, Russian thistle, and saltbush. Site soils consist of light brown colluvial silty sand containing dispersed gravels and granite. Effectively all of the site area has been graded. Large boulders within this zone have been displaced/overturned, and no original ground surface appears to be present. Remnants of the original soil occur in graded wind-rows that border the ridge area.

BRM #1 contains two COs on a granite boulder. BRM #2 is approximately 13 COs, the majority of which are deep. Artifact 1 is a burgundy CCS Cottonwood Triangular arrow point. These point types post-date A.D. 1200 in this region. Artifact 2 is a non-diagnostic triangular arrow point base made from Franciscan chert; this is less than 1,500 years old. Artifact 3 is a bifacially flaked basalt knife fragment. The artifacts were collected and are curated by the Tejon Indian Tribe. An additional white CCS tertiary flake was also identified.

TP-SITE-51 has been destroyed by previous grading and construction, and lacks integrity. The site is located in the open-space area.

5.2.49 TP-SITE-52

TP-SITE-52 is a prehistoric site consisting of one BRM station with a total of nine mortars. It is on the open flats of the San Joaquin Valley at 1,565 feet (477 meters) amsl. The site dimensions (including 16-foot/5-meter buffer) are 39 feet (12 meters) north–south by 39 feet (12 meters) east–west. Soil on site is light brown alluvial silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes doveweed, vinegar weed, and a medium cover of short non-native annual grasses.

The cultural assemblage consists of one partially buried granite BRM boulder with seven shallow and two moderate COs. The site is in fair condition; the surrounding area has been heavily graded, probably during construction of I-5. Depth if any is unknown but unlikely. The site is located in the open-space area.

5.2.50 TP-SITE-53

TP-SITE-53 is a prehistoric site consisting of two BRM stations on granite boulders. It is located on the open flats of the San Joaquin Valley Floor, at an average elevation of 1,306 feet (398 meters) amsl. Site dimensions measure 157.5 feet (48 meters) north–south by 66 feet (20 meters) east–west. Vegetation consists of cheatgrass, other non-native annual grasses, and vinegar weed. The site soil is light brown alluvial silt containing dispersed gravels, granite, quartz, and limestone.

BRM #1 has one deep saucer mortar. BRM #2 consists of one shallow and one deep CO. No artifacts were observed on site. The site is in good condition. Depth if any is unknown. The site is within the development area.

5.2.51 TP-SITE-54

TP-SITE-54 is a prehistoric site consisting of two BRM stations. It is located in the northern foothills of the Tehachapi Mountains, within a large granite boulder outcrop, 131 feet (40 meters) northwest of an intermittent drainage, at 1,831 feet (558 meters) amsl. The site dimensions are 30 feet (9 meters) north–south by 33 feet (10 meters) east–west. Vegetation includes doveweed, sunflowers, jimson weed, vinegar weed, and a moderate cover of cheatgrass and non-native annual grasses. Soil on site is light brown colluvial sandy silt.

The cultural assemblage of TP-SITE-54 is comprised of two BRMs. BRM #1 contains one surface-level granite boulder with six mortars. The mortars are all deep COs that are filled in with sediments and grasses. BRM #2 is located 10 feet (3 meters) northeast of BRM #1 and has one shallow CO on one small surface-level granite boulder. The site is in good condition. Depth is unknown. The site is located in the open-space area.

5.2.52 TP-SITE-55

TP-SITE-55 is a prehistoric site consisting of a single BRM station. It is on the open flats of the San Joaquin Valley at 424 feet (129 meters) amsl. The site's dimensions, including buffer, are 49 feet (15 meters) north–south by 49 feet (15 meters) east–west. Soil observed on site is light brown alluvial silt with dispersed granite, quartz, and limestone rocks. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of low-lying non-native annual grasses and

cheatgrass. The BRM is on a partially buried bluish-gray conglomerate boulder with four shallow COs. It is in good condition. Depth if any is unknown. The site is within the development area.

5.2.53 TP-SITE-56

TP-SITE-56 is a prehistoric site consisting of one BRM station with four mortars. It is on the open flats of the southern San Joaquin Valley at 1,391 feet (424 meters) amsl. The site dimensions are 33 feet (10 meters) north–south by 33 feet (10 meters) east–west. Soil observed on site is light brown alluvial silt with dispersed granite, quartz, and limestone rocks. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of low-lying non-native annual grasses and cheatgrass.

The cultural assemblage consists of a small triangular-shaped, bluish-gray conglomerate boulder with four COs: one shallow, two moderate, and one deep. The site is in good condition. Depth if any is unknown. It is within the development area.

5.2.54 TP-SITE-57

TP-SITE-57 is a prehistoric site consisting of one BRM station. It is on the open flats of the southern San Joaquin Valley at 1,667 feet (508 meters) amsl. The site dimensions, including buffer, are 39 feet (12 meters) north–south by 39 feet (12 meters) east–west. Soil observed on site is light brown alluvial silt with dispersed granite, quartz, and limestone rocks. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of non-native annual grasses and cheatgrass. The BRM contains two shallow and one deep CO on a surface-level granite boulder. The site is in good condition. Depth is unknown. It is within the development area.

5.2.55 TP-SITE-58

TP-SITE-58 is a prehistoric site consisting of a partially buried granite boulder with nine small shallow COs. The site is located within the open flats of the San Joaquin Valley at 1,388 feet (423 meters) amsl. The site dimensions are 30 feet (9 meters) north–south by 30 feet (9 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed and doveweed. The site is in good condition and depth, if any, is unknown. The site is within the open-space area.

5.2.56 TP-SITE-59

TP-SITE-59 is a prehistoric site consisting of a large granite boulder with one shallow and five moderate COs. It is in Live Oak Canyon within the northern foothills of the Tehachapi Mountains at 1,558 feet (475 meters) amsl. The site dimensions are 26 feet (8 meters) north–south by 26 feet (8 meters) east–west. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes sunflowers, sticky madia, live oaks, chaparral brooms, and a medium cover of low-lying non-native annual grasses and cheatgrass. It is in good condition and depth if any is unknown. The site is located in the open-space area.

5.2.57 TP-SITE-60

TP-SITE-60 is a U-shaped cobble cairn partly buried by soil and grass. It is on the open flats of the southern San Joaquin Valley, at 1,404 feet (428 meters) amsl. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed and doveweed. Site dimensions are approximately nine feet (3 meters) by 3 feet (one meter) and the cairn is made of natural fieldstones that range from cobble to roughly basketball in size, a single coarse high. Its origin, age, and function are unknown, and it most likely represents field clearing, though it is possible that it is Native American in origin. It is within the development area.

5.2.58 TP-SITE 61

TP-SITE-61 is a BRM station located on the open flats of the southern San Joaquin Valley at 1,375 ft. (419 m) amsl. It consists of a bluish-gray conglomerate boulder with three deep COs. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed and doveweed. Soil on site is light brown alluvial sandy silt with dispersed granite, basalt, quartz, and limestone rocks. It is in good condition and depth, if any, is unknown. It is within the development area.

5.4 PREVIOUSLY RECORDED SITES

5.4.1 Rose Station (P-15-7743/CHL 300)

As noted above, Rose Station was registered as CHL 300 in 1939 (Roof 1939), although it was never previously recorded as an archaeological site. It was first occupied in 1856, when Juan Marmolejo established *Rancho Canoas* ('watering troughs') at the "Sinks of Grapevine Creek," putatively on the west side of the creek. *Rancho Canoas* had a long, low adobe building. The property subsequently changed hands a number of times, with William B. Rose the last owner and source of the name "Rose Station," prior to the property's purchase by Tejon Ranch in 1912. Rose built a two-story adobe "public house" and restaurant in 1875. According to Latta (1976:48, 66), a large wooden barn and tank house, on the east side of the road running north-south through the property, burned down in 1887. Rose's two-story adobe, directly across from the barn on the west side of the road, was destroyed by the 1952 White Wolf earthquake, with remnants of the building then carted away. Rose Station was said to be about 200 yards southeast of the original location of *Rancho Canoas*. During its Tejon Ranch ownership, Rose Station has been used continuously as a cattle gathering and shipping facility, and perhaps as an occasional small cow-camp.

Rose Station was located during the project and mapped with a high-precision GPS unit. It currently contains a series of contemporary/modern features, including corrals and loading chutes, two partially standing one-room structures and three water tanks on a gravel foundation. The concrete footings of a three-room structure are also present, along with large piles of telephone poles, old fencing and other debris.

The remnants of two (possibly three) historical adobe structure foundations were identified on either side of the north-south dirt road through the site. The significantly larger of the two, on the west side of the road, apparently represents Rose's two-story public house and restaurant. It currently consists of a large rectangular mound of "melted" adobe. Though highly disturbed, it

appears to have had two ground-floor rooms with the upper story built of wood. A rectangular pit behind (west of) the adobe foundation may be a privy feature.

Remains of one (or possibly two) additional adobe structures are located east of and across the road from the bar/restaurant, approximately under the area of the circa 1875 wooden barn. These consist of a line of exposed foundation cobbles and melted adobe. They have also been significantly disturbed, in part by the construction of a contemporary concrete and metal water trough. They appear to represent one long or two shorter, narrow, rectangular structures.

As noted above, Rose Station was on the Overland Butterfield Stage route (1858-1861) though it was not a formal stage stop, per se. The existing dirt road between the adobe structures appears to correspond to the old stage route. It has been continuously graded and maintained by the Tejon Ranch, however, and no remnants of the road bed could be identified, here or elsewhere in the study area.

A very low density scatter of historical artifacts, mixed with contemporary debris, is present on the Rose Station site surface. These include a scatter of fire bricks behind the west adobe, most likely the remnants of a fireplace/chimney, oxidized window and bottle glass, whiteware ceramics, metal shovel, metal stove leg, horseshoes, metal barrel hoops, metal bed frame made of 1-inch pipe lengths, wire nails, and tractor parts. These artifacts are typically very fragmentary, and no temporally diagnostic items were identified. Notably, the ground surface at the site, especially surrounding and in the vicinity of the adobes, appears to have been graded and is very irregular as a result.

The putative location of *Rancho Canoas*, if accurate, would most likely place it under the California Aqueduct, which runs east-west immediately north of Rose Station. Repeated efforts to find evidence for *Rancho Canoas* elsewhere on the west side of Grapevine Creek were unsuccessful. Alternatively, it is worth noting that an old wooden watering trough was recorded as isolated historical artifact TP-ISO-35, about 656 feet (200 meters) west of Rose Station. Based in part on the milled lumber and metal reinforcements used in its construction, it does not appear to date to the mid-nineteenth century. However, it is old, and its presence on the landscape may have resulted in the inference that it represents the original location of *Rancho Canoas*. In keeping with this possibility, the adobe foundation remains on the east side of the dirt road may instead be the remnants of the original Juan Marmolejo adobe and thus *Rancho Canoas*.

One source states that the Yokuts name *Wuwupai* was associated with Rose Station (Whitley and Andrews 2011). This appears to have been a general place-name rather than a village name, however. Repeated efforts to identify prehistoric/Native American remains at this location have been unsuccessful.

Although highly disturbed and lacking intact structures, Rose Station retains archaeological remains from the nineteenth century occupation of the southern San Joaquin Valley and as such has research value. Based on its previous designation as CHL 300, the archaeological remains at Rose Station are assumed to be significant due to their archaeological research value. The site is located in the open-space area.

5.4.2 P-15-115/CA-KER-115

This prehistoric site was originally recorded at an unknown date. It was reported to include a BRM, midden deposits, house-pits, tools, flakes, and a core. The (very limited) records identify two loci, located about 0.3 mile (500 meters) apart. Efforts to relocate this site were unsuccessful and it clearly was mismapped. The site description lacks details but most closely resembles CA-KER-810, which is located a short distance to the west, suggesting that this represents an earlier recording of that site mapped in the wrong location. Regardless of the source of confusion, no cultural resource exists at the mapped location of CA-KER-115, and this location does not appear to ever have been disturbed, precluding the possibility that a site once existed here but was destroyed.

5.4.3 P-15-810/CA-KER-810

The original recording of CA-KER-810, a contributing property of the Sebastian Indian Reserve Discontiguous NRHP District/CHL 133 (P-15-7674; see Whitley 2013), was described above. The site was relocated and remapped in 2013. It covers an area that is 2,576 feet (785 meters) north–south by 515 feet (157 meters) east–west. It includes midden deposits, 199 BRM stations, two adobe structure foundations, three possible privy features, six probable house-pits, and at least seven boulders with cupules. The two adobe foundations include a rectangular house that was occupied by Samuel Bishop and, when on the reserve, Edward Beale, and a probable blacksmith workshop, used by a farrier named Clapp. The primary concentration of historical/Euro-American surface artifacts is localized in an area that is 89 feet (27 meters) north–south by 62 feet (19 meters) east–west, in the immediate area of the adobe foundations. This includes a variety of kinds of ceramics and glass fragments, Clapps' apparently distinctive metal horseshoes dating to 1853-1854, a Spanish Mission style metal hoe, embossed metal stove fragments with a patent or manufacture date of 1847, and numerous miscellaneous pieces of metal. Prehistoric/Native American artifacts include obsidian, CCS, and quartzite debitage, a quartzite core, and a unifacially flaked piece of olive green bottle glass. The site is in good condition. Its depth is unknown but, given the presence of organically enriched midden soil and the number and variety of artifacts and features present, it is clear that a subsurface deposit is present. The site is significant based on the fact that the Sebastian Indian Reserve Discontiguous NRHP District has been deemed NRHP eligible by the OHP. The site is located in the open-space area.

5.4.4 P-15-4884/CA-KER-4465

As discussed above, *Mat'apxwelxwel*, a historical Chumash village, once existed in Grapevine Canyon, serving as the westernmost habitation for the Sebastian Indian Reserve (CHL 133, P-15-7674, see Whitley 2013). Repeated efforts by a variety of archaeologists during a number of projects failed to relocate the village. This included intensive backhoe testing (Berryman and Anderson 1997), intended to identify possible subsurface deposits, as well as monitoring trench excavations for various pipeline rights-of-way traversing the canyon mouth. As noted in a site update resulting from one trench monitoring project, "[t]he 'site,' which consists of isolated artifacts from disturbed contexts identified during monitoring of construction of Pacific Pipeline, also includes three bedrock milling features" (Knight 1998). During the 2013 fieldwork, we were able to identify the original location of the village and its primary components (Whitley 2013). These all fall under the southbound lanes of the I-5, and in other completely disturbed areas (Figure D3, Confidential Appendix D). The village of *Mat'apxwelxwel* was destroyed by almost a century

of road building and other construction and use of the canyon mouth. It was not included as a contributing property in the Sebastian Indian Reserve Discontiguous Archaeological District NRHP nomination due to this fact.

The remainder of the canyon mouth has also been heavily disturbed. Grading for the I-5 included channelizing Grapevine Creek and creating berms and other flood control features to ensure the integrity of the highway, in addition to the eight highway lanes themselves, split in this location into northbound and southbound lanes on either side of the canyon. A vineyard has been graded into the sloping canyon mouth, below the creek channelization, creating an artificial leveled field surface. Graded and paved roads and additional houses, buildings and facilities fill the rest of the valley mouth. Effectively no original ground surface is present within Grapevine Canyon mouth.

A series of BRMs is still present in the area on large boulders in graded/disturbed contexts, on either side of Grapevine Creek. Three of these had been previously identified as CA-KER-4465 although, based on our current information, they are at least 1,477 feet (450 meters) north of the historical village location. Recorded site CA-KER-4465, in other words, now represents a series of BRMs in a disturbed context located approximately 0.3 mile (500 meters) away from the village of *Mat'apxwelxwel*, rather than the village itself.

Survey and mapping of this area resulted in the recording of 18 BRM stations and two surface artifacts (a mano and a pestle, both left in place), located in an area approximately 820 feet (250 meters) in diameter. The BRM boulders are located in a heavily graded area with many pushed on their sides (Figure D4, Confidential Appendix D), and others even split in half. All were in disturbed contexts. Due to the destruction of the original village deposits and the secondary context of the BRMs, CA-KER-4465 lacks integrity and is not significant. The site is located in the open-space area.

5.4.5 P-15-9629/CA-KER-5855

This site was originally recorded in 1999 to the east of Pastoria Creek on the open flats of the San Joaquin Valley, at an elevation of 1,279 feet (390 meters) amsl. It was described as a prehistoric milling complex containing six bedrock BRMs with eight total mortars and no associated artifacts.

The site was relocated as originally mapped and found to be in the same, good condition as in 1999. Depth of the site, if any, is unknown. The site is located in the open-space area.

5.4.6 P-15-10845/CA-KER-6306

This prehistoric site was originally recorded in 2003 in the northern foothills of the Tehachapi Mountains, east of Grapevine Canyon, at an elevation of 1,410 feet (430 meters) amsl. It was reported to include four BRM stations with a total of 23 mortars, approximately 50 cores, several quartzite retouched flakes, one quartzite stone bowl fragment, one red quartzite scraper/knife, one gray quartzite hammerstone, and one metamorphic hammerstone. All of the quartzite cobbles found on-site exhibited some evidence of battering and/or flaking. The site was estimated to cover an approximate area of 53,820 square feet (5,000 square meters).

The site was relocated as originally mapped and found to be in the same, good condition as first reported. Depth of the site (if any) is unknown. The site is located in the open-space area.

5.4.7 P-15-10846/CA-KER-6307

P-15-10846 was originally recorded in 2003 as a small prehistoric milling site located just below the northern foothills of the Tehachapis, at an elevation of 1,384 feet (422 meters) amsl. It was described as including four milling stations with a total of three slicks, seven BRMs and four cupules, along with an associated quartzite cobble cache located in the fissure of a granite outcrop (Feature 1). Site size was estimated at 4,306 square feet (400 square meters). The quartzite cobbles found on-site were described as battered and/or flaked, including one cobble that was ground on one side.

The site was relocated and, while the original description was accurate, the site was slightly mismapped and new location and sketch maps were created. The site is in good condition, with the cobble cache still intact. Its depth, if any, is unknown. The site is located in the open-space area.

5.4.8 P-15-10847

P-15-10847 was originally recorded in 2003 as a roughly 1-mile-long historical transmission corridor consisting of 15- to 20-foot-tall telephone poles, probably representing a rural telephone line. One fragmented insulator was tentatively identified as a Hemingray-14, dating the transmission corridor to circa 1919-1950. The site was considered to be in fair to poor condition, with many of the poles cut down and almost all of the insulators missing or fragmentary. This linear feature was found to extend east from its original identification, then turning south and heading up the east side of Grapevine Canyon for a short distance alongside the I-5 freeway, partly within the designated open-space portion of the specific plan area but extending into the development area. It is in very poor condition, lacks integrity, and has no research or other values. The site is not considered a significant or unique cultural resource.

5.5 ISOLATED FEATURES AND ARTIFACTS

5.5.1 Isolated Prehistoric Features

Isolated archaeological features are listed in Tables 5.3 and 5.4 (Confidential Appendix A, Maps A4 and A6; Confidential Appendix B). Seventy-two of these are isolated prehistoric features consisting of one or two COs, or single grinding slicks. Three isolated features are historical/Euro-American in age and origin.

Table 5.3 Isolated Features in Development Area

HISTORIC (3)
TP-ISO-34
TP-ISO-35
TP-ISO-40

PREHISTORIC (28)	
TP-ISO-11	TP-ISO-56
TP-ISO-23	TP-ISO-57
TP-ISO-24	TP-ISO-58
TP-ISO-25	TP-ISO-59
TP-ISO-26	TP-ISO-61
TP-ISO-30	TP-ISO-63
TP-ISO-36	TP-ISO-64
TP-ISO-37	TP-ISO-65
TP-ISO-39	TP-ISO-66
TP-ISO-46	TP-ISO-67
TP-ISO-47	TP-ISO-68
TP-ISO-51	TP-ISO-69
TP-ISO-53	TP-ISO-112
TP-ISO-55	TP-ISO-113

Table 5.4 Isolated Features in Open-Space

Isolated Features	
TP-ISO-12	TP-ISO-82
TP-ISO-13	TP-ISO-83
TP-ISO-17	TP-ISO-85
TP-ISO-18	TP-ISO-86
TP-ISO-21	TP-ISO-87
TP-ISO-22	TP-ISO-88
TP-ISO-27	TP-ISO-90
TP-ISO-31	TP-ISO-91
TP-ISO-41	TP-ISO-92
TP-ISO-42	TP-ISO-93
TP-ISO-43	TP-ISO-95

Isolated Features	
TP-ISO-54	TP-ISO-96
TP-ISO-70	TP-ISO-98
TP-ISO-71	TP-ISO-99
TP-ISO-72	TP-ISO-102
TP-ISO-74	TP-ISO-104
TP-ISO-75	TP-ISO-105
TP-ISO-76	TP-ISO-106
TP-ISO-77	TP-ISO-108
TP-ISO-79	TP-ISO-109
TP-ISO-80	TP-ISO-110
TP-ISO-81	TP-ISO-111

TP-ISO-11

TP-ISO-11 consists of an isolated BRM station on the open flats of the southern San Joaquin Valley at 1,136 feet (346 meters) amsl. The BRM is surface-level granite boulder with two shallow COs.

TP-ISO-12

TP-ISO-12 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,263 feet (385 meters) amsl. It consists of a granite boulder with one shallow CO and one moderate CO.

TP-ISO-13

TP-ISO-13 is an isolated grinding slick located on the open flats of the southern San Joaquin Valley on the Tejon Ranch at 1,283 feet (391 meters) amsl. The slick is on a small granite boulder partly in tall grass.

TP-ISO-17

TP-ISO-17 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,299 feet (396 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-18

TP-ISO-18 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,309 feet (399 meters) amsl. It consists of a granite boulder with two moderate COs.

TP-ISO-21

TP-ISO-21 is an isolated BRM station on the open flats of the San Joaquin Valley at 1,388 feet (423 meters) amsl. It consists of a granite boulder with two shallow COs.

TP-ISO-22

TP-ISO-22 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,637 feet (449 meters) amsl. The BRM is on a granite boulder with one small shallow CO.

TP-ISO-23

TP-ISO-23 is an isolated BRM on the open flats of the southern San Joaquin Valley floor at 1,444 feet (440 meters) amsl. It consists of a single granite boulder with one moderate CO.

TP-ISO-24

TP-ISO-24 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,414 feet (431 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-25

TP-ISO-25 is an isolated BRM on the open flats of the San Joaquin Valley at 1,409 feet (429 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-26

TP-ISO-26 is an isolated BRM on the open flats of the San Joaquin Valley at 1,394 feet (425 meters) amsl. It consists of a granite boulder with two shallow COs.

TP-ISO-27

TP-ISO-27 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,768 feet (539 meters) amsl. It consists of a granite boulder with one deep CO.

TP-ISO-30

TP-ISO-30 is an isolated BRM station on the open flats of the southern San Joaquin Valley at 1,263 feet (385 meters) amsl. It consists of two moderate COs on a large surface-level granite boulder.

TP-ISO-31

TP-ISO-31 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,572 feet (479 meters) amsl. It consists of a granite boulder with one moderate CO.

TP-ISO-36

TP-ISO-36 is an isolated BRM station on the open flats of the southern San Joaquin Valley floor at 1,335 feet (407 meters) amsl. It consists of two BRMs. BRM #1 is a basalt surface-level boulder with one deep CO. BRM #2 is a granite boulder with one moderate CO on its side, indicating that it has been pushed over. It is now partially buried.

TP-ISO-37

TP-ISO-37 is an isolated BRM on the open flats of the southern San Joaquin Valley, 98 feet (30 meters) west of Grapevine Creek, and at 1,375 feet (419 meters) amsl. It consists of a large, ground surface level granite boulder with one deep CO.

TP-ISO-39

TP-ISO-39 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,768 feet (539 meters) amsl. It consists of a granite boulder with one shallow CO and one deep CO.

TP-ISO-41

TP-ISO-41 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,467 feet (447 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-42

TP-ISO-42 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,486 feet (453 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-43

TP-ISO-43 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,486 feet (453 meters) amsl. It consists of two granite boulders with one shallow CO, one starter CO, and one deep CO.

TP-ISO-44

TP-ISO-44 is a portable ground stone bowl found on the open flats of the San Joaquin Valley at 1,266 feet (386 meters) amsl. It measures 35 centimeters in length, 12.5 centimeters in width, and 10 centimeters in depth, and is fragmentary and in poor condition. It was collected and is curated by the Tejon Indian Tribe at their tribal headquarters.

TP-ISO-46

TP-ISO-46 is an isolated BRM station on the open flats of the southern San Joaquin Valley at 1,365 feet (416 meters) amsl. It consists of a large bluish-gray conglomerate boulder with two shallow COs.

TP-ISO-47

TP-ISO-47 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,339 feet (408 meters) amsl. It consists of one bluish-grey conglomerate boulder with two shallow COs.

TP-ISO-51

TP-ISO-51 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,381 feet (421 meters). It consists of one shallow CO on a ground surface level, slanted granite boulder.

TP-ISO-53

TP-ISO-53 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,401 feet (427 meters) amsl. It consists of a partially buried basalt boulder with one shallow CO.

TP-ISO-54

TP-ISO-54 is an isolated BRM on a flat ridge within the northern foothills of the Tehachapi Mountains, at 1,972 feet (601 meters) amsl. It consists of a large granite boulder with two COs, one moderate and one deep.

TP-ISO-55

TP-ISO-55 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,457 feet (444 meters) amsl. It consists of one moderate CO on a large pinkish-gray granite boulder.

TP-ISO-56

TP-ISO-56 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,444 feet (440 meters) amsl. It consists of one granite boulder with one CO.

TP-ISO-57

TP-ISO-57 is an isolated BRM station on the open flats of the San Joaquin Valley at 1,568 feet (478 meters) amsl. It consists of a granite boulder with two moderate COs.

TP-ISO-58

TP-ISO-58 is an isolated BRM station on the open flats of the southern San Joaquin Valley at 1,568 feet (478 meters) amsl. It consists of a pyramid-shaped basalt boulder with one shallow and one deep CO.

TP-ISO-59

TP-ISO-59 is an isolated BRM on the open flats of the southern San Joaquin Valley, within a small, dense granite boulder outcrop at 1,512 feet (461 meters) amsl. It consists of one shallow CO on a ground surface level granite boulder.

TP-ISO-61

TP-ISO-61 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,552 feet (473 meters) amsl. It consists of one shallow CO on a white, ground surface level granite boulder.

TP-ISO-63

TP-ISO-63 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,690 feet (515 meters) amsl. It consists of one granite boulder with two deep COs.

TP-ISO-64

TP-ISO-64 is an isolated BRM located on the open flats of the San Joaquin Valley at 1,673 feet (510 meters) amsl. It consists of one granite boulder with one shallow CO.

TP-ISO-65

TP-ISO-65 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,637 feet (499 meters) amsl. It consists of one small shallow and one deep CO on a heavily eroded granite boulder.

TP-ISO-66

TP-ISO-66 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,634 feet (498 meters) amsl. It consists of two shallow oval mortars on a grayish-white granite boulder.

TP-ISO-67

TP-ISO-67 is an isolated BRM on the open flats of the southern San Joaquin Valley, at 1,604 feet (489 meters) amsl. It consists of a large bluish-gray conglomerate boulder containing one shallow oval mortar.

TP-ISO-68

TP-ISO-68 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,532 feet (467 meters) amsl. It consists of one deep CO at the center of a gray granite boulder.

TP-ISO-69

TP-ISO-69 is an isolated BRM station on the open flats of the southern San Joaquin Valley, within a small boulder outcrop at 1,545 feet (471 meters) amsl. It consists of a large granite boulder with two small shallow COs.

TP-ISO-70

TP-ISO-70 is as isolated BRM on the open flats of the southern San Joaquin Valley at 1,568 feet (478 meters) amsl. It consists of a large gray granite boulder with one shallow CO.

TP-ISO-71

TP-ISO-71 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,673 feet (510 meters) amsl. It consists of a boulder within an intermittent drainage with two shallow COs.

TP-ISO-72

TP-ISO-72 is an isolated BRM on the open flats of the southern San Joaquin Valley, adjacent to an intermittent drainage at 1,785 feet (544 meters) amsl. It consists of one shallow oval mortar on a large rectangular granite boulder.

TP-ISO-74

TP-ISO-74 is an isolated BRM on the open flats of the southern San Joaquin Valley at 1,529 feet (466 meters). It consists of one deep CO, covering about 90 percent of the surface area of a small, ground surface level granite boulder.

TP-ISO-75

TP-ISO-75 is an isolated, disturbed BRM station on the open flats of the San Joaquin Valley at 1,558 feet (475 meters) amsl. It consists of a granite boulder with two shallow COs on its side, probably due to ground squirrel bioturbation which surrounds the boulder.

TP-ISO-76

TP-ISO-76 is an isolated BRM on the open flats of the San Joaquin Valley, directly adjacent to an intermittent drainage at 1,565 feet (477 meters) amsl. It consists of a large granite boulder with two moderate COs.

TP-ISO-77

TP-ISO-77 is an isolated BRM on the open flats of the San Joaquin Valley, within an intermittent drainage at 1,585 feet (483 meters) amsl. It consists of a large gray granite boulder with one moderate CO.

TP-ISO-79

TP-ISO-79 is an isolated BRM at the toe slope of the northern foothills of the Tehachapi Mountains at 1,850 feet (564 meters) amsl. It consists of one deep, partially buried CO on a large, eroding granite boulder.

TP-ISO-80

TP-ISO-80 is an isolated BRM station on an open ridge in the northern foothills of the Tehachapi Mountains, within a granite boulder outcrop at 1,978 feet (603 meters). It consists of a large granite boulder with two shallow COs.

TP-ISO-81

TP-ISO-81 is an isolated BRM in the northern foothills of the Tehachapi Mountains at 1,847 feet (563 meters) amsl. It consists of a boulder with two shallow COs.

TP-ISO-82

TP-ISO-82 is an isolated BRM station on the open flats of the San Joaquin Valley at 1,795 feet (547 meters) amsl. It consists of a granite boulder with two shallow COs.

TP-ISO-83

TP-ISO-83 is an isolated BRM located within the northern foothills of the Tehachapi Mountains at 1,624 feet (495 meters) amsl. It consists of one granite boulder with one shallow CO.

TP-ISO-85

TP-ISO-85 is an isolated BRM in the northern foothills of the Tehachapi Mountains at 1,883 feet (574 meters) amsl, on the east side of an intermittent drainage. It consists of a granite boulder with one moderate, partially buried CO.

TP-ISO-86

TP-ISO-86 is an isolated BRM in the northern foothills of the Tehachapi Mountains at 1,870 feet (570 meters) amsl, on the east side of an intermittent drainage. It consists of a granite boulder with one shallow CO.

TP-ISO-87

TP-ISO-87 is an isolated BRM station in the northern foothills of the Tehachapi Mountains at 1,785 feet (544 meters) amsl, on the east banks of an intermittent drainage. It consists of a boulder with two shallow COs.

TP-ISO-88

TP-ISO-88 is an isolated BRM station in the northern foothills of the Tehachapi Mountains at 1,752 feet (534 meters) amsl, on the west side of an intermittent drainage. It consists of a granite boulder with two shallow COs.

TP-ISO-90

TP-ISO-90 is an isolated BRM located within an intermittent drainage in the northern foothills of the Tehachapi Mountains at 1,447 feet (441 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-91

TP-ISO-91 is an isolated BRM in an intermittent drainage within the northern foothills of the Tehachapi Mountains at 1,440 feet (439 meters) amsl. It consists of a granite boulder with one deep CO.

TP-ISO-92

TP-ISO-92 is an isolated BRM located within the northern foothills of the Tehachapi Mountains at 1,407 feet (429 meters) amsl. It consists of a granite boulder with one moderate CO and one shallow CO.

TP-ISO-93

TP-ISO-93 is an isolated BRM located within the northern foothills of the Tehachapi Mountains at 1,362 feet (415 meters) amsl. It consists of a granite boulder with one moderate CO.

TP-ISO-95

TP-ISO-95 is an isolated BRM on a toeslope of the northern foothills of the Tehachapi Mountains at 1,378 feet (420 meters) amsl. It consists of a granite boulder with one deep CO and one partially buried moderate CO.

TP-ISO-96

TP-ISO-96 is an isolated BRM within the northern foothills of the Tehachapi Mountains at 1,394 feet (425 meters) amsl. It consists of a granite boulder with two shallow COs on the ridge of the boulder.

TP-ISO-98

TP-ISO-98 is an isolated BRM located in a granite boulder outcrop within the northern foothills of the Tehachapi Mountains at 1,437 feet (438 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-99

TP-ISO-99 is an isolated BRM located on a toeslope of the northern foothills of the Tehachapi Mountains at 1,365 feet (416 meters) amsl. It consists of a granite boulder with two shallow COs.

TP-ISO-102

TP-ISO-102 is an isolated BRM located within the northern foothills of the Tehachapi Mountains at 1,535 feet (468 meters) amsl. It consists of a granite boulder with one shallow CO.

TP-ISO-104

TP-ISO-104 is an isolated BRM located within the northern foothills of the Tehachapi Mountains at 1,535 feet (468 meters) amsl. It consists of a granite boulder with one shallow oval-shaped mortar.

TP-ISO-105

TP-ISO-105 is an isolated BRM located in a drainage within the northern foothills of the Tehachapi Mountains at 1,289 feet (393 meters) amsl. It consists of a granite boulder with one moderate CO.

TP-ISO-106

TP-ISO-106 is an isolated BRM located in a drainage within the northern foothills of the Tehachapi Mountains at 1,306 feet (398 meters) amsl. It consists of a granite boulder with one moderate CO.

TP-ISO-108

TP-ISO-108 is an isolated BRM located in a drainage within the northern foothills of the Tehachapi Mountains at 1,378 feet (420 meters) amsl. It consists of a granite boulder with two moderate COs.

TP-ISO-109

TP-ISO-109 is an isolated BRM on the eastern bank of a spring, on the northern front of the Tehachapi Mountains, near the mid-elevation of the slope at 1,646 feet (502 meters) amsl. It consists of a single shallow CO on a circular, nearly surface-level gray granite bedrock outcrop.

TP-ISO-110

TP-ISO-110 is an isolated grinding slick in the northern foothills of the Tehachapi Mountains at 1,689 feet (515 meters) amsl. It consists of a single slick on an isolated granite boulder.

TP-ISO-111

TP-ISO-111 is an isolated BRM on the open, heavily disturbed flats of Grapevine Canyon at 1,713 feet (522 meters) amsl. It consists of a granite boulder with a single CO on its side, indicating that the boulder was pushed over. This area has been graded and disturbed due to over a century of road, pipeline, and transmission corridor construction.

TP-**ISO**-112

TP-ISO-112 is an isolated BRM located within a granite boulder outcrop on the open flats of the southern San Joaquin Valley at 1,365 feet (416 meters) amsl. It consists of one deep CO on a light gray granite boulder with heavy bioturbation occurring in around the feature.

TP-**ISO**-113

TP-ISO-113 is an is an isolated BRM located within a granite boulder outcrop on the open flats of the southern San Joaquin Valley at 1,365 feet (416 meters) amsl. It consists of one moderate CO on a small, gray granite boulder.

5.5.2 Isolated Prehistoric Artifacts

Two isolated artifacts were identified during the survey: one projectile point fragment, and a sandstone bowl fragment. Both the point fragment (TP-ISO-84) and the bowl fragment (TP-ISO-44) were collected and are curated by the Tejon Indian Tribe (Confidential Appendix C). The point base is a Humboldt obsidian atlatl dart fragment which pre-dates A.D. 600, and most likely indicates sporadic use of the study area for hunting, as well as obsidian trade from eastern California, probably the Coso obsidian source at Sugarloaf Mountain north of Ridgecrest. The sandstone bowl fragment is a large mid-section of a bowl that was approximately 26 centimeters in diameter and 8 centimeters deep. It is internally ground but the exterior is, at best, only very roughly shaped.

5.5.3 Isolated Historical Features

TP-ISO-34

TP-ISO-34 is a historical 1912 Western Pacific railroad tank that has been converted into a livestock water tank. It is located on the open flats of the San Joaquin Valley, at 1,267 feet (387 meters) amsl, west of Rose Station. The riveted tank sits horizontally approximately 3 feet off the ground on concrete supports. “WESTERN PACIFIC” over “W.P. 1055” are painted on the center-side of the tank in white. “BUILT 1912” and “TESTED SAC. 4 – 16 – 49” are painted at one end, indicating that it was still in use in 1949, was decommissioned sometime thereafter, and subsequently converted into a water tank. It appears to still be in use.

TP-ISO-35

TP-ISO-35 is a historical wooden water trough located on the open flats of the San Joaquin Valley, at 1,276 feet (389 meters) amsl. It is about 656 feet (200 meters) west of Grapevine Creek and Rose Station. It is constructed out of 2-inch-thick milled pine planks, with wire nails and reinforcing end-brackets made of threaded metal rods, rectangular butt-plates, and nuts. It

measures 144 inches by 25 inches by 12 inches deep, and rests on short 6-by-6-inch cross beams. The end-plates are flat-butted against the sides rather than dove-tailed or otherwise joined, suggesting that it was ranch-built. As noted above, it is in the putative (very) approximate location of the original *Rancho Canoas*, first established in 1856, but no other evidence of archaeological remains (including piping) is present at or near to the location of this isolated artifact which, despite weathering, is in fair condition. Based on the materials and construction technique (milled lumber, wire nails, metal rod end-bracket), it is clearly not mid-nineteenth century in age, even though it appears old. One possibility is that this trough has been a visible feature on the landscape for decades, resulting in the inference that it marks the original location of *Rancho Canoas*.

TP-ISO-40

TP-ISO-40 consists of an isolated section of a historical irrigation pipe located on the open flats of the San Joaquin Valley, at 1,463 feet (446 meters) amsl. It is set in a concrete foundation inscribed with the date “April 1930”.

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6.0 CONCLUSIONS AND IMPACT ANALYSIS

6.1 SUMMARY OF FINDINGS

An intensive Phase I survey/Class III archaeological inventory was conducted for the 8,010-acre Grapevine specific plan area, Kern County, California. Including sites and isolated features, a total of 140 cultural resources has been recorded within the study area. Native American resources include a historical Native American village (CA-KER-810, a component of CHL 133 and a contributing property to the Sebastian Indian Reserve Discontiguous Archaeological District, which has been nominated for listing on the NRHP and determined eligible by OHP staff), prehistoric campsites, large and small plant processing stations, and isolated features. Euro-American historical resources include Rose Station (CHL 300), the remnants of the Tejon ostrich ranch complex, and isolated historical ranching and farming features. Sixty-five of the recorded cultural resources are archaeological sites and 75 are isolated features.

All but four of the 65 recorded sites are prehistoric or historic Native American resources. Historic Native American resources include one intact contact-period village (P-15-810/CA-KER-810); and one contact-period village (P-15-4884/CA-KER-4465) that has been destroyed and lacks integrity, with its current remnants limited to out-of-context BRMs (Figure 5-2). Both of these two sites are components of CHL 133 (P-15-7674). A third previously recorded village (CA-KER-115) was originally mismapped and appears to represent paperwork confusion with CA-KER-810, which is nearby. It is not included in the total of 65 sites.

Fourteen of the 65 sites are BRM stations with associated features and/or artifacts (P-15-10845/CA-KER-6306, CA-KER-6307/P-15-10846, TP-SITE-20, -26, -32, -33, -37, -44, -45, -49 and -51 within the designated open-space, and TP-SITE-08, 15, and -17 within the development area). These may represent smaller campsites or general work activity areas.

Forty-one of the sites are BRM stations with no associated artifacts or other features (P-15-9629/CA-KER-5855, TP-SITE-03, -11, -13, -21, -23, -24, -27, -28, -29, -30, -31, -34, -35, -36, -38, -39, -40, -41, -42, -43, -46, -47, -48, -52, -54, -58 and -59 within the designated open-space, and TP-SITE-06, -07, 09, -10, -14, -16, -18, -19, -53, -55, -56, -57 and -61 within the development area). These most likely represent specialized plant processing stations. Three BRM stations are coincidentally associated with historical ranching remains (TP-SITE-05 and -25 within designated open-space, and TP-SITE-04 within the development area). Four are exclusively historical sites, including Rose Station (P-15-7743), occupied from the mid- to late nineteenth century, an oil wellhead and associated remains (TP-SITE-12), and miscellaneous other historical features (P-15-101847 and TP-SITE-50). The age, function and cultural affiliation of one site (TP-SITE-60) is unknown.

The 75 isolated features include 72 isolated prehistoric/Native American features, and three isolated historical features. All of the prehistoric Native American features are isolated/ephemeral bedrock mortars or grinding slicks. The three isolated historical features represent ranch related activities. Two isolated artifacts were also identified and collected for curation by the Tejon Indian Tribe.

Of the 65 archaeological sites, three prehistoric sites (P-15-4884/CA-KER-4465, TP-SITE-13, and TP-SITE-51) lacked integrity/have been destroyed due to previous disturbance, and are considered not significant or NRHP/CRHR eligible. A fourth previously recorded site (CA-KER-115, not included in the 65 site total) does not exist where originally mapped and appears to represent a clerical error in the records. Three historical sites lack research potential and integrity and likewise are not significant or NRHP/CRHR eligible. These sites are P-15-10847, an abandoned telephone pole corridor; TP-SITE-12, a demolished oil well complex; and TP-SITE-50, a mixed age and origin, bulldozed refuse deposit in Grapevine Canyon. Three multi-component sites have historical remains that lack research potential and integrity and are not considered significant or NRHP/CRHR eligible. These are TP-SITE-04, the remnants of the Tejon ostrich farm complex; TP-SITE-05, a small segment of an irrigation channel; and TP-SITE-25, a tank with piping and other debris. Each of these last three sites coincidentally is associated with a BRM station. The prehistoric components of these sites retain integrity and are potentially significant.

Thus, of the 65 archaeological sites, 59 intact archaeological sites (or prehistoric site components) are considered potentially significant and NRHP/CRHR eligible. Of these 59, 41 are located in open space and would be passively preserved. The remaining 18 are recommended for Phase II testing, unless they are preserved in open space.

Of the 75 isolated archaeological features, the recording of the 72 prehistoric and 3 historical isolated features has resulted in the recovery of scientifically consequential information from and about these resources, and they have no potential to yield additional important information. These isolated resources and artifacts are not eligible under Criterion 4 and they do not meet the definition of unique archaeological resources. They are not considered significant or NRHP/CRHR eligible (PRC 21083.2(g) and (h), Title 14 CCR §15064.5(c)).

With respect to addressing the research design questions, first, the survey results indicate that prehistoric occupation was heavily concentrated along the northern front of the Tehachapi Mountains, in or adjacent to major canyon mouths and drainages. The open flats of the San Joaquin Valley, in contrast, appear to have served almost exclusively as resource exploitation and processing areas. Although it is likely that this included hunting, perhaps even intensive hunting in the form of rabbit or antelope drives, the preserved archaeological record is heavily predominated by plant processing stations.

The northern front of the Tehachapis, which roughly corresponds with the dedicated and retained open space, contains about 71% of the recorded cultural resources. The remaining prehistoric resources are located on the valley floor. Thus, the Tehachapis front has roughly double the density of cultural resource sites than the valley floor.

The presence of BRMs on the valley floor is somewhat unusual due to the absence of oak trees on the open flats. Historical line drawings of the valley floor from the mid-nineteenth century illustrate a landscape effectively devoid of trees, beyond riparian areas along stream channels (e.g., Crowe 1957:55). This suggests that the presence of BRMs in open non-native grasslands is not the result of any historical environmental changes (e.g., due to ranching or farming). Although there are a few examples of BRMs that have been displaced in drainages, most appear to be in their original location on the landscape. In some cases, the BRMs are miles from the current distribution

of oaks, making the transport of the acorns for processing unlikely. There are, however, some potential explanations for this circumstance. The first is that, contrary to standard archaeological thinking, BRMs may have been used for more than just acorn processing, perhaps also having been employed for grinding the kinds of seeds that most likely were present on the valley floor. (Although a few grinding slicks were identified, these are relatively rare overall.) Another possibility is paleoenvironmental change that may have resulted in a loss of oaks deeper in time. Although there currently is no empirical evidence to support this hypothesis, if it were correct it could have important implications about the age of the valley flats BRM sites, suggesting that they pre-dated this environmental transition. Resolution of this question, however, would require a regional paleoclimatic reconstruction, which is beyond the purview of a study of the Grapevine area.

Thus, with respect to chronological information, the survey results only provided a minimal amount of information necessary to address the research design questions. Historical Native American occupation of CA-KER-810, at least, is well documented both archaeologically and in historical documents. The likelihood of any earlier occupation there or at other sites is unknown, although this seems highly probable. Based on recovered diagnostic artifacts, especially projectile points, it is clear that the study area was occupied at least by the Middle Period, but how much earlier and to what degree of intensity is unknown. Likewise, although no evidence for earlier occupation was identified, this may be due to the nature of the fieldwork (surface survey rather than excavation) and earlier occupations cannot be precluded.

6.2 IMPACT ANALYSIS

6.2.1 Significance Thresholds

Following the CEQA guidelines (Title 14 CCR §15064.5(b) and (c)), significant impacts to cultural resources result when a project destroys, damages or substantially alters a resource that is eligible for or listed in the CRHR, or that meets the definition of a unique cultural resource.. All grading, including grubbing and soil compaction, and any landscaping requiring subsurface excavation, are activities that generally result in adverse impacts to significant archaeological resources. Preservation in place is the preferred mitigation measure for adverse impacts to significant or unique cultural resources. Data recovery (salvage excavation), if appropriate, may also serve to mitigate adverse impacts to a less than significant level (§15064.5(b)). In such cases the lead agency is obligated to explain why this mitigation measure was selected.

CEQA guidelines (§15064.5(b) and (c)(1)) require first that the lead agency determine whether a cultural resource is a “historical resource” (i.e., is significant). Following established professional practice, where a cultural resource has the potential to be impacted, Phase II test excavations (eligibility evaluations) are normally employed to determine the significance of most archaeological sites. The presence or absence of a subsurface archaeological deposit, for example, in most cases can only be established with subsurface archaeological excavation. Test excavation may also be required to determine if human remains are present at sites, such as villages, where they are sometimes found. CEQA (PRC Section 5097.98) requires coordination with the Native American Heritage Commission and County Coroner in such cases, and human burials are protected by the Health and Safety Code (Section 7050.5). Obtaining or possessing Native

American human remains or grave goods, except under duly authorized circumstances, is a felony (PRC Section 5097.99).

Federal law and regulations, including Section 106 of the NHPA and the Native American Graves Protection and Repatriation Act (NAGPRA; 43 CFR 10), provide similar protection to significant cultural resources and Native American graves and funerary objects.

6.2.2 Project Design Features

As currently planned, the project includes 3,232 acres of designated open space/exclusive agricultural land uses. This would result in the preservation of 90 cultural resources (64% of the total in the specific plan area), consisting of 46 sites (71% of the total sites) and 44 isolated features (59% of the isolated features). Included in this tabulation is P-15-810/CA-KER-810, a component of CHL 133 and the Sebastian Indian Reserve Discontiguous Archeological District (P-15-7674), which has been nominated to the NRHP, and Rose Station (CHL 300, P-15-7743). Although the site has been destroyed and lacks integrity, this total also includes the remnants of P-15-4465/CA-KER-4465, a historic village that was once a component of the Sebastian Indian Reserve (P-15-7674).

6.3.3 Study Assumptions

For purposes of impact assessment, the following assumptions are made:

- All 59 intact archaeological sites/site components within the specific plan area are either significant/unique resources, or are potentially significant/unique and thus are or may be NRHP/CRHR eligible. Six sites lack integrity and therefore no longer are significant/unique resources.
- The 41 intact sites/site components within the dedicated or retained open-space/exclusive agricultural land would be passively preserved and this would serve to mitigate any potential adverse impacts to them resulting from the project.
- The 18 intact sites outside of the open-space/exclusive agricultural land fall within areas that would require ground surface disturbance and thus would be adversely impacted.
- The 77 isolated features and artifacts (75 isolated features and 2 isolated artifacts) are not CRHR eligible and therefore are not historical resources, and they do not constitute unique archaeological resources (PRC 21083.2 (g) and (h), Title 14 CCR §15064.5(c)) and their recording has served to mitigate any potential adverse impacts to them that may result from the project.

6.3.4 Impact Assessment

Project construction, especially ground surface disturbance in the form of grading, has the potential to result in significant adverse impacts to 59 intact archaeological sites/site components. With the preservation of 3,232 acres of dedicated or retained open space and exclusive agricultural land uses, mitigation of adverse effects to 41 intact sites would be achieved through passive preservation, leaving 18 intact sites or site components that may be adversely impacted.

Prior to the finalization of the EIR, conduct Phase II testing on the 18 intact sites/site components to evaluate whether they are eligible for the CRHR and are Historical Resources for the purposes of CEQA. If any of the sites are determined to be eligible and Historical Resources, mitigation consisting of preservation in place or data recovery will be necessary.

Grading in the vicinity of known sites can result in inadvertent impacts to the sites. Previously unidentified buried archaeological deposits may also be uncovered and impacted. Therefore the following mitigation measures are recommended.

6.3.5 Mitigation Measures

1) Cultural Resources Monitoring Plan. Prior to issuance of construction permits, the Applicant shall submit a monitoring plan for review and approval by the County Planning Department. The intent of this plan is to monitor all earth-disturbing activities in areas identified as potentially sensitive for cultural resources, and to properly treat any unanticipated discoveries of cultural resources. The monitoring plan shall include:

   a. List of personnel involved in the monitoring activities;
   b. Inclusion of involvement of the Native American community, as appropriate;
   c. Description of how the monitoring shall occur;
   d. Description of frequency of monitoring (e.g., full-time, part time, spot checking);
   e. Description of expected kinds of resources that may be encountered;
   f. Description of circumstances that would result in the halting of work at the project site (e.g., What is considered a "significant" archaeological resource?);
   g. Description of procedures for halting work on the site and notification procedures;
   h. Description of significance testing guidelines and procedures for inadvertent discoveries, including avoidance and data recovery, if necessary; and
   i. Description of monitoring reporting procedures.

2) Monitoring Sensitive Areas. Monitoring during construction in sensitive areas shall occur. Archaeologically sensitive areas are defined as locations within 75 feet of prehistoric archaeological sites, and locations containing known cultural resources such as isolated prehistoric features.

3) Crew Education. The monitoring plan shall also include provisions outlining an education program for the construction crew and establishing a protocol for treating unanticipated finds. The Applicant shall provide cultural resources awareness training to all field crews and field supervisors. This training would include a description of the types of resources that may be found in the project area, the protocols to be used in the event of an unanticipated discovery, the importance of cultural resources to the Native American community, and the laws protecting significant archaeological and historical sites. In addition, the Applicant shall provide all field supervisors with maps showing those areas sensitive for potential buried resources.

4) Delineate Environmentally Sensitive Areas. Prior to construction permit issuance, the Applicant shall delineate on a confidential copy of project plans, provided to the

County, all known archaeological sites on or adjacent to construction areas, as Environmentally Sensitive Area(s). To ensure the integrity of these areas from unauthorized disturbance or collection, the delineated areas shall not be labeled with regard to the specific type of cultural resource identified as sensitive.

5) Treatment of Inadvertent Discoveries. The monitoring plan shall include a treatment plan for inadvertent discoveries, including avoidance, if feasible and a data recovery program to be implemented if necessary. The data recovery shall be prepared by a qualified archeologist, approved by the County, and include at least the following:

a. Standard archaeological data recovery practices;
b. Recommended sample size adequate to mitigate for impacts to the archaeological site, including basis and justification of the recommended sample size;
c. Identification of location of sample sites/test units;
d. Description of sampling techniques and material recovery procedures (e.g., how sample is to be excavated, how the material would be screened, screen size, how material would be collected);
e. Disposition of collected materials;
f. Proposed analysis of results of data recovery and collected materials, including timeline of final analysis results; and
g. List of personnel involved in data recovery.
f. Requirement to submit to the County, prior to final inspection, a letter from the consulting archaeologist indicating that all necessary field work, as identified in the Phase III program, has been completed.

6) Identification of Human Remains. If human remains or possible human remains are encountered at any stage in project construction or operation, the Applicant shall be responsible for following State Health and Safety Code Section 7050.5 regarding handling, treatment, and disposition of those remains. Upon discovery, the Applicant shall immediately contact the County Coroner. If the remains are determined to be prehistoric, per Public Resources Code Section 5097.98, the Coroner would notify the Native American Heritage Commission, which would initiate a formal process to insure proper notification and proper re-interment.

7) Cultural Resources Reporting. Prior to final inspection, an archaeologist shall prepare and submit a report to the County summarizing all monitoring/mitigation activities and confirming that all recommended mitigation measures have been met. If the analysis included in the Phase III program is not complete by the time final inspection or occupancy would occur, the Applicant shall provide to the County proof of obligation to complete the required analysis.

6.3.6 Level of Significance after Mitigation

Completion of any mitigation measures needed for sites evaluated as eligible for the CRHR as a result of testing and implementation of Mitigation Measures 1 through 7 above will reduce all impacts to cultural resources to less than significant.

6.3.7 Cumulative Impacts

Cumulative impacts can only be determined following Phase II test excavations and determinations of site significance.

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CONFIDENTIAL APPENDICES

Not Included

Appendix G.2

Phase II Test Excavations and Determinations of Significance, 18 Sites in the Grapevine Specific Plan Area

PHASE II TEST EXCAVATIONS AND DETERMINATIONS OF SIGNIFICANCE, 18 SITES IN THE GRAPEVINE SPECIFIC PLAN AREA, KERN COUNTY, CALIFORNIA

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Table 1.1 Tested Sites 1

LIST OF ABBREVIATIONS

amsl	Above mean sea level
BRM	Bedrock mortar
CCS	Cryptocrystallate silica
CHL	California Historical Landmark
CEQA	California Environmental Quality Act
cm	Centimeters
cmbs	Centimeters below ground surface
CO	Conical mortar hole
CRHR	California Register of Historical Resources
CU	Collection Unit
GPA	Grapevine Planning Area
I-5	Interstate 5
m	Meters
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
SHL	State Historic Landmark
STP	Shovel test pit
YBP	Years before present

EXECUTIVE SUMMARY

An intensive Phase I survey/Class III archaeological inventory was conducted for the 8,010-acre Grapevine specific plan area, Kern County, California, by ASM Affiliates, Inc., during 2013 - 2014. This study documented a total of 140 previously or newly recorded cultural resources. These include 65 archaeological sites consisting of two historical Native American villages, 14 bedrock mortar (BRM) stations with surface artifacts and/or other surface features, 41 BRM stations, three multicomponent (historical and prehistoric) sites, four historical (Euro-American) sites, and one site of unknown age and cultural affiliation. The total also includes 75 isolated features, 72 of which are small/ephemeral bedrock mortars.

As proposed, the development within the specific plan area would preserve 96 (69%) of the resources in open space (46 sites and 50 isolated features). A total of 44 resources are located within the proposed development area; 25 of these are isolated features and 19 are archaeological sites. The isolated features do not constitute unique resources following CEQA. One of the 19 archaeological sites is a historical oil well that lacks integrity and is therefore not significant or unique.

Phase II test excavations and determinations of significance for the remaining 18 sites within the development area were conducted and are reported here. These sites are designated TP-SITE-04, -06, -07, -08, -09, -10, -14, -15, -16, -17, -18, -19, -53, -55, -56, -57, -60, and -61. The study was undertaken to provide compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended. This project involved the completion of background studies, fieldwork including mapping, surface artifact collecting and test excavations, and analyses of the recovered artifact assemblages.

Seventeen of the 18 sites were bedrock mortar (BRM) stations. All but five of these lacked subsurface deposits, temporally diagnostic artifacts, chronometrically-dateable materials, and associated surface artifacts or other kinds of archaeological features. Three of the BRM stations (TP-SITE-15, -17 and -18) had associated cupules, two of which (TP-SITE-15 and 17) also had a single associated lithic artifact on the ground surface. Site TP-SITE-08 had two associated surface prehistoric artifacts, while TP-SITE-57 had a single piece of debitage (stone tool waste) associated with its BRMs. The eighteenth site, TP-SITE-60, was a rock cairn that proved to be recent in age, based on radiocarbon dating.

None of the evidence recovered from TP-SITE-04, -06, -07, -08, -09, -10, -14, -16, -19, -53, -55, -56, -57, -60, and -61 can be associated with known events or specific persons (California Register of Historic Resources [CRHR] Significance Criteria A and B), nor are any of these 15 sites distinctive in a fashion that would qualify them for listing under Criterion C. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that these sites lacks research potential and are thus not eligible under Criterion D. Based on these facts and circumstances, these 15 sites are recommended as not CRHR eligible, significant or unique.

The presence of cupules at TP-SITE-15, -17 and -18, potentially created during girls' puberty initiations, however, suggests that these sites may have Native American heritage value. In light

of this possibility, these three sites are recommended as significant. As a Project Design Feature (PDF), potential adverse impacts to these three significant sites will be mitigated by their preservation in-place.

1.0 INTRODUCTION

This report presents the results of Phase II test excavations and determinations of significance at 18 archaeological sites (Table 1.1; Figure A1, Confidential Appendix A) in the proposed development portion of the Grapevine Specific Plan Area, Tejon Ranch, Kern County, California (Figures A2 and A3, Confidential Appendix A). This study was conducted by ASM Affiliates, Inc. with David S. Whitley, Ph.D., RPA, serving as principal investigator and field director, assisted by Jena Rizzi, B.A., and Steven Moore, B.A., crew chiefs, with Colin Rambo, B.A., Robert Azpitarte, B.A., Catie Reagan, B.A., and Michael Huerta serving as archaeological field technicians. Gloria Montes Morgan, representing the Tejon Indian Tribe, served as the Native American monitor and tribal liaison for the project. The test excavations were undertaken to assist in compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended; specifically to determine whether any of the sites are historically significant or unique. Fieldwork for the project was completed during Fall 2013 and Winter 2014.

This report includes site descriptions, research objectives and methods, testing results, interpretations, and final recommendations for these cultural resources. It is organized in five chapters. Following a description of the regulatory context for the project, Chapter 2 provides the environmental and cultural background for the study. Chapter 3 identifies the management goals, eligibility considerations and research design. Chapter 4 describes the field methods and results for each site. The final chapter presents the project conclusions, significance and eligibility evaluations of the sites, and recommendations for further actions.

Table 1.1 Tested Sites

Site ID #	Description
TP-SITE-04	Multi-component site: ostrich farm historical site with BRMs
TP-SITE-06	BRM station
TP-SITE-07	BRM station
TP-SITE-08	BRM station and 2 surface artifacts
TP-SITE-09	BRM station
TP-SITE-10	BRM station
TP-SITE-14	BRM station
TP-SITE-15	BRM station with cupules and 1 flake
TP-SITE-16	BRM station
TP-SITE-17	BRM station with cupules and 1 flake tool
TP-SITE-18	BRM station with cupules
TP-SITE-19	BRM station
TP-SITE-53	BRM station
TP-SITE-55	BRM station
TP-SITE-56	BRM station
TP-SITE-57	BRM station and 1 flake
TP-SITE-60	Cairn
TP-SITE-61	BRM station

1.1 REGULATORY CONTEXT

CEQA is applicable to discretionary actions by state or local lead agencies. Under CEQA, lead agencies must analyze impacts to cultural resources. Significant impacts under CEQA occur when "historically significant" or "unique" cultural resources are adversely affected, which occurs when such resources have been altered or destroyed through project implementation. Historically significant cultural resources are defined by eligibility for or by listing in the California Register of Historical Resources (CRHR). In practice, the federal National Register of Historic Places (NRHP) criteria for significance applied under Section 106 (below) of the National Historic Preservation Act (NHPA) are generally (although not entirely) consistent with CRHR criteria (see PRC § 5024.1, Title 14 CCR, Section 4852 and § 15064.5(a)(3)).

Significant cultural resources are those archaeological resources and historical properties that:

(1) Are associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

(2) Are associated with the lives of persons important in our past;

(3) Embody the distinctive characteristics of a type, period, region, or method of construction, or represent the work of an important creative individual, or possess high artistic values; or

(4) Have yielded, or may be likely to yield, information important in prehistory or history.

Unique resources under CEQA, in slight contrast, are those that represent:

> [A]n archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:
>
> (1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
>
> (2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.
>
> (3) Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC § 21083.2(g)).

Preservation in place is the preferred approach under CEQA for mitigating adverse impacts to significant or unique cultural resources. Mitigation through salvage excavations (data recovery) may also be considered appropriate if research value is the primary significance of a resource.

Section 106 of the NHPA is applicable to federal undertakings, including projects financed or permitted by federal agencies, regardless of whether the activities occur on land that is managed by federal agencies, other governmental agencies, or private landowners. NHPA Section 106 may be applicable to the project due to future potential U.S. Fish and Wildlife Service or U.S. Army Corps of Engineers permitting requirements. The purpose of Section 106 is to determine whether adverse effects occur to significant cultural resources, defined as "historic properties" that are

listed in or determined eligible for listing in the NRHP. The criteria for NRHP eligibility are defined at 36 CFR §60.4 and include:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that:

(a) Are associated with events that have made a significant contribution to the broad patterns of our history; or

(b) Are associated with the lives of persons significant in our past; or

(c) Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

(d) Have yielded or may be likely to yield, information important in prehistory or history.

Ordinarily cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered NRHP. However, such properties will qualify either if they are integral parts of districts that otherwise meet the criteria, or if they fall within the following categories:

(a) A religious property deriving primary significance from architectural or artistic distinction or historical importance; or

(b) A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or

(c) A birthplace or grave of a historical figure of outstanding importance, if there is no appropriate site or building directly associated with productive life.

(d) A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or

(e) A reconstructed building when accurately rendered in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or

(f) A property primarily commemorative in intent, if design, age, tradition, or symbolic value has invested it with its own exceptional significance; or

(g) A property achieving significance within the past 50 years, if it is of exceptional importance. (http://www.achp.gov/nrcriteria.html)

1.2 PROJECT DESIGN FEATURES (PDFS)

As planned, the proposed project includes 3,232 acres of dedicated and retained open space and exclusive agricultural land uses. A total of 140 cultural resources were identified within the 8,010-

acre specific plan area during the Phase I survey/Class III inventory. Dedicated and retained open-space will result in the passive preservation of 90, or 64%, of these resources. This includes 46 of the 65 prehistoric and historical archaeological sites (71%), and 44 of the 75 feature isolates (59%). Included in the preserved sites is CA-KER-810, a historical Native American village that is a component of the Sebastian Indian Reserve Discontiguous Archeological District, which is listed on the CRHR, was determined NRHP eligible by the California Historical Resources Commission at the State level of significance, and has been designated as California State Historical Landmark (CHL) #133. Also included is Rose Station, a historical (Euro-American) site designated CHL #300.

The current Phase II test excavations determined that three sites within the development area, designated TP-SITE-15, -17 and -18, are significant. Each of these sites consists of a single boulder with cupules (ground cups), potentially created during young girls' puberty initiations. Each of these sites lacks a subsurface archaeological deposit, with site sizes limited to the dimensions of the boulders, all less than 10 feet in diameter. As a Project Design Feature (PDF), potential adverse impacts to these three significant sites will be mitigated by their preservation in-place, in pocket parks or similar appropriate open-space areas.

2.0 SETTING AND BACKGROUND

2.1 ENVIRONMENTAL SETTING

The Grapevine Specific Plan Area is located in the southern end of the San Joaquin Valley and the foothills of the Tehachapi Mountains, Kern County, California (Figures E1 and E2). The 18 sites evaluated during the current project are located within the San Joaquin Valley portion of the specific plan area, which ranges in elevation from roughly 1,000 to 1,300 feet above mean sea level (amsl), with elevation sloping gradually upwards from north to south. While this area may be generally characterized as "open flats," outside of leveled fields and orchards it is better described as an uneven plain consisting of extensive alluvial fans, debris flows and over-bank deposits. The debris flows and deposits spread outwards from the primary drainage within the plan area, Grapevine Creek near its western side, and, to a lesser degree, from Live Oak Canyon, near the center of the plan area, and Pastoria Creek, at the plan area's eastern boundary. Tecuya Creek, outside of the plan area, is also a possible source for alluvial deposits along its westernmost side. These deposits contain surface exposures of boulders, cobbles, and gravel intermixed with coarse sandy alluvium and colluvium, and generally reflect a high energy depositional environment. Lithic clasts within the boulder and cobble concentrations reflect the geological complexity of the northern front of the Tehachapis, and include grano-diorite, limestone, basalt, sandstone, conglomerates, and breccias.

Vegetation on the valley floor is predominated by modern cultigens and other introduced species, such as Russian thistle (tumbleweed; Salsola tragus) and grasses, but also includes cheatgrass (Bromus tectorum) and doveweed (Croton setiger). Historically, however, this area was most likely covered by the Valley Grassland community (Schoenherr 1992:520-521). This was dominated by perennial bunchgrasses such as needle-grasses (Stipa spp.), triple-awned grasses (Aristida spp.), bluegrasses (Poa spp.), and rye grasses (Elymus spp.), as well as annual grasses, herbs, and geophytes. Adjacent areas include row crops and grape vineyards as well as walnut, almond, and pistachio orchards (Whitley 2013).

All 18 of the sites tested during this study lie within the proposed Grapevine development area. This area is currently being used for grazing with vegetation primarily limited to non-indigenous grasses.

2.2 CULTURAL BACKGROUND

Background to the Tejon Ranch, including the specific plan area, has recently been synthesized by Whitley (2013), Whitley and Andrews (2011), and Whitley et al. (2011). The following summary is taken from these sources.

2.2.1 Ethnographic Background

The Tejon Ranch region was a contact point between five separate ethnolinguistic groups immediately prior to the arrival of Euro-Americans in California: the Kawaiisu, Tataviam, Southern Valley Yokuts, Interior Chumash, and Haminat-Kitanemuk. The last three of these groups lived within or in the general vicinity of the specific plan study area.

Interior Chumash (probably speakers of Ventureño Chumash) lived on upper Piru Creek, in Grapevine and Tecuya canyons, and in the Gorman area. Their villages extended to the eastern shore of Tejon (Castac) Lake on the Tejon Ranch, where the historic village of Kashtiq was located, and south to Quail Lake, known in Chumash as Shraqang. They also occupied a village at the mouth of Grapevine Canyon, Mat'apxwelxwel, and another, Tecuya, at the mouth of Tecuya Creek to the west.

Otherwise, the San Joaquin Valley floor was occupied by the Southern Valley Yokuts, with the Yauelmani Yokuts extending farthest to the southeast into the Tejon Ranch. The Yokuts are Penutian speakers, and thus are linguistically related to other occupants of the Central Valley. Yokuts villages apparently extended up to, but not into, the mouths of the canyons on the northern front of the Tehachapi Mountains.

The Kitanemuk occupied the south and central “heart” of the Tehachapi Mountains and the adjacent northwestern end of the Antelope Valley. These are speakers of the Serran branch of the Takic branch of the Uto-Aztecan language stock, and they are sometimes referred to as Haminat. They were closely related linguistically to other Serran Takic groups, such as the Serrano proper and Vanyume, who lived along the northern front of the Transverse Ranges. The Kitanemuk, however, probably did not extend down onto the San Joaquin Valley floor, which was occupied by the Yokuts. The westernmost Kitanemuk occupation appears to have fallen between Tunas and El Paso creeks, judging from known village locations, with most of their villages found further east and south.

The specific plan study area thus falls in a contact zone between the Kitanemuk, Yokuts, and Chumash. Despite the apparent ethnolinguistic distinctions between these three groups (as well as the others that also inhabited parts of the Tejon Ranch more generally), their lifeways were in many instances similar; reflecting widespread adaptive patterns in south-central California, as well as a deep and shared series of cultural traditions.

The Chumash, for example, followed a hunting-gathering-fishing subsistence pattern that incorporated a heavy reliance on maritime resources, including pelagic and littoral fish, and shellfish -- at least for groups living along the coast. Indeed, the bountiful sea resources that they exploited may have been a key factor in their evolutionary success: at the time of the arrival of the Spanish, the Chumash had reached levels of population density and complexities in social organization unequaled worldwide by other non-farming groups. These included permanent coastal villages along the Santa Barbara Channel area containing as many as 1,000 inhabitants, as well as a hierarchical sociopolitical organization consisting of at least two major chiefdoms. Further, based on recent reconstructions using mission registers, the Chumash appear to have had a matrilocal, and perhaps matrilineal, clan-based society.

The Interior Chumash of course lacked direct access to the marine resources that contributed to such unusually high population densities along the Santa Barbara coastline. Adaptation to the environment was therefore more closely tied to terrestrial resources, including especially the acorn-bearing oak, with cultural patterns in general very similar to surrounding interior groups, such as the Yokuts. Notably, however, the Interior Chumash are particularly renowned for their

rock paintings or pictographs; important concentrations of which are located on the San Emigdio Ranch and the Carrizo Plain, to the west and northwest of the study area. Ethnographic information demonstrates that their cave paintings were made by shamans, and that they depict the supernatural experiences these medicine men had on their vision quests.

Ethnographic information indicates that the southern San Joaquin Valley area was occupied by the Yauelmani Yokuts. Like most Yokuts groups, the Yauelmani were organized as a recognized and distinct tribelet, a landowning group linked by their shared territory and descent from a common ancestor. The tribelet was headed by a chief who was assisted by a variety of assistants. A shaman also existed, who served as religious officer, but did not have any direct political authority in a strict sense. Like other Yokuts groups, subsistence emphasized the acorn-bearing oak, with the addition of a wide variety of other plants, fish, and game.

Less ethnographic information exists on the Kitanemuk. Like many south-central California groups, however, they were also probably organized into tribelets, with political organization and subsistence practices similar to their Yokuts neighbors.

2.2.2 Ethnohistoric and Historic Background

Spanish contact effectively started in A.D. 1772, when Pedro Fages crossed through Tejon Pass; the first of a series of early explorers visiting the region. Fages was followed by Fr. Francisco Garcés, with the de Anza expedition, who spent a week in Tejon Canyon in 1776, and Fr. Jose Maria Zaldivea, coming from Santa Barbara in 1806, who traversed Cañada de las Uvas (Grapevine Canyon). In 1827, Jedediah Smith also went through the region during his fur-trapping escapades. He was followed by John C. Frémont and his guides, Kit Carson and Alexis Godey, in 1830 and 1844 respectively. In 1847-1848, Frémont spent the winter in the Tejon Pass area.

Perhaps more important, in terms of ramifications for local Native American communities, was the establishment of the Spanish mission system starting in 1769 in San Diego. This had both direct and indirect impacts on local tribal populations in the region. Although outside the heavily missionized coastal zone, some Tejon area individuals were relocated to the missions, converted to Catholicism, and learned farming and other European crafts and skills. Other Native Americans actively resisted missionization; resulting in revolts at the missions themselves along with armed insurrections, especially in the San Joaquin Valley region. By 1824, the mission system had started to unravel. Former neophytes began to return to their ancestral villages or sought refuge outside the reach of the missions, bringing farming and other training with them.

During the latter period of Mexican control of California, from 1843 to 1846, four large land grants were awarded in the immediate area: the 26,626 acres Rancho Los Alamos y Agua Caliente ("cottonwoods and hot water"), acquired by Pedro Carillo from Governor Micheltorena in October 1843; 100,000-acre Rancho El Tejon (“the badger”), awarded to José Antonio Aguirre and Ignacio del Valle in November 1843; the approximately 22,000-acre Rancho Castac (Chumash for “spring-eye”; in Spanish “ojo de agua”) obtained by José Maria Covarrubias in 1843; and the 48,800 acres Rancho La Liebre ("the hare"), granted to José Maria Flores in April 1846.

Additionally, at this time, the San Joaquin Valley tribes were effectively in armed revolt. This accelerated in conjunction with the start of the California Gold Rush in 1848, resulting in the

movements of large numbers of Euro-Americans into the Sierra Nevada foothills, destroying Native American populations and life-ways. Euro-American incursions began roughly due east of the San Francisco Bay Area but, over time, spread progressively southward, towards the southern San Joaquin Valley, increasing pressure on the southern tribes. They resisted both Euro-American movement through and settlement into their territory and used the southern San Joaquin Valley as a staging ground for raiding cattle ranches in the Los Angeles Basin and central coast.

Likely as a result of both remote location and instability in the area, the Mexican land grants were all but unused by their grantees. A small, short-lived ranch was established on Rancho El Tejon by an employee of del Valle, but this appears to have had little appreciable impact. As a result, other Euro-Americans either assumed the lands were unclaimed and open to settlement, or knew about the land grants but paid them little heed. For example, Dr. Darwin French set up a ranch at the mouth of Tejon Canyon in the spring of 1850. Due to Native American unrest in the region, he departed in 1851, subsequently becoming renowned for his involvement in the exploration of the Death Valley region. Likewise, Alonzo Ridley and David McKenzie came into the Tejon region to trade with Native Americans in May 1852. Around this same time, Samuel A. Bishop moved into the area, settling on what was Rancho Castac.

To address the "Indian Problem," as it was then called, three federal commissioners were appointed in 1850 to establish treaties with the tribes. These treaties would in part include the establishment of reserved lands—reservations—for tribes to occupy in perpetuity. This formal process began in January 1851. Commissioners, accompanied by detachments of U.S. soldiers, signed eight treaties by September of that year, ostensibly creating 10 separate reserves located in the Central and San Joaquin valleys. The treaty covering the southern San Joaquin Valley, "Treaty D," was signed in Tejon Canyon and was the seventh of the eight.

Commissioner George Barbour arrived at Tejon in June 1851 with Capt. Erasmus D. Keyes and their military detachment. They established Camp Persifer F. Smith, at French's deserted rancho, at the entrance to Tejon Pass. Here they met with the assembled tribes. "Treaty D" was signed by Barbour and 29 chiefs, seven of whom were (at that time) associated with villages that would become components of the reserve, and a number of others who became prominent leaders on the reserve. From Tejon ("Texon" in the treaty; that is, the Kitanemuk chiefs) there were Vincente ("Vicente" in some accounts), Chico, Pablo, Jose Antonio, Martin, and Francisco. Another Chief Antonio signed for Uvas, the Chumash village in Grapevine Canyon, the westernmost village on the reserve. Yokuts Chief Raymundo ("Remundo") from the Bakersfield area, and Chumash Chief Emiterio ("Imiterio"), from San Emigdio to the west, were also notable signators. Vincente and Chico, two brothers, along with Pablo (also sometimes called Zapatero) played significant roles in reserve history.

"Treaty D" was intended to reserve the southern extent of the San Joaquin Valley for the signatories' tribal groups. This extended from the Kern River above modern Bakersfield across the valley for roughly 40 miles, turning along the base of the Temblors and Tehachapis south to Tejon Canyon and then north along the northwestern front of the Tehachapis to the starting point. This was in keeping with approximate sizes of other treaties. As with others, it included provisions for providing assistance, establishing farms, and fully transitioning the tribes to full-time agriculture. With this treaty, the chiefs effectively agreed to end any insurrection and find an

accommodation with the U.S. Government and the influx of Euro-Americans. It was, in a real sense, a realistic acknowledgment of the future, and it terminated over a generation of instability and violence at the southernmost end of the San Joaquin Valley.

Due to opposition from the California Congressional delegation who objected to the "loss" of valuable land for Euro-American settlement, none of the treaties were subsequently ratified by the U.S. Senate. This left the "Indian Problem" unresolved, although the tribes were not informed of this fact. In 1853, Congress authorized the creation of five 25,000-acre reserves to address the issue. Edward F. Beale, who was appointed Superintendent of Indians Affairs for California and Nevada in 1852, attempted to establish the Sebastian Military Reserve, as it was first known, following consultation with the U.S. Army commander in California. It was placed on portions of Tejon and Castac ranchos in 1853.

Although envisioned by Beale as covering 50,000 to 75,000 acres, the extent of the reserve was first established by Congress as 25,000 acres in size, and then reduced to 10,000 acres, but its boundaries were never legally mapped or defined. Federal records indicate that Beale was aware that the area of the proposed reserve was covered by Mexican land grants (Rancho El Tejon and Rancho Castac), but he believed they had been abandoned and were therefore open to federal appropriation. Beale established villages (probably on existing, pre-contact settlements) primarily at canyon mouths to provide water for farming. Chiefs were present at each of these villages and, at least initially, it was planned that they would form a kind of governing body for the reserve as a whole. As discussed below, the mouth of Grapevine Canyon contained the westernmost village on the reserve; others are known to have existed at the mouths of the Live Oak, Pastoria, Tejon, and Chanac creeks, as well as at some areas in between. The initial headquarters of the reserve was in Live Oak Canyon, within the specific plan study area, with Samuel A. Bishop as the first Indian Agent, under Beale. The reserve headquarters was subsequently moved to upper El Paso Creek, eventually becoming the original Tejon Ranch headquarters.

Beale's appointment as Superintendent and his creation of the reserve were politically controversial and soon came under attack, in part due to allegations about the misuse of government funds. He and his supporters asserted, in Beale's defense, that by 1854 the reserve contained about 2,500 Native Americans cultivating approximately 3,000 acres of wheat with 10 miles of irrigation ditches. This glowing (and hyperbolic) claim was repeated by many California newspaper articles, contributing to something of a mythology about Beale and the beginnings of the reserve that is, in full light, questionable.

Beale was replaced as Superintendent in 1854 by Thomas J. Henley who, in his first report, stated that a maximum of only 800, not 2,500, Native Americans had ever been resident at Tejon. J. R. Vineyard was Indian Agent from 1856 to 1859; he reported only 700 residents prior to an 1857 addition of Yokuts from the Tule River area, which putatively raised the population to just over 1,000, although clearly for only a short time. By 1862, the tribal population is estimated at roughly 500. It is also clear that, Beale's statements notwithstanding, the reserve never proved fully self-sufficient.

Further, as a result of U.S. land claims cases started in 1852, the private titles to the land grants underlying the reserve were perfected under U.S. law later that decade. In 1864, Congress limited

the number of reservations in California to four, and ordered all others terminated and the land sold. The Sebastian Indian Reserve, never having been formally established, was not one of the four, and in 1864, many Native Americans living on it were relocated to other reservations. Many Native Americans moved to a newly created reservation near Porterville; others stayed on what had become the Tejon Ranch, by then privately owned by Beale.

The selection of the Tejon area as a reserve was a joint decision by Beale and the U.S. Army Commander in California. It was initially called the Sebastian Military Reserve, named after William K. Sebastian, chairman of the U.S. Senate Committee on Indian Affairs. The U.S. Army constructed a fort to protect Native Americans on the reserve from exploitation by Euro-Americans and prevent raiding into the greater Los Angeles Basin by "renegades" from the Tulare County and Colorado River regions. A small detachment of soldiers was quartered initially on El Paso Creek, at the then-second reserve headquarters, circa 1853-1854. Shortly thereafter, most of the troops were shifted to the top of Grapevine Canyon in what is now referred to as the "Tejon Pass." This second fort continued in use, with a brief hiatus, until the end of the Civil War. It was reoccupied during the war because of concerns about southern sympathizers in the Kernville region, and due to the outbreak of an "Indian War" in the Owens Valley region east of the Sierra Nevada. This resulted in a little known but quite tragic episode in Native American history, which connected the reserve to the larger events of the Civil War.

Tensions had begun to develop between Euro- and Native Americans in the Owens Valley by 1861. These were caused by the Euro-American in-migration and usurpation of critical Native American resources (such as seed gathering areas) and traditional village locations at springs. They were exacerbated by the unusually bitter winter of 1861-1862, which witnessed six straight weeks of snow and rain. U.S. Army scouting expeditions were sent from Fort Tejon, and Camp Independence in the Owens Valley was established in 1862. These efforts to quell the unrest had little effect. In 1863, Capt. Moses A. McLaughlin, commander of Camp Independence, issued an order to "shoot on sight and show no mercy." He also adopted a policy of intentionally destroying cached food supplies recognizing that, by winter, the loss of reserves would cause the tribes to surrender. During May 1863, four soldiers in Company L alone destroyed 300 bushels of stored seeds in the Bishop Creek vicinity; the results were predictable though faster than expected. Through the summer, Native American bands filtered into Camp Independence to surrender, until there were over 1,000 people under the care of the Army. This group of detainees is referred to in historical accounts as Owens Valley Indians, and thus by implication the Northern Paiute. They were in fact a mixed tribal group that included Northern Paiute and Coso Shoshone, and possibly some Southern Paiute, Kawaiisu and/or Tubatulabal. The U.S. Army apparently then made the unilateral decision for their removal to the Sebastian Indian Reserve, though it lacked the resources to accommodate the detainees.

On 11 July 1863, 70 soldiers forced 998 Native Americans to march south through Owens Valley, west across the mountains, and finally to the reserve were they were kept for approximately two months. Only about 850 of the original 998 Indians completed the 225-mile trek. Partly because the reserve was not in a position to absorb the detainees, and partly due to objections from Beale who had purchased and was now claiming ownership of Rancho El Tejon, the group was again marched on 3 October 1863 to Fort Tejon at the top of the Grapevine, and placed under U.S. Army supervision and care. In early 1864, Capt. John Schmidt, the new commander for Fort Tejon,

arrived to find the detainees in complete disarray and recommended removal of the group to the Tule Indian Reservation near Porterville. Part of the confusion and disorder evident in these U.S. Army affairs resulted from the on-going Civil War. Fort Tejon was itself abandoned in mid-August 1864, due to changing fortunes and needs with respect to the war, thus ending the sojourn of Owens Valley tribes at the reserve and Fort Tejon. It appears that the remnant detainees were simply allowed to drift back to their homes on their own recognizance or moved to the Porterville Reservation.

Following the Congressional dissolution of the reserve in 1864, the resident Native American population was successively consolidated geographically into a single location: Tejon Canyon. The traditional Native American settlement pattern, involving a nucleated village, was replaced by dispersed but small individual family homesteads or ranchos, with the occupants building adobe houses. Most of the men made the transition to the wage economy, working on the ranch as vaqueros or as agricultural field hands. In 1952, the White Wolf earthquake destroyed almost all of the adobe homes of the Native American community, and all but the Montes family moved off the ranch at that time. The settlement was abandoned in the 1960s.

Descendants of the Native American residents of the ranchería, many of whom continue to reside in Kern County, are known as the Tejon Indian Tribe. They received federal re-recognition in January 2012. The current tribal chair, Kathryn Montes Morgan, is a descendant Vincente and Chico, signators of the 1851 unratified treaty.

During the early historical period, and even though nearby Fort Tejon was, for a decade, a "major" population center in southern California (with 920 inhabitants, exceeded only by Los Angeles, with 4,385, and El Monte, with 1,004), the Tejon Ranch was still geographically remote and isolated. Granted, it was traversed by the first stage route, the Butterfield Overland mail stage established in 1858, which had stops at Lake Elizabeth, Cow Springs, Fort Tejon, and the "Sinks of the Tejon" ("Los Alamitos," below the confluence of the Tejon and Chanac creeks) on the ranch. However, the stage was something of a magnet to draw outlaws; for many years the ranch was known as the "Refuge of the Bandits," and served as a haunt for Joaquin Murrieta and Tiburcio Vasquez and their gangs. Moreover, because of various economic competitions with the directors of the Southern Pacific Railroad, the rails were routed 50 miles to the east, through Antelope Valley and Tehachapi Pass, to avoid traversing Beale's land in 1876, thus continuing the ranch's geographical isolation from other parts of southern California. Nonetheless, the overland stage route crossed the ranch through the western Antelope Valley, skirting Quail Lake before heading to Gorman Station and then Fort Tejon. It then traveled down Grapevine Canyon to Rose Station and next to the stage stop at the Sinks of the Tejon, before heading to Bakersfield.

Initially, the economic emphasis of the Tejon Ranch was on sheep, and, at its peak, over 125,000 were grazing on the ranch. It was not until the 1880s, after a number of years of drought, that cattle were introduced (although Beale had recorded the Tejon brand–the crescent and the cross–in 1865). By 1891, there were about 25,000 head of cattle and 7,500 sheep grazing on the ranch. Following Beale's death in 1893, the ranch was inherited by his son, Truxton, who completed the transition to cattle.

Truxton Beale sold the Tejon Ranch in 1912 to a Los Angeles real estate syndicate, forming the nucleus for what has evolved into the modern Tejon Ranchcorp. The size of the ranch was increased to 281,000 acres through a series of strategic purchases. Because cattle did not immediately prove profitable, sales of various rights-of-way to public utilities initially aided the company's cash flow. More recently, the ranch operated in part by leasing acreage to various farming, oil, and cattle interests. By 1957, 70% of the land on the Tejon Ranch was operated under lease.

Today, large-scale farming, oil and gas extraction, mining, and cattle grazing continue on the ranch, overseen by the ranch headquarters at the top of Grapevine Canyon, and subject to the Tejon Ranch Conservation and Land Use Agreement signed in 2008, which preserves approximately 240,000 acres of the ranch in open space in perpetuity. The portions of the ranch in the specific plan area include large areas used for agriculture and grazing.

2.2.3 Archaeological Background

The Tehachapi Mountains/southern San Joaquin Valley region, remote from other portions of California, has received minimal archaeological attention compared to other areas of the state. In part, this is probably due to the fact that the majority of California archaeological work has concentrated in the Sacramento Delta, Santa Barbara Channel, and Mojave Desert areas. Although our knowledge of the prehistory of this region is therefore limited in specific details, enough is known to conclude that the archaeological record is broadly similar to central and especially south-central California as a whole (Rosenthal et al. 2007; Siefkin 1999). Summarizing from Whitley (2005), the general prehistory of the study area can be outlined as follows.

Initial occupation of the region occurred at least as early as the Paleoindian Period, or prior to about 10,000 years before the present (B.P.). Evidence of this early use of the region has been revealed by the repeated discovery of characteristic fluted and stemmed points found around the margins of Tulare and Buena Vista lakes, in the foothills of the Sierra, and in the Mojave. In each case, these are locations that are many miles distant from the study area. These finds suggest a terminal Pleistocene/early Holocene lakeshore adaptation similar to that found in other portions of the Far West at this same time, although little else is known about these earliest peoples. An additional find consisting of a Clovis-like projectile point was discovered in a flash-flood cut-bank near White Oak Lodge in 1953, northeast of the study area. More recently, a similar fluted point was found near Bakersfield, while a number are now known from the Edwards Air Force Base and Boron area of the western Mojave Desert. Thus, while it has now been well-established that human occupation of the state occurred during the Late Pleistocene, little can yet be inferred about the nature and distribution of this occupation.

Substantial evidence for human occupation of California first occurs during the middle Holocene, from roughly 7,500 to 4,000 B.P. This period is known as the Early Horizon, and is sometimes alternatively referred to as the Early Millingstone along the Santa Barbara Channel. In the coastal area, the population concentrated along the shore, with minimal visible use of inland areas. Adaptation appears to have emphasized hard seeds and nuts, with tool-kits dominated by mullers and grindstones (manos and metates). Minimal evidence of Early Horizon occupation has been found in most inland portions of the state. In part, this is due to a severe cold and dry paleoclimatic period that occurred at this time. Evidence for an Early Horizon occupation of the inland region is

limited, and primarily consists of some early dates from the west side of Buena Vista Lake, to the northwest (Rosenthal et al. 2007).

Perhaps not surprisingly, Phase II test excavations for the Tejon Mountain Village project, south of the current study area, failed to find evidence of Early Horizon occupation in the Tehachapi Mountains, although it is possible that some use of the area occurred that left no visible archaeological trace (Whitley 2005). Furthermore, the lack of evidence for Early Horizon occupations at the base of subsequent later (Middle Horizon, see below) deposits indicates that, even if there was an Early Horizon use of the area, it was culturally discontinuous with the subsequent occupants of the Tehachapis. Regardless of specifics, it is clear that overall Early Horizon population density was low in interior south-central California, and, if any kind of occupation and specialized subsistence adaptation existed, it was probably tied to plant food gathering rather than hunting.

Environmental conditions improved dramatically after about 4000 B.P., during the Middle Horizon (or Intermediate Period). This period is known climatically as the Holocene Maximum, and it was characterized by significantly warmer and wetter conditions than had been experienced previously (or than occur today). It was marked archaeologically by a large population increase and radiation into new environments along the south-central California coast, the southern Sierra Nevada, and the Mojave Desert (Whitley et al. 2007). In the Sacramento Delta region to the north, this same period of favorable environmental conditions was marked by the appearance of the Windmiller culture, which exhibited a high degree of ritual elaboration (especially in burial practices) and perhaps even a rudimentary mound-building tradition. Along with ritual elaboration, Middle Horizon times experienced increasing subsistence specialization, perhaps correlating with the appearance of the acorn-processing technology. Penutian-speaking peoples (including the Yokuts) are also posited to have entered the state roughly at the beginning of this period and, perhaps, to have brought this technology with them. Likewise, the so-called “Shoshonean Wedge” in southern California, or the Takic-speaking groups that included the Gabrielino/Fernandeño, Tataviam, and Kitanemuk, appear to have moved into this region at about this time (Sutton 2009).

Evidence for Middle Horizon occupation of the Upper Santa Clara/Agua Dulce region, in Tataviam territory 50 miles south of the Tehachapis, is substantial, in that it has been found at a number of sites and has been based on radiocarbon, obsidian hydration, and typological dating. The Agua Dulce village complex, located to the southeast of the study area, for example, includes occupation extending back to the Middle Horizon, at which time the population of the village may have been 50 or more people. Similarly, the inhabitation of the Hathaway Ranch region, near Lake Piru, and on Newhall Ranch, near Valencia, appears to have begun during the Middle Horizon. To the northwest, there is minimal evidence for pre-Middle Horizon occupation in the upper Sisquoc and Cuyama River drainages and on the Carrizo Plain, but population expanded very rapidly immediately thereafter (Whitley et al. 2007).

Phase II test excavations for the Tejon Mountain Village project, in the mountains south of the current project,involved a study of 33 sites. This demonstrated a substantial Middle Horizon occupation in the Tehachapis; all tested habitation sites included at least some deposit from this period, and some of the villages were only inhabited at this time. The existing evidence now suggests that a similar pattern occurred in the inland Ventura County region, as well as possibly in

the Antelope Valley and western Mojave Desert, the southern Sierra Nevada, and the Coso Range region. In all of these areas, a major expansion in settlement, the establishment of large site complexes, and an increase in the range of environments exploited appear to have occurred sometime roughly around 4,000 years ago. Although most efforts to explain this expansion have focused on very local circumstances and events, this was a major Southern California-wide occurrence (Whitley et al. 2007).

The beginning of the Late Horizon is set variously at 1500 and 800 B.P., although a consensus seems to be growing for the shorter chronology for this time period. Regardless of specific date, the appearance of the Late Horizon correlates with another series of periodic droughts at circa A.D. 800-1200 which decimated major portions of western North America. This is known, climatically, as the Medieval Climatic Anomaly, followed by the Little Ice Age, and this general period of climatic instability extended to about A.D. 1860. In much of inland south-central California, the Carrizo Plain, and the Mojave Desert, a large-scale abandonment of sites occurred approximately at the start of this period. For the ancestral Chumash, this appears to correlate with an increase in coastal populations, suggesting a shift from inland to seashore occupation rather than a drop in total numbers of people. Along Buena Vista Lake, to the northwest of the study area, population appears to have been increasingly concentrated towards the later end of the Medieval Climatic Anomaly (Culleton 2006).

Based on the results of the Phase II testing for the Tejon Mountain Village project, however, the Late Horizon circumstances did not result in wide-spread abandonment of the Tehachapi Mountains (Whitley 2005). This area is unusually well-watered and probably was not subjected to the same degree of desiccation as occurred elsewhere in interior south-central California. Some Middle Horizon villages were abandoned before the start of the Late Horizon, but those sites with Late Horizon occupation appear to have been more intensively occupied during the last 1,000 years, and no significant population change has yet been identified. The Tehachapis experienced intensification rather than the abandonment seen in surrounding areas during the last millennium. Regardless of regional circumstance, the ethnographic Native American tribes and conditions are recognized as a direct outgrowth of the Late Horizon occupations of this portion of south-central California.

3.0 MANAGEMENT OBJECTIVES, SIGNIFICANCE CONSIDERATIONS, AND RESEARCH DESIGN

The purpose of this current project was to determine whether any or all of the 18 sites qualify as significant or unique cultural resources, following CEQA and the CRHR/NRHP eligibility criteria and, based on the results of the evaluation, to provide management recommendations for the sites, including potential mitigation measures if the sites were determined significant.

Three major objectives guided the investigation:

(1) To determine whether surface and/or subsurface archaeological deposits are present at the sites and, if so, to define their size and depth, and document the presence or absence of any natural strata, the diversity and characteristics of the cultural materials, and where possible, their chronological placement.

(2) If present, to determine if the cultural deposit(s) possesses the integrity and the informational content to address questions important to prehistory or history, thus establishing the site(s) as eligible for CRHR listing under criterion D, or if they meet any of the other CRHR eligibility criteria.

(3) To determine if, in consultation with Native American monitors, artifacts or features of special heritage importance, such as human remains, are present.

3.1 SIGNIFICANCE CONSIDERATIONS

This project involved 18 sites presenting similar issues with respect to significance evaluations. Sites TP-SITE-04, -06, -07, -09, -10, -14, -16, -19, -53, -55, -56, -57, and -61 are all bedrock mortar (BRM) stations lacking associated surface artifacts. Site TP-SITE -08 had two associated surface artifacts; TP-SITE-57 had a single associated piece of lithic debitage. TP-SITE-15, -17 and -18 had cupules in addition to BRMs, with TP-SITE-15 and -17 also including a single associated surface artifact. The testing of these sites was directed towards determining if a subsurface prehistoric component existed and, if so, what the nature of the remains were at each location.

TP-SITE-60, in contrast, is a rock cairn lacking any surface artifacts, thereby initially making it unclear whether it was prehistoric/Native American or historic/Euro-American in age. Evaluation of this site was intended to determine its age and possible function, and the potential significance implications, if any, therefrom.

3.2 RESEARCH DESIGN

The evaluation of cultural resources and their recovered scientific data occur within the context of research programs that are designed to advance knowledge concerning particular aspects of prehistory and history. One purpose of significance testing is to determine whether a site has research potential; hence it cannot be fully anticipated whether or not sufficient evidence is present at previously untested sites to resolve research problems. Fundamental to the understanding of any site, and the determination of its research potential, are data on its chronological position and

function. The absence of such information may severely limit the research value of a site. The basic research question for each tested site, accordingly, is whether or not it contains temporally diagnostic artifacts or chronometrically datable materials, and therefore whether it can address chronological questions involving change over time. Absent site chronological information sites may not yield important scientific information or such information may be limited in value.

Despite this initial ambiguity concerning site research potential, general regional research domains can be identified and used to guide evaluation efforts. Given the nature of 17 of the 18 sites evaluated during this study, these emphasize the function of the sites; specifically, the research importance of bedrock mortars, and their implications for plant processing and settlement and subsistence patterns.

Substantial previous research has been conducted in the southern Sierra Nevada and western Sierra foothills (Hector et al. 2008; Jackson 1984) as well as areas surrounding the southern San Joaquin Valley (Robinson 2010, 2011; W&S Consultants 2004). These studies have identified a large number of BRM sites in varying geographic contexts. An understanding of the distribution of these prehistoric sites can assist in developing models of prehistoric settlement and subsistence patterns. Jackson (1984), working in the southern Sierra Nevada, identified a distribution pattern based on elevation for BRM sites containing 14 or more BRMs with associated lithics or midden. He used this pattern to develop a predictive model that could assist in future investigations. The importance of certain associated artifacts and features with BRMs has also been studied. Robinson (2010, 2011) examined the association of pictographs with BRM sites in the San Emigdio Hills, arguing that there was more than a coincidental link between the two.

With the exception of three sites, all sites in the current evaluation lacked surface artifacts, but all held a potential for subsurface remains. The presence or absence of subsurface deposits can inform an interpretation of site function (i.e., special-use or multi-function) and, sometimes, provide datable material that can be used to develop site chronology. For this project, research therefore focused on excavation of high potential areas within each site. The evaluation of these sites, in conjunction with distributional information from the remaining unevaluated sites from the Grapevine area, can assist in developing regional settlement pattern models for the southern San Joaquin Valley. The intent was to determine as much as possible concerning the age and function of the sites, and how the distributional pattern within the Grapevine Specific Plan Area compared to other portions of the Sierra Nevada and Southern San Joaquin Valley.

Specific research questions addressed in this study, accordingly, are the following:

- Are chronological materials present that are for site dating and, if so, what temporal patterns in site use do they reveal?
- Are the tested sites multi-functional or single activity areas?
- How do the size and nature of the sites compare to similar regional bodies of data, and what does this imply about plant exploitation and subsistence practices locally and in the southern Sierra Nevada region more generally?

4.0 FIELD METHODS AND RESULTS

This project involved 18 sites, 17 of which presented similar issues with respect to significance determinations. Similar field methods, accordingly, were employed at each site, with slight variations due to size differences. All sites are typical of the cultural resources in the Tehachapi Mountains and Southern San Joaquin Valley area, and the standard field approach used in the region was employed at each.

4.1 FIELD METHODS

While field methods varied slightly at each of the 18 tested sites, procedures at all sites involved:

- Photographic and metric documentation of the features (BRMs, cupules, rock cairn);
- GPS mapping of site boundaries, any surface artifacts, features, excavation unit, and shovel test pits, using a Trimble Geoexplorer unit with sub meter accuracy;
- Hand excavation of at least two 25-centimeter (-cm) diameter shovel test pits (STPs), in approximately 20-cm levels;
- Hand excavation of at least one 1-x-1-meter (-m) test unit, in 10-cm arbitrary levels;
- Dry screening of all removed soils from the STPs and the test units, using 1/8-inch mesh;
- Categorization of bedrock mortars by depth as follows: deep (>6 centimeters), moderate (3-6 centimeters), and shallow (<3 centimeters);
- Collection of artifacts and archaeological indicators, by excavation level, from the STPs and test units, if present, followed by cataloging, analysis and eventual curation by the Tejon Indian Tribe; and
- Soils-stratigraphic recording and analysis, with depth measurements taken from the surface and recorded as centimeters below surface (-cmbs).

With only a few exceptions (due to unusual field conditions), the excavation of test units and STPs was continued through at least 20-cm of culturally sterile soil. At least one STP on each site was excavated to 50-cm depth, to ensure that lower-lying archaeological deposits were not present.

As the discussions below demonstrate, no subsurface archaeological deposits were identified at any of the 18 sites, a circumstance that has implications for the definition of site boundaries (see Confidential Appendix B, updated site records). In cases where sites consist of a single boulder feature (BRMs and/or cupules), that boulder is effectively the site boundary. Where a site includes multiple boulder features, the boundary is a line connecting each of the boulder features.

4.2 FIELD RESULTS

4.2.1 TP-SITE-04

TP-SITE-04 was originally recorded as a multi-component site consisting of a prehistoric BRM station, coincidentally located within the historic Tejon Ranch ostrich farm complex (Figure A4, Confidential Appendix A). According to Bailey (1957:74-75), the ostrich farm encompassed 160 acres within the ranch. It was in operation from about 1907 until 1924 and had almost 200 birds, used for their plumage. The historical component of the site had been demolished/bulldozed, lacked integrity and is therefore not significant. Phase II testing was restricted to the prehistoric component of the site.

This site is located on the open flats of the San Joaquin Valley floor, at an average elevation of 1,330 feet (405-m) amsl. Vegetation consists of cheatgrass, vinegar weed, doveweed, and numerous introduced trees (palm, eucalyptus, and tamarisk), which were likely planted during the operation of the farm. The prehistoric component of this site consists of a single BRM station containing two shallow conical mortars (CO), situated on a large gray granite boulder (Figure E3). No prehistoric artifacts were observed at the site, although a litter of very fragmentary historical artifacts is present, due to the bulldozing and demolition of the ostrich farm facilities.

Test Excavations

One 1-x-1-m test unit and two STPs were excavated within TP-SITE-04. The unit (CU1) and STPs (STP1 and STP2) were placed in the south-central portion of the site just west of the BRM station. Soil conditions are uniform across the site, consisting of an A Horizon of medium brown silty alluvium with approximately medium density subangular to subrounded gravels capped by a thin O Horizon of decomposing grass, weeds, and cow excrement. The A Horizon is consistently Munsell yellowish brown (10YR 5/4) across the site while the O Horizon is Munsell dark grayish brown (10YR 4/2). Bioturbation in the form of rodent disturbances and the effects of bulldozing/grading were evident in CU1.

STPs

Two 25-cm diameter STPs were excavated at TP-SITE-04 west of the BRM. STP1 was placed approximately 6.5-m northwest of the BRM station and was excavated to a depth of 50-cmbs before termination due to lack of artifacts. STP2 was placed approximately 15-m south of STP1 and approximately 10-m southeast of the BRM station. STP2 was excavated to a depth of 20-cmbs before termination due to lack of artifacts. Soil in the two STPs was consistently a medium brown alluvial silt with approximately 20-30% gravels. Neither STP revealed any intact subsurface deposits, prehistoric or historic in age.

Test Excavation Unit

CU1 was placed approximately 4-m east of the BRM station. A thin O Horizon (<5-cm) of decomposing grasses and weeds transitioned to an A Horizon of silty alluvium that continued until the unit was terminated. Level 1 (0-10-cmbs) contained a mix of highly fragmented historic artifacts, including brown and clear glass fragments from both bottles and dishes; porcelain sherds (Chinese blue transferware and Franciscan apple pattern flatware); numerous round nails; five

small to large cut square nails; one burned large mammal bone (likely pig or cow); and one possible ostrich eggshell fragment. These artifacts are similar to those fragments present on the surface and they reflect the grading of the ranch structures, including disturbance of the soil, and subsequent bioturbation. Levels 2 (10-20-cmbs) and 3 (20-30-cmbs) contained significantly fewer historic artifacts as well as substantial rodent disturbance. The unit was terminated at 30-cmbs with no prehistoric artifacts recovered.

The results of CU1 indicate that no intact subsurface prehistoric remains exist at the site, and that the soil at the site had been heavily disturbed by previous grading.

Based on the results of the Phase II test, the prehistoric component of TP-SITE-04 consists of a small BRM station containing two shallow COs on a single granite boulder. These are most likely the result of ephemeral or sporadic use of this location for plant processing, and indicate that the site was a special purpose location with a single function. The age of this BRM station cannot be determined due to the absence of temporally diagnostic artifacts.

4.2.2 TP-SITE-06

TP-SITE-06 is a prehistoric site consisting of three BRM stations (Figure A5, Confidential Appendix A). It is on the open flats of the San Joaquin Valley, 105 feet (32-m) north of an intermittent drainage, at 1,447 feet (441-m) amsl. Vegetation includes a moderate cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed.

The BRMs are situated along the west side of a southeast-trending drainage. BRM1 and BRM3 each have one deep CO. BRM2 has one shallow CO on a small granite boulder. No artifacts were observed at the site.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated within TP-SITE-06. The unit (CU1) and STPs (STP1-4) were spaced around the three BRM stations. Soil conditions varied across the site depending on location. Near the datum (BRM2) in the southeast corner of the site, a thin O Horizon of decomposing grasses and weeds with dispersed granite, quartz, and limestone gravels caps an A Horizon of silty alluvium with low clay and gravel content. Gravels present in the soil vary in size up to 2.5 cm in diameter with occasional cobble- or boulder-sized clasts. Elsewhere in the site the A Horizon consists of medium compact silty alluvium with low clay and low to medium gravel content. This is Munsell yellowish brown (10YR 5/4).

STPs

Four STPs were excavated in various spots surrounding the BRM stations, with BRM2 serving as the site datum. STP1 was placed approximately 23-m west of the datum. It was excavated to a depth of 50-cmbs before termination due to lack of artifacts. STP2 was placed approximately 13-m north of the datum and was excavated to a depth of 20-cmbs before termination due to lack of artifacts. STP3 was placed approximately 35-m northeast of the datum and was similarly excavated to a depth of 20-cmbs before termination due to sterile conditions. STP4 was placed approximately 73-m northeast of the datum and was also terminated at 20-cmbs due to a lack of artifacts. Soil from the A Horizon in STP1-4 consisted of medium compact light brown alluvial silt with low

clay and medium to low gravel content. None of the four STPs placed at the site contained any evidence of subsurface archaeological remains.

Test Excavation Unit

A 1-x-1-m test unit (CU1) was placed at TP-SITE-06 approximately four meters southwest of the site datum. A thin O Horizon (<5 cm) of decomposing grasses and weeds with dispersed gravels lay atop an A Horizon of silty alluvium with low clay content and a large ped structure. Gravel content encountered in the A Horizon was also low; however, the size of some gravels was up to 2.5 centimeters in diameter with occasional cobble- and boulder-sized clasts. Though the surface was disturbed by cattle trampling, rodents, and minimal erosion, no subsurface evidence of disturbance was noted. Two levels (20-cmbs) were excavated in CU1 due to rocks, especially a large central boulder that impeded additional excavation (Figure E4, Confidential Appendix E), and because of the absence of cultural remains of any kind.

Based on the results of the Phase II test, TP-SITE-06 consists solely of three small BRM stations containing one CO each, thereby presenting a single function, special activity area site. Given the size of the COs and the lack of surface and subsurface artifacts, it is likely the BRMs were used ephemerally, possibly only when the nearby ephemeral drainage carried water. The age of the site is unknown.

4.2.3 TP-SITE-07

TP-SITE-07 is a prehistoric site consisting of two BRM stations with a total of five mortars (Figure A6, Confidential Appendix A). The site is on the open flats of the San Joaquin Valley, 262 feet (80-m) north of an intermittent drainage, at 1,440 feet (439-m) amsl. Vegetation includes a moderate cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed, doveweed, saltbush, and chaparral broom.

The two BRMs are spaced 154 feet (47-m) apart. BRM1 contains three moderately deep COs on the surface of a large basalt boulder. BRM2 has two shallow COs on a large granite boulder (Figure E5, Confidential Appendix E). No artifacts were observed at the site.

Test Excavations

One 1-x-1-m test unit and three STPs were excavated within TP-SITE-07. The unit (CU1) and STPs (STP1-3) were spaced around the two BRM stations. Soil conditions were uniform across the site, consisting of an A Horizon of silty alluvium with moderate to heavy subangular to subrounded gravels capped by a thin O Horizon of decomposing grass and weeds with moderately dense gravels. The soil from the A Horizon is consistently Munsell brown (10YR 5/3) across the site while the O Horizon is Munsell brown-dark brown (10YR 4/3). Heavy bioturbation was observed around the base of BRM2 but otherwise disturbances were minimal.

STPs

Three STPs were excavated surrounding the BRM stations, with BRM1 serving as the site datum. STP1 was placed approximately 18-m north of BRM2. It was excavated to a depth of 20-cmbs before termination due to a lack of artifacts. STP2 was placed approximately 40-m east-northeast of the datum and was similarly terminated at 20-cmbs due to a lack of artifacts. STP3 was placed

approximately 15-m south-southwest of the datum and was excavated to a depth of 50-cmbs with no artifacts recovered. Soil from the A Horizon in STP1-3 consisted of medium compact alluvial silt with moderate to heavy gravel content. None of the three STPs place at the site revealed any evidence of subsurface archaeological remains.

Test Excavation Unit

A 1-x-1-m test unit (CU1) was placed in TP-SITE-07 approximately 25-m northwest of the site datum, equidistant with BRM2. A thin O Horizon (<5 cm) of decomposing grasses and weeds with moderate surficial gravels lay atop an A Horizon of silty alluvium with moderate gravel content which increased with depth. Minimal surface and no subsurface evidence of disturbance was observed. Three levels (30-cmbs) were excavated in CU1 before the unit was terminated due to a lack of artifacts and increasing gravel content. By the end of the third level (30-cmbs), the gravels had become predominant, inhibiting excavation, and suggesting the presence an overbank or debris flow stratum, either of which would preclude an intact archaeological deposit. All three excavation levels lacked cultural material.

Based on the results of the Phase II test, TP-SITE-07 consists solely of two small BRM stations, indicating a special activity area with a single function. Given the size of the COs and the lack of surface and subsurface artifacts, it is likely the BRMs were used ephemerally, possibly only when the nearby drainage was active. The age of the site is unknown.

4.2.4 TP-SITE-08

TP-SITE-08 is a prehistoric site consisting of two surface artifacts and 10 BRM stations (Figure A7, Confidential Appendix A). It is situated on the open flats of the San Joaquin Valley, north of an intermittent drainage, at 1,417 feet (432-m) amsl (Figure E6, Confidential Appendix E). Vegetation includes a medium cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed.

The two surface artifacts were found lying adjacent to one another alongside a small ephemeral drainage. Artifact 1 is a fragmented portable schist mortar/bowl. Artifact 2 is a quartzite scraper plane/chopper. The site contains 10 BRMs on granite, basalt, and limestone boulders, with a total of 19 mortars varying in sizes and depths. There are a total of nine shallow COs, three moderate COs, and seven deep COs. The site has experienced heavy ground squirrel and pocket gopher bioturbation.

Test Excavations

Three 1-x-1-m test units and 16 STPs were excavated within TP-SITE-08. BRM1 was used as the site datum. The first test unit (CU1) was placed in the northeastern portion of the site near BRM4 and BRM5. CU2 was set in the southern portion of the site east of BRM6. CU3 was placed south of CU2 and just south of BRM7. The 16 STPs were spread throughout the site, mainly focused on the periphery, with only STP4, 11, and 13 more centrally located.

Soil conditions were generally uniform across the site, consisting of an A Horizon of silty alluvium with minimal structure and low subangular to subrounded gravel content capped by a thin O Horizon of decomposing grass and weeds. The A Horizon is Munsell brown (10YR 5/3).

STPs

Sixteen STPs were excavated in various spots at TP-SITE-08. All STPs were placed south of the datum, from 4-m to 98-m away, and primarily around the periphery, in an effort to define the site boundary. All STPs, with the exception of STP9, were excavated to a depth of 20-cmbs before termination due to lack of artifacts. STP9 was dug to 50-cmbs before termination, again due to a lack of artifacts. Soil from the A Horizon in all STPs consisted of alluvial silt with low gravel content and minimal structure. None of the sixteen STPs placed at the site revealed any evidence of subsurface remains.

Test Excavation Unit

Three 1-x-1-m test units (CU1, 2, and 3) were excavated at TP-SITE-08. A thin O Horizon (<5 cm) of decomposing grasses and weeds lay atop an A Horizon of silty alluvium with moderate gravel content which increased with depth. CU1 was terminated at a depth of 26-cmbs with no artifacts recovered. Both CU2 and CU3 were excavated to a depth of 20-cmbs prior to termination due to a lack of artifacts.

Based on the results of the Phase II test, TP-SITE-08 does not contain a subsurface prehistoric deposit. The site appears to have been regularly used, however, based on the number and depth of the COs. The two surface artifacts, a bowl/mortar fragment and quartzite scraper plane/chopper, both commonly co-occur with plant processing tool kits (Whitley 1979), with the scraper plane particularly associated with agave processing. The combination of the BRMs and these two surface artifacts indicate that the site was a special activity area used for plant processing. The scraper plane suggests that this may have involved more plant resources than acorns alone, however. The age of the site is unknown.

4.2.5 TP-SITE-09

TP-SITE-09 is a prehistoric site consisting of six BRM stations with a total of 12 mortars (Figure A8, Confidential Appendix A). It is situated on the open flats of the San Joaquin Valley, north of an intermittent drainage, at 1,417 feet (432-m) amsl. Vegetation includes a medium cover of non-native annual grasses, cheatgrass, and dispersed vinegar weed and doveweed.

BRM1, used as the site datum, is a single granite boulder with three moderate and two shallow COs. BRM2 contains one moderate oval mortar located within the natural fissure of the granite boulder. BRM3 is located directly west of a surface pipeline and contains one shallow CO. BRM #4 is on a granite boulder with one shallow CO on the eastern tip of the boulder. BRM5 contains three shallow mortars of varying shapes on one large flat granite boulder. BRM6 contains one shallow CO. No artifacts were observed at the site.

Test Excavations

Two 1-x-1-m test units and 10 STPs were excavated within TP-SITE-09. The first test unit (CU1) was placed at the southern end of the site approximately five meters west of BRM5. CU2 was excavated in the east-central portion of the site approximately five meters northeast of the datum. The ten STPs were dispersed between the southern (STP1-5) and northern (STP6-10) areas of the site, focused on potential site boundaries.

Soil conditions are generally uniform across the site, consisting of an A Horizon with a compact ped structure of light to medium brown silty alluvium with low subangular to subrounded gravel content and occasional cobble- to boulder-sized clasts (Figure E7, Confidential Appendix E), capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels. The A Horizon is Munsell brown (10YR 5/3).

STPs

Ten STPs were excavated at TP-SITE-09. Eight of the STPs were excavated to a depth of 20-cmbs before termination due to a lack of artifacts. STP1 was dug to 50-cmbs before termination due to a lack of artifacts, and STP6 was terminated at 45-cmbs due to large rocks protruding from the walls and floor and the absence of artifacts. A Horizon soil in all STPs was compact silty alluvium with a massive ped structure and low gravel content (primarily decomposing granite) with some cobble- to boulder-sized clasts. None of the 10 STPs excavated at the site contained subsurface archaeological remains.

Test Excavation Unit

Two 1-x-1-m test units (CU1 and CU2) were excavated in TP-SITE-09. A thin O Horizon (<5 cm) of decomposing grasses and weeds with dispersed gravels lay atop an A Horizon of a massive ped structure of silty alluvium with light gravel content that increased with depth. Minimal surface and no subsurface evidence of disturbance was observed. CU1 became increasingly rocky with depth and was eventually terminated at 30-cmbs, with some pockets excavated to 35-cmbs. No artifacts were recovered from the pit. CU2 was excavated to a depth of 20-cmbs prior to termination due to a lack of artifacts and large rocks preventing further excavation.

Based on the results of the Phase II test, TP-SITE-09 does not contain a subsurface prehistoric deposit. The BRM stations at the site appear to have been used sporadically, with the lack of associated artifacts indicating that the site comprised a special activity area employed exclusively for plant processing. The age of the site is unknown.

4.2.6 TP-SITE-10

TP-SITE-10 is a small prehistoric milling complex containing three BRM stations (Figure A9, Confidential Appendix A). The site is located on the open flats of the San Joaquin Valley floor, approximately 1,082 feet (330-m) east of Grapevine Creek, at an elevation of 1,457 feet (444-m) amsl. Vegetation consists of short cheatgrass and very sparse patches of vinegar weed.

BRM1, which served as the site datum, itself consists of three boulders: Boulder 1 has one shallow CO; Boulder 2 contains two moderate COs on a comparatively larger gray granitic boulder; Boulder 3 consists of one deep CO on a small conglomerate boulder. BRM2 is a single deep CO on a small gray granitic boulder. BRM3 has one shallow CO on a small gray granite boulder. No surface artifacts were observed on the site.

Test Excavations

One 1-x-1-m test units and four STPs were excavated within TP-SITE-10. CU1 was placed in the center of the site, north of BRM2. The four STPs were placed around the periphery. Soil conditions

were generally uniform across the site, consisting of an A Horizon of a structureless silty alluvium with low subangular to subrounded gravel content that increases with depth and occasional cobble- to boulder-sized clasts, capped by a thin O Horizon of decomposing grasses and weeds with dispersed gravels. The A Horizon is Munsell yellowish brown (10YR 5/4).

STPs

Four STPs were excavated in various places around TP-SITE-10. STP1 was excavated to a depth of 50-cmbs before termination due to a lack of artifacts. STP2-4 were terminated at 20-cmbs with no artifacts recovered. Soil from the A Horizon in all STPs was structureless light to medium brown silty alluvium with low gravel content. None of the four STPs revealed the presence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated approximately two meters north of BRM2. A thin O Horizon (<5 cm) of decomposing grasses and weeds lay atop an A Horizon of a decomposing granite alluvium with low rounded to subrounded gravel content. Cattle trampling and animal burrowing were noted at the surface and bioturbation from rodent burrowing was observed throughout the A Horizon. Gravel content and size increased with depth, and some cobble-sized clasts appeared in Level 2 and 3 (10-30 cmbs) (Figure E8, Confidential Appendix E). The unit was terminated at 30-cmbs with no artifacts recovered.

Based on the results of the Phase II test, TP-SITE-10 does not contain a subsurface prehistoric deposit. The location of the BRM stations, the depth of the COs, and lack of associated artifacts indicate that the site was used sporadically, and exclusively for plant processing as a single function, special activity area. The age of the site is unknown.

4.2.7 TP-SITE-14

TP-SITE-14 is a prehistoric site consisting of one isolated BRM station (Figure A10, Confidential Appendix A). It is located west of the I-5 on the open flats of the San Joaquin Valley at 1,335 feet (407-m) amsl. Vegetation includes a low cover of non-native annual grasses, cheatgrass, vinegar weed, and doveweed. The BRM has 11 mortars (five deep and six shallow COs) on a ground-surface level, bluish-gray conglomerate boulder (Figure E9, Confidential Appendix E). No artifacts were observed at the site.

Test Excavations

One 1-x-1-m test units and two STPs were excavated at TP-SITE-14. CU1 was placed in the center of the site west of the BRM, which served as the site datum. The STPs were excavated north (STP1) and south (STP2) of CU1. Soil conditions were generally uniform across the site, consisting of an A Horizon of medium compact, structureless silty alluvium with low rounded to subrounded gravel content, capped by a thin O Horizon of decomposing grasses and weeds with dispersed gravels. The A Horizon is Munsell yellowish brown (10YR 5/4). Disturbances at the site include cattle trampling and rodent bioturbation.

STPs

STP1 and STP2 were both excavated to a depth of 50-cmbs before termination due to a lack of artifacts. Small caliche covered cobbles were uncovered in STP1 between 20-50-cmbs. Soil from the A Horizon in all STPs was medium compact, structureless yellowish brown silty alluvium with very low gravel content. Neither of the STPs placed at the site revealed any evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated approximately 2.5-m east of the site datum. A thin O Horizon (<5 cm) of decomposing grasses and weeds lay atop an A Horizon of a silty alluvium with low rounded to subrounded gravel content. Cattle trampling, animal burrowing, roots, and vehicle tracks were noted at the surface and bioturbation was observed throughout the A Horizon. Gravel content and size (up to 2.5-cm in diameter) increased with depth. The unit was terminated at 40-cmbs due to a lack of artifacts.

Based on the results of the Phase II test, TP-SITE-14 does not contain a subsurface prehistoric deposit. The location of the BRM station, the depth of the COs, and the lack of any surface or subsurface artifacts indicate that the site was used sporadically and exclusively for plant processing as a single function, special activity area. The age of the site is unknown.

4.2.8 TP-SITE-15

TP-SITE-15 is a prehistoric site consisting of a cupule boulder with associated BRMs (Figure A11, Confidential Appendix A). It lies west of the I-5 within the open flats of the San Joaquin Valley at 1,430 feet (436-m) amsl, and is 197 feet (60-m) west of a dirt road. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed.

The TP-SITE-15 cultural assemblage consists of a large grayish-green crescent-shaped boulder with all visible surfaces covered by cupules, or shallow ground cups, and mortars (Figure E10, Confidential Appendix E). This is 2.08-m by 1.19-m in size (6.8 x 4 feet). There are at least seven deep COs that follow the top ridge of the boulder, and cupules cover its sloping sides. Note that counts of the cupules and mortars are imprecise in part because it is impossible to distinguish a shallow mortar from a cupule on a horizontal or near horizontal surface, due to the degree of weathering on the cupules (discussed below), and since the boulder is partly buried, with some of the cupules apparently extending below current ground surface. A purple cryptocrystallate silica (CCS) secondary flake was recovered on the ground surface adjacent to the boulder.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-15. CU1 was placed in the center and along the north side of the cupule/BRM boulder. The four STPs were placed surrounding the BRM station, approximately 10-m away.

Soil conditions were generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4) silty alluvium with low rounded to subrounded gravel content. This was capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels.

STPs

Four STPs were excavated to the southeast (STP1), southwest (STP2), northeast (STP3), and northwest (STP4) of the cupule/BRM boulder. STP1 was excavated to a depth of 50-cmbs before termination due to a lack of artifacts. Small caliche-covered cobbles were uncovered between 40-50-cmbs. STP 2, 3, and 4 were excavated to a depth of 20-cmbs before termination due to a lack of artifacts. None of the four STPs contained evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated immediately along the north side of the cupule/BRM boulder, where some of the cupules appeared buried. A thin O Horizon (<5 cm) of decomposing grasses and weeds lay atop an A Horizon of a medium compact yellowish brown silty alluvium with approximately five percent gravel content. Level 1 (0-10-cmbs) uncovered more of the BRM boulder and approximately 14 subsurface cupules (Figure E11, Confidential Appendix E). Level 2 (10-20-cmbs) uncovered approximately 2-3 more cupules. More of the boulder was uncovered in Level 3 (20-30-cmbs) but no additional subsurface cupules were observed. The unit was terminated at 30-cmbs with the BRM boulder extending approximately 20-30% into the south end of the unit floor, where a relatively dense layer of cobbles and rocks was encountered. No artifacts or datable materials were recovered from the excavation. Gravel content remained fairly constant throughout the unit; size increased with depth, however, and pebble-, cobble- and basketball-sized clasts were present in the final level.

The presence of buried cupules is unusual, warranting brief discussion. In this case, the absence of associated artifacts or datable materials (such as charcoal) indicates that the partial burial of this feature is due to natural soils depositional processes rather than to the accumulation of a cultural-archaeological deposit (such as a midden). Cupule boulders in south-central California are most commonly found within or adjacent to villages. They were created during the ethnographic period as part of girls' puberty initiations, with each participant lightly grinding each of the cupules, thereby symbolically connecting them to all of the earlier women in the village, as well as to one of the primary women's tasks, using BRMs to grind acorns (Whitley 2000, 2006). BRMs themselves are often found in association with cupules. Because cupules are most commonly found in or near villages, when partly buried they typically occur within cultural deposits.

Given the geomorphological context of the boulder, on an alluvial fan that contains numerous other large boulders, it is unclear in this case whether the natural soil build-up that has partly buried the cupules reflects a slow accumulation process, or a single rapid storm event that transported the boulder from a village, potentially at the Tecuya Canyon mouth, outside of the study area. Notably, the boulder is visibly fractured and many of the cupules are heavily weathered, exhibiting what may represent water-wear. Alternatively, it is possible that the boulder and cupules have weathered in-place and, in the absence of datable materials, it is impossible to determine the time span that may have been involved. Given the presence of two additional cupule/BRM sites in this area (see below), the possibility that this archaeological feature may have weathered in-place seems likely.

Based on the results of the Phase II test, TP-SITE-15 does not contain a subsurface prehistoric deposit. The single piece of lithic debitage on the ground surface of the site appears to have coincidental to the original creation of the cupules. The site can be considered a multi-purpose

location, used for ceremonial and plant processing activities. Given the issues outlined above, it is unclear whether this site retains integrity of location. Its age is unknown.

4.2.9 TP-SITE-16

This prehistoric site is comprised of three BRM stations (Figure A12, Confidential Appendix A). It is situated at 1,499 feet (457-m) amsl on the open flats of the San Joaquin Valley floor, west of the I-5 corridor, and adjacent to a dirt road. Vegetation includes short cheatgrass and very sparse patches of vinegar weed.

BRM1 is a pinkish granite boulder with two shallow COs (Figure E12, Confidential Appendix E). BRM2 consists of two (possibly three) shallow COs on a small gray granitic surface-level boulder. BRM3 is a small gray granitic surface-level boulder with three shallow COs. No associated surface artifacts were observed at the site.

Test Excavations

Two 1-x-1-m test units and four STPs were excavated at TP-SITE-16. CU1 and CU2 were placed south of the datum, at BRM1. The four STPs were located in roughly cardinal directions from the datum at distances ranging from 6-m to 17-m. Soil conditions are generally uniform across the site, consisting of an A Horizon of medium compact, structureless silty alluvium with moderate rounded to subrounded gravel content capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels. Caliche-covered cobbles were also noted at 20-40-cmbs. The A Horizon is Munsell yellowish brown (10YR 5/4).

STPs

Four STPs were excavated to the south (STP1), east (STP2), north (STP3), and west (STP4) of the datum. STP1 was excavated to 50-cmbs before termination due to a lack of artifacts. Small caliche-covered cobbles were encountered between 20-40 cmbs. STP2 and 4 were excavated to a depth of 20-cmbs before termination due to a lack of artifacts. STP3 was excavated to 40-cmbs with no artifacts recovered. None of the four STPs contained evidence of subsurface archaeological remains.

Test Excavation Unit

Two 1-x-1-m test units (CU1 and CU2) were excavated in TP-SITE-16. Both units were placed south of the datum: CU1 by approximately three meters and CU2 by about 12-m. A thin O Horizon (<5 cm) of decomposing grasses and weeds lay atop an A Horizon of a medium compact light yellowish brown silty alluvium with moderate gravel content. The A Horizon in CU1 also contained small amounts of caliche and caliche-coated rocks. CU1 was excavated to a depth of 32-cmbs before termination due to a lack of artifacts. CU2 was excavated to a final depth of 20-cmbs. No artifacts were recovered. Gravel content remained fairly consistent throughout the units.

Based on the results of the Phase II test, TP-SITE-16 does not contain a subsurface prehistoric deposit. It is likely that the BRM stations were used sporadically or ephemerally for plant processing, representing a special purpose location with a single function. The age of the site is unknown.

4.2.10 TP-SITE-17

TP-SITE-17 is a prehistoric site consisting of a cupule boulder with associated BRMs (Figure A13, Confidential Appendix A). It lies west of the I-5 corridor within the open flats of the San Joaquin Valley at 1,453 feet (443-m) amsl, and is 285 feet (87-m) east of a dirt road. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed.

The TP-SITE-17 cultural assemblage consists of 6 BRMs (three moderate and three shallow COs) and 32 cupules (Figure E13, Confidential Appendix E). The BRMs follow the top ridge of the boulder, with the cupules on its eastern, heavily eroded, sloping face. Site size is 2.4m x 2.8-m (7.9 x 9.2 feet). A single CCS biface-edge (i.e., bifacially modified flake) was found on the ground surface of the site, mapped, and collected.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-17. CU1 was placed south of the BRM boulder/datum and the four STPs were spaced approximately 10-m from the datum, in roughly cardinal directions. Soil conditions are generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4), silty alluvium with low gravel content, capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels.

STPs

Four STPs were excavated to the west (STP1), north (STP2), east (STP3), and south (STP4) of the datum. STP1 was excavated to a depth of 50-cmbs before termination due to a lack of artifacts. STP2, 3, and 4 were each terminated at a depth of 20-cmbs with no artifacts recovered. None of the four STPs placed at the site revealed any evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-17. CU1 was set approximately four meters south of the datum, due to heavy cattle trampling and rubbing on the cupule/BRM boulder. It was excavated to a depth of 25-cmbs before termination due to a lack of artifacts. Gravel content remained fairly consistent throughout the unit.

Based on the results of the Phase II test, TP-SITE-17 does not contain any subsurface prehistoric deposits. The site location appears to have been used sporadically or ephemerally for plant processing. The cupules suggest that the site may have also been used for girl's puberty ceremonies, indicating multi-functional use. The single biface-edge found on the ground surface of the site appears to have coincidental to the original creation of the cupules. The age of the site is unknown.

4.2.11 TP-SITE-18

This prehistoric site is a BRM station with cupules (Figure A14, Confidential Appendix A). It is on the open flats of the San Joaquin Valley floor at an elevation of 1,516 feet (462-m) amsl. Vegetation consists of cheatgrass and sparse patches of vinegar weed.

The site consists of a single, low-lying boulder with two deep and three shallow COs, along with 17 mortars and/or cupules. Because the distribution of COs and cupules is continuous across the roughly horizontal boulder surface, it is impossible in all cases to differentiate mortars from cupules, although five ground cups on the sloping boulder side are clearly the latter. The site measures 1.4-m x 1.05-m (4.4 x 3.4 feet). No artifacts were observed at the site.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-18 (Figure E14, Confidential Appendix E). CU1 was placed along the north side of the datum (the boulder/cupule boulder), while the four STPs were located in roughly cardinal directions from the datum at distances ranging from 11-m to 31-m. Soil conditions were uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4), silty alluvium with low gravel content. This was capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels. Gravels of up to 5-cm in diameter were common in the soil.

STPs

Four STPs were excavated to the north (STP1), west (STP2), south (STP3), and east (STP4) of the datum. STP1 was excavated to a depth of 50-cmbs before termination due to a lack of artifacts. STP2 and 4 were each terminated at a depth of 20-cmbs with no artifacts recovered. STP3 was excavated down to 40-cmbs and was then terminated due to a lack of artifacts. None of the four STPs contained evidence of subsurface archaeological remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-18, placed on the north side of the BRM/cupule boulder, in order to determine whether these grinding features continued below ground. It was excavated to a depth of 24-cmbs before termination due to a lack of artifacts. Gravel content remained fairly consistent throughout the unit. No mortars or cupules were observed below the ground surface.

Based on the results of the Phase II test, TP-SITE-18 does not contain a subsurface prehistoric deposit. The BRM station was used for food processing, while the cupules suggest that the site may have also been used for girl's puberty initiations. The location was thus multi-functional. The age of the site is unknown.

4.2.12 TP-SITE-19

TP-SITE-19 is a prehistoric site consisting of two BRM stations, located about 33-m apart (Figure A15, Confidential Appendix A). They are situated at 1,575 feet (480-m) amsl on the open flats of the San Joaquin Valley floor, west of the I-5 corridor. Vegetation includes short cheatgrass and very sparse patches of vinegar weed.

BRM1 is a gray granite boulder with two moderate depth COs (Figure E15, Confidential Appendix E) and BRM2 is a blue conglomerate boulder with two shallow COs. No artifacts were observed on the surface.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-19. CU1 was placed just north of the datum (BRM1), while the four STPs were dispersed partly to obtain better subsurface coverage been the two BRM stations, and in part on the site periphery. Soil conditions were generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4), silty alluvium with low gravel content. This was capped by a thin O Horizon of decomposing grass and weeds with dispersed gravels.

STPs

Four STPs were excavated at TP-SITE-19. STP1 was excavated to a depth of 50-cmbs with no artifacts recovered. Between 20 and 40-cmbs, small caliche-covered cobbles were encountered. These cobbles increased in size between 40- and 50-cmbs before a rocky floor was encountered. STP2 and 3 were each terminated at a depth of 20-cmbs with no artifacts recovered. STP4 was excavated down to 40-cmbs and was then terminated due to a lack of artifacts. None of the four STPs revealed any evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-19. CU1 was placed approximately six meters north of the datum (BRM station). CU1 was excavated to a depth of 23-cmbs before termination due to a lack of artifacts.

Based on the results of the Phase II test, TP-SITE-19 does not contain a subsurface prehistoric deposit. It is likely that the BRM stations were used ephemerally or sporadically for plant food processing, representing a special activity area with a single function. The age of the site is unknown.

4.2.13 TP-SITE-53

TP-SITE-53 is a prehistoric site consisting of two BRM stations on granite boulders (Figure A16, Confidential Appendix A). It is located on the open flats of the San Joaquin Valley Floor, at an average elevation of 1,306 feet (398-m) amsl. Vegetation consists of cheatgrass, other non-native annual grasses, and vinegar weed. BRM1, the site datum, has one deep saucer mortar (Figure E16, Confidential Appendix E). BRM2 consists of one shallow and one deep CO. No artifacts were observed on site.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-53. CU1 was placed north-northwest of the datum while the four STPs were dispersed to obtain adequate coverage of the subsurface conditions. Soils were generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell brown (10YR 5/3), silty alluvium with decomposing granite gravels. This was capped by a thin O Horizon of decomposing grasses and weeds with dispersed gravels.

STPs

Four STPs were excavated at the site, with STP1 dug to a depth of 50-cmbs with no artifacts recovered. STP2 only reached 7-cmbs before large rocks were encountered that inhibited any further excavation. No artifacts were recovered before the unit was terminated. STP3 was terminated at a depth of 43-cmbs when large rocks were again present, with no artifacts recovered. STP4 was excavated to 20-cmbs and was then terminated due to a lack of artifacts. None of the four STPs at the site contained any evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-53. CU1 was placed approximately 21-m north-northwest of the datum (BRM station). It was excavated to a depth of 20-cmbs before termination due to a lack of artifacts.

Based on the results of the Phase II test, TP-SITE-53 does not contain a subsurface prehistoric deposit. It is likely that the BRM station was used sporadically for plant food processing, as a special activity, single function area. Its age is unknown.

4.2.14 TP-SITE-55

TP-SITE-55 is a prehistoric site consisting of a single BRM station (Figure A17, Confidential Confidential Appendix A). It is on the open flats of the San Joaquin Valley at 424 feet (129-m) amsl. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of low-lying non-native annual grasses and cheatgrass. The BRM is on a bluish-gray conglomerate boulder, and consists of four shallow COs (Figure E17, Confidential Appendix E). No artifacts were observed on site.

Test Excavations

One 1-x-1-m test unit and two STPs were excavated. CU1 was placed just west of the datum/BRM boulder and the two STPs were placed equidistant from the datum, to the north and south. Soil conditions are generally uniform across the site, consisting of an A Horizon of medium compact, structureless silty alluvium with medium gravel content, capped by a thin O Horizon of sandy soil with decomposing grass and weeds. The O Horizon is Munsell brown (10YR 5/3); the A Horizon is Munsell yellowish brown (10YR 5/4).

STPs

Two STPs were excavated approximately 10-m to the north and south of the datum/BRM boulder. STP1 was excavated to a depth of 50-cmbs with no artifacts recovered. STP2 was terminated at 40-cmbs with no artifacts recovered. Neither of the two STPs at the site contained evidence of subsurface archaeological remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-55. CU1 was placed approximately two meters west of the datum/BRM station. It was excavated to a depth of 40-cmbs before termination due to a lack of artifacts. Some caliche was encountered between 38-40 cmbs.

Based on the results of the Phase II test, TP-SITE-55 does not contain a subsurface prehistoric deposit. It is likely that the BRM station was used ephemerally for plant food processing, as a special activity area with a single function. The age of the site is unknown.

4.2.15 TP-SITE-56

TP-SITE-56 is a prehistoric site consisting of a BRM station (Figure A18, Confidential Appendix A). It is on the open flats of the southern San Joaquin Valley at 1,391 feet (424-m) amsl. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of low-lying non-native annual grasses and cheatgrass. The cultural assemblage consists of a small triangular-shaped, bluish-gray conglomerate boulder with four COs: one shallow, two moderate, and one deep. No artifacts were observed on site.

Test Excavations

One 1-x-1-m test unit and two STPs were excavated at TP-SITE-56. CU1 was placed immediately south of the datum/BRM boulder while the two STPs were placed to the north and south of the datum. Soil conditions are generally uniform across the site, consisting of an A Horizon of Munsell yellowish brown (10YR 5/4) silty alluvium with moderate to heavy gravel content and numerous cobble- to boulder-sized clasts (Figure E18, Confidential Appendix E). This was capped by a thin O Horizon of decomposing grass and weeds.

STPs

Two STPs were excavated in TP-SITE-56. STP1 was excavated approximately 10.5-m south of the datum to a depth of 40-cmbs with no artifacts recovered. STP2 was excavated approximately 16-m north-northwest of the datum and was terminated at 50-cmbs with no artifacts recovered. Some caliche was present from approximately 20-cmbs until a dense rocky lens was encountered at 50-cmbs. Neither of the two STPs excavated at the site contained any evidence of subsurface remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-56. It was placed approximately one meter south of the datum (BRM station). Gravel and numerous 15-20-cm diameter cobbles were present, increasing with depth. CU1 was excavated to a depth of 40-cmbs before termination due to a lack of artifacts and a rocky floor. Caliche was present at approximately 20-cmbs depth and continued to the bottom of the unit.

Based on the results of the Phase II test, TP-SITE-56 does not contain a subsurface prehistoric deposit. TP-SITE-56 is a special activity area with a single function. It likely was used sporadically for plant food processing, and its age is unknown.

4.2.16 TP-SITE-57

TP-SITE-57 is a prehistoric BRM station consisting of two boulders (Figure A19, Confidential Appendix A). It is on the open flats of the southern San Joaquin Valley at 1,667 feet (508-m) amsl. Vegetation includes dispersed vinegar weed, doveweed, and a medium cover of non-native annual grasses and cheatgrass. BRM1 (the site datum) contains two shallow and one moderate CO on a

surface-level limestone boulder (Figure E19, Confidential Appendix E). BRM2 has a single, shallow CO on a surface-level conglomerate boulder. A single quartzite primary flake was identified and collected on the ground surface, southwest of BRM1. Debitage of this type in low quantities is consistent with the use of the site as a plant processing station.

Test Excavations

One 1-x-1-m test unit and three STPs were excavated at TP-SITE-57. CU1 was placed west of the datum while the three STPs were dispersed to increase the subsurface coverage around the BRMs. Soil conditions are generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4) silty alluvium with low to moderate gravel content and occasional cobble- to boulder-sized clasts. This was capped by a thin O Horizon of decomposing grasses and weeds.

STPs

Two STPs were excavated in TP-SITE-57, with STP1 placed approximately 14-m south of the datum. It was dug a depth of 20-cmbs where large cobbles were encountered, preventing further excavation. No artifacts were recovered. STP2 was excavated approximately 14-m northwest of the datum and was terminated at 40-cmbs with no artifacts recovered. STP3 was placed approximately 6.5-m southwest of the datum and was similarly terminated at 40-cmbs due to a lack of artifacts. Some caliche was present from approximately 20-cmbs until the STP was terminated. None of the three STPs excavated at the site contained evidence of subsurface archaeological remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-57. CU1 was placed approximately four meters west of the datum (BRM station). Caliche-covered cobbles, up to 5-cm in diameter, were present after approximately 20-cm depth. The unit was terminated at 27-cmbs with no artifacts recovered.

Based on the results of the Phase II test, TP-SITE-57 does not contain a subsurface prehistoric deposit. It appears to have been a plant processing station of unknown age, used sporadically, and thus is a special activity area with a single function.

4.2.17 TP-SITE-60

TP-SITE-60 is a U-shaped cobble cairn partly buried by soil and grass (Figure A20, Confidential Appendix A). It is on the open flats of the southern San Joaquin Valley, at 1,404 feet (428-m) amsl, adjacent to an ephemeral channel of Grapevine Creek. Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed and doveweed. The size of the cairn is approximately nine feet (3-m) by 3 feet (1-m). It is made of natural fieldstones that range from cobble to roughly basketball in size, a single coarse high above ground (Figure E20, Confidential Appendix E).

When originally recorded, the age, cultural affiliation and function of this cairn were unknown. It was recognized that the cairn could be either Native American/prehistoric or historical/ranch

related. Phase II testing was directed at resolving this question, and determining whether this feature had any significance value.

Test Excavations

One 1-x-1-m test unit and four STPs were excavated at TP-SITE-60. The test pit was placed inside the U-shaped rock feature (Feature 1), north of an arbitrary datum, while the four STPs were placed surrounding the datum to obtain adequate coverage of subsurface conditions. Soil conditions were uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4) silty alluvium with some granitic gravels. This was capped by a thin O Horizon of decomposing grasses and weeds.

STPs

Four STPs were excavated in TP-SITE-60. STP1, 2, and 4 were excavated to a depth of 20-cmbs and then terminated due to a lack of artifacts. STP3 was dug to 50-cmbs with no artifacts recovered. None of the four STPs excavated at the site contained evidence of subsurface archaeological remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in Feature 1 of TP-SITE-60, approximately two meters north-northeast of the datum, within and adjacent to the U-shaped rock feature. The pit was excavated to 40-cmbs, immediately below the subsurface limit of the rock feature. Gravels in the A Horizon are rounded to sub-rounded and up to 2.5-cm in diameter, and sparse rootlets were present down to 10-cmbs where rodent disturbance was noted. A charcoal/burn layer was encountered between 30- and 40-cmbs, at the base of the rock feature.

A charcoal sample was collected from the burnt area and submitted to Beta Analytic, Inc., for accelerator-mass spectrometer (AMS) radiocarbon dating. Based on the AMS analysis,

> "The reported result indicates an age of post 0 BP and has been reported as a % of the modern reference standard indicating the material was living about the last 60 years or so" (see Confidential Appendix C).

"0 BP" (Before Present) for radiocarbon dating is set by scientific convention at A.D. 1952. The results mean that the dated carbonaceous material, presumably wood, was burnt sometime after that date, indicating that the rock feature itself is similarly modern in age.

TP-SITE-60 is a modern ranch feature: a small excavated burn pit back-filled with cobbles, created for an unknown original purpose.

4.2.18 TP-SITE 61

TP-SITE-61 is a BRM station located on the open flats of the southern San Joaquin Valley at 1,375 ft (419-m) amsl. It consists of a bluish-gray conglomerate boulder with three deep COs (Figure A21, Confidential Appendix A). Vegetation includes a medium cover of low-lying non-native annual grasses and cheatgrass, as well as dispersed vinegar weed and doveweed. No artifacts were observed on site.

Test Excavations

One 1-x-1-m test unit and two STPs were excavated at TP-SITE-61. CU1 was placed east of the BRM boulder, which served as the site datum (Figure E21, Confidential Appendix E). The two STPs were placed south (STP1) and northwest (STP2) of the datum. Soil conditions were generally uniform across the site, consisting of an A Horizon of medium compact, structureless, Munsell yellowish brown (10YR 5/4) silty alluvium with low to moderate gravel content. This was capped by a thin O Horizon of decomposing grasses and weeds. Some caliche is present in the lower depths, below 30-cmbs.

STPs

Two STPs were excavated at TP-SITE-61, with STP1 placed approximately 11-m south of the datum. It was excavated to 50-cmbs before termination due to a lack of artifacts. Gravel content increased with depth and a caliche layer was present at the base of the excavation. STP2 was excavated approximately 10-m northwest of the datum and was terminated at 20-cmbs with no artifacts recovered. Neither of the two STPs dug at the site contained evidence of subsurface archaeological remains.

Test Excavation Unit

One 1-x-1-m test unit (CU1) was excavated in TP-SITE-61. This was located approximately three meters east of the datum (BRM station). A caliche layer was observed between 30-40 cmbs but had dissipated before 40-cmbs. The unit was terminated at 40-cmbs with no artifacts recovered.

Based on the results of the Phase II test, TP-SITE-61 does not contain a subsurface prehistoric deposit. It appears to have been used sporadically for food processing, as a special activity area with a single function, but its age is unknown.

5.0 ANALYSIS AND RECOMMENDATIONS

5.1 SUMMARY

An archaeological evaluation was completed for 18 sites located within the proposed development portion of the Grapevine Specific Plan Area, Tejon Ranch, Kern County, California. Seventeen of the 18 sites were bedrock mortar (BRM) stations. All but four of these lacked subsurface deposits, temporally diagnostic artifacts, chronometrically-dateable materials, and associated surface artifacts or other kinds of archaeological features. Three of the BRM stations (TP-SITE-15, -17 and -18) had associated cupules, two of which (TP-SITE-15 and -17) also had a single associated lithic artifacts on the ground surface. Site TP-SITE-08 had two associated surface artifacts, while TP-SITE-57 had a single piece of debitage associated with its BRMs. The eighteenth site, TP-SITE-60, was a rock cairn that proved to be recent in age, based on radiocarbon dating.

None of the 17 prehistoric sites had subsurface archaeological deposits. None contained datable materials or temporally diagnostic artifacts, and hence their chronological position is unknown. At a very general level, however, acorn processing technology is assumed to have appeared in south-central California during the Middle Horizon, which started about 4,000 YBP, and BRMs are considered primarily representative of this subsistence activity. This would suggest that the 17 sites date to sometime within the last four millennia, although when during that lengthy period is unknown.

The four sites with associated surface artifacts resulted in an archaeological collection totaling only five specimens: two pieces of lithic debitage, or tool manufacturing waste, one biface edge (bifacially-modified flake), one scraper plane, and one fragmentary portable mortar/bowl. The presence of minor quantities of these types of artifacts at BRM stations is consistent with their use as single function, special activity areas, restricted to plant processing. Three sites had cupules associated with BRMs. Cupules were created ethnographically during girls' puberty initiations, were symbolic of women's role in plant food processing, and often co-occur with BRMs. These three sites appear to be multi-purpose sites involving plant processing and initiation ceremonies.

5.2 ARCHAEOLOGICAL ANALYSIS

Although the lack of chronological evidence at the 17 prehistoric sites greatly restricts their scientific value, a regional analysis of BRM can be employed to provide some interpretive context to these cultural resources. BRMs are of course not unique in south-central California; studies of sites containing BRMs, however, tend to focus on other features and artifacts and their association with the BRMs. This, unsurprisingly, is due to difficulty in accurately dating BRM sites. BRMs are surface features that themselves lack datable material, thereby making the association of any buried datable material tenuous at best (Basgall 1987; Stevens 2002). When BRMs occur as isolated finds (i.e., no associated artifacts or features) this problem is even more pronounced. Researchers (Jackson 1984; Robinson 2007, 2010, 2011) have studied the distribution of BRM locales and the types of artifacts or features that are found in association with them to help alleviate those problems. Jackson (1984) has focused on the distribution of BRM locales associated with lithics or middens in the southern Sierra Nevada to help predict where these archaeological features

might be found. Studying the distribution of BRM locales both below- and above-snowline, he created a predictive model to assist in future surveys in areas with these site types. Robinson (2010, 2011) discussed the distribution of BRM locales in the San Emigdio hills of the southern San Joaquin Valley, a short distance to the west of the Grapevine study area, but focused on the association of BRM locales and rock art. He suggested that the two are functionally related in hopes of assisting in future site interpretations. Studying the distribution and associations of BRM locales are ways of dealing with the problems inherent in the interpretation of these features.

Though many BRM locales are associated with other artifacts or features (e.g., lithic scatters, middens, rock art, etc.), many more are isolated. We suggest that the common lack of associated artifacts and features is the typical pattern, and that BRMs associated with artifacts and other features are important though less frequent, indicating that no single interpretation of BRM locales is appropriate.

We focus here on BRM sites and isolates within the larger Grapevine Planning Area (GPA), totaling 15,389 acres of intensively surveyed land, with three purposes:

(1) To contextualize and thereby better understand the 17 BRM locales studied during the Phase II test;
(2) To add a dataset to Jackson's predictive model and to determine whether the model is valid south of the southern Sierra Nevada and at a lower elevation; and
(3) To show that BRM locales are most often isolated and, while some are associated with artifacts or other features (e.g., rock art), this association is rare and potentially purely coincidental.

To assist in the second purpose, we incorporate data from other portions of the southern San Joaquin Valley and surrounding areas to increase the sample of BRM locales.

BRMs occur within the GPA as both sites and isolates. BRM locales were defined as isolated features if there were less than three BRMs on a single boulder, or on two adjacent boulders with no associated features or artifacts. BRM sites, in contrast, consist of three or more mortars on one or more boulders located within 50-m of one another. Though isolates are not sites, they are included in the sample because they represent plant processing areas and are important for understanding the variability in and overall distribution of this activity. A variety of information was gathered from the BRM locales, including number of BRMs, depths (shallow, moderate, or deep), and whether or not there were associated cupules.

Since the GPA study area exhibits both a change in topography (valley to foothills) and elevation, we separated the BRM locales into foothill and valley sections to identify any difference in the abundance of BRM locales and individual BRMs (Confidential Appendix D). For this analysis, the valley section is defined as the area north of Edmonston Pumping Plant Road (EPPR) and the unnamed graded dirt road extending west from the I-5 across from EPPR. All land in the project area south of these roads is considered to be within the foothill section. (Using these two roads as a boundary proved more effective than using a single contour line due to the gentle upward slope of the southern San Joaquin Valley from east to west.) In general, the foothill section begins at approximately 420-m amsl on the eastern side of the GPA and about 490-m amsl on the western side. Valley oaks, despite their name, are most abundant at lower elevations in the foothill section

between about 400 and 600-m amsl, while other oak species occur more frequently at higher elevations (Hoagland et al. 2011:viii). Given this fact, it was expected that BRM locales as well as individual mortars would be more abundant in the foothill section.

There are 132 recorded BRM locales in the GPA (61 sites and 71 isolates). Sixty-five are in the valley (26 sites and 39 isolates, 49% of total) and 67 in the foothills (35 sites and 32 isolates, 51% of total). Although these figures suggest a relatively even distribution, the picture changes drastically when normalized by area. Though 49% of BRM locales lie in the valley section, that section represents approximately 84% of the surveyed area, whereas 51% of the BRM locales are present in the foothills, representing only about 16% of the GPA. As expected, plant processing locales are very heavily concentrated in the foothills.

The average number of individual BRMs should be higher at foothill locales as well. Although five foothill BRM sites were excluded from our tabulations because they lacked exact BRM counts (due to extremely high numbers of individual mortars at these sites), there are otherwise a total of 594 individual counted mortars in the GPA. The foothill section has 62 BRM locales (excluding the five locales mentioned above) with 370 individual BRMs, or about 62% of the 594 counted mortars, for an average of 6 BRMs per locale. The remaining 224 BRMs (38%) are present at 65 locales within the disproportionately larger valley section, for an average of 3.5 BRMs per locale. As predicted, the foothills have more BRM locales and more individual mortars than the valley floor.

Given the current distribution of oaks in the northern Tehachapi Mountain foothills, this is perhaps not a surprising outcome. We do not believe the availability of rock suitable for BRMs is a factor in this difference. Though the availability of rock decreases with increasing distance from the foothills, there are still large exposures of unused boulders in the valley. That there are numerous BRM locales below the current oak stands and, in some cases, far out on the valley floor, suggests either that acorns were collected in the foothills and transported to valley locales for processing, or the distribution of oaks changed prehistorically. More environmental studies would be necessary to confirm the latter.

GPA mortar depth measurements were recorded as shallow, moderate, and deep. Shallow mortars are less than three centimeters deep, those between three and six centimeters deep are considered moderate, and deep mortars are over six centimeters in depth. Not all sites and isolates contained information on mortar depth. No depth data was available for 10 out of the 67 foothills locales (~16%); again due to very high individual mortar numbers at some sites. The 57 remaining locales contain 317 mortars, of which 173 (55%) are shallow, 77 (24%) are moderately deep, and 67 (21%) are deep. The valley BRM pattern is virtually the same. Depth data for 65 of the 68 valley locales is available. This includes a total of 207 BRMs, of which 108 (52%) are shallow, 49 (24%) are moderate, and 50 (24%) are deep. Given the strikingly similar percentages of moderate versus deep mortars in both sections, we can assume that our analytical distinction between the two depth classes is artificial rather than real. The abundance of shallow mortars in both areas (over 50%) is surprising. If we assume that BRMs were used primarily if not exclusively for acorn processing, a larger number of deeper mortars would be expected since they better contain acorn pulp, and because acorns cannot otherwise be effectively processed on flat grinding surfaces. It is then possible that shallow mortars were used for processing a wider variety of foodstuffs than just

acorns, such as hard seeds, and this may explain the large proportions of these kinds of mortars in our sample.

Jackson (1984) completed a large BRM site study in the southern Sierra Nevada in an attempt to create a predictive model that would assist in future cultural resource surveys. He compiled site data from multiple surveys from as far north as Yosemite National Park to as far south as the northern Tehachapi Mountains, including Cummings Valley, to the east of Tejon Ranch. In the study, Jackson identified key sites ("k-sites"), which he defined as bedrock milling sites with 14 or more BRMs or bedrock metates (grinding slicks) and associated lithic scatters or middens. (Though there are a few locales in our sample with bedrock metates, the number was extremely low and we have not included the counts here). Key sites can be more generally described as habitations (villages and field camps). Jackson separated his study area into two analytical units defined by elevations above-snowline and below-snowline. He found that key sites below-snowline tend to occur as clusters where the individual key sites are separated by less than 500 meters. Jackson suggests that clusters represent single settlements, rather than multiple closely associated settlements. He also found that clusters tend to be separated by an average of 2,000 meters from other key sites or key site clusters. Above-snowline, clusters are less common, being replaced by single key sites that tend to be linear, spreading along stream channels. In the upper elevations, key sites can be separated by as much as 3,000 meters.

The elevation of the GPA is well below the lowest elevation in Jackson's sample of study areas. Jackson defines the below-snowline sample as below 1,370-m amsl in the northern portion of his study area, adding ~300 meters for snowline correction in the southern regions. This would place the GPA study area snowline at ~1,675-m amsl. As mentioned earlier, the highest elevation in the GPA is approximately 670-m, a full 1,000 meters below the inferred snowline. That the GPA is southwest of Jackson's study area, is at a very low elevation, and has valley topography, expands his study geographically and topographically. Additionally, the GPA sites exhibit some interesting attributes that do not seem to be a part of his below- or above-snowline samples.

Of the 61 GPA BRM sites, we identified six that can be considered key sites, having 14 or more BRMs and associated lithics or midden (Figure A22, Confidential Appendix A). These occur exclusively in the foothill section, outside of the project development area. Interestingly, even at the relatively low GPA elevation, the key site distribution appears to follow Jackson's above-snowline pattern fairly closely. The only attribute of the GPA key sites that is similar to Jackson's below-snowline pattern, in contrast, is east-west spacing. This, on average, is 2,000-m. Aside from that, there are no key site clusters in the GPA sample and all sites (not just key sites) tend to be distributed linearly, along stream channels. Additionally, the relative frequency of BRM locales with 1 - 6 BRMs is much higher in the GPA than in Jackson's below-snowline dataset. Combining the valley and foothill sections, BRM locales with 1 - 6 BRMs represent 79% of all BRM locales. In contrast, locales with 7 - 13 BRMs represent 13%, while locales with 14 or more BRMs (not necessarily key sites) are only 8% of all BRM locales. This suggests that the distribution of these different kinds of BRM sites is more closely tied to the distribution of oaks, which is itself linked to elevation, and likely aspect, rather than to an arbitrary snowline figure alone. The lower elevation GPA data, then, augment the Jackson model and provide a more complete picture of BRM distribution that may assist in expectations and predictions for future survey work.

Though the distribution of the key sites and other BRM locales in the GPA is interesting, a much more interesting pattern is evident in the types of key sites and their distributions. As mentioned above, six key sites are included in the 61 GPA sites. Three of these are ethnographically known villages. One village is outside of the eastern boundary of the GPA but is included here because its location is known; the other two are outside of the development area. BRM counts from that village, however, were not included in previous tabulations. There is no doubt that these villages were key sites in every aspect. These villages are all at major drainage mouths (Grapevine Canyon, Live Oak Canyon, and Pastoria Canyon), which are each approximately 4,000 meters east-west from one another. As mentioned earlier, key sites in the GPA are an average of 2,000 meters east-west from each other. All key sites are also near the intersection of the valley and foothill sections, with no key sites located in the valley. Approximately midway between each ethnographic village site, then, there is another, smaller key site, which could be easily accessed from a village, or from any BRM locale in the vicinity. The placement of these smaller key sites ensures that, regardless where a person is on the foothill landscape, a key site was easily accessible.

With the information provided by the GPA dataset, we can add another facet to Jackson's predictive model. The distribution of BRMs within the GPA is non-linear, and if we consider the distribution of oak trees and BRM locales on an inverted U-shaped curve, with the apex of the curve being the elevation and aspect with the highest concentration of oak trees and BRMs (e.g., most key site clusters with shortest spacing between clusters), we could predict the type of BRM landscape based on placement on the curve. As one moves away from the apex in either direction (i.e., up or down in elevation), there will be a decrease in the number of key sites and key site clusters with an increase in the spacing between these locales. Additionally, there will be an increase in BRM locales with less than six BRMs and no associated lithic scatters or middens, as we find in the GPA.

Once one travels well outside of the oak tree stands, as is the case in the valley section of the GPA, there seems to be no pattern to the distribution of BRM locales. The BRM locales furthest out in the valley section are over 4,000-m from the nearest key site, which is over 1,000-m further than the furthest distance encountered in Jackson's study. Further into the valley, BRM locales entirely disappear.

The distribution of BRMs in the GPA is similar to the nearby San Emigdio Hills studied by Robinson (2010, 2011). The San Emigdio Hills project area, for all intents and purposes, borders the GPA to the west. There Robinson has identified numerous sites, including key sites, clustered along drainage channels. Additionally, similar to the GPA, there are three ethnographically named villages at the mouths of major canyon drainages. Robinson (2010), following Jackson (1984), identified the number of key sites present using 18 BRMs or more (rather than 14 originally employed by Jackson). Instead of identifying the relationship of key sites to other sites, artifacts, features, or the landscape, he focuses on their association with pictographs. Out of 16 key sites in the region, 11 of them are associated with rock paintings. He suggests this is not an accident, and that "rock art was visibly integrated within the intimate confines of the most important economic places in the landscape" (Robinson 2010:813). In a later study, Robinson (2011) looked at sites on the Sierra Madre Ridge, Santa Barbara County, and the Carrizo Plain, San Luis Obispo County, to see if key sites and pictographs regularly co-occur in those regions as well. For the Sierra Madre Ridge, Robinson tabulated 4 out of 5 sites with 10 BRMs or more that are associated with

pictographs, while on the Carrizo Plain there are 9 out of 11 sites with 15 BRMs or more with pictographs. (No explanation is provided for the use of different key site criteria in each of these three regions.) Robinson nonetheless proposes that his study presents "the probability that the employment of pictographs at important regional key sites was a wider phenomenon in different south-central Californian landscapes than strictly that seen within the…Emigdiano province" (Robinson 2011:46), ultimately because there was a direct ideological connection between plant processing and the creation of pictographs.

No GPA sites, key sites or otherwise however, contain pictographs, unlike the San Emigdio Hills. Though the two study areas are very similar, their ethnographic affiliations differ. The GPA includes Southern Valley Yokuts, Chumash and Kitanemuk territory while the San Emigdio Hills are exclusively Chumash. The lack of any rock art in the GPA BRM complex nonetheless contradicts Robinson's proposed association of BRM sites and rock art as a widespread south-central California pattern.

This is emphasized when we look at the Tejon Mountain Village (TMV), a ~28,000 acre project area just south of the GPA and less than 4 kilometers southeast of the San Emigdio Hills (W&S Consultants 2004). The TMV project area is partly located in Chumash territory, and in part in Kitanemuk and Tatatiavam territory. It contains sites with BRMs, lithics, and middens. Out of 39 TMV sites containing BRMs, five qualify as key sites using Jackson's (1984) criteria. None of the TMV key sites are associated with pictographs. Indeed, no pictograph sites are present within the TMV.

Next we look at Yokohl Valley, a ~36,000 acre project area outside of Exeter, California, approximately 144 kilometers north of the San Emigdio Hills and the GPA (Hector et al. 2008). Yokohl Valley lies on the western fringe of the western Sierra Nevada Foothills in Foothill Yokuts (Yokohl and possibly Wukchumni Yokuts) territory. It includes large number of BRM sites, some of which have middens, lithics, and pictographs. One hundred and eleven BRM sites were identified, 32 of which contain 14 or more BRMs. Of those 32, five are key sites using Jackson's (1984) criteria. Pictographs are present at only two of the five, indicating that the association is random. The overwhelming number of Yokohl BRM sites, including sites with 14 or more BRMs, and the majority of key sites, lack associated pictographs. The two key sites with pictographs also have significant habitation remains, including well developed middens. This suggests that the significant pictograph association in this case may be with general habitation activities, not plant processing alone.

At TMV and the Yokohl Valley, the large majority of BRM sites lack associated rock art. Even where rock art and BRMs co-occur, moreover, there are significant numbers of rock art sites not associated with key sites and thus BRMs. Based on Robinson's (2011) tabulations, half of the pictograph sites in the Sierra Madre Ridge, and six (40%) of the 15 Carrizo Plain rock art sites, are not associated with key sites. These figures suggest random co-occurrences rather than any systematic (and therefore functional) association. Given that there are many more BRM sites without pictographs, as well as rock art sites that lack associated BRMs, it appears that the association between pictographs and key sites is an occasional occurrence at residential locations.

It is clear, however, that Robinson's (2010, 2011) study areas contain more rock art and BRM associations than any other area we have compared here. This results not because they typify south-central California, but because his analysis focused on well-known rock art concentrations. Yet, as has been previously noted (Whitley et al. 2007; Whitley and Whitley 2012), rock art is far from evenly distributed across the landscape. Even in Chumash territory alone, for example, it clusters in a few regions, with the large majority of the intervening landscape devoid of these kinds of sites. This is because the distribution of rock art sites reflects the distribution of political and religious power on the landscape (ibid). Where that power was concentrated, larger habitations occupied by greater numbers of peoples creating more kinds and quantities of archaeological remains and sites are present. This necessarily included more plant processing, and thus BRMs. But to suggest that there is a direct functional association between BRM and pictographs alone, overlooking all of the other kinds of activities and evidence present at key sites, as well as BRM sites without pictographs and rock art lacking associating plant processing, ignores the vast majority of the relevant archaeological evidence.

In summary, the GPA archaeological record fits well with other known BRM locations in the greater south-central California region, but demonstrating that BRM distributional patterns extend to lower elevations than previously investigated. The GPA is a lowland BRM zone with numerous locales containing anywhere from one to over 100 BRMs. Based on Jackson's (1984) work on BRM distribution and key sites in the southern Sierra Nevada, which he suggested are residential locations, we identified five key sites within the GPA and another just outside of the GPA proper. Analyzing the distribution of key sites by elevation presented by Jackson, we found that key sites in the GPA are comparable to those at high elevations (i.e., above-snowline) in his southern Sierra Nevada sample. The similarities between the low elevation GPA and high elevation areas in the southern Sierra Nevada indicates that the distribution of key sites, and therefore BRM sites, is non-linear, shaped like an inverted U-curve where the apex represents the area with the highest concentration of oak trees and greatest number of key sites. The GPA and the high elevations in the southern Sierra Nevada are at opposite ends of the curve, and therefore share certain characteristics despite their elevational differences.

5.3 CRHR ELIGIBILITY/SIGNIFICANCE RECOMMENDATIONS

5.3.1 TP-SITE-04

Phase II test excavations at site TP-SITE-04 demonstrated that it is a small BRM station, coincidentally associated with the historic Tejon Ostrich Farm, which had been demolished and lacks integrity. Test excavations demonstrated that the prehistoric component of the site is limited to a BRM station with two mortars. It lacks a subsurface archaeological deposit, associated prehistoric artifacts, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, the site is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.2 TP-SITE-06

Phase II test excavations at site TP-SITE-06 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-06 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.3 TP-SITE-07

Phase II test excavations at site TP-SITE-07 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-07 is recommended as not CRHR eligible, and no additional archaeological work or treatment is recommended for this site.

5.3.4 TP-SITE-08

Phase II test excavations at site TP-SITE-08 demonstrated that it is a small BRM station that lacks a subsurface component and, with the exception of two surface artifacts, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-08 is recommended as not CRHR eligible, significant, or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.5 TP-SITE-09

Phase II test excavations at site TP-SITE-09 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-09 is recommended as not CRHR eligible, significant, or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.6 TP-SITE-10

Phase II test excavations at site TP-SITE-10 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-10 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.7 TP-SITE-14

Phase II test excavations at site TP-SITE-14 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-14 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.8 TP-SITE-15

Phase II test excavations at site TP-SITE-15 demonstrated that it is a small BRM station with associated cupules on a single boulder. The site lacks a subsurface component and, with the exception of one surface artifact, any additional associated tools or remains, and chronological information. Site area is limited to the size of the cupule boulder, which is 6.8 x 4 feet in size. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Though not CRHR eligible, the presence of cupules at the site, potentially created during girls' puberty initiations, suggests that the site may have Native American heritage value and it is recommended that TP-SITE-15 be preserved in open-space.

5.3.9 TP-SITE-16

Phase II test excavations at site TP-SITE-16 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-16 is

recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.10 TP-SITE-17

Phase II test excavations at site TP-SITE-17 demonstrated that it is a small BRM station with associated cupules on a single boulder. The site lacks a subsurface component and, with the exception of one surface artifact, any additional associated tools or remains, and chronological information. Site area is limited to the size of the cupule boulder, which is 7.9 x 9.2 feet in size. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Though not CRHR eligible, the presence of cupules at the site, potentially created during girls' puberty initiations, suggests that the site may have Native American heritage value, and it is recommended that TP-SITE-17 be preserved in open-space.

5.3.11 TP-SITE-18

Phase II test excavations at site TP-SITE-18 demonstrated that it is a small BRM station with associated cupules on a single boulder. The site lacks a subsurface component, any additional associated tools or remains, or chronological information. Site area is limited to the size of the cupule boulder, which is 4.4 x 3.4 feet in size. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Though not CRHR eligible, the presence of cupules at the site, potentially created during girls' puberty initiations, suggests that TP-SITE-18 may have Native American heritage value, and it is recommended that the site be preserved in open-space.

5.3.12 TP-SITE-19

Phase II test excavations at site TP-SITE-19 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, or chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-19 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.13 TP-SITE-53

Phase II test excavations at site TP-SITE-53 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or

specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-53 is recommended as not CRHR eligible, significant, or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.14 TP-SITE-55

Phase II test excavations at site TP-SITE-55 demonstrated that it is a small BRM station that lacks a subsurface component and any additional associated tools or remains, or chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria A and B), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion C. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion D. Based on these facts and circumstances, TP-SITE-55 is recommended as not CRHR eligible, significant, or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.15 TP-SITE-56

Phase II test excavations at site TP-SITE-56 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-56 is recommended as not CRHR eligible, significant, or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.16 TP-SITE-57

Phase II test excavations at site TP-SITE-57 demonstrated that it is a small BRM station with a single associated piece of lithic debitage that lacks a subsurface component, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-57 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.17 TP-SITE-60

Phase II test excavations at TP-SITE-60 demonstrated that it is a small rock cairn without associated tools. A small lens of charcoal from underneath the structure returned a modern date (Beta Analytic, Inc. 2014) and the feature itself is therefore considered modern. The evidence

recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-60 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

5.3.18 TP-SITE-61

Phase II test excavations at site TP-SITE-61 demonstrated that it is a small BRM station that lacks a subsurface component, any additional associated tools or remains, and chronological information. The evidence recovered from this site cannot be associated with known events or specific persons (CRHR Criteria 1 and 2), nor is the site or its features distinctive in a fashion that would qualify it for listing under Criterion 3. The absence of diagnostic artifacts or chronometrically dateable materials, furthermore, indicates that the site lacks research potential and is thus not eligible under Criterion 4. Based on these facts and circumstances, TP-SITE-61 is recommended as not CRHR eligible, significant or unique, and no additional archaeological work or treatment is recommended for this site.

The 18 tested sites all lack subsurface components and chronological information. None of the sites are CRHR eligible and therefore they do not constitute historical resources under CEQA.

5.3.19 Recommended Mitigation Measure

In the unlikely event that additional archaeological artifacts or remains are discovered during grading, construction or use of the Grapevine Specific Plan development area, it is recommended that an archaeologist be contacted to evaluate the find.

5.4 PROJECT DESIGN FEATURES

The current Phase II test excavations determined that three sites within the development area, designated TP-SITE-15, -17 and -18, may have Native American heritage value. Each of these sites consists of a single boulder with cupules (ground cups), potentially created during young girls' puberty initiations. Each of these sites lacks a subsurface archaeological deposit and chronological information, with site sizes limited to the dimensions of the boulders, all less than 10 feet in diameter. Though not CRHR eligible, as a Project Design Feature, potential adverse impacts to these three sites will be mitigated by their preservation in-place, in pocket parks or similar appropriate open-space areas. The locations of these three sites are shown in Figure A23 (Confidential Appendix A). Note that this figure does not include the open-space that will be created to preserve them in-place.

5.5 CUMULATIVE IMPACTS

The 18 archaeological sites within the Grapevine specific plan area all lack subsurface components and chronological information. None of the sites are CRHR eligible. Based on this fact, the

proposed project does not have the potential to result in adverse impacts or effects to significant historical resources or properties. The project therefore will not result in cumulative impacts to regional archaeological resources.

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APPENDICES

APPENDIX A

Site Location and Sketch Maps

Confidential - Not Included

APPENDIX B

Site Records Updates

Confidential - Not Included

APPENDIX C

Beta Analytic Inc. Radiocarbon Report

BETA

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4985 SW 74 Court
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Darden Hood
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Ronald Hatfield
Christopher Patrick
Deputy Directors

March 3, 2014

Dr. David S. Whitley
ASM Affiliates, Incorporated
20424 West Valley Blvd., Suite A
Tehachapi, CA 93561
USA

RE: Radiocarbon Dating Result For Sample TP-60-1-Feature-1

Dear Dr. Whitley:

Enclosed is the radiocarbon dating result for one sample recently sent to us. As usual, specifics of the analysis are listed on the report with the result and calibration data is provided where applicable. The Conventional Radiocarbon Age has been corrected for total fractionation effects and where applicable, calibration was performed using 2013 calibration databases (cited on the graph pages).

The web directory containing the table of results and PDF download also contains pictures, a cvs spreadsheet download option and a quality assurance report containing expected vs. measured values for 3-5 working standards analyzed simultaneously with your samples.

The reported result is accredited to ISO-17025 standards and all pretreatments and chemistry were performed here in our laboratories and counted in our own accelerators here in Miami. Since Beta is not a teaching laboratory, only graduates trained to strict protocols of the ISO-17025 program participated in the analysis.

As always Conventional Radiocarbon Ages and sigmas are rounded to the nearest 10 years per the conventions of the 1977 International Radiocarbon Conference. When counting statistics produce sigmas lower than +/- 30 years, a conservative +/- 30 BP is cited for the result.

When interpreting the result, please consider any communications you may have had with us regarding the sample. As always, your inquiries are most welcome. If you have any questions or would like further details of the analysis, please do not hesitate to contact us.

Thank you for prepaying the analyses. As always, if you have any questions or would like to discuss the results, don't hesitate to contact me.

Sincerely,

Darden Hood

Digital signature on file

BETA ANALYTIC INC.
DR. M.A. TAMERS and MR. D.G. HOOD
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MIAMI, FLORIDA, USA 33155
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REPORT OF RADIOCARBON DATING ANALYSES

Dr. John R. Cook/David S. Whitley — Report Date: 3/3/2014

ASM Affiliates, Incorporated — Material Received: 2/27/2014

Sample Data	Measured Radiocarbon Age	13C/12C Ratio	Conventional Radiocarbon Age(*)
Beta - 374158	100.2 +/- 0.3 pMC	-25.6 o/oo	100.4 +/- 0.3 pMC

SAMPLE : TP-60-1-Feature-1
ANALYSIS : AMS-PRIORITY delivery
MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid
COMMENT: The reported result indicates an age of post 0 BP and has been reported as a % of the modern reference standard, indicating the material was living about the last 60 years or so ("pMC" = percent modern carbon).

APPENDIX D

Tabulations for Foothill and Valley BRM Locales

Site	Mortar Amounts	Depths			Cupules
		Shallow	Moderate	Deep	
Foothill Locales					
TP-ISO-27	1	--	--	1	--
TP-ISO-31	1	--	1	--	--
TP-ISO-54	2	--	1	1	--
TP-ISO-56	1	--	--	--	--
TP-ISO-74	1	--	--	1	--
TP-ISO-75	2	2	--	--	--
TP-ISO-76	2	--	2	--	--
TP-ISO-77	2	--	2	--	--
TP-ISO-79	1	--	--	1	--
TP-ISO-80	2	2	--	--	--
TP-ISO-81	2	2	--	--	--
TP-ISO-82	2	2	--	--	--
TP-ISO-83	1	1	--	--	--
TP-ISO-85	1	--	1	--	--
TP-ISO-86	1	1	--	--	--
TP-ISO-87	2	2	--	--	--
TP-ISO-88	2	2	--	--	--
TP-ISO-90	1	1	--	--	--
TP-ISO-91	1	--	--	1	--
TP-ISO-92	2	1	1	--	--
TP-ISO-93	1	--	1	--	--
TP-ISO-95	2	--	1	1	--
TP-ISO-96	2	2	--	--	--
TP-ISO-98	1	1	--	--	--
TP-ISO-99	1	1	--	--	--
TP-ISO-102	1	1	--	--	--
TP-ISO-104	1	1	--	--	--
TP-ISO-105	1	--	1	--	--
TP-ISO-106	1	--	1	--	--
TP-ISO-108	2	--	2	--	--
TP-ISO-109	1	1	--	--	--
TP-ISO-111	2	2	--	--	--
TP-SITE-20	5	3	--	2	--
TP-SITE-21	3	1	2	--	--
TP-SITE-23	3	1	2	--	--
TP-SITE-24	4	--	4	--	--
TP-SITE-25	2	--	--	--	--
TP-SITE-26*	40+	--	--	--	Yes
TP-SITE-27	10	--	--	--	--
TP-SITE-28	6	4	2	--	--
TP-SITE-29	3	2	1	--	--
TP-SITE-30	5	5	--	--	--
TP-SITE-31	11	4	2	5	--
TP-SITE-32	22	13	4	5	Yes
TP-SITE-33*	100+	--	--	--	Yes

TP-SITE-34	33	17	14	2	--
TP-SITE-35	11	10	--	1	--
TP-SITE-36	8	3	1	4	--
TP-SITE-37	61	33	17	11	Yes
TP-SITE-38	4	3	1	--	--
TP-SITE-39	4	1	--	3	--
TP-SITE-40	22	6	3	13	--
TP-SITE-41	6	1	3	2	--
TP-SITE-42	6	4	--	2	--
TP-SITE-43	4	2	--	2	--
TP-SITE-44	6	3	--	3	Yes
TP-SITE-45	17	--	--	--	Yes
TP-SITE-46	4	4	--	--	--
TP-SITE-49	10	10	--	--	--
TP-SITE-51*	~15	--	--	--	--
TP-SITE-52	9	7	2	--	--
TP-SITE-54	7	1	--	6	--
TP-SITE-58	9	9	--	--	--
TP-SITE-59	6	1	5	--	--
P-15-000810*	119+	--	--	--	Yes
P-15-004884*	18+	--	--	--	--
P-15-010845	23	--	--	--	--
Foothill Totals	**370**	**173**	**77**	**67**	**--**
Valley Locales					
TP-ISO-10	2	--	2	--	--
TP-ISO-11	2	2	--	--	--
TP-ISO-12	2	1	1	--	--
TP-ISO-17	1	1	--	--	--
TP-ISO-18	2	--	2	--	--
TP-ISO-21	2	2	--	--	--
TP-ISO-22	1	1	--	--	--
TP-ISO-23	1	--	1	--	--
TP-ISO-24	1	1	--	--	--
TP-ISO-25	1	1	--	--	--
TP-ISO-26	2	2	--	--	--
TP-ISO-30	2	--	2	--	--
TP-ISO-36	2	--	1	1	--
TP-ISO-37	1	--	--	1	--
TP-ISO-39	1	1	--	--	--
TP-ISO-41	1	1	--	--	--
TP-ISO-42	1	1	--	--	--
TP-ISO-43	3	2	--	1	--
TP-ISO-46	2	2	--	--	--
TP-ISO-47	2	2	--	--	--
TP-ISO-51	1	1	--	--	--
TP-ISO-53	1	1	--	--	--
TP-ISO-55	1	--	1	--	--
TP-ISO-57	2	--	2	--	--
TP-ISO-58	2	1	--	1	--
TP-ISO-59	1	1	--	--	--

Appendix D: Tabulations for Foothill and Valley BRM Locales.

TP-I TP-I					
TP-ISO-64	1	1	--	--	--
TP-ISO-65	2	1	--	1	--
TP-ISO-66	2	2	--	--	--
TP-ISO-67	1	1	--	--	--
TP-ISO-68	1	--	--	1	--
TP-ISO-69	2	2	--	--	--
TP-ISO-70	1	1	--	--	--
TP-ISO-71	2	2	--	--	--
TP-ISO-72	1	1	--	--	--
TP-ISO-112	1	--	--	1	--
TP-ISO-113	1	--	1	--	--
TP-SITE-01	7	6	--	1	--
TP-SITE-03	9	3	2	4	--
TP-SITE-04	2	2	--	--	--
TP-SITE-05	2	1	1	--	--
TP-SITE-06	3	1	2	--	--
TP-SITE-07	5	2	3	--	--
TP-SITE-08	21	6	3	12	Yes
TP-SITE-09	14	4	4	6	--
TP-SITE-10	6	2	3	1	--
TP-SITE-11	9	4	3	2	--
TP-SITE-13	2	--	--	--	--
TP-SITE-14	11	4	4	3	--
TP-SITE-15	6	2	--	4	Yes
TP-SITE-16	10	10	--	--	--
TP-SITE-17	6	3	3	--	Yes
TP-SITE-18	5	3	--	2	Yes
TP-SITE-19	4	3	1	--	--
TP-SITE-47	3	2	1	--	--
TP-SITE-48	4	1	2	1	--
TP-SITE-53	3	1	1	1	--
TP-SITE-55	5	5	--	--	--
TP-SITE-56	6	4	1	1	--
TP-SITE-57	4	3	--	1	--
TP-SITE-61	4	--	2	2	--
P-15-009629	8	--	--	--	--
P-15-010846	7	--	--	--	Yes
Valley Totals	**224**	**108**	**49**	**50**	--
[a]GPA Totals	**594**	**281**	**126**	**117**	--

APPENDIX E

Report Figures

Figure E1. Open flats of the southern San Joaquin Valley. Site CA-KER-810, looking south. 1
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Figure E1. Open flats of the southern San Joaquin Valley. Site CA-KER-810, looking south.



Figure E2. Foothills and slopes of the Tehachapi Mountains. TP-SITE-34 in foreground.

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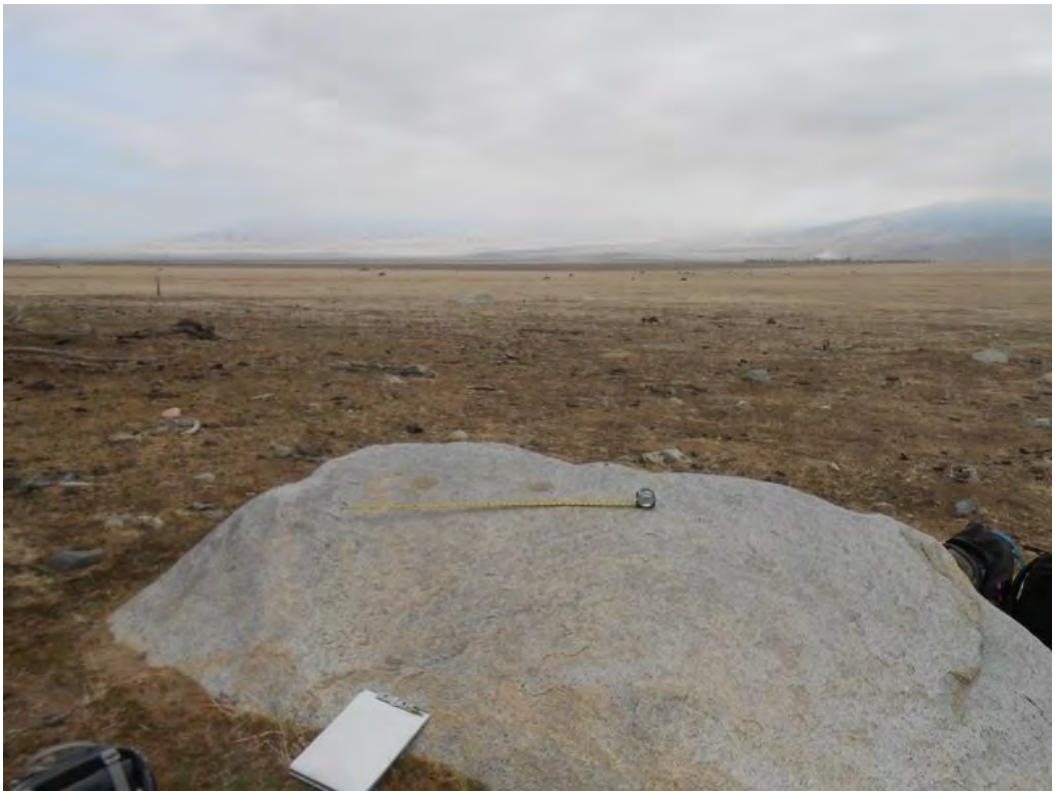

Figure E3. TP-SITE-04. BRM station with remains of ostrich farm in background, looking northeast.



Figure E4. TP-SITE-06. CU1 showing large boulders in unit.

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Figure E5. TP-SITE-07. BRM2 overview, looking southwest.



Figure E6. TP-SITE-08. Looking southwest down drainage, BRM9 in foreground.

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Figure E7. TP-SITE-09. CU1 showing large boulders in unit, looking east.

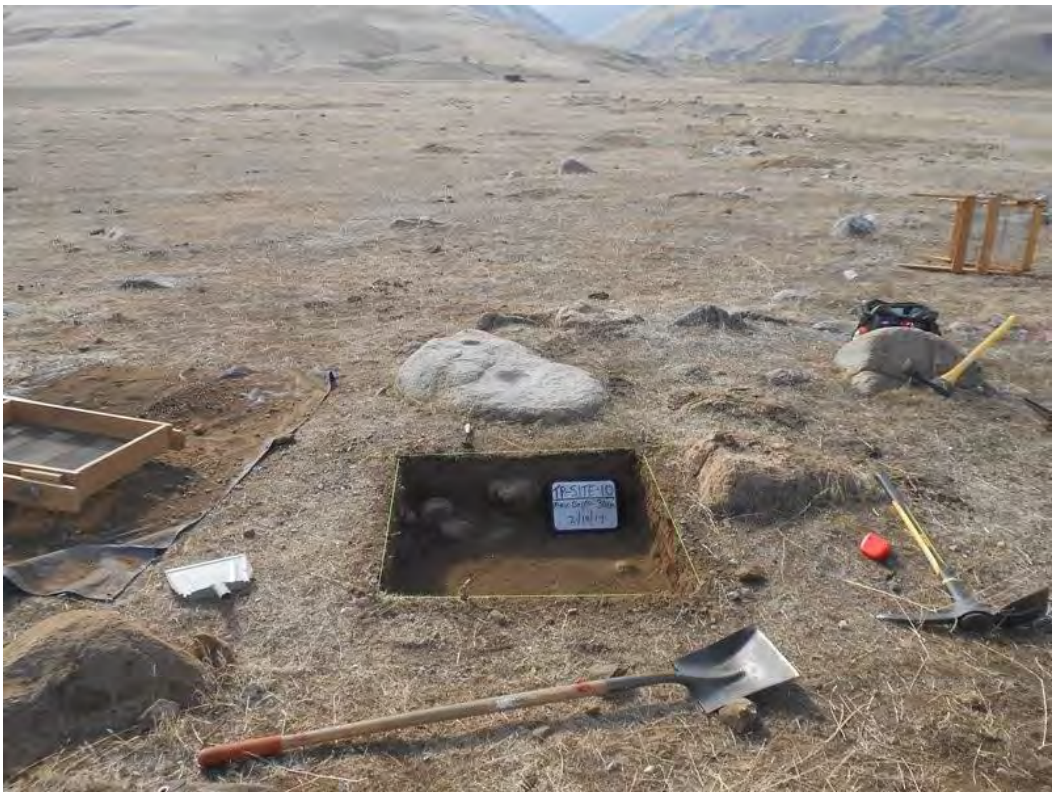

Figure E8. TP-SITE-10. CU1 showing cobbles at southern end, looking south. BRM2 above unit in frame.

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Figure E9. TP-SITE-14. BRM1 overview, looking south.



Figure E10. TP-SITE-15. Cupule boulder overview, looking southwest.

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Figure E11. TP-SITE-15. CU1 showing exposed subsurface cupules on boulder.



Figure E12. TP-SITE-16. BRM1 overview, looking west.

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Figure E13. TP-SITE-17. BRM1 overview, looking east.



Figure E14. TP-SITE-18. CU1 looking south. No subsurface cupules on boulder.

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Figure E15. TP-SITE-19. BRM1 overview, looking south.



Figure E16. TP-SITE-53. BRM1 overview, looking west. Bioturbation seen around BRM.

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Figure E17. TP-SITE-55. BRM station showing shallow conical mortars.

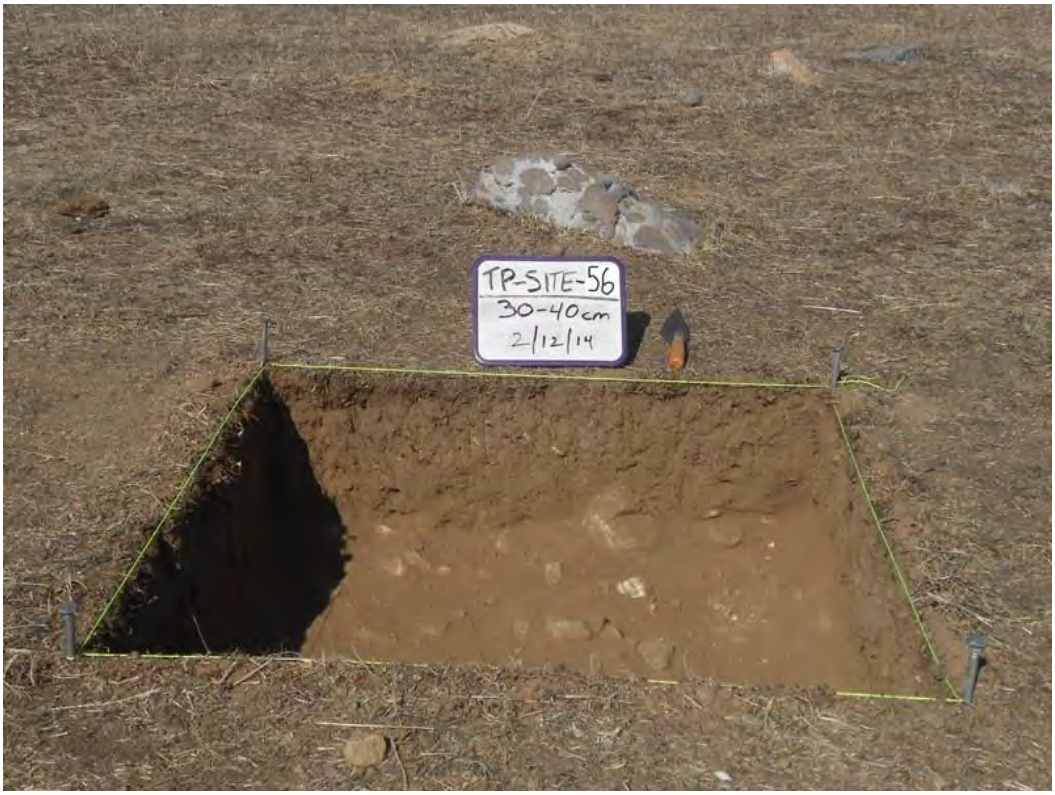

Figure E18. TP-SITE-56. CU1 showing large clasts in floor, looking north.

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Figure E19. TP-SITE-57. BRM1 overview, looking east.



Figure E20. TP-SITE-60. Feature 1 overview, looking west.

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Figure E21. TP-SITE-61. CU1 floor overview, looking west.

CONFIDENTIAL APPENDIX F

Artifact Catalog

Not Included

Appendix G.3

Amendments to Phase I Survey/Class III Inventory

And

Phase II Text Excavations and Determinations of Significance, 18 Sites in the Grapevine Specific Plan Area

AMENDMENTS TO

PHASE I SURVEY/CLASS III INVENTORY, GRAPEVINE SPECIFIC PLAN AREA, TEJON RANCH, KERN COUNTY, CALIFORNIA

PHASE II TEST EXCAVATIONS AND DETERMINATIONS OF SIGNIFICANCE, 18 SITES IN THE GRAPEVINE SPECIFIC PLAN AREA, KERN COUNTY, CALIFORNI

Prepared for:

Tejon Ranchcorp
4436 Lebec Road
Tejon Ranch, California 93243

Prepared by:

David S. Whitley, Ph.D., RPA
Principal Investigator,

ASM Affiliates, Inc.
20424 West Valley Boulevard, Suite A
Tehachapi, California 93561

June 2015

ASM affiliates
archaeology
history
ethnography
architectural history
historical architecture

22 November 2014

Ms. Diana Hurlburt
Director of Environmental Planning
Tejon Ranch Company
4436 Lebec Road
Tejon Ranch, CA 93243

RE: Amendment to Cultural Resources Technical Studies, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California

Dear Ms. Hurlburt:

A Phase I Survey/Class III inventory, and a Phase II Determination of Significance/National Register of Historic Places (NRHP) eligibility evaluation of a portion of historical site CA-KER-4835H, were conducted during November, 2014. These studies serve as an amendment to the "Phase I Survey/Class III Inventory, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California," and the "Phase II Test Excavations and Determinations of Significance, 18 Sites in the Grapevine Specific Plan Area, Kern County, California," completed by ASM Affiliates in 2014. The survey and site evaluation were necessary due to the addition of a proposed CVEF/Weigh Station within the Tecuya Creek Rangeland Trust HCP, and an alternative truck route proposed for the east side of the Grapevine project area.

The CVEF/Weigh Station is a 35.27 acres property located on the west side of the Interstate-5 Highway at the Highway 99 intersection (Figures 1 and 2). The property is roughly triangular in shape with the CVEF Overlay constituting about 21 of the 35.27 acres, immediately alongside the freeway. Tecuya Creek crosses the southwestern corner of this study area, which is currently open rangeland.

The alternative truck route is approximately 3.14 miles long (Figures 3 and 4). It runs north-south along an existing farm road, through vineyards, orchards and agricultural fields, near the eastern side of the Grapevine Specific Plan Area.

The survey and evaluation involved an archival records, intensive on-foot inventory and, in the case of previously recorded historical site CA-KER-4835H, a Phase II determination of significance and NRHP eligibility evaluation.

Records Searches

In order to determine whether the two study areas had been previously surveyed for cultural resources, and/or whether cultural resources were known to exist within it, archival records searches were conducted at the Southern San Joaquin Valley Information Center (IC), housed at California State University, Bakersfield. The records searches were completed to determine: (i) if prehistoric or historical archaeological sites had previously been recorded within the study areas; (ii) if the study area had been systematically surveyed by archaeologists prior to the initiation of this field study; and/or (iii) whether the region of the field project was known to contain archaeological sites and to thereby be archaeologically sensitive. Records examined included archaeological site files and maps, the National Register of Historic Places (NRHP), Historic Property Data File, California Inventory of Historic Resources, and the California Points of Historic Interest.

The IC records search for Grapevine Specific Plan Area, completed in 2013, covered the alternative truck route in its entirety. No sites had been recorded on or in the vicinity of the proposed route.

A separate records search was completed by the IC for the CVEF/Weigh Station in November 2014. The IC records indicate that this study area had been surveyed in its entirety in 1997 (IC manuscript #KE1750; LSA, Inc., 1997, *Cultural Resource Survey for a 2,600 Acres Parcel on Tejon Ranch near Wheeler Ridge, Kern County, California*). This resulted in the discovery and recording of historical site CA-KER-4835H (P-15-5674), most of which is located [redacted]. The site was described as an oil industry-related facility consisting of tanks, four structures believed to date from 1950 to 1980, associated sheds, capped well head, brick scatters, dispersed refuse, and refuse concentrations in Tecuya Creek. These last features were inferred to be secondary deposits that had washed down from the original Wheeler Ridge townsite, located to the southeast. The bottles identified on site dated from about 1917 to 1956, with the firebricks falling from 1900 – 1942. The site was inferred to have an age from post-1920 to contemporary times. The site was considered to be in fair condition in 1997, though the "majority of the site containing the structures has been bulldozed."

The southernmost portion of site CA-KER-4835H was surveyed again in 2001 for [redacted], and the site record was updated (IC manuscript #KE2560, R.A. Schiffman, 2001, *Archaeological Investigation for the Darling Property*). [redacted]. By 2001 the site condition was described as "poor. Areas surrounding remains graded, paved, bulldozed. Banks of creek are currently mass wasting with extensive linear cracks and somewhat recent collapse of portions of the bank."

A Sacred Lands File Search was also conducted by the California Native American Heritage Commission (NAHC), to determine whether sacred sites were known to be within or in proximity to the study areas. Based on their files, no Native American cultural resources or traditional cultural places were known to be present within the study area.

Field Survey Methods

The field methods employed included intensive, on-foot examination of the ground surface for evidence of archaeological sites, in the form of artifacts, surface features (such as bedrock mortars

or house pits), and archaeological indicators (e.g., organically enriched midden soil or burnt animal bone); the identification and location of any new or previously discovered sites; tabulation and recording of surface diagnostic artifacts; site photography and sketch mapping; preliminary evaluation of site integrity; and site recording or, in the case of previously recorded sites, site record updating. The California Office of Historic Preservation Instructions for Recording Historic Resources and DPR 523 forms were followed and employed for site recording.

The study area was examined by walking parallel 15-meter transects. Surface visibility, overall, was good to excellent. The alternative truck route and surrounding fields were surveyed during the original 2013 Phase I inventory for the Grapevine Specific Plan Area. As an existing dirt roadway, visibility was excellent on the route, including a cleared buffer of about 5-m on both sides of the farm road.

The 35.27 acres CVEF/Weigh Station was re-surveyed in November 2014. Visibility was good with a light density cover of introduced grasses and tumbleweed present. Tecuya Creek, an ephemeral drainage, cuts through the study area and appears to have experienced substantial erosion. This has resulted in collapsed stream walls, exposing gravels that reflect the fact that the study area is on an alluvial fan.

Field Survey Results

No cultural resources of any kind were identified during the survey of the alternative truck route and adjacent areas.

The CVEF/Weigh Station study area was found to be covered with a moderate density of contemporary/modern refuse, likely resulting from the adjacent freeway traffic. Two loci of previously recorded historical site CA-KER-4835H were identified within the 35.27 acres study area, [redacted] (Confidential Attachment, Figure 5). Both loci consist of small surface refuse concentrations.

Phase II Determination of Significance/NRHP Eligibility

Due to the presence of a portion of site CA-KER-4835H within the CVEF/Weigh Station study area, a Phase II determination of significance/NRHP eligibility evaluation was conducted. Fieldwork consisted of the identification and mapping of the site boundary and any historical structural features within that boundary, using a high-precision GPS unit; photographic documentation of site surface features, if present; identification and tabulation of diagnostic surface historical artifacts; evaluation of the site using the criteria for NRHP eligibility outlined at 36 CFR § 60.4; and a site record update, using DPR 523 series forms. Given the nature and small size of the discovered remains, and their location on an active alluvial fan, no subsurface testing was considered necessary because the possibility of subsurface remains is very remote. Because all identified artifacts comprise very common, mass-produced and relatively recent items, no artifact collection was completed.

Locus 1 (Confidential Attachment, Figures 6 and 7) is a small refuse scatter containing a mix of historical artifacts and modern items. The modern items are likely examples of the medium density

of recent refuse that is present within the study area, as a result of its adjacency to the freeway. The concentration measures 36-ft (11-m) east-west by 35-ft (11-m) north-south. Artifacts include seven historic amber, one clear glass bottle, and a tin can fragment with a church key opening. Diagnostic bottle makers' marks identified in this small concentration are the following:

- Three intact amber glass bottles with the Maywood Glass Co. makers mark (1930-59) on their bases. The number 54 is located to the right of the makers' marks and most likely represents a 1954 manufacturing date.
- One intact amber glass bottle with the GC maker's mark (post-1945) embossed on the base.
- One intact amber glass bottle with the Thatcher & Glass Co. (1944-1982?).
- One intact amber glass bottle & one intact clear glass bottle. Both have the Owens-Illinois maker's mark combined with the cursive Duraglass mark on their bases. The amber bottle most likely dates to about 1940 while the clear glass bottle dates to approximately 1950 (J.C. Horn, 2005, *Historic Artifact Handbook*, Colorado Historical Society).

Locus 1 appears to date from 1940 to the mid-1960s.

Locus 2 is a tin can scatter that measures 45-ft (14-m) NW – SE by 36-ft (11-m) north-south (Confidential Attachment, Figures 8 and 9). A total of 22 cans were identified, all of which are sanitary seal cans with "church key" openings, indicating that they held liquids. Three sizes are present: $2^{11/16}$ by $4^{7/8}$, $6^{3/16}$ by $2^{5/8}$, and $6^{3/16}$ by $4^{1/2}$ inches. The first is a 12 oz. fruit or tomato juice can. The other two sizes are not common for foods/liquids (see J. Rock, 1987, *A Brief Commentary on Cans*, Coyote Press), and may have contained industrial fluids (such as oil). Although sanitary seal cans and church key openings have a long history of use, the most likely date of this scatter is the early 1940s to the mid-1960s.

Both loci represent small refuse concentrations that appear to reflect single incident dumping events. Given their distance from other portions of site CA-KER-4835H, including especially the concentration of structures at the western side of the site, it is unknown whether either of these loci are chronologically or functionally associated with the site, although such an association seems unlikely given the proximity of the highway corridor and the refuse that accumulates alongside it.

Determination of Significance/NRHP Eligibility Recommendations

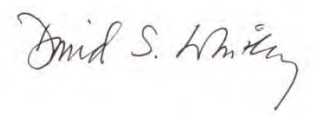
Loci 1 and 2 of historical site CA-KER-4835H (P-15-5674) represent small, single incident refuse scatters dating from the mid-twentieth century. Their association with the main components of this site, [redacted] is unknown. It is possible, if not likely, that they are unrelated to the larger site and instead reflect casual dumping associated with the highway corridor through this area. Neither locus is associated with significant historical events or persons, nor do the artifacts present represent distinctive types or maintain high artistic values, nor do these two loci contain information that is important to history.

Based on these circumstances, Loci 1 and 2 of CA-KER-4835H are recommended as not significant or NRHP eligible, and they do not contribute to any potential significance or eligibility

for the site as a whole. Development in the location of these two loci, therefore, does not have the potential to result in significant adverse impacts or effects, and no additional archaeological work is recommended at these locations.

Please feel free to contact me if you have any questions.

Best wishes,



David S. Whitley, Ph.D., RPA
Director

Confidential Attachment: Site record and maps – **NOT INCLUDED**



27 January 2015

Ms. Diana Hurlbert
Director of Environmental Planning
Tejon Ranch Company
4436 Lebec Road
Tejon Ranch, CA 93243

RE: Survey of Revised Boundaries – CVEF/Weigh Station, Grapevine Specific Plan Area

Dear Ms. Hurlbert:

The following is an updated Phase I Survey/Class III inventory report for the revised boundaries for the CVEF/Weigh Station, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California. The revised boundaries have expanded the CVEF area of potential effect (APE) from approximately 37 to about 116 acres (Figure 1). The reconfiguration and boundary expansion are required to accommodate access lanes for the I-5 and Hwy. 99 interchange.

Previous study

A Phase I Survey/Class III inventory, and a Phase II Determination of Significance/National Register of Historic Places (NRHP) eligibility evaluation of a portion of historical site CA-KER-4835H, were conducted during November, 2014. These studies served as an amendment to the "Phase I Survey/Class III Inventory, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California," and the "Phase II Test Excavations and Determinations of Significance, 18 Sites in the Grapevine Specific Plan Area, Kern County, California," completed by ASM Affiliates in 2014. The 2014 survey and site evaluation were necessary due to the addition of a proposed CVEF/Weigh Station within the Tecuya Creek Rangeland Trust HCP, and an alternative truck route proposed for the east side of the Grapevine project area.

An archival records searches was conducted at the Southern San Joaquin Valley Information Center (IC), housed at California State University, Bakersfield for the November, 2014 study. (Note that this records search covers the 2015 expanded CVEF APE). This record search documented the fact that much of the expanded APE had been surveyed in 1997 (IC manuscript #KE1750; LSA, Inc., 1997, *Cultural Resource Survey for a 2,600 Acres Parcel on Tejon Ranch near Wheeler Ridge, Kern County, California*). The 1997 study resulted in the discovery and recording of historical site CA-KER-4835H (P-15-5674), an oil industry-related facility consisting of tanks, four structures believed to date from 1950 to 1980, associated sheds, capped well head,

brick scatters, dispersed refuse, and refuse concentrations in Tecuya Creek. This historical site was primarily located [redacted].

Two possible loci of this previously recorded historical site were identified within the November 2014 CVEF study area, however. A Phase II determination of significance/NRHP eligibility evaluation was conducted for these two loci as part of the 2014 survey. Both loci consist of small, single incident surface refuse concentrations dating from the mid-twentieth century. Based on their location and nature, including their distance from the primary site concentration, their potential association with this site was unknown. Due to lack of research potential or other values, both loci were recommended as not significant or NRHP eligible, and no additional archaeological work was recommended for them.

A Sacred Lands File Search was also conducted by the California Native American Heritage Commission (NAHC), to determine whether sacred sites were known to be within or in proximity to the study areas. Based on their files, no Native American cultural resources or traditional cultural places were known to be present within the expanded CVEF study area.

2015 Field Survey

The expanded CVEF APE boundaries were intensively surveyed by Jena Rizzi, B.A., ASM Associate Archaeologist, on 21 January 2015. Field methods employed included intensive, on-foot examination of the ground surface for evidence of archaeological sites, in the form of artifacts, surface features (such as bedrock mortars or house pits), and archaeological indicators (e.g., organically enriched midden soil or burnt animal bone); the identification and location of any new or previously discovered sites; tabulation and recording of surface diagnostic artifacts; site photography and sketch mapping; preliminary evaluation of site integrity; and site recording or, in the case of previously recorded sites, site record updating. The California Office of Historic Preservation Instructions for Recording Historic Resources and DPR 523 forms were followed and employed for site recording.

The study area was examined by walking parallel 15-meter transects. Surface visibility was good to very good with a light density cover of introduced grasses, saltbush and tumbleweeds present in some locations. The majority of the study area consisted of graded and heavily disturbed areas immediately adjacent to the existing I-5 and Hwy. 99 routes.

Field Survey Results

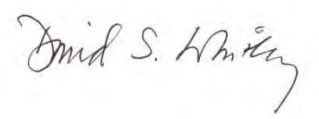
No cultural resources of any kind were identified during the survey of the expanded CVEF APE. The likelihood for extant, buried cultural resources in this area is very low, given the previous grading that occurred over the majority of it during the construction of the existing I-5 and Hwy. 99 interchange.

Recommendations

Construction and use of the expanded CVEF/Weigh Station does not have the potential to result in adverse impacts to cultural resources. No additional archaeological work is recommended for this area.

Please feel free to contact me if you have any questions.

Best wishes,



David S. Whitley, Ph.D., RPA
Director



24 July 2015

Ms. Diana Hurlbert
Director of Environmental Planning
Tejon Ranch Company
4436 Lebec Road
Tejon Ranch, CA 93243

RE: Survey of Revised Boundaries – CVEF/Weigh Station, Grapevine Specific Plan Area (Amendment #3)

Dear Ms. Hurlbert:

The following is an updated Phase I Survey/Class III inventory report for the revised boundaries for the CVEF/Weigh Station, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California. The revised boundaries have expanded the CVEF area of potential effect (APE) from approximately 116 to about 128 acres (Figure 1). The reconfiguration and boundary expansion are required to accommodate access lanes for the I-5 and Hwy. 99 interchange. This expansion involves 11.8 acres located immediately north of and intermediary to the I-5 and Hwy. 99 interchange.

Previous study

A Phase I Survey/Class III inventory of the initial 35.27 acres CVEF APE, and a Phase II Determination of Significance/National Register of Historic Places (NRHP) eligibility evaluation of a portion of historical site CA-KER-4835H, were conducted during November, 2014. These studies served as an amendment to the "Phase I Survey/Class III Inventory, Grapevine Specific Plan Area, Tejon Ranch, Kern County, California," and the "Phase II Test Excavations and Determinations of Significance, 18 Sites in the Grapevine Specific Plan Area, Kern County, California," completed by ASM Affiliates in 2014. The 2014 survey and site evaluation were necessary due to the addition of a proposed CVEF/Weigh Station within the Tecuya Creek Rangeland Trust HCP, and an alternative truck route proposed for the east side of the Grapevine project area.

An archival records searches was conducted at the Southern San Joaquin Valley Information Center (IC), housed at California State University, Bakersfield for the November, 2014 study. (Note that this records search covers the entirely of the 2015 expanded CVEF APE, including this latest addition). This record search documented the fact that much of the expanded APE had been surveyed in 1997 (IC manuscript #KE1750; LSA, Inc., 1997, *Cultural Resource Survey for a 2,600 Acres Parcel on Tejon Ranch near Wheeler Ridge, Kern County, California*). The 1997 study

resulted in the discovery and recording of historical site CA-KER-4835H (P-15-5674), an oil industry-related facility consisting of tanks, four structures believed to date from 1950 to 1980, associated sheds, capped well head, brick scatters, dispersed refuse, and refuse concentrations in Tecuya Creek. This historical site was primarily located west and south of the CVEF APE.

Field methods employed for the survey included intensive, on-foot examination of the ground surface for evidence of archaeological sites, in the form of artifacts, surface features (such as bedrock mortars or house pits), and archaeological indicators (e.g., organically enriched midden soil or burnt animal bone); the identification and location of any new or previously discovered sites; tabulation and recording of surface diagnostic artifacts; site photography and sketch mapping; preliminary evaluation of site integrity; and site recording or, in the case of previously recorded sites, site record updating. The California Office of Historic Preservation Instructions for Recording Historic Resources and DPR 523 forms were followed and employed for site recording. The study area was examined by walking parallel 15-meter transects.

Two possible loci of the previously recorded historical site were identified within the November 2014 CVEF study area. A Phase II determination of significance/NRHP eligibility evaluation was conducted for these two loci as part of the 2014 survey. This involved intensive survey, at 2-m transects, artifact identification and GPS mapping. Because all identified artifacts consisted of common, mass-produced objects, no collection was undertaken. Both loci consist of small, single incident surface refuse concentrations dating from the mid-twentieth century. Based on their location and nature, including their distance from the primary site concentration, their potential association with this site was unknown. Due to lack of research potential or other values, both loci were recommended as not significant or NRHP eligible, and no additional archaeological work was recommended for them.

A Sacred Lands File Search was also conducted by the California Native American Heritage Commission (NAHC), to determine whether sacred sites were known to be within or in proximity to the study areas. Based on their files, no Native American cultural resources or traditional cultural places were known to be present within the expanded CVEF study area.

January 2015 Field Survey

An expansion of the CVEF APE boundaries from approximately 35 to 116 acres was intensively surveyed, using the field methods employed for the previous survey, in January 2015. Surface visibility was good to very good with a light density cover of introduced grasses, saltbush and tumbleweeds present in some locations. The majority of the study area consisted of graded and heavily disturbed areas immediately adjacent to the existing I-5 and Hwy. 99 routes.

No cultural resources of any kind were identified during the survey of the expanded CVEF APE in January 2015. The likelihood for extant, buried cultural resources in this area is very low, given the previous grading that occurred over the majority of it during the construction of the existing I-5 and Hwy. 99 interchange.

July 2015 Survey

The proposed CVEF APE was expanded to approximately 128 acres in July 2015. The expansion incorporated a triangular piece of property located immediately adjacent to and north of the I-5 and Hwy. 99 interchange. An intensive survey of this 11.8 acres property was completed on 23 July 2015 using the field methods described above. Ground surface visibility was good, with grasses generally sparsely dispersed.

The 11.8 acres study area consisted of an area of open, flat land that has been previously graded, most likely during highway construction. It contains an operating pumpjack, with a flowline crossing the property. Palm and eucalyptus trees are present on different parts of the property, as is an old barbed wire fence and a number of dirt tracks. Modern/contemporary trash is present in medium to low density across the majority of the property.

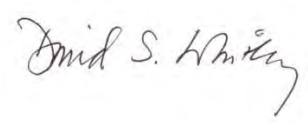
No cultural resources of any kind were observed during the survey.

Recommendations

Construction and use of the expanded CVEF/Weigh Station does not have the potential to result in adverse impacts to cultural resources. No additional archaeological work is recommended for this area.

Please feel free to contact me if you have any questions.

Best wishes,



David S. Whitley, Ph.D., RPA
Director

Appendix G.4

Cultural Cumulative Impact Package / Sebastian Reserve Submission

TEJON RANCH
COMPANY

April 7, 2016

Mr. Craig Murphy
Community Development Division Chief
Kern County Department of Planning & Community Development
2700 "M" Street, Suite 100
Bakersfield, CA 93301

Re: Grapevine Project Cultural Resources Cumulative Impacts

Dear Mr. Murphy:

Enclosed please find the materials related to the Sebastian Indian Reserve Discontiguous Archeological District (Sebastian Reserve District) for consideration in the cumulative impact section of the Grapevine Project EIR.

The Sebastian Reserve District, now listed in the California Register, has been determined eligible for the National Register and has been forwarded by the State Historical Resources Commission to the Keeper of the National Register for listing. The Sebastian Reserve District is located on Tejon Ranch at the foot of the Tehachapi Mountains, within the southern limits of the San Joaquin Valley, Kern County, California. The district comprises the known, extant remains of the California Historical Landmark #133 Sebastian Indian Reservation (P-15-007674/CHL 133), designated in 1934, the boundaries and constituent elements of which were never legally defined due to the age of the listing. In 2013, Tejon Ranch sponsored a project to identify and map the existing remnants of the reserve and to nominate all contributing sites to the National Register as a historic district, to ensure its preservation.

In 2014, the Sebastian Reserve District was nominated for listing in the National Register (see Attachment 1), and the Historical Resources Commission approved the nomination by consent calendar on November 7, 2014 (see Attachment 2). Approval by the Historical Resources Commission means that it is listed on the California Register of Historical Resources and found to be eligible for listing on the National Register of Historical Places. Final approval by the Keeper of the National

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Tejon Ranch, CA 93243
661 248 3000 O| 661 248 3100 F
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Register will officially add the district to the National Register; Keeper approval is expected and pending but no estimate of timing is available.

The geographical boundaries of this district as well as its contributing sites, were described in the Sebastian Reserve District nomination form (see Attachment 1). Specifically, as nominated and approved by the Historical Resources Commission, the district consists of five (5) primary Native American villages occupied during the district's period of significance (1850 – 1875), including the first reserve headquarters, and remnants of the second headquarters. The archeological sites comprising the district, and the features and artifacts within them, accordingly, represent the only physical remnants of the original reservation.

Within the boundaries of the Sebastian Reserve District, there are three sites located within or immediately adjacent to the Grapevine project study area, two of which are contributing sites and one which no longer retains integrity. The contributing sites include Live Oak Canyon Village (P-15-810/CA-KER-810) and Pastoria Creek Village (P-15-2185/CA-KER-2185), both of which will be fully avoided. The Live Oak Canyon site is located in designated open space within the Grapevine Specific Plan and the Pastoria Canyon Village site is located immediately adjacent in permanently protected open space preserved under the 2008 Tejon Ranch Conservation and Land Use Agreement, or "Ranchwide Agreement" as either dedicated or easement areas (see Attachment 3).

Significance Conclusion

Cultural resource impacts are site-specific and not generally subject to cumulative impacts unless the multiple projects impact a common resource or an affected resource extends offsite, such as a larger historic town site or district. The cumulative analyses for cultural resources generally considers whether the proposed project, in combination with the approved or proposed projects identified in the cumulative projects list, could cumulatively affect any cultural resources that are located within the site and extend to offsite locations.

Here, there are no significant cultural resources on site that will be adversely impacted; therefore the project does not contribute to any cumulative impacts. Further, the portions of the Sebastian Reserve District that extend off-site are fully protected in conserved lands protected by conservation easements in perpetuity under the Ranchwide Agreement. Thus, the project proponent, which pursued nomination and listing of the district, not only made a commitment to preserve cultural resources on project site, but also throughout the Ranch as a whole.

Therefore, because the proposed Grapevine project does not have any on-site impacts to cultural resources and the cultural resource that extends off-site is conserved and protected from further development, the proposed project will not, in combination with other proposed or approved projects, impact cultural resources. Cumulative impacts to these resources are less than significant.

Please let me know if you have any questions.

Sincerely,

Derek Abbott
Vice President, Community Development & Resource Planning
Tejon Ranch Co.

Enclosures:
Attachment 1 – National Register of Historic Places Registration Form
Attachment 2 – Historic Resources Commission Meeting Agenda
Attachment 3 – Off-Site Location of Sebastian Reserve District Contributing Sites on Conserved Areas

NPS Form 10-900 OMB No. 1024-0018

United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form

1. Name of Property

Historic name: Sebastian Indian Reserve Discontiguous Archeological District
Other names/site number: Sebastian Military Reserve, Sebastian Reservation, Tejon Indian Reservation, CA-KER-280, -810, -1085, -1091 & -2185
Name of related multiple property listing**:** N/A

---

2. Location

Street & number: _____
City or town: Tejon Ranch State: California County: Kern
Not For Publication: [ ] Vicinity: [x]

---

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended,

I hereby certify that this ___ nomination ___ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60.

In my opinion, the property ___ meets ___ does not meet the National Register Criteria. I recommend that this property be considered significant at the following level(s) of significance:

___national ___statewide ___local

Applicable National Register Criteria:

___A ___B ___C ___D

_____

Signature of certifying official/Title: **Date**

_____

State or Federal agency/bureau or Tribal Government

In my opinion, the property ___ meets ___ does not meet the National Register criteria.

_____

Signature of commenting official: **Date**

_____

Title : **State or Federal agency/bureau or Tribal Government**

Sebastian Indian Reserve Discontiguous Archeological District | Kern County, California

Name of Property | County and State

4. National Park Service Certification

I hereby certify that this property is:

___ entered in the National Register

___ determined eligible for the National Register

___ determined not eligible for the National Register

___ removed from the National Register

___ other (explain:) _____

Signature of the Keeper | Date of Action

5. Classification

Ownership of Property

(Check as many boxes as apply.)

Private:	X
Public – Local	
Public – State	
Public – Federal	

Category of Property

(Check only **one** box.)

Building(s)	
District	X
Site	
Structure	
Object	

Number of Resources within Property
(Do not include previously listed resources in the count)

Contributing	Noncontributing	
	1	buildings
6	1	sites
		structures
		objects
6	2	Total

Number of contributing resources previously listed in the National Register n/a

6. Function or Use
Historic Functions
Domestic (village sites)
Defense (military facility – military post)
Industry (mill)
Religion (religious facility – church, ceremonial features)
Funerary (cemetery)
Agriculture (agricultural fields)

Current Functions
Agriculture (pastures)

7. Description

Architectural Classification
N/A

Materials:
N/A

Narrative Description

Summary Paragraph

The Sebastian Indian Reserve Discontiguous Archeological District consists of 6 archeological sites in Kern County, California. These sites represent 5 of the 9 primary villages of one of the first Indian reserves in California, (including the first reserve headquarters), and remnants of the second reserve headquarters. Together these sites are considered to have a period of significance from 1850 to 1875. This twenty-five year period witnessed the events immediately leading to the creation of the reserve, the attempt at its creation and ultimate dissolution, and the period of consolidation of the multi-tribal resident Native American population into a single settlement and tribal entities. While each of the included historical properties now comprise archeological sites lacking standing structures, they maintain archeological integrity under Criterion D. The District is significant under Criterion A, due to its demonstrated association with the ethnogenesis of a new tribal organization, the Tejon Indian Tribe; and Criterion D, because of the District's potential value for archeological research, especially concerning the nineteenth century acculturation and assimilation of Native American peoples.

Narrative Description

The Sebastian Indian Reserve Discontiguous Archeological District is located on Tejon Ranch at the foot of the Tehachapi Mountains, within the southern limits of the San Joaquin Valley, Kern County, California. The district comprises the known, extant remains of 5 primary Native American villages occupied during the District's period of significance (1850 – 1875), including the first reserve headquarters, and remnants of the second headquarters consisting of a mill the original Fort Tejon barracks. Following the reserve's planned lay-out, these historical properties consist of a series of archeological sites in canyon mouths or along nearby streams that were historically and intentionally isolated from one another. The larger geographical boundaries of the reserve were never legally defined due to changing Congressional directives on its overall size. The archeological sites comprising the district, and the features and artifacts within them, accordingly, represent the only physical remnants of the original reserve.

The District's environmental setting consists of the transition between the Tehachapi Mountains, to the south, and the open flats of the southern San Joaquin Valley, to the north. The foothills, canyon mouths and slopes of the Tehachapis are largely unmodified natural landscape in open-space, currently used for livestock grazing. Although the introduction of foreign plants has changed aspects of the flora of this area, especially grasses and other under-story species, the immediate setting of each extant site is minimally changed from its status during the period of significance. This setting consists of oak woodlands on the Tehachapi slopes, above the sites, with grasslands on the flats and riparian environments in the canyon bottoms that are adjacent to the sites.

The surrounding region includes orchards, vineyards, an oil field, a ranch headquarters, a gravel quarry, and the California Aqueduct, to the north; the Interstate-5 highway corridor to the west; and a series of transmission corridors that transect the area north-south. Three of the original nine Native American villages in the District have been destroyed by this development. The nineth village, historically described as located in a large, undisturbed oak woodland, has not been relocated despite survey efforts to do so.

Based on historical accounts and archaeological evidence, the District's period of significance is A.D. 1850 to ~1875. This represents the initial federal government's steps to and the establishment and operation of the reserve, its dissolution, the integration of the remaining Native American population into the subsequently created Tejon Ranch and, by circa 1875, the relocation of all resident Native Americans to Tejon Canyon.

These events resulted in the ethnogenesis of the Tejon Indian Tribe (Locklear et al. 2006), a multi-tribal group whose federal recognition was re-affirmed in 2012. In addition to the Tejon Indian Tribe, ethnic groups associated with the District include the Kitanemuk, Yokuts and Chumash, who originally occupied different District villages during the pre-contact period. Members of the Serrano, Owens Valley Paiute, Coso Shoshone, Kawaiisu, Tubatulabal, Fernandeño, and Tataviam tribes also jointly occupied the District during the operation of the reserve and contributed to the development of the Tejon Indian Tribe.

District Sites

District sites were identified through a combination of archival research and archeological survey and mapping. Five extant village sites variously contain adobe house foundations, visible house-pits, midden deposits, extensive artifact scatters, numerous milling features, and still-demarcated *milpas* or farm fields. One of these villages served as the original reserve headquarters; a second village served as the consolidation point for resident Native Americans after the dissolution of the reserve, an event which led to the ethnogenesis of the Tejon Indian Tribe. Also included in the District are the foundations of the original Fort Tejon barracks and the reserve mill, which were components of the second reserve headquarters.

Five of the original nine villages of the Sebastian Indian Reserve are fully or substantially intact from the perspective of their constituent archeological deposits, features and artifacts. A geographically isolated component of another aspect of the reserve, the second reserve headquarters, is archeologically preserved. All contributing elements of the District are in their original location with minimal change to landscape setting. Except for the second reserve headquarters, now adjacent to the old Tejon Ranch headquarters with its modern structures and facilities, all contributing sites continue to be actively grazed in open range-land. Although vegetation on and around the sites has changed since pre-contact times, due to the introduction of grazing and invasive plants, this process of change began during the District's period of significance as a result of the adoption of farming and livestock grazing by the reserve's Native American inhabitants. The current context and setting is thus considered relatively unchanged, with a single exception. View-shed has been altered by visible freeways, roads, major transmission corridors, a power plant, a sand and gravel quarry, large-scale agricultural fields, vineyards and orchards, an oil field, and the California Aqueduct. View-shed was not a significant value of the District during its period of significance, however, and the view-shed is therefore not considered a contributing value of the District, but this circumstance does not detract from the integrity of its associative and research values.

The District sites are most easily described by geographical location, as shown on Maps 1A and 1B. By location west to east, the sites are (1) Live Oak Canyon village and original reserve headquarters; (2) Pastoria Canyon village; (3) Tunis Creek village; (4) upper El Paso Creek headquarters (second reserve headquarters); (5) *el Monte en Medio* (Middle Grove) village; and (6) the Tejon Canyon *rancheria*. Historical documents indicate that Sebastian Indian Reserve villages previously existed at Grapevine Canyon, lower El Paso Creek, and *el Monte de Caporal* (*Caporal's* Grove), all of which were destroyed by earlier development. Another village (the tenth site in total) is also said to have existed in *el Monte en Medio* but efforts to re-locate it have been unsuccessful.

Live Oak Canyon Village:

Archeological site CA-KER-810 is located at the mouth of Live Oak Canyon, where the Tehachapi foothills abut the southern San Joaquin Valley floor. The site was recorded in 1978 as a prehistoric midden deposit with large concentration of bedrock mortar stations and cupules. Based on the archeological record alone, it is clear that CA-KER-810 is the Live Oak village that was occupied during the District's period of significance and that served as the first reserve headquarters. Historical accounts confirm this conclusion.

Archeological survey and intensive mapping (Maps 2A and 2B) of this location for purposes of this nomination have resulted in the identification of "melted" remains of two adobe structures (Photo 1); one unusually large, rock-sided house-pit (~38-m in diameter and 0.75-m deep; Photo 2); five additional, more typically-sized house-pits (~6-m in diameter); three probable privy pits; extensive midden deposits; 114 bedrock mortar stations; cupules (created in girls' puberty initiations, discussed below) on at least seven boulders; a small historical refuse dump; and

widespread scatter of artifacts. Although the large number of bedrock mortars suggests the site has a significant pre-contact component, its historic age is demonstrated by the adobe remains and numerous historical artifacts visible on the groundsurface. Included in these are fragments of whiteware ceramics, a miscellany of broken glass and pieces of metal, two iron plate plowshares that would have been bolted to a wooden mold board and appear similar to an 1830s-era Hudson plow, a Mission-era style hoe fragment, unificially-worked glass artifacts, horseshoes, and portions of a cast-iron wood burning stove with an embossed 1847 patent or manufacture date.

One of the adobe foundations is large (~5 x 16-m) and rectangular with fieldstone foundations visible on its eastern and southern sides. The second, smaller (~10 x 6-m) adobe remains appear to represent a 3-sided structure. An associated concentration of metal artifacts and fragments including a number of horseshoes along its southern and eastern (open) sides suggest this may have been a blacksmith shop.

Site size overall is calculated at 17.46 acres. The depth of the archaeological deposit is unknown but is estimated to be about 50-cm. With the exception of an area measuring about 20-m in diameter, which has been impacted by cattle trampling and loafing, a paved road running east-west through the narrow dimension of the site, three unpaved ranch tracks, ground squirrel burrows, and one displaced bedrock mortar station moved by road construction, the archaeological deposit at this site is in very good physical condition. The presence of intact and visible house-pits and the range of artifacts on the groundsurface further demonstrate this fact.

During the District's period of significance, the archaeological evidence indicates that this site would have consisted of a nucleated village, with a "core" habitation area consisting of the two adobe structures and the very large house-pit, with adjacent privies. Traditional (smaller) house-pits, the foundations for brush huts or *jacals*, surrounded this core area. Bedrock mortar stations, tied to the distribution of boulders along the adjacent stream, extend above and below the core area, with the majority of the stations to the north (downstream), where the canyon mouth opens up to the valley floor. Cupule boulders are all located north of the core area. Although the adobes represent an introduced architectural element, the overall plan and lay-out of this village followed traditional Native American patterns for this region.

No archaeological research has been conducted on this site, with the exception of its original recording in 1978 and the recent survey and mapping. Archival sources and historical accounts confirm the association of this site with the Sebastian Indian Reserve, however. Giffen and Woodward (1942:4) list this location as both "Old Tejon Ranch" and as the village *Couyan*, a Kitanemuk name for a Yokuts village and cemetery. Their information was obtained from ethnographic data collected by Richard Van Valkenburgh and Malcolm Farmer in 1933, who worked with a Kitanemuk informant (Farmer, personal communication, 2002). Giffen and Woodward stated that:

> "The adobe built by [Samuel] Bishop was located in the *Arroyo de los Encinos* ["live oak canyon"], on a slight rise of ground, near the north entrance of the arroyo. This was about eight miles northeast of [the second] Fort Tejon…" (1942:33).

Their description accurately describes the location of the adobe remains at CA-KER-810.

Local historian Frank Latta (1976) collected substantial information about Tejon Ranch history and its Native American inhabitants from Jose Jesus Lopez starting in 1916. Lopez worked on the Tejon Ranch from 1874 to 1939 as livestock manager. Although some inconsistencies exist in Lopez's information, as transcribed by Latta, he repeatedly identified Live Oak Canyon ("Arroyo Encino") as the original reserve headquarters (Latta 1976:143-144, 160-1) noting there were "still dim signs" of the adobes in the 1930s (Latta 1976:159).

Latta (1976:143) paraphrases Lopez as saying:

> "The site just below the lowest big live oak on *Arroyo de las Encinas* [sic], or Live Oak Creek, the one where you took the picture, is where [Samuel] Bishop and [Edward F.] Beale placed their *Rancho Viejo* [old ranch], the first headquarters for the Sebastian Indian Reserve. I know this to be a fact from a dozen or more Indians and Americanos, who were there about 1852 when the place was first established."

According to this same source, Samuel A. Bishop built "extensive adobes" at this site before 1852, which were occupied by Bishop and Beale while he was on the reserve.

Importantly, with respect to archeological confirmation of the written records, blacksmith/farrier Alexander Clapp also occupied this village (Phillips 2004:117). Lopez noted that:

> "One of my informers was a blacksmith named Clapp. He was first located at *Rancho Viejo* and then, as Government Blacksmith, he went to Fort Tejon when that place was established…Clapp often told me about all of this. He made a peculiarly shaped horseshoe, one with the ends projecting straight to the rear. Some of the new *vaqueros* objected to Clapp's horseshoes at first, but they almost always came to consider them best. The only objection I ever had to them was in the case of a horse that overreached. The toe of the hind foot might land on the projecting straight rear ends and pull off the front shoe…No one else in this country ever made a shoe like that" (Latta 1976:143-144).

Although apparently very rare in the nineteenth century, this style of horseshoe is used today for performance quarter-horse reining and reined-cowhorse competitions. These specialized horseshoes are now called "sliders" and, as Lopez indicated, they are distinctive from standard horseshoes. At least two of Clapp's then-unusual horseshoes were identified on the surface of the site during the survey for this nomination in an area where, based on additional metal artifacts and features, the blacksmith shop is believed to have been positioned.

Archival sources then indicate that Samuel Bishop created the first adobe structures in the region at this location, circa 1851-1852, on a pre-existing, pre-contact Native American village. This served as the first reserve headquarters until about 1854, when the headquarters was moved to upper El Paso Creek (below). Sources indicate that the Live Oak village continued to have Native American occupation until the early 1870s, when the process of consolidating all Native Americans on the Tejon Ranch and moving them to Tejon Canyon began (Latta 1976). The adobe structures may have been knocked down at that time to discourage re-occupation. The site area has formed part of open range-land since that time.

Pastoria Creek Village:

This village site is located within the broad, open lower reaches of Pastoria Canyon, primarily on the west bank of the creek, on a low creek terrace. It was recorded as CA-KER-2185 in 1987 as a large concentration of bedrock mortar stations with a long rock alignment. Intensive mapping for purposes of this nomination resulted in the identification of extensive midden deposits, two visible house-pits, 36 bedrock mortar stations (Maps 3A and 3B), lithic tools and debitage, groundstone artifacts, shellfish and burnt animal bone remains, whiteware ceramic and metal fragments, and an *Olivella* shell bead. This last artifact is metal needle-drilled, indicating post-1772 manufacture. The linear rock feature is the remnant of a cleared *milpa* adjacent to Pastoria Creek (Photo 3). It consists of straight alignments of cobbles and fieldstones running on its western edge ~200-ft parallel to the creek (roughly north-south) and ~100-ft east-west along its southern limit. A smaller segment of this boundary runs ~50-ft north-south along the eastern limits of the feature immediately alongside the stream. The field was likely placed next to the drainage to facilitate irrigation. A large midden deposit and house-pit are located directly west of the rock alignment/*milpa* field. Historical artifacts are concentrated in this portion of the site, suggesting that it represents the focus of the site occupation during the District's period of significance.

The site as a whole covers approximately 7.56 acres. Depths of the midden deposits at the site are unknown but are estimated at 20 – 50-cm. The Pastoria Canyon area in general has experienced significant alterations in the last 150 years. The California aqueduct and a paved road cross its mouth, while an electrical sub-station has been constructed on a ridge near the canyon entrance. These developments are downstream but visible from the site area. Power lines from a transmission corridor run directly over the village site. Despite these changes, the village is in good physical condition, as demonstrated by the presence of the intact rock alignment/*milpa* boundary, house-pits and artifacts on the groundsurface. The only visible, direct impacts to the site consist of rodent disturbance to middens, and the placement of survey markers in two bedrock mortar holes (Photo 4).

During the District's period of significance, the archaeological evidence suggests that the site consisted of a nucleated village with a series of traditional, small house-pits with brush hut structures, distributed across the site in a traditional, irregular Native American pattern. At least one of these structures was immediately adjacent to the cobble-edged *milpa*, which was an area

approximately 0.5 acres in size. Bedrock mortar stations are dispersed above and below the habitation area, on exposed boulders.

No archaeological research has been conducted at this site, beyond site recording and mapping. Historical accounts demonstrate that this village was a component of the Sebastian Indian Reserve, however. It was called, in different Native American languages, *Tripohow* (alternatively *Chipowi*), and *Tats'ik'oho* (cf. Johnson 1978); translations unknown. According to John Peabody Harrington's 1922 informant, Juan Coluco (McLendon and Johnson 1999), Alexis Godey lived at this village for a time with a Chumash woman named China. Phillips (2004:117-118) documents the fact that Godey and Bishop planted barley at this village, that most of its occupants were Tataviam, but that they also included at least one Serrano tribal member. Lopez indicates that a large reserve village was present here until the early 1870s (Latta 1976). The site likely contains a pre-contact component but its historical occupation can be estimated to have extended from the early 1850s to the early 1870s.

Tunis Creek Village:

The Tunis Creek village is located on a broad alluvial fan on the west side of Tunis Creek, a short distance below the narrow mouth of Tunis Canyon. This village was identified, recorded and mapped during the survey for this nomination (Maps 4A and 4B), at a location described in the historical records as one of the reserve villages. The site consists of a large midden deposit, 58 bedrock mortar stations, at least seven boulders with cupules, and four visible house-pits. A linear rock alignment on a low terrace adjacent to Tunis Creek, east and downslope of the site habitation area, is also present. This represents the west boundary of a cleared *milpa*, running parallel to the creek (approximately north-south) for about 225-ft. Associated surface artifacts at the site include lithic debitage, groundstone tools, fragments of glass and metal, whiteware ceramics, burnt animal bone, and a small iron plowshare embossed with "X4$^{1/3}$".

The concentration of cupule-covered boulders at the village is particularly notable (Photo 5). These ground cups differ from small/incipient bedrock mortar holes in that they were created during girls' puberty initiations in this region (Whitley 2000, 2006). They can be distinguished from bedrock mortars by their placement on vertical or near-vertical rock surfaces, making them unsuited for plant processing. The ritual act of creating cupules involved each girl briefly grinding in all cups, thereby symbolically connecting her to each woman who had previously completed the ceremony at this location, while simultaneously acknowledging the women's primary role in plant food preparation using morphologically-similar bedrock mortars. All identified reserve villages have examples of cupules, but the large numbers at Tunis Creek suggest potential longer or more intensive pre-contact occupation, and/or that this site was an important ritual aggregation center.

One of the house-pits at the village was particularly well-preserved and is demonstrative of the site's remarkable state of preservation. The house-pit measures about 5-m in diameter and 20-cm deep. Its floor comprises a visible midden littered with a mix of traditional Native American (lithic debitage, burnt animal bone) and Euro-American artifacts (glass, ceramics; Photo 6). Along with

the intact rock alignment *milpa* boundary, this house-pit illustrates the excellent physical condition of this site.

The site covers an area that is about 14.43 acres in size. The depth of the midden deposit is unknown but can be estimated at about 50-cm. Although the site likely contains a pre-contact component, it comprised part of the reserve from about 1850 to 1875. During that period, the archaeological evidence indicates that this nucleated village consisted of a series of small, somewhat randomly distributed, traditional house-pits with brush hut structures, with bedrock mortar stations on nearby boulder outcrops, and extending down the creek. The *milpa*, measuring about 0.6 acres in size, was located along the creek, below the habitation area. Cupule boulders are concentrated in the habitation area.

No archaeological research has been conducted at this site, beyond site recording and mapping. According to the historical records, however, the reserve village known as *Tutruw* in Yokuts and *Kapelexschnach* (possibly in Chumash) was located at this spot (McLendon and Johnson 1999; Johnson 1997a, 2000), affirming its connection to the reserve. *Tutruw* translates as "prickly pear cactus" (McLendon and Johnson 1999). The current drainage name "Tunis," as identified on USGS topographical maps, is a misspelling of *tunas*, "prickly pear cactus" in Spanish. Lopez stated that, in the early 1870s, a reserve village was still located here with about a dozen small homes (Latta 1976). According to this same source (Latta 1976:144), the first field farmed on the reserve was at this village, and it is most likely the still preserved *milpa* along the creek.

The pre-reserve tribal affiliation of this village is unknown but was likely Kitanemuk, inasmuch as the site falls within traditional Kitanemuk territory. Chumash from the (now destroyed) Grapevine Canyon village, led by Rafael Maria Aguinamogihuason, were moved here during the reserve period (McLendon and Johnson 1999), suggesting that it may have been multi-tribal by that point. Chumash residents also included Jose Sastre, a renowned weather shaman. A woman of unknown tribal affiliation, Modesta Tatsits, was the chief of this village either before or during the reserve period (Johnson 1997a, 2000). During the District's period of significance, the village was apparently a ritual aggregation center where dances and ceremonies attended by many reserve inhabitants were held. Alexis Godey was said to sometimes watch and participate in the dances (Latta 1976).

Upper El Paso Creek (second reserve headquarters, original Fort Tejon):

The original Fort Tejon and the second reserve headquarters were located on El Paso Creek, roughly 4-km below (northeast of) El Paso Canyon mouth. This location is a wide but low alluvial fan, which is characteristic of the southernmost open flats of the San Joaquin Valley. The south side of the creek served as the "old" Tejon Ranch headquarters, following the dissolution of the reserve in 1864, until the 1950s. It has continued to serve to this day as a ranch residence compound, with offices, workshops, houses and livestock and recreational facilities. With the exception of an unmodified, narrow strip immediately adjacent to the creek, the area north of the creek is covered by orchards.

No extant historical structures or archaeological remains have been identified on the south side of the creek. The original Fort Tejon barracks and one remnant of the second reserve headquarters have, however, been located in the narrow undeveloped strip north of the creek (Maps 5A and 5B). The barracks is on the first high terrace above the creek. It consists of a "melted" adobe rectangle, oriented true north, and approximately 100 by 50-ft in size. Few surface artifacts were observed surrounding the fort, partly due to limited groundsurface visibility during fieldwork. Fragments of broken glass, bits of metal and two historical glass trade beads were however noted.

Remnants of a mill structure are located southeast and downslope of the fort. They consist of a north-south passage or tunnel cut into the slope and a leveled pad extending west at the maximum elevation of the feature. The passage/tunnel appears to be the tail-race of the mill. It contains two parallel foundations along both (long-axis) sides (Photo 7). These were made with large, unmortared boulder and cobble foundations, providing stability to the sidewalls of the tailrace. No evidence of the flume that would have brought water to the mill could be located, and no additional remnants of the mill structure have been observed.

Additional features and artifacts have not been identified at this site, again most likely due to limited visibility during survey. Inasmuch as the groundsurface surrounding the fort and mill has not been disturbed by grading or plowing, it is likely that additional archaeological features are present, such as privies and trash pits. The extant archeological site is defined as the limits of these two visible features on north side of El Paso Creek, an area measuring 0.82 acres in size.

Beyond recording and mapping, no archaeological research has been conducted on this site. Archival evidence and historical accounts demonstrate the association of this site with the reserve, however, and are partly the basis for its identification. Coluco (McLendon and Johnson 1999) and Latta (1976) documented the transfer of the original reserve headquarters (in Live Oak Canyon; CA-KER-810) to upper *El Paso* ("the ford") Creek a short time after Edward F. Beale attempted to establish the reserve in 1853. The first Fort Tejon was built by the U.S. Army circa 1854 adjacent to the second reserve headquarters. The fort was moved shortly thereafter to the top of Grapevine Canyon, where it was thought to better control movement between the San Joaquin Valley and the Los Angeles Basin. This occurred in 1855, with the Grapevine Canyon fort still under construction in October of that year. A squad of dragoons continued to be quartered at the El Paso Creek fort, however (Kip 1892:222).

In 1922, Coluco described the sequence of events in establishing the second reserve headquarters and the fort, as follows:

> "Then they moved the headquarters up to *Laikiw* (El Paso) and built adobe houses where the store and Tejon ranch house now are. Not long after they moved there[,] the soldiers came. They were stationed first at *Laikiw*, where they made a big, triple-walled adobe barracks[,] the ruins of which are still to be seen. Soon after that the soldiers were moved

> to Fort Tejon in the mountains and were greatly increased in numbers" (McLendon and Johnson 1999:XI-52).

Coluco refers to the fort on a hand drawn map accompanying his 1922 testimony as the *cuartel* ("barracks"). His suggestion that it was "tripled-walled" most likely means that it was a three-sided structure. The locational information in his description and on his sketch map correlate with the archaeological record.

The second reserve headquarters consisted of the first fort and a mill on the north side of the creek, and two adobe buildings directly south of the stream, partly shown in Coluco's sketch (McLendon and Johnson 1999:XI-52). One of the buildings to the south was the reserve superintendent's residence. According to an 1854 report by then-Superintendent of Indian Affairs in California, Thomas J. Henley:

> "There are upon the reservation one old adobe building used as a residence for the persons employed upon the farm, and one new adobe intended for the residence of the superintendent" (McLendon and Johnson 1999:XI-40).

Episcopalian Bishop William Ingraham Kip visited the reserve in 1855 and provided this description of the superintendent's house:

> "He has a plain house with one room on each side of the hall, where he lives with eight or ten of his employees" (1892:225).

The adobe fort was built after the 1854 Henley report, as indicated by existing military documents concerning the appropriation of funds for its construction (Heizer 1979; as of early 1854, the best location for the fort was still being debated). It appears to have been constructed later that year, however. Shortly thereafter, the fort at the top of Grapevine Canyon was established. Captain (later General) Edward D. Townsend visited the Grapevine Canyon Fort Tejon with Bishop Kip in October, 1855, followed by a visit to the reserve. Townsend described the reserve headquarters as follows:

> "I rose this morning just before day and took a bath in a mill race just above the Agent's house, and near a large adobe building used as a store house for barley, etc." (1970:129-130).

The date of the mill construction is unknown but this suggests that it was built circa 1854-1855. There are very few mentions of the mill in historical accounts, with the exceptions of Coluco's statement and map, Townsend's 1855 account of a mill-race, and an 1862 report by J.P.H. Wentworth, then superintendent. He noted that, at that time, the mill had been heavily damaged by recent heavy rains and "needs thorough repair" (McLendon and Johnson 1999:XI-46).

There are three Native American place-names for this location: *Laikiw* (or *Lakiu*) in Yokuts (McLendon and Johnson 1999; Kroeber 1925); *Wawopraha-ve* in Kitanemuk (Kroeber 1925); and *Nahantruw*, perhaps in Chumash (McLendon and Johnson 1999); translations unknown. The Chunut Yokuts are said to have resided at this location, accompanied by the Hometwoli Yokuts Chief Remundo (Phillips 2004:122-123). Remundo's occupation is verified by Coluco (McLendon and Johnson 1999), who specifically states that it was on El Paso Creek across from the Tejon store, placing it the general area of the barracks and mill. This may represent a slightly later re-occupation of the then-abandoned barracks. The glass trade-beads noted on the groundsurface adjacent to the adobe barracks may reflect this re-occupation, but no other Native American artifacts or features have been identified in this area. No unequivocal archaeological evidence for Native American occupation of this site or surrounding area, accordingly, has been identified, perhaps due to the history of ranch use and development in this immediate area.

The south side of the creek, which contained the other reserve adobes, has been graded and modified over the last century and a half due to its use as the first Tejon Ranch headquarters. According to Coluco (McLendon and Johnson 1999), the original reserve-era adobe structures on the south side of the creek were replaced by the Tejon Ranch store and manager's house. Van Valkenburgh and Farmer's notes (Farmer, personal communication, 2002), apparently from an interview with J.J. Lopez, indicate that a stone Tejon Ranch store/commissary was built in 1866. Crowe (1957) and Latta (1976) state the ranch manager's house burned down circa 1917 and the store/commissary was destroyed by the 1952 White Wolf earthquake, with the resulting debris carted away. The south side of the creek has been subsequently and repeatedly renovated and changed. It now contains a series of contemporary ranch houses and other structures, lacks archeological remains, and is not included in or considered contributory to the District.

The original Fort Tejon barracks dates from 1854 to approximately 1857, when Fort Tejon in Grapevine Canyon was (temporarily) abandoned. The original barracks may have been re-occupied subsequently by Chief Remundo, as suggested by above, but this has not been verified. The mill appears to have been constructed and used from 1854-1855 until after 1862. During the district's period of significance, these two structures were the primary elements of the built-landscape on the north side of the creek, with the majority of the development to the south. Although that portion of the second reserve headquarters has been destroyed, the small component of the second reserve headquarters to the north of the creek is archaeologically intact.

El Monte en Medio Village:

El Monte en Medio ("the middle grove") is a large oak woodland that extends from the confluence of Tejon and Chanac creeks roughly two miles south, or upstream, along Tejon Creek. The woodland covers approximately two square miles of land. It was said to contain 'two or three' Kitanemuk villages, including the biggest and most important (McLendon and Johnson 1999), located along Tejon Creek somewhere above its confluence with Chanac Creek. This was known as *Mahvie* in Kitanemuk, in Yokuts as *Toinew Yauliw* (Giffen and Woodward 1942; McLendon and Johnson 1999) and, in Chumash, as *Mumumpea* (Johnson 1997b); translations unknown.

A second reserve village in *El Monte* is more specifically placed on Chanac Creek just below Cummings Valley, and thus against the western slope of the Tehachapi Mountains. Although the records are limited, this appears to have been named *Tsuitsaw* in Yokuts (McLendon and Johnson 1999), and *Ueeseuit* in Kitanemuk (Gifford and Woodward 1942); translations again unknown.

Tsuitsaw consists of previously recorded archeological sites CA-KER-1085 and -1091, located a short distance apart at the mouth of upper Chanac Canyon, below Cummings Valley. These sites were recorded in 1977 as prehistoric midden deposits with surface artifacts, extensive bedrock mortar stations, and one intact house-pit. CA-KER-1085 was initially estimated to be greater than 50% disturbed due to grading for an access road and the tower foundations of two transmission lines, which cross the site. A 1987 site record update stated that the site retained excellent research potential, however, despite previous disturbance.

Archeological survey and mapping for purposes of this nomination re-located both sites (Maps 6A and 6B), and found that CA-KER-1085 is larger, and less damaged, than originally recorded. Representing the southeastern (upstream) of the two village loci, it contains midden deposits on both sides of the creek, 15 bedrock mortar stations (Photo 8), one intact house-pit, and a variety of surface artifacts. The house-pit, located on the north side of a low knoll below a transmission tower, is approximately 5-m in diameter and about 20 cm deep (Photo 9). Artifacts on the site included two pestles *in situ* in bedrock mortars, burnt animal bone, metal fragments, and other groundstone and flaked stone tools and debitage. CA-KER-1091, the northwestern (downstream) locus, consists of a midden deposit surrounding a large bedrock outcrop, which itself contains about 75 bedrock mortars. Observed surface artifacts included another *in situ* pestle, debitage and burnt animal bone fragments. The total area containing both village loci is 11.85 acres. The depth of the midden deposits is unknown but can be estimated at about 50-cm depth.

As first noted in 1977, grading for a dirt access road and two transmission tower foundations has disturbed a significant portion of CA-KER-1085. We estimate this disturbance, based on sub-meter accuracy GPS mapping, as less than 20% of the site deposit, not more than 50% as was previously speculated from quick sketch mapping. The good physical condition of intact portions of this site is demonstrated by the visible house-pit and the presence of pestles still in-place in bedrock mortar holes. CA-KER-1091 has no visible impacts beyond rodent disturbance. Its good physical condition is again further demonstrated by an *in situ* pestle.

Other than site recording and mapping, no archaeological research has been conducted on *Tsuitsaw*. Although some information is available concerning the reserve history of *El Monte en Medio* in general, the only specific historical or ethnographic information for this village is its Native American place-name. The general information indicates, however, that this village was occupied by the Kitanemuk. Northern Paiute were brought to *El Monte en Medio* during the reserve era, probably during the Owens Valley Indian War, but most of them did not stay (McLendon and Johnson 1999); whether they were placed at *Tsuitsaw* is unknown. The village's occupation during the District's period of significance can be estimated at 1850 to about 1870, although there is likely

an earlier pre-contact component to the village, judging from the number of bedrock mortars and stations that are present. During this period, this site most likely would have consisted of two nucleated village areas, each with house-pits and brush huts, laid-out similar to the pre-contact village pattern.

Tejon Canyon Rancheria:

The best known reserve village, due to its continued occupation into the mid-twentieth century and its association with contemporary Tejon Indian Tribe members, was a Kitanemuk settlement called in that language *Nakwalki-ve* (Kroeber 1925; Giffen and Woodaward 1942), translation unknown. It was more commonly referred to by its Yokuts name, *Pusin Tinliu* (McLendon and Johnson 1999). This translates literally as 'dog hole,' or 'dog cave,' but should be transliterated as 'spirit helper cave,' as spirit helpers (*pu'us* in Yokuts) were commonly but inaccurately referred to in English as 'dogs' or 'pets' (Whitley 2000). It became known historically as Tejon *Rancheria*, with Tejon Creek sometimes called Rancheria Creek. This archaeological site is located on both sides of this stream in a broad, open canyon mouth, immediately above the southeastern corner of the San Joaquin Valley floor. The archaeological record at this site illustrates a transition from a traditional, nucleated, pre-contact Native American village to individual dispersed family homesteads, reflecting the consolidation of members of different tribes into this canyon by circa 1875, and their transition to a rural ranch economy.

The remnants of this village are currently concentrated in 10 discrete loci, as shown in Figures 7A and 7B. As described below, some of these loci represent individual family homesteads, some of which continued to be occupied into the twentieth century. In some cases there is archaeological evidence at these loci, such as a combination of traditional Native American features and artifacts (house-pits, midden deposits, lithic artifacts) with historical features and remains, indicating that these locations were occupied during the district's period of significance. In other cases this temporal association has been inferred, based on the long-term continuity in household occupation that characterized this settlement, as discussed below.

Historical maps dating from 1914, 1918 and 1933, along with information provided by Kathryn Montes Morgan and Gloria Montes Morgan (both of whom were born in the canyon and lived there into the 1960s), were used to identify the visible archaeological record at these loci. Archaeological remains include midden deposits, artifact scatters, refuse dumps, adobe house remains and foundations, visible house-pits, bedrock mortar stations, and a cemetery. The archaeological remains of an adobe Catholic Church, built in 1884 (Johnson 1978), are present in one of the loci. This is not considered a contributing property (site) because it does not date to the District's period of significance. A wood-frame school house, built in 1922, is located in another loci and, for the same reason, is not a contributing standing building.

The loci are as follows:

Locus 1: The northernmost of identified homesteads at the mouth of Tejon Canyon (Photo 10), this locus is adjacent to three old olive trees. It includes a house-pit depression and small adobe foundation with exposed cobbles on the west and north sides. Associated artifacts include metal and oxidized glass fragments. This homestead is shown on the 1914 USGS quadrangle, but is not shown on the 1918 or 1933 maps.

Locus 2: This homestead, shown on the 1914, 1918 and 1933 maps, was occupied into the mid-twentieth century. The Montes Morgan sisters (personal communication, 2013) recall attending, as young children, an all-night wake at this location for their then-recently deceased aunt, Viviana Gomez. It includes a large adobe foundation, two house-pit depressions, two medium to dense refuse scatters, and an associated old olive tree. Artifacts in the refuse concentrations include a variety of fragments of whiteware ceramics, glass and metal, as well as a partly buried automobile.

Locus 3: Locus 3, shown on 1914 and 1918 maps, is identified as the Ramon Hineo homestead on the 1933 Van Valkenburgh and Farmer sketch. It was occupied into the early 1960s by Catalano Montes (uncle of the Montes Morgan sisters), married to Ramon's daughter, who had constructed a new adobe house at this location. (As a teen-ager in 1930s, Catalano Montes worked as the driver for ethnographer John Peabody Harrington, who was completing his fieldwork in the region.) Archeological remains at this homestead consist of two adobe house foundations and a scatter of whiteware ceramics and metal, glass and brick fragments. An old fig tree is associated with the homestead. One of the adobe structures is L-shaped and appears to be the more recent Catalano Montes home. The homestead of Juan Lozada (chief of the Tejon Indian Tribe in the late nineteenth and early twentieth centuries, and great-grandfather of the Montes Morgan sisters) was in this immediate vicinity, possibly at this location.

Locus 4: Locus 4 straddles Tejon Creek and consists of an area containing the adobe foundations of the 1884 Catholic church for the settlement, shown on the 1914 and 1918 maps, a series of bedrock mortar stations (Photo 11), and a boulder with cupules. The church is not depicted on the 1933 map, but this general area is identified on that document as containing sweat-houses. Because the church was constructed after the District's period of significance, it is not considered a contributing component, though this locus as a whole is included as part of the larger settlement due to its other archaeological remains.

Locus 5: This large area appears to have been *Pusin Tinliu*, the pre-contact Kitanemuk village and the initial focus of the reserve settlement. It includes the Montes family's and two additional homesteads on the west side of Tejon Creek, along with previously recorded site CA-KER-280, a large midden deposit, and the 1922 Tejon school on the east, in addition to a number of scattered bedrock mortar stations. Three homesteads are shown on the 1914 and 1918 maps; only the Montes homestead and the school are depicted within this locus on the 1933 sketch.

The Montes homestead is the northernmost in this locus. It was occupied until 1965 by Vincent and Mary Montes and their children who, at that time, lived in a wood frame house, subsequently

washed away by a flash flood. Although no standing structures remain, the wood house was built on top of an older adobe, as indicated by a cut pad, an exposed linear foundation of cobbles and "melted" adobe. Bedrock mortar stations are also associated with this homestead, as are a variety of recent artifactual remains including fencing, milled lumber fragments, and a variety of metal and glass specimens.

Two additional homesteads are located on the west side of the creek, south of the Montes residence. The first of these is a small adobe foundation associated with a refuse concentration containing square nails, a small oval bottle base, and oxidized glass, whiteware ceramics and metal fragments. The second of these two homesteads consists of two adobe foundations, one of which has an exposed cobble foundation along its south and east sides. Both are on flat pads excavated into the slight slope. A possible house-pit is located between the adobes, and a privy pit is east of the eastern adobe. Artifacts associated with this homestead include a chert biface thinning flake, horseshoe, and part of a porcelain doll-head, along with fragments of whiteware ceramics, burnt animal bone, adobe bricks, oxidized glass, and metal.

The components of Locus 5 on the east side of the creek include previously recorded site CA-KER-280 (a concentration of bedrock mortars), the 1922 school building complex, and a large midden deposit which surrounds the school. The school compound itself consists of the wood-frame, gable-front single-room schoolhouse, water tank, and wire fencing. The school building is currently in poor condition. It is a non-contributing property in the District, as it does not date to the period of significance.

Locus 6: This locus consists of a homestead on the east side of the creek. It is shown on the 1914 and 1918 maps, but not on the 1933 sketch. The house structure was placed on the brow of the second terrace above the creek on a leveled pad. It was occupied into the early twentieth century by Irene Montes Gonzalez, cousin of the Montes Morgan sisters (personal communication, 2013). The locus includes adobe house remains with a fieldstone foundation and remnants of a brick fireplace at its southern end. A privy pit is located immediately to the west. Two bedrock mortar stations are present to the south, and a low-density scatter of metal fragments and wood timbers surrounds the house foundation. Old corral fencing is located on the terrace below the house remains. Two old olive trees are located about 300-m north of the house foundation on the lowest stream terrace. They may have been associated with this homestead or with another that currently has no other visible remains. A moderate density dump of historical artifacts is located in Tejon Creek west of the Gonzalez homestead. A wide variety of refuse is present including fragments of whiteware, earthenware and porcelain ceramics, glass and metal. This last category includes fragments of a wrought iron stove embossed "Tulare 8," a few tin cans, hog wire, and horseshoes.

Locus 7: Locus 7 is a homestead remnant consisting of an adobe foundation on the west side of Tejon Creek, placed on a leveled pad cut into a slight slope. It appears to be present on the 1914 and 1918 maps but not the 1933 sketch. In addition to the foundation, the locus includes a low-density surface scatter of whiteware ceramics, oxidized glass and calcined animal bones. A

bedrock mortar station is located to the southwest and a large, old olive tree is west of the adobe remains.

Locus 8: This homestead contains adobe remnants on a leveled pad and large a scatter of surface artifacts located on the west side of Tejon Creek. Portions of a fieldstone foundation are visible along the southern and eastern side of the structure. This homestead is not on the 1914 or 1933 maps but may be indicated as a "ruin" in the 1918 sketch. Observed artifacts include square nails, calcined animal bone, whiteware ceramics and oxidized glass fragments.

Locus 9: This is the southernmost historical occupation area identified within the settlement. It consists of a house-pit measuring approximately 8-m in diameter and 50-cm deep, within a midden deposit on a terrace above and to the west of the creek bottom. A series of bedrock mortar stations, a boulder with cupules, and low-density scatter of surface artifacts are also present. These included whiteware ceramics, calcined animal bone, and lithic debitage.

Locus 10: The final locus recorded within Tejon Canyon is the historical tribal Christian-cemetery located at the southernmost end of the settlement, distant from the homesteads. Shown on the 1914 and 1918 maps, it is a well-known feature within the canyon. It is currently fenced to keep out cattle with graves marked by white wooden crosses. It is maintained by the Tejon Indian Tribe and features prominently in their annual tribal gatherings. The cemetery is considered to be full, with no space for additional interments. Vincent Montes, father of Kathryn and Gloria Montes Morgan and the last tribal chief to reside in Tejon Canyon, was the last individual buried in the cemetery, in 1965.

The earliest use of this cemetery is not known. As a Christian cemetery, isolated from occupation areas, it represents a change from the traditional/pre-contact Native American pattern of interment within villages or in cemeteries immediately adjacent to residence areas. Many of the reserve's residents were Christians, however, including Chiefs Zapatero and Caporal, both of whom had lived at the missions earlier in their lives (Phillips 2004). The initial use of this cemetery, accordingly, is inferred to date to the District's period of significance, with Locus 10 thought to represent another manifestation of the change in settlement structure during the reserve period; a change also shown by dispersed homesteads within the Canyon generally. Based on its inferred age and importance, it is argued to be a contributing property in the district.

The appearance of the Tejon Canyon Rancheria settlement thus apparently changed over time. The earliest and most complete post-contact description of it is proved by Francisco Garces, who spent a week in Tejon Canyon in 1776. This emphasized the Kitanemuk's communal houses, unusual relative to the houses of many neighboring tribes, within a nucleated village area. After crossing the Tehachapis from the south, Garces wrote that:

> "I arrived at some rancherias of the Cuabajay [Kitanemuk] nation, wherein they received me well, the old women regaling me with many seeds…The disposition and form of their dwelling house is as follows: A spacious enclosure, completed by an archway or covering

> of mats upon bows of willows, the mats sown of the same tule, of which material is the roof composed, in which there are some openings for the escape of smoke. It has only two doors, on the east and west, and at each there is a sentinel at night. This cloister or corridor consists of several cells or compartments on all four sides wherein they enter to sleep whenever the hour arrives, and at this time each family stays by the fire in front of its own room" (Crowe 1957:28-29).

John C. Frémont spent part of the winter of 1847-1848 in the canyon, perhaps in the village, but left no description of it. Dr. Darwin French, similarly, established a ranch in the canyon mouth in 1850, where the Tejon Treaty of 1851 (discussed below) was signed. (It is possible that this occurred at Locus 1, described above, but there is no direct evidence of this possibility other than the location in the canyon mouth.) Despite period accounts of the sequence of events in that last historical occurrence, no information on the village itself was recorded. Coluco's 1922 testimony, however, makes clear that by 1875 all Native Americans on Tejon Ranch had been consolidated into the canyon and were living in individual homesteads, dispersed among farm fields (McLendon and Johnson 1999). This appears to represent a shift in settlement type from traditional, nucleated Native American village.

Carobeth Laird, then wife of renowned (if iconoclastic) early California ethnographer John Peabody Harrington, lived in the canyon in 1916 – 1917. She described the community at that time, which likely had changed very little since 1875, as follows:

> [It was an uphill climb to] the Tejon Ranch store [on El Paso Creek]; then more steeply upgrade, through rolling hills, to the *rancheria*, beyond which the Coastal Range [Tehachapis] rose abruptly, so that this whole small community was on a slope. Even the minute fields and vegetable gardens were atilt.
>
> We occupied a one-room adobe just at the edge of the brush and oak-covered slopes. There was another adobe close by which belonged to a pleasant, attractive, youngish woman named Juana. Below the houses a bare, grassy expanse of land inclined gently and endlessly. A small stream, cold even in summer, angled into and then ran parallel with this downward sloping field...The other houses in the village, some of wood and some of adobe, were scattered at random and at considerable distance from each other up the wooded slope (1975:30-31).

Two early maps confirm Laird's description of the nature of the historical Tejon Canyon settlement. The 1914 USGS 1:125,000 Caliente topographical quadrangle, surveyed between 1910–1912, shows 12 dispersed structures in the canyon. A survey, map of the canyon and report were subsequently completed by the U.S. Indian Irrigation Service (Locklear et al. 2006: Exhibit 22) in 1918, partly related to a then-ongoing Supreme Court case over the Tejon Indian Tribe's land ownership status. Although hand-drawn and more difficult to read, it shows at least ten structures, a number of which are annotated as "ruins," surrounded by farm fields.

Speaking to the question of continuity in residence at depicted homesteads, the 1918 report includes a photo with a caption as follows:

> "Panorama of lower end of El Tejon Rancheria, showing the land occupied by the lower group of four houses. Captain [i.e., Chief Juan] Lozada lives on the extreme right. He was born about 100 yards further up the valley. All the Indians living in this group have lived here all their lives."

Chief Lozada (great-grandfather of current tribal chair, Kathryn Montes Morgan) was born about 1859 (John Johnson, personal communication, 2013). He was described by Tejon Ranch livestock manager J.J. Lopez as "the best vaquero ever to work under me" (Latta 1976:93), observing further that he first hired Lozada in 1874 (Latta 1976:94), when Lozada was approximately 15 years old. Lozada in other words, continued to reside on the reserve-era homestead where he was born into the twentieth century. This indicates that at least some of the reserve era homesteads continued to be inhabited during the twentieth century and supports the probability these later homesteads may retain reserve-period archeological components.

A sketch map created by Richard Van Valkenburgh and Malcolm Farmer in 1933 (Malcolm Farmer, personal communication, 2002) shows three homesteads. This map also provides a series of local place-names, primarily in Kitanemuk. One of these is *Pusin Tinliu*, the Yokuts name for the village. Another important place-name is *Who-le-stee-de-hoe*, the name of the spring on Tejon Creek at this location. An archeological site, CA-KER-280, was recorded in 1969 immediately south of the spring. The site was described as a "significant cluster of about 16 bedrock mortar holes," with a midden deposit not observed but noted as likely to be nearby. Combined with these and other archeological remains in this immediate vicinity, the general spring area appears to have been the pre-contact village locale. The Montes homestead (described above as Locus 5) is depicted on all maps and identified on the 1933 sketch, and falls within this area, as does the 1922 schoolhouse constructed adjacent to the spring. According to Gloria Montes Morgan (personal communication, 2013), born on the Montes homestead, a cave is located near it, perhaps correlating with the inferred transliteration of the Yokuts village name as "spirit helper cave."

No research has been conducted on this site, beyond the archaeological survey and mapping for this nomination, and the historical information summarized above. The extent of identified archeological remains covers 164.65 acres. The physical condition of the different loci varies due to occupation and use after the District's period of significance. Intact archaeological features and remains from this period are, however, believed to be present at each of the identified loci. This inference is supported by the presence of preserved house-pits, adobe foundations and, in some cases, period surface artifacts (including mixes of pre-contact lithics with historical trade goods). The foundations of the 1884 adobe church and the standing 1922 schoolhouse are not included as contributing properties in the District, as they do not date to its period of significance.

8. Statement of Significance

Applicable National Register Criteria
(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- [X] A. Property is associated with events that have made a significant contribution to the broad patterns of our history.
- [ ] B. Property is associated with the lives of persons significant in our past.
- [ ] C. Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- [X] D. Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations
(Mark “x” in all the boxes that apply.)

- [ ] A. Owned by a religious institution or used for religious purposes
- [ ] B. Removed from its original location
- [ ] C. A birthplace or grave
- [ ] D. A cemetery
- [ ] E. A reconstructed building, object, or structure
- [ ] F. A commemorative property
- [ ] G. Less than 50 years old or achieving significance within the past 50 years

Areas of Significance
Archeology - Historic – Aboriginal
Ethnic Heritage – Native American

Period of Significance
1850 – 1875

Significant Dates
1850 (Appointment of three commissioners to develop treaties with the tribes)
1851 (Unratified treaty signed by tribes in Tejon Canyon)
1853 (Edward F. Beale's attempt to establish reserve)
1863 (Forced relocation of ~1000 Owens Valley tribes to reserve)
1864 (Dissolution of reserve by Act of Congress)
~1875 (Consolidation of remaining Native Americans into Tejon Canyon)

Significant Persons
N/A

Cultural Affiliation
Kitanemuk
Yokuts
Chumash
Owens Valley Paiute
Coso Shoshone
Kawaiisu
Tubatulabal
Fernandeno
Tataviam
Serrano
Tejon Indian Tribe

Architect/Builder
N/A

Statement of Significance Summary Paragraph

The Sebastian Indian Reserve Discontiguous Archeological District is significant under Criterion A, due to its demonstrated association with the ethnogenesis of a new tribal entity, the Tejon Indian Tribe; and Criterion D, because of the District's potential value for archeological research, especially concerning ethnic history and culture change, specifically the acculturation and assimilation of Native American peoples in California. Its period of significance extends from 1850, when three federal commissioners were assigned to develop treaties with the San Joaquin Valley tribes, to 1875, when all Native Americans on what had become the Tejon Ranch were consolidated into a settlement in Tejon Canyon. This resulted in a new settlement type and the development of the Tejon Indian Tribe. The period of significance includes the signing of the 1851 unratified "Treaty D;" Edward F. Beale's attempt to create the Sebastian Indian Reserve in 1853; the Civil War removal and concentration of an additional 1,000 Native Americans on the reserve, to end the Owens Valley Indian War; the 1864 termination of the reserve by an Act of Congress; and the acquisition of the Tejon Ranch by Beale.

Narrative Statement of Significance

The District sites represent the only known remnants of the Sebastian Indian Reserve. One of the first reserves in California, the location was selected by Edward F. Beale as a solution to then-ongoing strife between San Joaquin Valley tribes and Euro-Americans on the coast, and to accommodate existing Native American populations with rapidly expanding Euro-American settlements. Although the federal government attempted to establish the reserve (which was managed by Euro-Americans, and "guarded" by the U.S. Army), its focus was on Native American tribes, the significant ethnic group associated with the District. These included the Kitanemuk, whose traditional territory covered the heart of the Tehachapis to the mouths of the canyons at the San Joaquin Valley floor; the Southern Valley (primarily Yaeulmani, Hometwali and Tulamni) Yokuts, who resided on the open valley flats from the canyon mouths northwards; and the Ventureno and Emigdiano Chumash, whose northeasternmost extant included Grapevine Canyon and the southwestern limits of the Tehachapis. Some Kawaiisu, Tubatulabal, Tataviam, Serrano, and Fernandeño members also resided on the reserve, and approximately 1,000 Northern Paiute and Coso Shoshone were forcibly marched to the reserve during the Civil War. As a result of this voluntary and involuntary mixing, a new tribal identity and organization evolved, the Tejon Indian Tribe, a mixed-tribal group reaffirmed by the United States in 2012.

The following provides a brief historical background of the District.

Pre-Contact History:

Although the District's period of significance occurred during the initial American occupation and control of California, earlier antecedents set the stage for events and circumstances that resulted in the failed attempt to establish the Sebastian Indian Reserve, and the development of the Tejon

Indian Tribe. Archeological studies on Tejon Ranch, within the upland portions of the Tehachapi Mountains, indicate that a substantial pre-contact Native American population was present in the region by approximately 3,500 - 4,000 Years Before Present (YBP; W&S Consultants 2005). This appears to reflect the movement of Takic-speaking groups, including the Kitanemuk, into southern California at the start of the *Mid-Holocene Climatic Optimum*, a period of favorable environmental conditions. The Penutian-speaking Yokuts may also have moved into the San Joaquin Valley at about this same time (Moratto 1984). Many portions of inland California experienced a population collapse during the later *Medieval Climatic Anomaly*, from about 1100 – 800 YBP, which was marked by erratic but overall much hotter and drier conditions. On the nearby Carrizo Plain, the pre-contact Chumash population is calculated to have dropped by about 90%, with the majority of the prior occupants believed to have migrated to the coast (Whitley et al. 2007). In the southern San Joaquin Valley proper, in contrast, population appears to have increasingly concentrated along the margins of the large but fluctuating system of lakes and sloughs. Likewise the Tehachapis are unusually well-watered and contain numerous springs. Occupation of this upland area appears to have intensified, likely as a result of drier conditions closer to the valley floor. Regardless, archeological and linguistic records suggest the Kitanemuk, Yokuts and Chumash, primary historical occupants of the reserve, have lived in this region continuously for at least 3,500 years.

Although linguistically different, the specifics of tribal social and political structures were similar in numerous, more general, respects. At Spanish contact, all three tribes were hunter-gatherers who commonly followed a seasonal round of winter aggregation at larger, nucleated village sites and summer dispersal into smaller (usually family) groups and camps, in search of available plant and animal resources. The acorn provided their primary plant food staple, augmented by a wide variety of seeds and tubers, and game such as deer, antelope, rabbit and rodents. Villages were typically ruled by a chief or headman, perhaps aided by an assistant. The chief was responsible for general social control and scheduling the ritual cycle. Villages were sometimes organized into alliances under a chief, called tribelets, which controlled defined territories and contained roughly 250 - 500 people. One of the most notable ritual events was the periodic mourning ceremony. This was dedicated to the commemoration of the recently deceased, but also constituted an important social aggregation, with as many as 1000 visitors from neighboring villages sometimes attending the gatherings. Shamans or medicine men served as the ritual functionaries for these and other ceremonial events (Kroeber 1925).

Pre-Reserve History:

Spanish contact effectively started in A.D. 1772, when Pedro Fages crossed through Tejon Pass, the first of a series of early explorers visiting the region. Fages was followed by Fr. Francisco Garcés, with the de Anza expedition, who spent a week in Tejon Canyon in 1776, and Fr. Jose Maria Zaldivea, coming from Santa Barbara in 1806, who traversed *Cañada de las Uvas* (Grapevine Canyon). In 1827 Jedediah Smith also went through the region during his fur-trapping escapades. He was followed by John C. Frémont and his guides, Kit Carson and Alexis Godey, in 1830 and 1844 respectively. In 1847-1848, Frémont spent the winter in the Tejon Pass area (Boyd et al. 1982; Crowe 1957; Giffen and Woodward 1942; McIntyre 1990; Settle 1963).

Perhaps more important, in terms of ramifications for local Native American communities, was the establishment of the Spanish mission system starting in 1769 in San Diego. This had both direct and indirect impacts on local tribal populations in the region. Although outside the heavily missionized coastal zone, some Tejon area individuals were re-located to the missions, converted to Catholicism, and learned farming and other European crafts and skills (e.g., Johnson 1997a, 1997b, 2000; McLendon and Johnson 1999). Other Native Americans actively resisted missionization, resulting in revolts at the missions themselves and armed insurrections, especially in the San Joaquin Valley region (e.g., Phillips 1975, 1993, 1997, 2004). By 1824 the mission system had started to unravel. Former neophytes began to return to their ancestral villages or sought refuge outside the reach of the missions, bringing farming and other training with them.

During the latter portion of Mexican control of California, from 1843 to 1846, four large land grants were awarded in the immediate area. Two of these *ranchos* eventually had major implications for the Sebastian Indian Reserve. It was placed on portions of two of the grants, based on the assumption they had been abandoned and/or were invalid land claims. Once the validity of pre-existing land claims was legally confirmed by the U.S. courts, and the reserve disbanded, the four ranchos were united into the Tejon Ranch by Edward Fitzgerald Beale. The reserve sat on portions of the original 100,000 acre *Rancho El Tejon* ("the badger"), awarded to José Antonio Aguirre and Ignacio del Valle by Governor Micheltorena in November 1843, and the approximately 22,000 acre *Rancho Castac* (Chumash for "spring-eye"; in Spanish "*ojo de agua*"). This was obtained by José Maria Covarrubias a few weeks later (Crowe 1957; Giffen and Woodward 1942).

The San Joaquin Valley tribes, at this time, were effectively in armed revolt. This accelerated with the California Gold Rush, starting in 1848, resulting in the movements of large numbers of Euro-Americans into the Sierra Nevada foothills, destroying Native American populations and life-ways. Euro-American incursions began roughly due east of the San Francisco Bay Area but, over time, spread progressively southward, towards the southern San Joaquin Valley, increasing pressure on the southern tribes. They resisted both Euro-American movement through and settlement into their territory and used the southern San Joaquin Valley as a staging ground for raiding cattle ranches in the Los Angeles Basin and central coast (Phillips 1997, 2004).

As a result of both remote location and instability in the area, the Mexican land grants were all but unused by their grantees (Phillips 1997, 2004). A small, short-lived ranch was established on *Rancho El Tejon* by an employee of del Valle, but this appears to have had little appreciable impact. As a result, other Euro-Americans either assumed the lands were unclaimed and open to settlement, or knew about the land grants but paid them little heed. For example, Dr. Darwin French set-up a ranch at the mouth of Tejon Canyon in the spring of 1850. (Records are unclear, but French may have been a deserter from the U.S. Army, and may have intentionally moved to the then-remote area to avoid arrest.) Due to Native American unrest in the region he departed in 1851, subsequently becoming renowned for his involvement in the exploration of the Death Valley region. (The town of Darwin is named in his honor.) Likewise, Alonzo Ridley and David

McKenzie came into the Tejon region to trade with Native Americans in May, 1852. Around this same time, Samuel A. Bishop moved into the area, settling on what was *Rancho Castac* (Giffen and Woodward 1942; Bishop, California, is named after him). Probably the best known and ultimately most important of this early group of Euro-Americans was Edward F. Beale, who selected the location for the Sebastian Indian Reserve in 1853, on what he thought was land available for U.S. government appropriation.

The 1851 Unratified Treaty:

The impetus for this reserve was the recognized need to accommodate existing Native American populations, while securing Euro-American settlements from potential raiding and depredations by San Joaquin Valley tribes. Previous federal policy solutions to the "Indian Problem," as it was then called, were no longer applicable: there was no feasible way to continue to push the tribes further west, once California was being settled by Euro-Americans. Three federal commissioners were accordingly appointed in 1850 to establish treaties with the tribes, marking the start of the District's period of significance. These treaties would in part include the establishment of reserved lands—reservations—for tribes to occupy in perpetuity. This formal process began in January 1851. Commissioners, accompanied by detachments of U.S. soldiers, signed eight treaties by September of that year, ostensibly creating 10 separate reserves located in the Central and San Joaquin Valleys. The treaty covering the southern San Joaquin Valley, "Treaty D," was signed in Tejon Canyon and was the seventh of the eight (Phillips 2004).

Commissioner George Barbour arrived at Tejon in June 1851 with Capt. Erasmus D. Keyes and their military detachment. They established Camp Persifer F. Smith, at "French's deserted rancho situated at the entrance to Tejon Pass" (Keyes 1884:236). Here they met with the assembled tribes. "Treaty D" was signed by Barbour and 29 chiefs, seven of whom were (at that time) associated with villages that would become components of the reserve, and a number of others who became prominent leaders on the reserve. From Tejon ("Texon" in the treaty; that is, the Kitanemuk chiefs) there were Vincente ("Vicente" in some accounts), Chico, Pablo, Jose Antonio, Martin and Francisco. Another Chief Antonio signed for *Uvas*, the Chumash village in Grapevine Canyon, the westernmost village on the reserve. Yokuts Chief Raymundo ("Remundo") from the Bakersfield area, and Chumash Chief Emiterio ("Imiterio"), from San Emigdio to the west, were also notable signators (McLendon and Johnson 1999; Phillips 2004). Vincente and Chico were brothers and the ancestors of the Montes family, discussed above. Pablo is believed to also have been called Zapatero, who is known to have previously lived at the San Fernando Mission. All three played significant roles in reserve history.

"Treaty D" was intended to reserve the southern extent of the San Joaquin Valley for the signatories' tribal groups. This extended from the Kern River above modern Bakersfield across the valley for roughly 40 miles, turning along the base of the Temblors and Tehachapis south to Tejon Canyon and then north along the northwestern front of the Tehachapis to the starting point. This was in keeping with approximate sizes of other treaties. As with others, it included provisions

for providing assistance establishing farms and fully transitioning the tribes to full-time agriculture. With this treaty, the chiefs effectively agreed to end any insurrection and find an accommodation with the U.S. Government and the influx of Euro-Americans. It was, in a real sense, a realistic acknowledgment of the future, and it terminated over a generation of instability and violence at the southernmost end of the San Joaquin Valley.

Due to opposition from the California Congressional delegation who objected to the "loss" of valuable land for Euro-American settlement, none of the treaties were subsequently ratified by the U.S. Senate. This left the "Indian Problem" unresolved, although the tribes were not informed of this fact (Phillips 2004). In 1853, Congress authorized the creation of five 25,000-acre reserves to address the issue. Edward F. Beale, who had been appointed Superintendent of Indians Affairs for California and Nevada in 1852, attempted to establish the Sebastian Military Reserve, as it was first known, following consultation with the U.S. Army commander in California. It was placed on portions of Tejon and Castac ranchos in 1853 (Giffen and Woodward 1942).

Sebastian Indian Reserve:

Although envisioned by Beale as covering 50,000 – 75,000 acres, the extent of the reserve was first established by Congress as 25,000 acres in size, and then reduced to 10,000 acres, but its boundaries were never legally mapped or defined. Federal records indicate that Beale was aware that the area of the proposed reserve was covered by Mexican land grants (*Rancho El Tejon* and *Rancho Castac*), but he believed they had been abandoned and were therefore open to federal appropriation. Private rights to ownership, based on pre-existing land grants, were presented when U.S. land claims cases were started in 1852. The private titles were perfected under U.S. law later that decade. Congress limited the number of reservations in California to four in 1864, and ordered all others terminated and the land sold. The Sebastian Indian Reserve, never having been formally established, was not one of the four and, in 1864, many Native Americans living on it were relocated to other reservations (Phillips 1997, 2004).

These land ownership confusions were well expressed by reserve Agent J.R. Vineyard in an 1859 report:

> "...changes [in the original acreage of the reserve] have set aside the first survey, and have left what are reserve lands without metes and bounds. Neither the 10,000 acres nor the 25,000 acres have ever been surveyed. This difficulty would appear to be easily disposed of, by surveying the land and marking the limits of the reservation as established under present law, and removing summarily all intruders that may have settled within its boundaries. But this is not the only point to dispose of in this connection. During the time Congress authorized the changes referred to, the entire reservation was claimed as private property under a grant from the Mexican government; which claim has been submitted to two of the United States courts in California, and, in both cases, the decisions have been in favor of the claimants, and adverse to the United States. In consequences brought about by the

> above causes, as to what is or is not reserve land, also as to who are the rightful owners of the premises, has induced several white men to settle upon the land embraced within the first survey, and what evidently must belong to the reservation, if such an institution has an existence" (quoted in Miller 1934:12).

The extent of the area used by Native Americans hence remained ambiguous, beyond identified village locations and the fields around them.

Beale established villages (probably on existing, pre-contact settlements) primarily at canyon mouths to provide water for farming. Chiefs were present at each of these villages and, at least initially, it was planned that they would form a kind of governing body, with Beale, for the reserve as a whole (Phillips 2004). The mouth of Grapevine Canyon contained the westernmost village on the reserve; others are known to have existed at the mouths of Live Oak, Pastoria, Tejon and Chanac Creeks, as well as at some areas in between. As discussed above, the initial headquarters of the reserve was in Live Oak Canyon with Samuel A. Bishop as the first Indian Agent (Latta 1976), under Beale. The reserve headquarters was subsequently moved to upper El Paso Creek, eventually becoming the original Tejon Ranch headquarters.

Beale's appointment as Superintendent and his creation of the reserve were politically controversial and soon came under attack, in part due to allegations about the misuse of government funds. He and his supporters asserted, in Beale's defense, that by 1854 the reserve contained about 2500 Native Americans cultivating approximately 3000 acres of wheat with 10 miles of irrigation ditches (Caughey 1952; Crowe 1957). This glowing (and hyperbolous) claim was repeated by many California newspaper articles, contributing to something of a mythology about Beale and the beginnings of the reserve that is, in full light, questionable.

Beale was replaced as Superintendent in 1854 by Thomas J. Henley who, in his first report, stated that a maximum of only 800, not 2500, Native Americans had ever been resident at Tejon. J.R. Vineyard was Indian Agent from 1856 to 1859; he reported only 700 residents prior to an 1857 addition of Yokuts from the Tule River area, which putatively raised the population to just over 1000 (Miller 1934:14, 20), although for only a short time. (Juan Coluco's testimony [McLendon and Johnson 1999:xi-54], recorded in 1922, verifies that Beale's account of the resident population was "greatly overestimated"). By 1862 the tribal population is estimated at roughly 500 (Phillips 2004). It is also clear that, Beale's statements notwithstanding, the reserve never proved fully self-sufficient (see Miller 1934).

The reserve was dissolved by an Act of Congress in 1864. Many Native Americans moved to a newly created reservation near Porterville; others stayed on what had become the Tejon Ranch, now privately owned by Beale.

Edward F. Beale:

Beale (1822-1893) is an important and controversial figure in U.S. history (Bonsal 1912; Thompson 1983; Phillips 2004). Politically well-connected in Washington, D.C., he began his adulthood as a Midshipman (and eventually Lieutenant) in the U.S. Navy. This brought him to California where he was a hero in the Battle of San Pasqual during the Mexican War, and served as the official messenger who brought the first samples of the Sutter's Fort gold to Washington, D.C., in 1848 (Crowe 1957). In 1851, Beale went to work as the California business agent for Commodore Stockton and Aspinwall's steamship company. In nine months he netted $100,000.00 for the company, earning him $13,000.00 as a commission. This provided the foundation for his ultimate wealth and signaled his business acumen (Bailey 1957). Although initially interested in obtaining the position of Federal Marshall for California, he was instead appointed Superintendent of Indian Affairs in President Millard Fillmore's administration (Thompson 1983). His attempt to create the Sebastian Indian Reserve was the major outcome of his appointment and, while it did not prove legally viable, it had a significant impact on the regional tribes.

Beale's appointment as Superintendent was controversial, and (as noted above) his actions and expenditures immediately came under attack. He was forced-out over charges concerning the misappropriation of funds. After being exonerated, Beale began his acquisition of four Mexican ranchos in 1855, initially buying *Rancho La Liebre* ("the hare") to the south. He gained nominal control of *Rancho El Tejon* in 1862, obtained *Rancho Los Alamos and Agua Caliente* ("cottonwoods and hot water") in 1865 and completed his purchases with the acquisition of *Rancho Castac* in 1866 (Giffen and Woodward 1942). These became the basis for modern Tejon Ranch, the largest private land-holding in California, covering approximately 270,000 acres.

This did not terminate Beale's career as a public official nor his influence on national history. He was subsequently appointed the first Surveyor-General of California and Nevada by President Abraham Lincoln, who famously stated that Beale became the "monarch of all he surveyed." He was commissioned Brigadier General for the State of California militia; and, by President Ulysses S. Grant, was made Minister to the Austro-Hungarian Empire (Crowe 1957; Thompson 1983). Beale was appointed surveyor for a military wagon road from New Mexico to California. Known as the "Beale Wagon Road," it was the precursor to the Santa Fe Railroad and historical Route 66. Beale was also instrumental in the creation of the U.S. Army Camel Corps, authorized by Jefferson Davis (then Secretary of War) in 1857. Its creation brought camels into the Tejon region where they were used for a number of years as pack animals (Bailey 1957; Boyd et al. 1982). He built the "Beale Cut" through Newhall Pass immediately north of the Los Angeles Basin, creating the first effective transport corridor to the San Joaquin Valley (now followed by the I-5 freeway). Beale purchased the Decatur House, on Lafayette Park across from the White House, in Washington, D.C., in 1872. It was donated by his family to the National Trust for Historic Preservation in 1956, and was listed as a National Historic Landmark in 1976; his Ash Hill farm, Maryland, was listed on the National Register of Historic Places in 1977. Beale was a friend and confidant of President Grant, explorer and U.S. Senator John C. Frémont, and Buffalo Bill Cody, among others (Thompson 1983).

As discussed below, Beale's ownership and management of the Tejon Ranch, particularly his treatment of Native American residents, was influential in the ethnogenesis of the Tejon Indian Tribe.

Fort Tejon and the Owens Valley Indian War:

The selection of the Tejon area as a reserve was a joint decision by Beale and the U.S. Army Commander in California. It was initially called the Sebastian Military Reserve, named after William K. Sebastian, chairman of the U.S. Senate Committee on Indian Affairs. The U.S. Army constructed a fort to protect Native Americans on the reserve from exploitation by Euro-Americans and prevent raiding into the greater Los Angeles Basin by "renegades" from the Tulare County and Colorado River regions (Phillips 2004). A small detachment of soldiers was quartered initially on El Paso Creek, at the then-second reserve headquarters, circa 1853 - 1854. Shortly thereafter, most of the troops were shifted to the top of Grapevine Canyon in what is now referred to as the "Tejon Pass." This second fort continued in use, with a brief hiatus, until the end of the Civil War. It was reoccupied during the war because of concerns about southern sympathizers in the Kernville region, and due to the outbreak of an "Indian War" in the Owens Valley region east of the Sierra Nevada (Chalfant 1933; Cragan 1975). This resulted in a little known but quite tragic episode in Native American history, which connected the reserve to the larger events of the Civil War (Whitley et al. 2006).

Tensions had begun to develop between Euro- and Native Americans in the Owens Valley by 1861 (Chalfant 1933; Cragen 1975). These were caused by the Euro-American in-migration and usurpation of critical Native American resources (such as seed gathering areas) and traditional village locations at springs. They were exacerbated by the unusually bitter winter of 1861-1862, which witnessed six straight weeks of snow and rain (Chalfant 1933). U.S. Army scouting expeditions were sent from Fort Tejon, and Camp Independence in the Owens Valley was established in 1862. These efforts to quell the unrest had little effect. In 1863, Capt. Moses A. McLaughlin, commander of Camp Independence, issued an order to "shoot on sight and show no mercy." He also adopted a policy of intentionally destroying cached food supplies recognizing that, by winter, the loss of reserves would cause the tribes to surrender. During May, 1863, four soldiers in Company L alone destroyed 300 bushels of stored seeds in the Bishop Creek vicinity; the results were predictable though faster than expected. Through the summer, Native American bands filtered into Camp Independence to surrender, until there were over 1000 people under the care of the Army (Cragan 1975). This group of detainees is referred to in historical accounts as Owens Valley Indians, and thus by implication the Northern Paiute. They were in fact a mixed tribal group that included Northern Paiute and Coso Shoshone (Steward 1934; Irwin 1980), and possibly some Southern Paiute, Kawaiisu and/or Tubatulabal. The U.S. Army apparently then made the unilateral decision for their removal to the Sebastian Indian Reserve, though it lacked the resources to accommodate the detainees (Cragan 1975).

On 11 July 1863, 70 soldiers forced 998 Native Americans to march south through Owens Valley, west across the mountains and finally to the reserve were they were kept for approximately two months. Only about 850 of the original 998 Indians completed the 225 miles trek. Partly because the reserve was not in a position to absorb the detainees, and in part due to objections from Beale who had purchased and was now claiming ownership of *Rancho El Tejon*, the group was again marched on 3 October 1863 to Fort Tejon at the top of the Grapevine, and placed under Army supervision and care (Cragan 1975; Phillips 2004).

Native American accounts of the deportation were recorded by anthropologist Julian Steward (1934, 1938). Steward's transcribed account of the episode from Panatübiji', an elderly Paiute chief, is the following:

> After various unsuccessful attempts to subdue the Indians, the white men proposed peace and arranged a big feast at Fort Independence for all the Indians in the region. The Indians arrived, Panatübiji' among them, and were at once deprived of their arms. The following morning the soldiers drove them down Owens Valley and then across the Sierra Nevada Mountains from the Mojave Desert to Fort Tejon, a journey of many days. Many people escaped en route and returned home, but Panatübiji' remained among the captives because his sister and his son were with him. After staying at Fort Tejon for about 2 years, an epidemic of dysentery (?) broke out and many Indians died. Panatübiji' became sick but was cured by a concoction of salt grass which his sister boiled. When he had recovered, he and his son, "Bronco Jim," escaped and returned home, killing a burro for food along the way (Steward 1938:195).

In early 1864, Capt. John Schmidt, the new commander for Fort Tejon, arrived to find the detainees in complete disarray. Schmidt reported that:

> On assuming command of this post I found 380 Indians located about 300 yards below the Fort, as follows: 120 bucks, 170 squaws, and 90 children almost in a state of starvation; as they are under no one's charge, no one to care for them, they must look out for themselves. They are the remnant of nearly 1,100 Indians that were brought in from the Owen's River by the Second Cavalry California Volunteers and placed on the Tejon Reservation in charge of the Indian Superintendent, but afterwards moved from the reservation to this place by order of headquarters Department of the Pacific, which order I cannot find at this post (quoted in Giffen and Woodward 1942:129).

Schmidt recommended removal of the group to the Tule Indian Reservation near Porterville (Cragen 1975). Implied in his comments is that all able-bodied detainees had already departed the Tejon and returned to the Owens Valley region, leaving only the elderly, invalid and very young at the fort. How many had died in the interim, and the number that successfully escaped were not recorded.

Part of the confusion and disorder evident in these U.S. Army affairs resulted from the on-going Civil War. Fort Tejon was itself abandoned in mid-August 1864, due to changing fortunes and needs with respect to the war, thus ending the sojourn of Owens Valley tribes at the Tejon. It appears that the remnant detainees were simply allowed to drift back to their homes on their own recognizance or moved to the Porterville Reservation (Phillips 2004).

Post-Reserve History:

The change from a proposed federal reserve to Beale's privately owned property was not immediate but occurred in a transition of about three years. Beale obtained nominal rights to *Rancho El Tejon* in 1862 but not full title until 1865. He finalized his acquisition of what became the Tejon Ranch in 1866 when he purchased *Rancho Castac*, then owned by Samuel A. Bishop. Meanwhile the federal government had acknowledged that the land was privately held and the reserve illegal, and any question as to its status was finally resolved by an Act of Congress in 1864 (Phillips 2004). This delay occurred almost certainly because the Civil War presented more pressing issues to resolve. Alexis Godey was the final Indian Agent at the reserve.

With its termination, many remaining Native American inhabitants moved to a reservation near Porterville on the Tule River in Tulare County. Those that remained were successively relocated by Beale's ranch personnel and consolidated into fewer and fewer villages. As part of this process, structures at the abandoned villages were torn down and fruit trees uprooted, apparently to ensure that settlements were not subsequently re-inhabited (McLendon and Johnson 1999). By the early 1870s, only three or four reserve villages were still occupied (Latta 1976).

A revitalization movement known as the Ghost Dance developed among the Walker River Paiute in 1870, and spread into the Central Valley in the next few years (Gayton 1930). This required following certain traditional Native American life-ways and, among other things, promised a return to pre-contact conditions for its adherents. The Ghost Dance religion did not spread south to the Tejon area and was not practiced on the reserve, but many remaining Native Americans departed for the Tule River region to participate in the dances held there (McLendon and Johnson 1999). By approximately 1875, all Native Americans on Tejon Ranch were concentrated in Tejon Canyon, at and surrounding a reserve village known as *Pusin Tinliu*. The Native American population is estimated at roughly 80 individuals.

Due to this consolidation, 1875 is set as the effective end of the reserve period and the period of significance for the District. It is important to emphasize, however, that, due to Beale's policy on the Tejon Ranch, a Native American community continued to reside in Tejon Canyon into the middle of the 20th century (Latta 1976; Johnson 1997a; Locklear et al. 2006). This multi-tribal group consisted primarily (but not exclusively) of Kitanemuk, Yokuts and Chumash descendants, many of whom worked on the ranch and farmed small fields adjacent to their homesteads. Beale built an adobe church for the community in 1884 and Kern County constructed and staffed a school there in 1922. Following the White Wolf earthquake of 1952, which destroyed most adobe homes, the majority of residents left the canyon, moving to Bakersfield and other surrounding towns. The

last Native American occupants of the canyon, members of the Montes family, moved away in 1965.

The consolidation of a multi-tribal population in Tejon Canyon by 1875 represents the origin of a new Native American social and political organization, the Tejon Indian Tribe. Its enrolled members' association with this historical event is demonstrated by their adoption of the place-name where this process occurred, Tejon Canyon, as their tribal name, as established in their constitution and by-laws (Locklear et al. 2006). They consider the canyon important to their shared memory and self- and tribal-identity (Gloria Montes Morgan, personal communication, 2013). They periodically arrange for tribal gatherings on Tejon Ranch, and conduct maintenance and a clean-up of the cemetery every year, reflecting this association.

Historical Context and Research Issues

The Sebastian Indian Reserve Discontiguous Archeological District reflects an important transitional period in California history (cf. Phillips 1997, 2004). Following the U.S. acquisition of the state in 1848 and its rapid settlement due to the Gold Rush, conflict developed between existing Native American populations and the spreading Euro-American population. This was especially acute in the interior of California, much of which had not been missionized by the Spanish, resulting in armed Native American resistance in the southern San Joaquin Valley and raiding on the coasts. The specific events and circumstances in this portion of California were themselves one expression of a much larger issue, which was the accommodation of existing Native American tribes during and after the Euro-American settlement of the western states, which resulted in a number of "Indian Wars."

Following attempts at developing a treaty in 1851, the reserve was created in 1853 to end the conflict in the southern San Joaquin Valley, safeguard existing coastal Euro-American settlements from raiding, as well as to protect the Native American tribes themselves from further depredations, and thereby yield mutual and peaceful—even if not fully equitable—co-existence. It was successful on each of these counts. As historian George Harwood Phillips has observed, the Sebastian Indian Reserve was "an institution that played a crucial role in the history of central California during the 1850s and 1860s" (2004:xiii). Although it did not eliminate all Native American resistance in the state, the reserve's inhabitants themselves ceased armed conflict, served as peace emissaries to still-warring tribes, and created a kind of geographical buffer for the Los Angeles basin that helped protect that population center from raiding (Phillips 1993, 1997, 2004). The sum of these events and circumstances was the District's contribution the peaceful settlement of southern California, in addition to its role in the larger establishment of the reservation system.

The District was further involved in events that contributed significantly to broad patterns in American history related more specifically to ethnic history, involving the cultural development of Native American peoples (see Phillips 1997, 2004). The events leading up to and the attempted establishment of the Sebastian Indian Reserve resulted from changing federal policies concerning tribal governments. These included efforts to find new solutions—reservations rather than forced

removals—to accommodate existing tribal populations with expanding Euro-American settlement. But the District represents not simply the reaction of the larger Euro-American society to pre-existing Native American populations, which is commonly viewed from the one-sided colonialist perspective of conquest and subjugation. It also involved the more complex reactions of the tribes themselves. While these certainly included defeat and marginalization, other responses also pertained, such as resistance and rebellion, accommodation and assimilation and, ultimately, examples of Native American success (cf. Phillips 1975; Silliman 2004; Barnard 2008; Hull 2009). Perhaps the most important of these last factors has been the development of new tribal and ethnic alliances and organizations. The appearance of the Tejon Indian Tribe is an especially clear illustration of this last process.

Events at and related to the District link it to another important episode in American history, the Civil War in the west and its impacts on Native American tribes. This involved a particularly tragic, and largely unknown, event in Native American history. In an effort to quell an Owens Valley rebellion during the Civil War, approximately 1,000 Native Americans were forcibly removed and marched to the reserve in 1863 (Cragan 1975). Their forced stay was relatively short-lived (approximately two months), because the reserve itself did not have the resources or facilities to house, feed, or guard these detainees. They were subsequently moved to nearby Fort Tejon, off the reserve, where they were essentially abandoned by the U.S. Army to fend for themselves, 225 miles from their homelands.

The period of significance for the District encapsulates a relatively brief period of time (1850 – 1875), during which a series of important events occurred. These include the early American settlement of California, the evolving nature of the relationship between Euro- and Native American elements of our society, including the development of the reservation system, and the Civil War in the west. The contributing archeological sites, features and artifacts that constitute the District represent a remarkable, and important, record of this period in California history. Four of the District villages effectively represent sealed time-capsules that document the initial stages of this period, ending circa 1870. The Tejon Canyon site includes these early stages, but also reflects a critical transformation. This is a change from traditional, nucleated Native American villages to dispersed family homesteads, the reliance on wage labor and individual family farming plots, and the development of a new ethnic identity and multi-tribal social organization. The original Fort Tejon barracks and mill site document aspects of the Euro-American occupation of the reserve.

Culture change is a fundamental topic in archeological research, especially contemporary processual archeology as practiced by most American archeologists. As a recent introductory textbook states clearly, “Processual archaeology takes its name from its concern with ‘process’—that is, with the way that cultures change over time” (Kelly and Thomas 2013:35). The District constitutes a preserved material cultural record that is thus pertinent to the central purpose of and rationale for contemporary archeological research.

Although its research value is basic to the discipline, recent publications also demonstrate the direct relevance of the District's resources to ongoing studies. Voss (2008), for example, has examined the evidence for and processes of ethnogenesis—the development of new ethnic identities—in colonial San Francisco (see also Babcock 2008). Similarly, Bernard (2008) has analyzed mission period Native American acculturation at village sites on nearby San Emigdio Ranch, in a study that closely parallels the kinds of questions that could be addressed with the District sites. Zimmerman (1998) has considered the archaeology of Euro- and Native American relationships more generally, while Lightfoot (1995, 2006), Silliman (2004) and Hull (2009) have examined them in historical California specifically. With respect to the Civil War component of the District and the remnants of the first Fort Tejon, Casella (2007) has looked at the archaeology of institutional confinement, and Geier (2006) has analyzed the archaeology of military encampments.

But the research importance of the District extends beyond archeology alone. This fact is emphasized by R.W. Senkewicz, who has observed that:

> "Historians of the Spanish and Mexican periods of the U.S. Southwest have attempted over the past few decades to foreground indigenous experience and Native agency. The shortcomings of an archival record largely produced by civil officials, missionaries, and settlers have encouraged them to turn to those who study the past through non-textual artifacts, especially historical archaeologists" (2006:336).

This point is further emphasized with respect to the Sebastian Indian Reserve by Harwood (2004), who has acknowledged that historians have stressed Indian policy, almost to the exclusion of concern with its product: the reservation system. He notes that:

> "[R]elatively little is known about how reservations operated in their early years. Even less is known about the societies and activities of the Indians confined to the first reservations" (2004:xiv).

Beyond just archaeology, the research potential of the District pertains to all who are concerned with more than the traditional, colonialist, Euro-centric narrative that emphasizes manifest destiny, and conquest and triumph alone. As a historical – Native American archeological resource, in contrast, the District represents an opportunity to understand all of our communal American pasts rather than just the dominant social account, obtained from written records, alone. It is a rare research resource for that fact.

Sites that can be expected, given this historical context, primarily consist of four types that date from 1850 - 1875: Native American villages with traditional (nucleated) lay-outs; Native American villages with traditional (nucleated) lay-outs that include Euro-American buildings and features (e.g., adobes); Native American villages with non-traditional (dispersed homestead) lay-outs; military facilities; and Euro-American reserve headquarter and settlement sites, which may include houses, industrial facilities and other kinds of structures and remains. Each of these site

types is present in the District. Relevant data sets with respect to the kinds of research questions that might be addressed by the District involve all aspects of archaeological record, including settlement lay-out and size; types of features present; subsistence remains; technology; trade and exchange; and ritual practices.

Fundamental to any consideration of culture change are questions related to change over time, including changes in any of these archaeological data-sets. A number of these potentially could be addressed archaeologically in the District. To cite just a few: How did subsistence practices change from the pre-contact period to the reserve period? How rapidly did Euro-American technology replace traditional Native American technology? Did long-distance trade in traditional materials (such as lithic resources or shellfish) continue into the reserve period? Did traditional Native American practices, such as the use of brush-covered house-pits or sweat-houses, disappear with the creation of the reserve, or did the traditional use of these features continue despite changes in other aspects of material culture? As noted above, many of the identified loci in Tejon Canyon include traditional features, like house-pits, along with adobe foundations. Was there a transition in the use of one to the other, or were they occupied simultaneously? At a larger level, do different aspects of culture (such as economy, technology and ritual) all change at the same rate, or are some cultural practices or traits more resistant to change? Is there evidence for changing gender relations over time, relative to the pre-contact period?

Equally important are potential questions that consider the social and cultural processes and effects that led to the formation of the Tejon Indian Tribe. How rapidly did this occur? As suggested above, observable changes in site settlement lay-out and structure appear to be one material cultural indication of this process. This was a process which was also likely influenced by changing economic relationships, including the increasing incorporation of tribal members into a wage-based economy, and their social relationships. Changes in ritual practices might be another indicator of ethnogenesis.

One implication of this discussion is the fact that, outside of the missionized regions, relatively little is known about the status of Native American tribes in the San Joaquin Valley during the early contact/historical period. Baseline data on the social and economic conditions of tribal groups, prior to the establishment of the reserve, would serve to greatly assist any research on this historical resource. It is clear, however, that the district has the potential to contribute to specific regional research problems as well as potential larger theoretical and methodological concerns.

Status and Integrity of District:

There are other archaeological sites with post-contact/historical period Native American components in California, including missions, ranches and other kinds of villages (e.g., Silliman 2004; Barnard 2008). The District is unusual, perhaps unique, however, because it primarily represents a series of occupation components resulting, first, from the federal government's intentional establishment of an Indian reserve and, second, from the historical consolidation of different tribal groups into a single village, ultimately resulting in the appearance of a new tribal

entity. One archaeological expression of this process, visible within the district and noted previously, is a shift from nucleated, traditional village lay-outs, to the dispersed individual family homesteads with their own small garden plots, visible in Tejon Canyon. To date, no other such archaeological district has been identified in the state that reflects these historical events and processes.

The archaeological integrity of the District sites with respect to Criterion D, archaeological research potential, varies as a result of differing histories of re-use after the period of significance. The four Live Oak, Pastoria, Tunis and *el Monte en Medio* villages were intentionally abandoned during the period of significance, circa 1870. Their surface artifacts and features have suffered some adverse effects from road construction and cattle grazing but, in each case, the large majority of these sites, their deposits and their artifacts are still intact. They retain archeological integrity of location, setting in terms of their largely unchanged physical environment, design in the sense of their lay-out, materials with respect to the physical elements that have been constructed and deposited at these locations, and the associations of the various classes of deposits, features and remains at the sites. The integrity of the first Fort Tejon barracks and mill on El Paso Creek are believed to retain archaeological integrity in terms of these same characteristics though, in this case, they represent the Euro-American component of the reserve, and other components of this site have been destroyed. In each case, however, these sites have the potential to contribute to the archaeological research questions identified above.

The Tejon Canyon village has experienced the most re-use due to its occupation into the relatively recent past. With the exception of the cemetery (Locus 10), surface evidence at each of the identified loci, however, suggests that archaeological remains dating from the District's period of significance are present, although to what degree is not known at each individual loci. Nonetheless, the site as a whole is believed to have the research potential to address important archaeological questions concerning culture change and tribal ethnogenesis.

The integrity of the District with respect to its association with broad historical events (Criterion A), specifically the development of new tribal entities and changing relationships between tribes and the federal government, is demonstrated by the attitudes of tribal members to this site, and is well documented in historical studies (e.g., Phillips 2004). As has been expressed in visits to the canyon by tribal members, they view the location and physical setting as integral to their shared tribal memory as well a self- and tribal-identities, and periodically revisit the canyon and show their children the various places and features within it. They trace their individual family histories to the design and lay-out of the site, with respect to the locations of the homesteads. They recognize that their ancestors lived at and created the features and structures that were once still standing in the canyon. And they retain a very strong sense of feeling about what this location meant historically, and what it still means to them today.

The association of the District with significant historical events, and its ability to still convey that feeling, is further demonstrated by the Big Pine Paiute Tribe, descendants of the Owens Valley peoples who were relocated to the reserve during the Civil War. A group of their elders and

youngsters re-traced the 1863 "Long Walk" of their ancestors and visited the District in 2009. Accompanied by the Tejon Indian Tribe, they went to Tejon Canyon to visit the cemetery (Locus 10). There, the great-grandson of Panatübiji', who had been forced to make that 225 miles walk a century and a half earlier, chanted a traditional Paiute "Cry," or mourning song, to commemorate those ancestors who were not able to return to their homeland in the Owens Valley. The Big Pine Paiute Tribe continue to associate this component of the District with a key, if tragic, historical event in their tribal history.

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Previous documentation on file (NPS):

____ preliminary determination of individual listing (36 CFR 67) has been requested
____ previously listed in the National Register
____ previously determined eligible by the National Register
____ designated a National Historic Landmark
____ recorded by Historic American Buildings Survey #_____
____ recorded by Historic American Engineering Record # _____
____ recorded by Historic American Landscape Survey # _____

Primary location of additional data:

__x__ State Historic Preservation Office
____ Other State agency
____ Federal agency
____ Local government
____ University
_x__ Other
Name of repository: Southern San Joaquin Valley Information Center, California State University, Bakersfield (archeological site records)

Historic Resources Survey Number (if assigned): _____

10. Geographical Data

Acreage of Property 216.68 acres

Site	1:24,000 Quad	Acres
CA-KER-0810	Grapevine	17.46
CA-KER-1085	Tejon Ranch	11.85
CA-KER-2185	Pastoria Creek	7.56
Historic Fort Tejon	Tejon Ranch	0.82
Tejon Canyon	Tejon Ranch	164.65
Tunis Canyon Village	Pastoria Creek	14.34
	Total	**216.68**

UTM References
Datum (indicated on USGS map):

[ ] NAD 1927 or [X] NAD 1983

Zone 11

Site	Direction	mE	mN
CA-KER-1085	N	345560	3882258
CA-KER-1085	E	346106	3881916
CA-KER-1085	SE	346075	3881689
CA-KER-1085	SW	345885	3881727
CA-KER-1085	W	345453	3882172
CA-KER-1085	NW	345488	3882246
Tejon Canyon	NE	347185	3880174
Tejon Canyon	E	349089	3879009
Tejon Canyon	SE	348941	3878780
Tejon Canyon	SW	347915	3878621
Tejon Canyon	W	347399	3878896
Tejon Canyon	NW	346641	3880179
Fort Tejon	N	341143	3877533
Fort Tejon	E	341200	3877441
Fort Tejon	S	341157	3877415

Fort Tejon	W	341100	3877507
CA-KER-2185	NW	331877	3866878
CA-KER-2185	NE	332094	3866854
CA-KER-2185	E	332135	3866607
CA-KER-2185	SE	332109	3866334
CA-KER-2185	SW	332037	3866319
Tunis	NW	336812	3872170
Tunis	NE	336925	3872186
Tunis	E	337023	3871937
Tunis	SE	337072	3871723
Tunis	S	336869	3871709
Tunis	SW	336801	3871741
Tunis	W	336762	3871786
CA-KER-0810	N	328203	3867905
CA-KER-0810	NE	328284	3867849
CA-KER-0810	E	328343	3867493
CA-KER-0810	SE	328222	3867076
CA-KER-0810	SW	328161	3867075
CA-KER-0810	W	327932	3867540

Verbal Boundary Description

The discontiguous District boundaries consist of the physical limits of six archaeological sites that are the only remnants of the historical Sebastian Indian Reserve. These sites reflect the original organization of the Sebastian Indian Reserve, which consisted of a series of dispersed villages on individual drainages, each inhabited by a different tribe and governed by different chiefs.

Boundary Justification

The limits of the Sebastian Indian Reserve were never defined nor mapped historically, and its geographical extent was never established. The extant physical remnants of the reserve therefore consist of six archaeological deposits which are the only known historical properties that were occupied and used during the District's period of significance. Reflecting the original organization of the reserve, these properties are dispersed along different streams/canyon mouths, resulting in a discontiguous District. The limits of each of these archaeological sites were defined by intensive archaeological survey and GPS mapping.

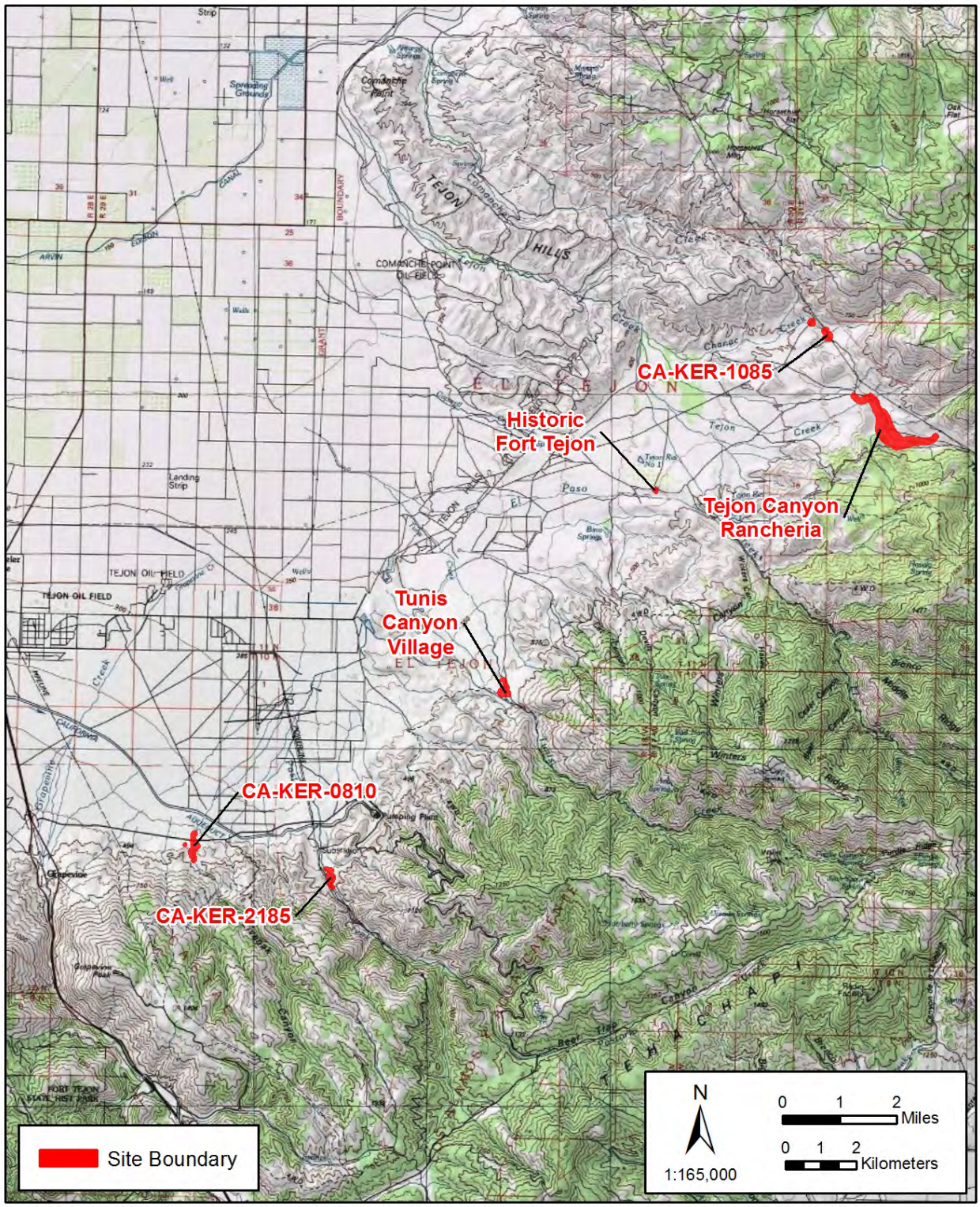
11. Form Prepared By

name/title: David S. Whitley, Ph.D.
organization: ASM Affiliates, Inc.
street & number: 20424 West Valley Blvd, Suite A
city or town: Tehachapi state: CA zip code: 93561
e-mail: dwhitley@asmaffiliates.com
telephone: 661-823-7690
date: 12 August 2014

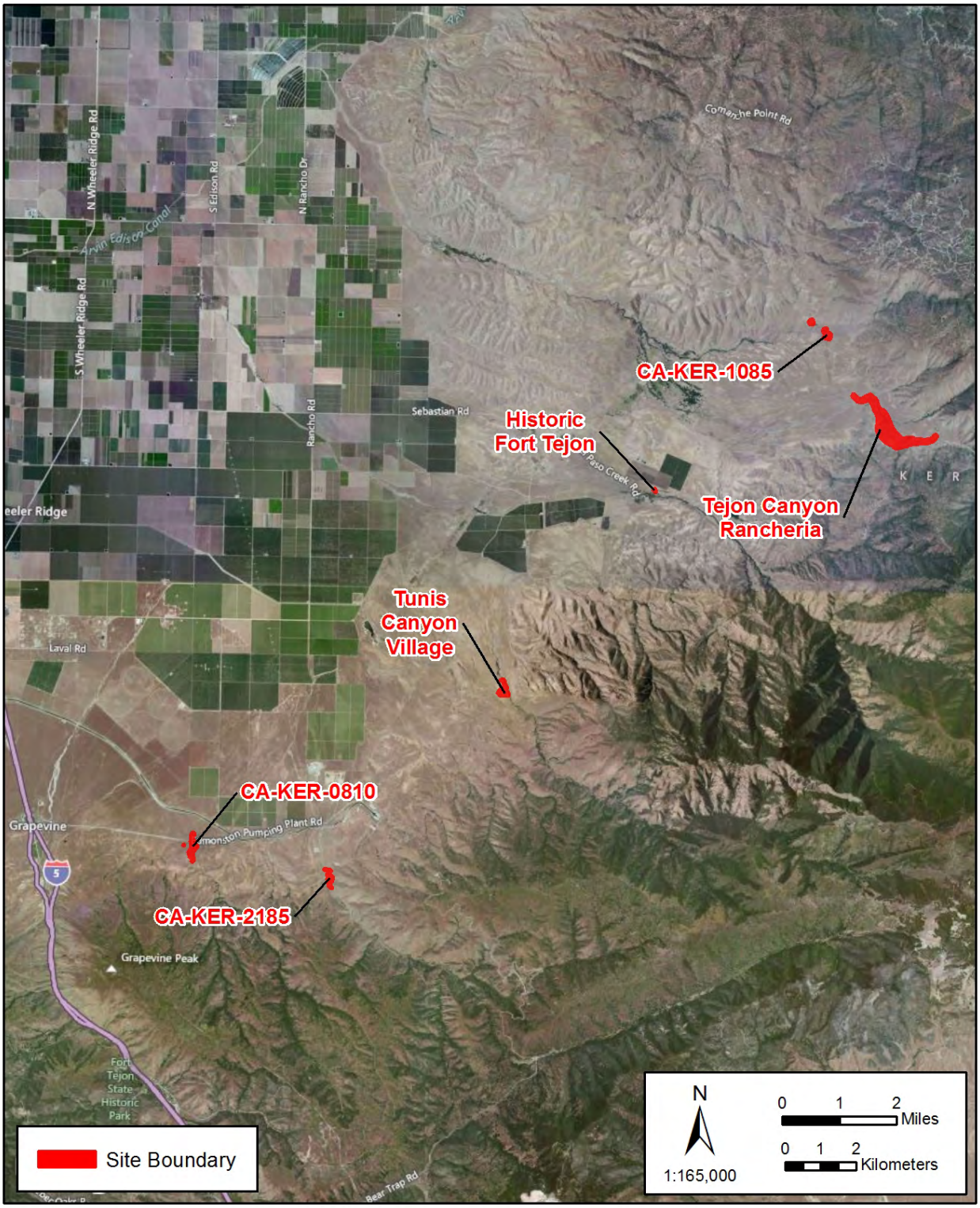
Additional Documentation

Submit the following items with the completed form:

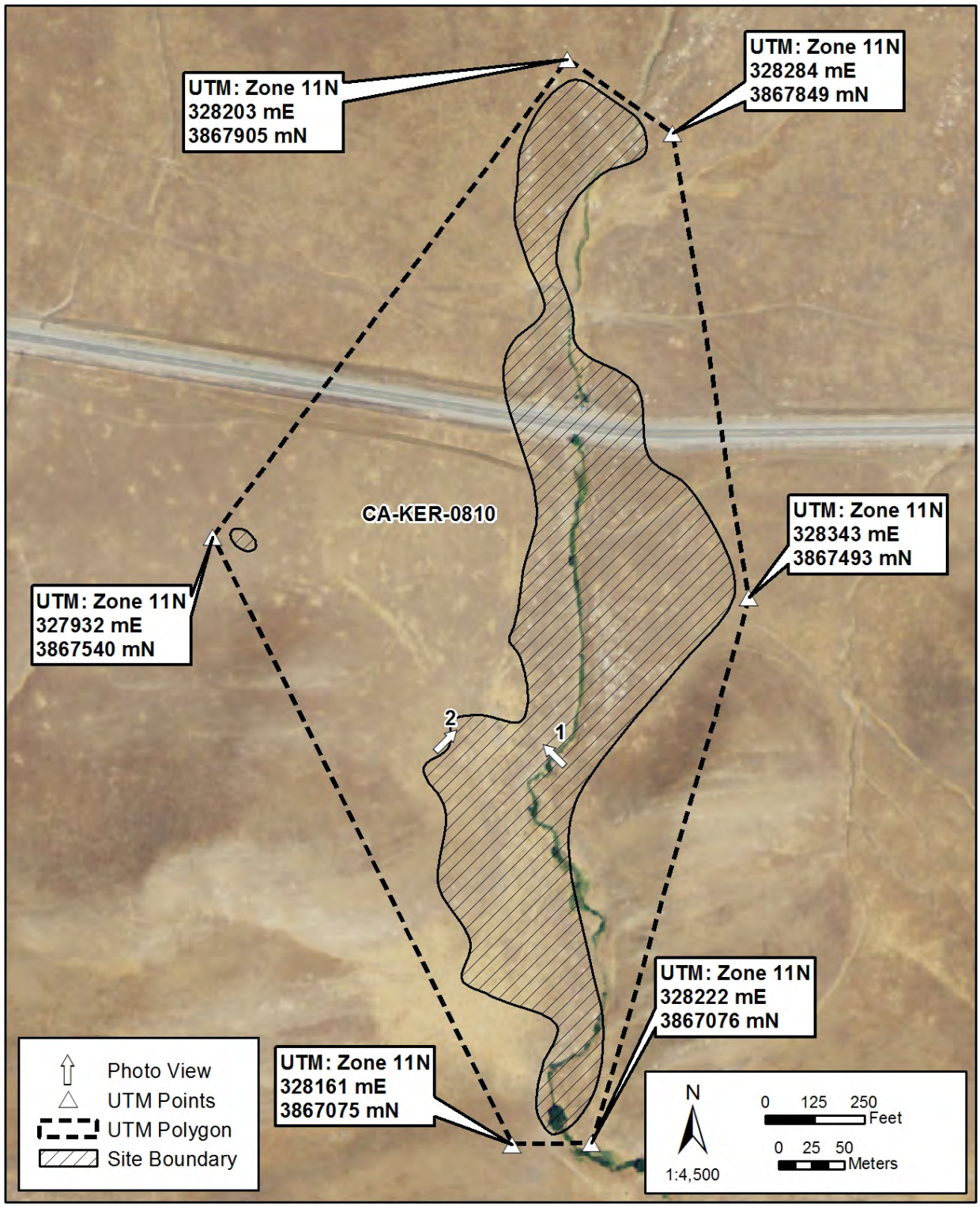
- **Maps:** A **USGS map** or equivalent (7.5 or 15 minute series) indicating the property's location.
- **Sketch map** for historic districts and properties having large acreage or numerous resources. Key all photographs to this map.
- **Additional items:** (Check with the SHPO, TPO, or FPO for any additional items.)
- **Photographs**



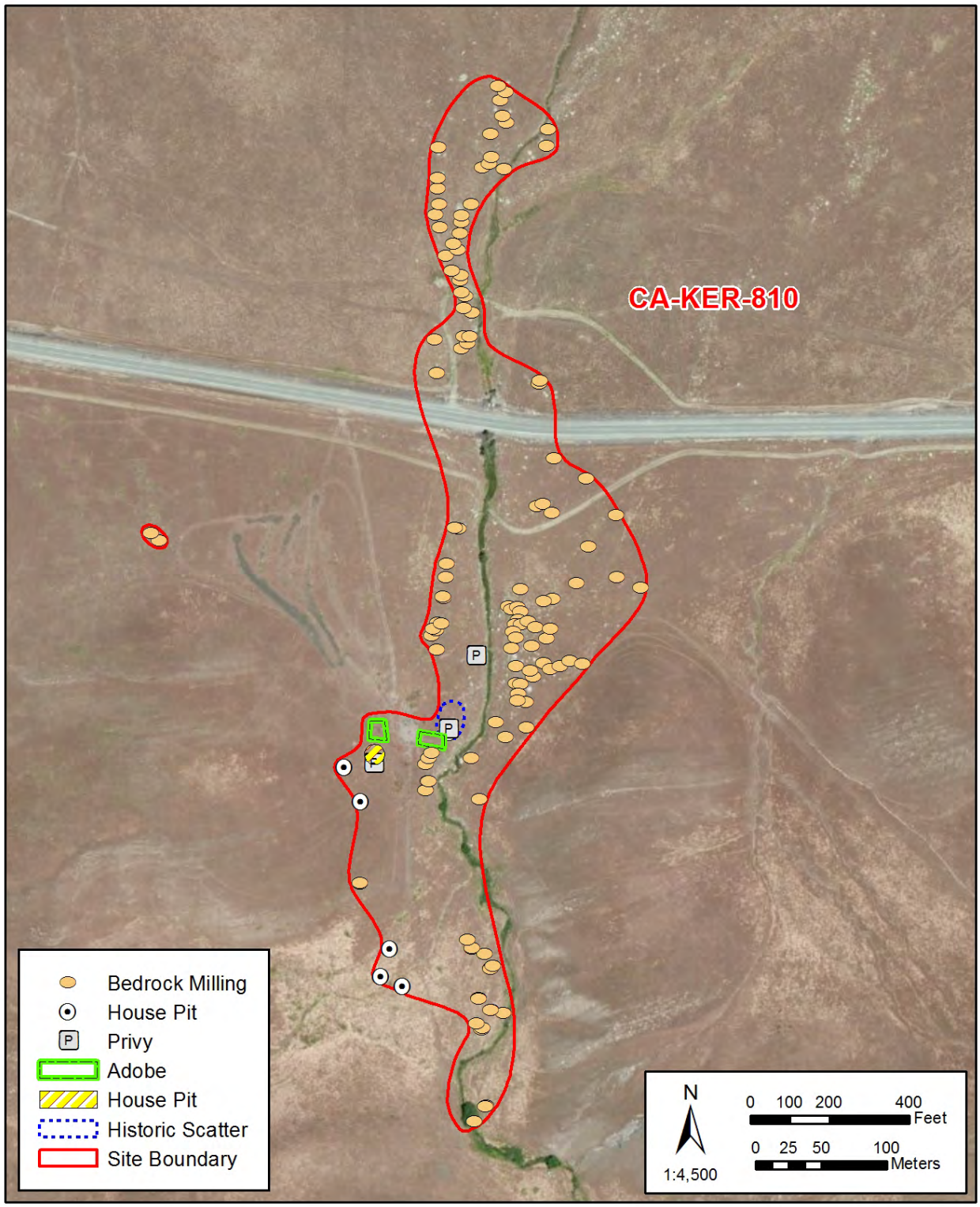
Map 1A: Overview of the district.



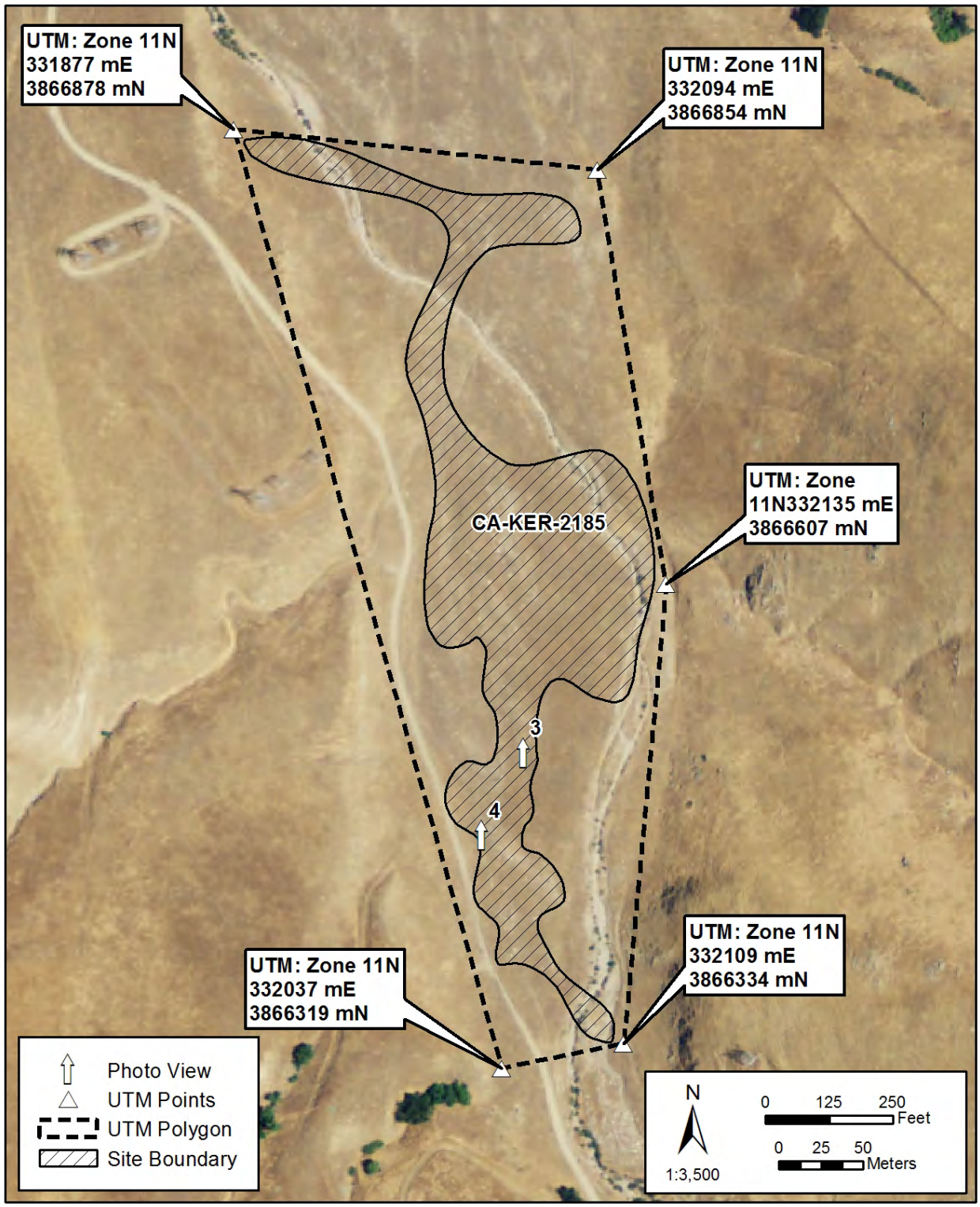
Map 1B: Overview of the district on aerial photograph.



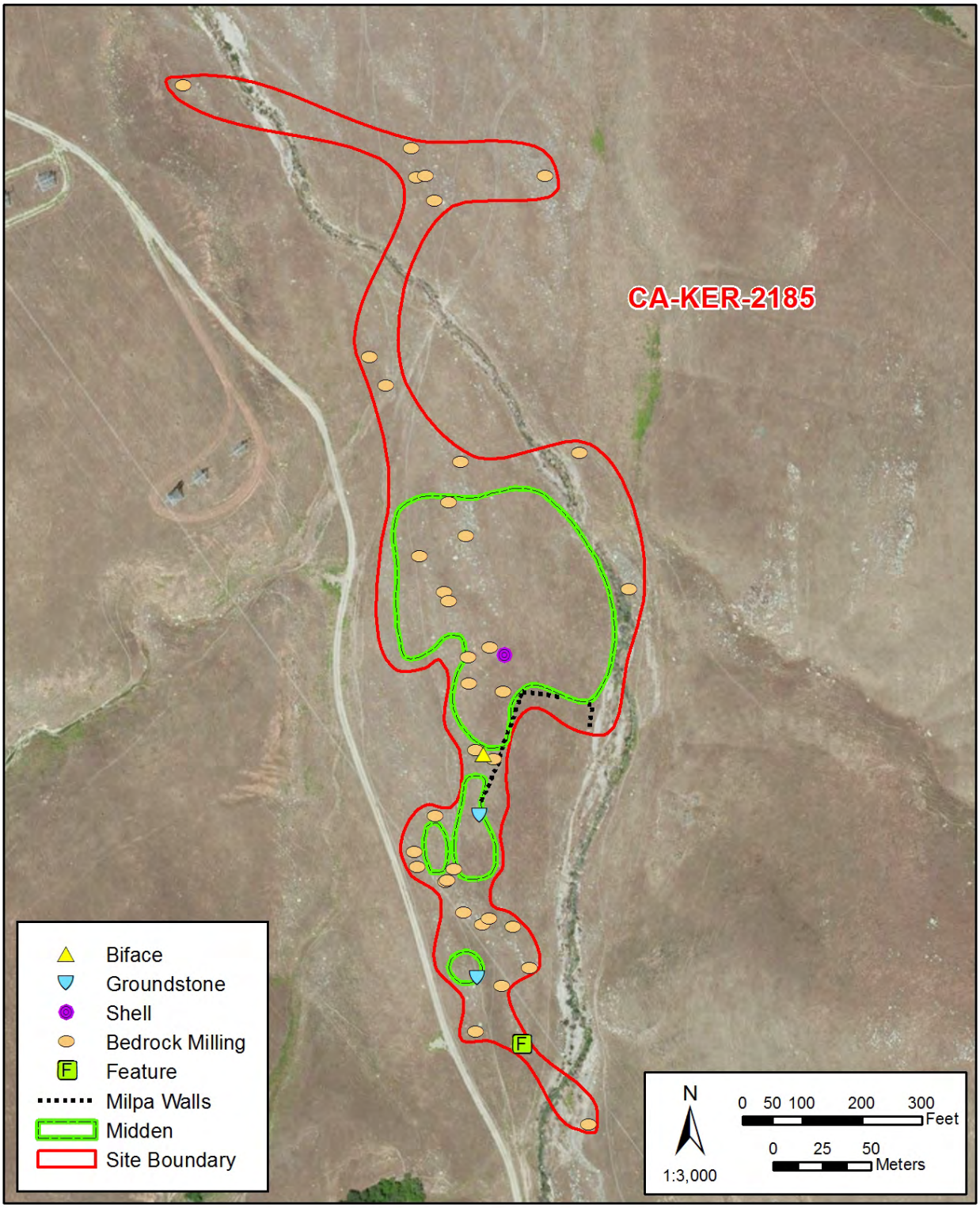
Map 2A: CA-KER-810 showing photo views.



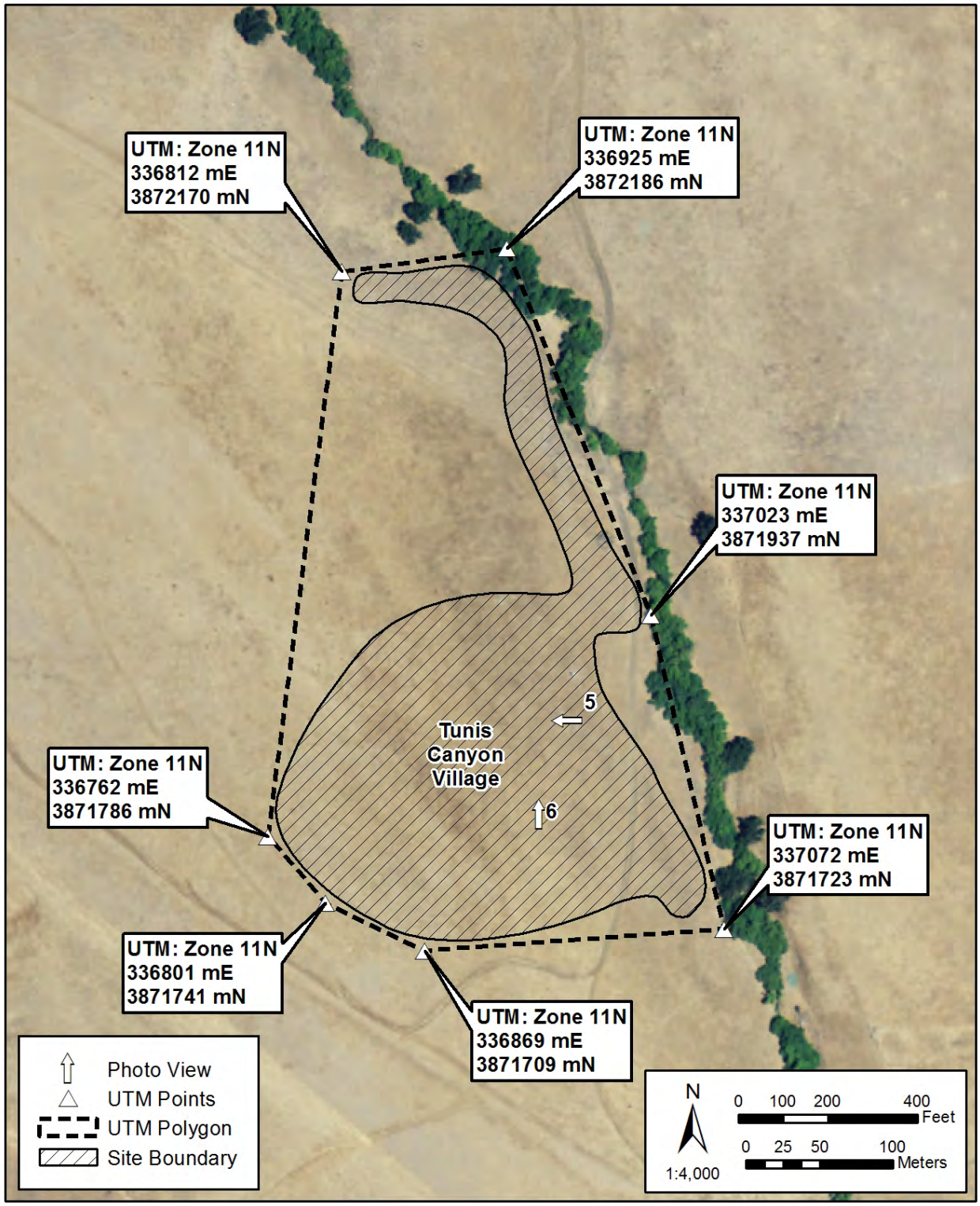
Map 2B: CA-KER-810 showing site features.



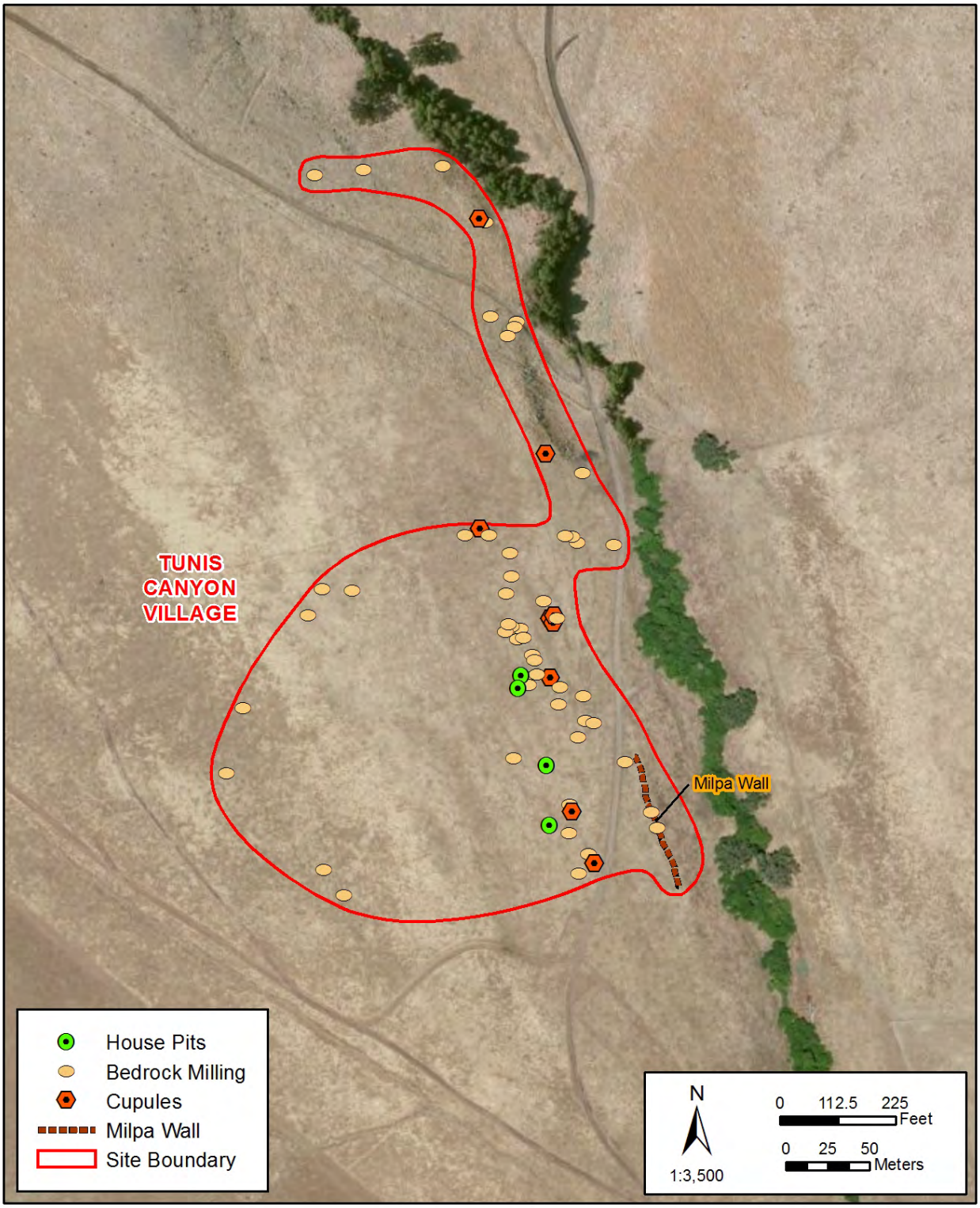
Map 3A: CA-KER-2185 showing photo views.



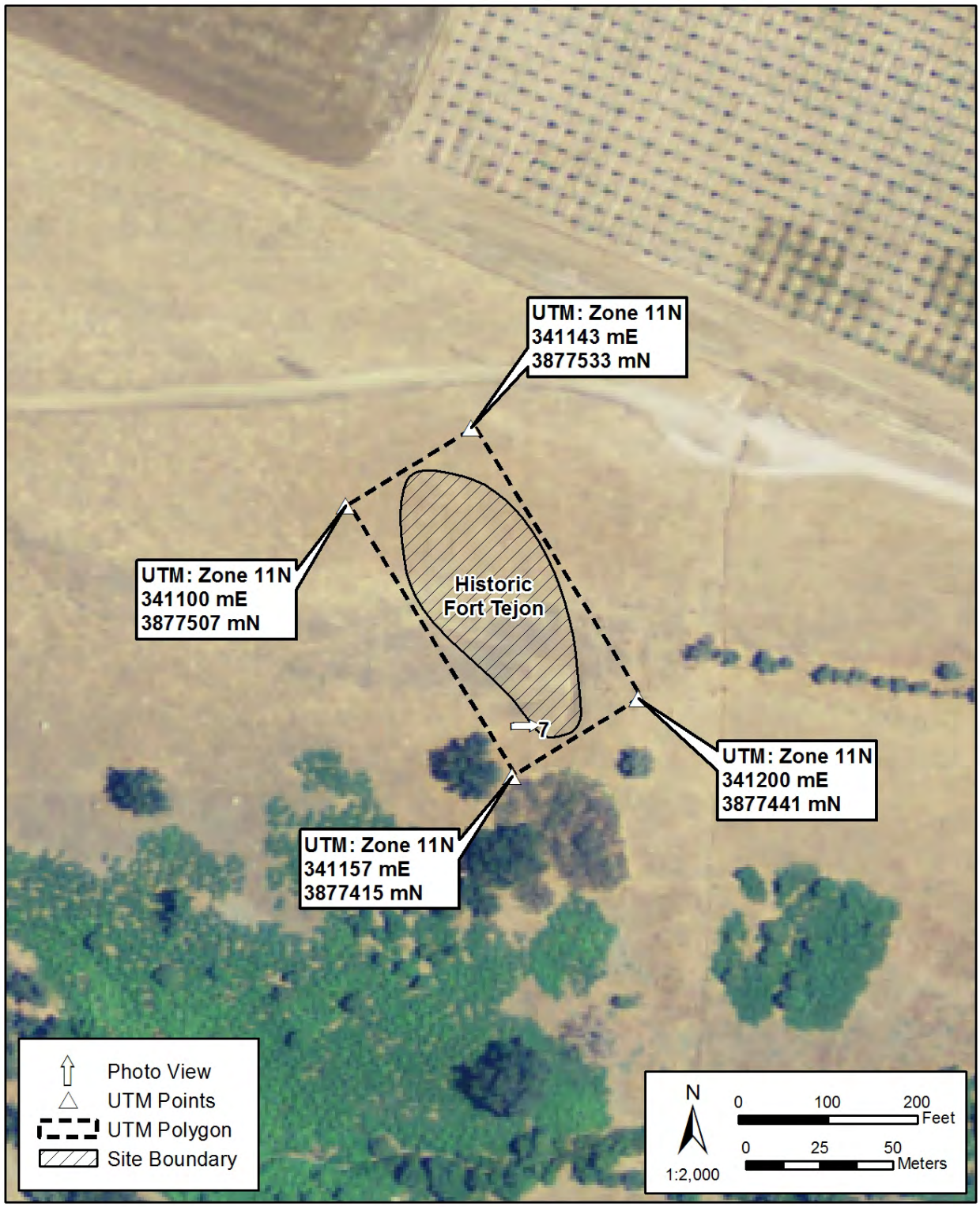
Map 3B: CA-KER-2185 showing site features.



Map 4A: Tunis Canyon village showing photoviews.



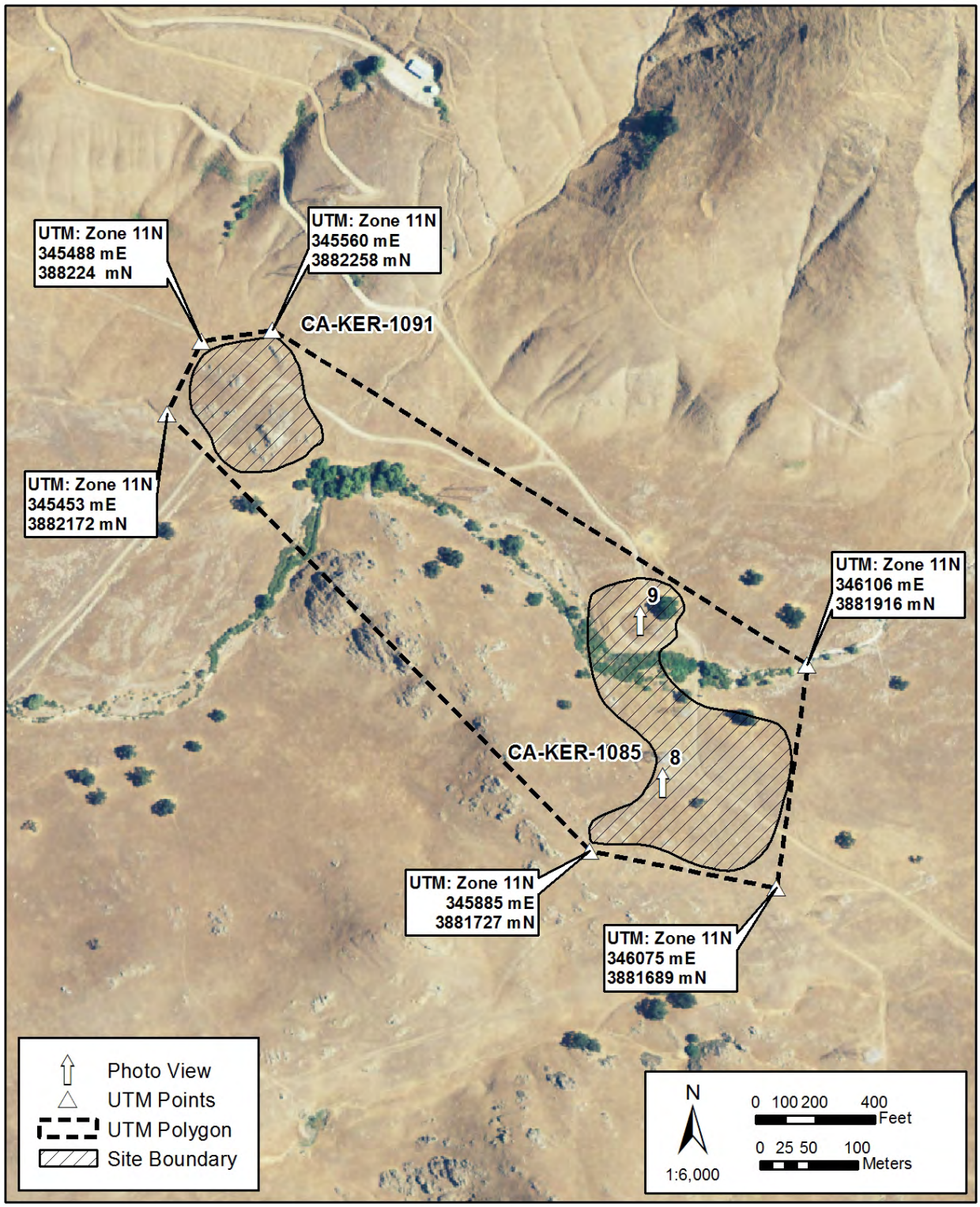
Map 4B: Tunis Canyon village showing site features.



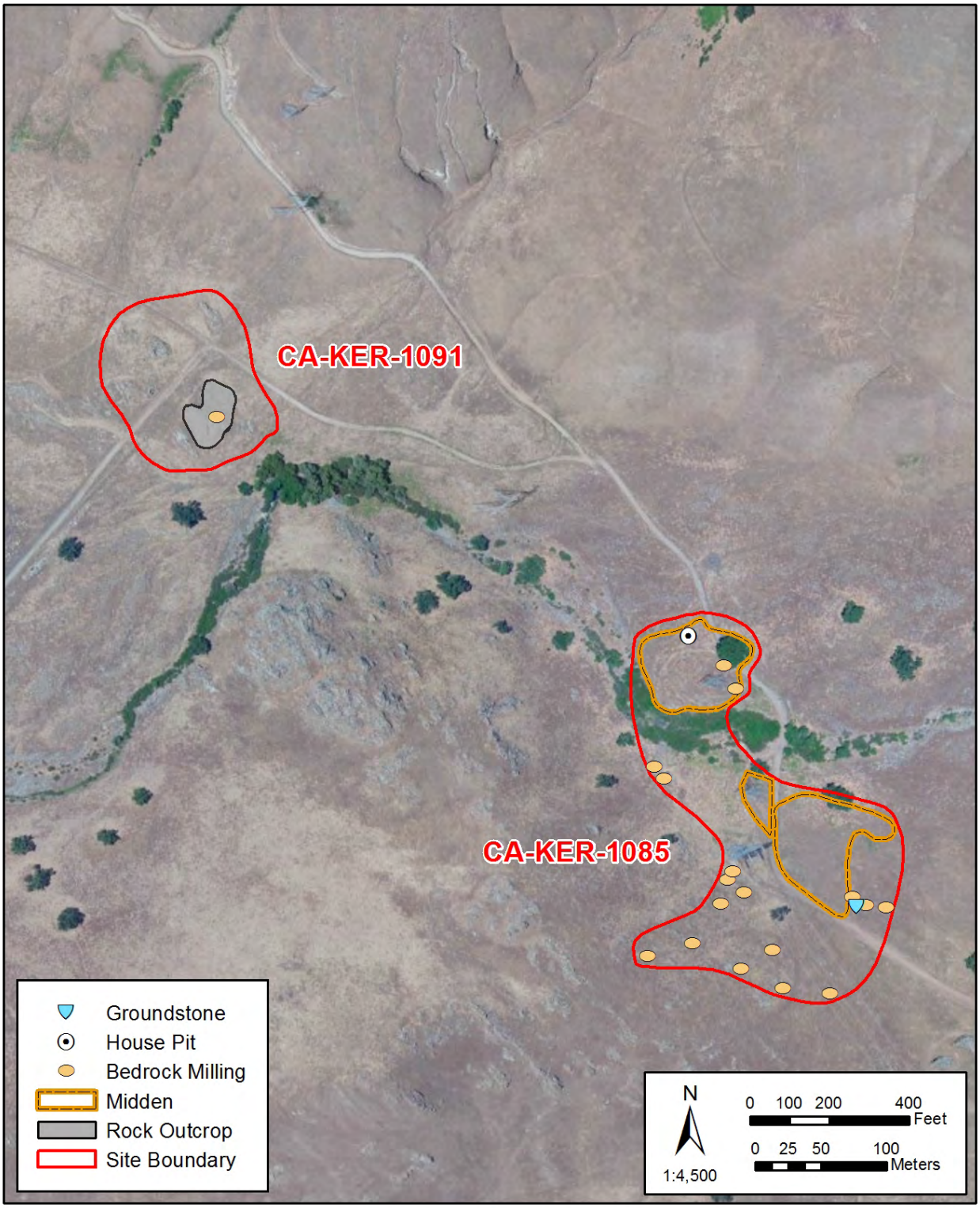
Map 5A: Historic Fort Tejon showing photo views.



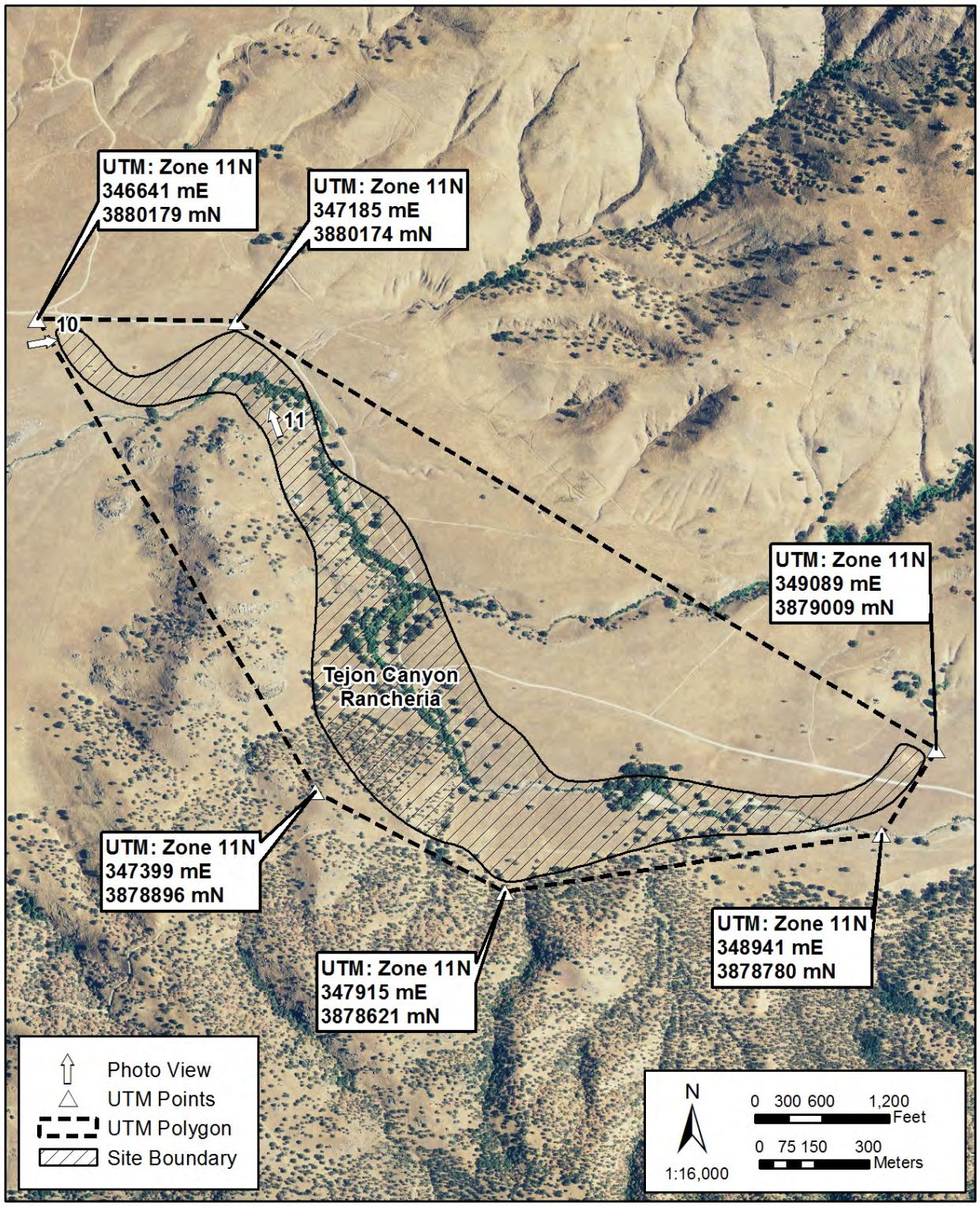
Map 5B: Historic Fort Tejon showing site features.



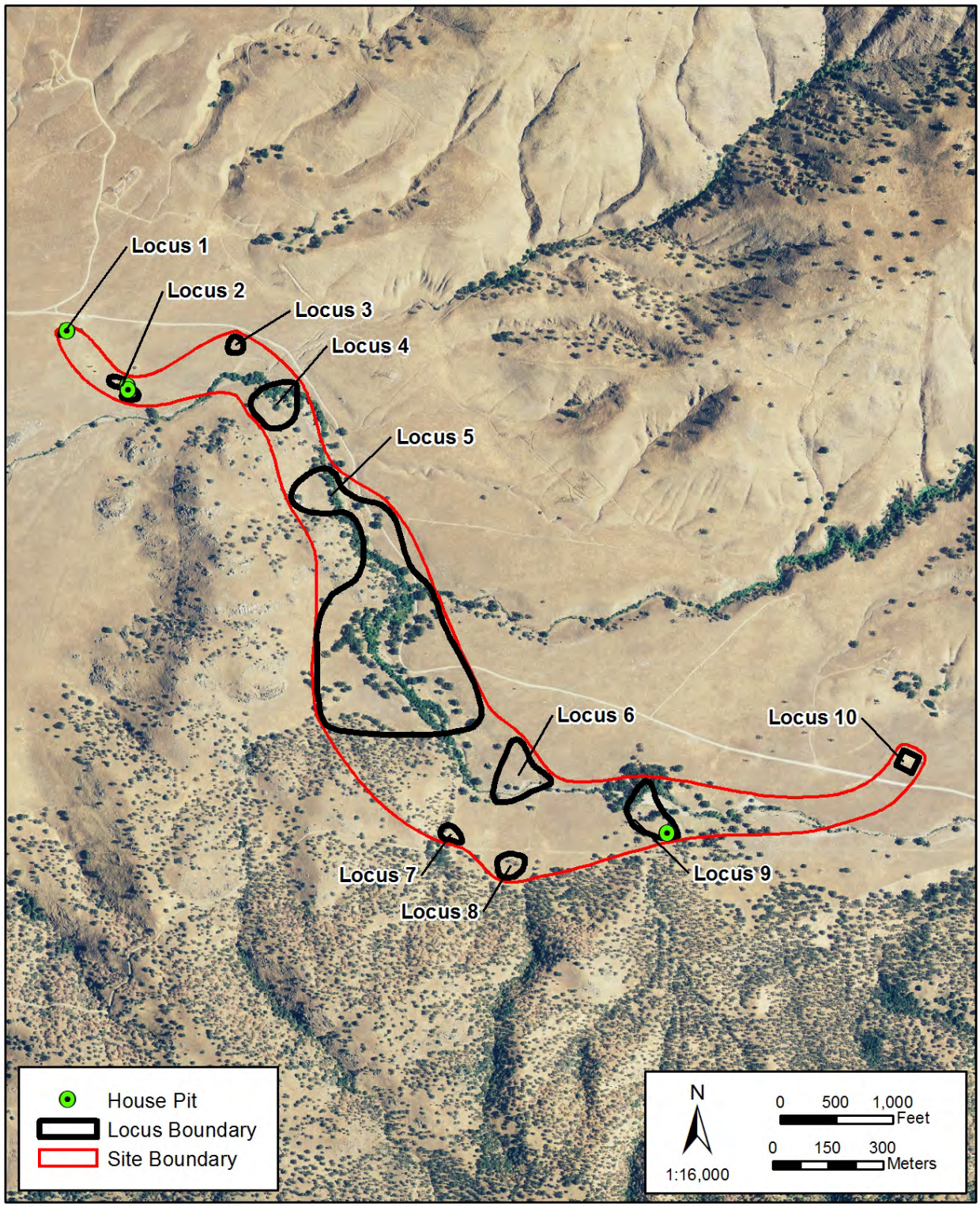
Map 6A: CA-KER-1085 & -1091 showing photo views.



Map 6B: CA-KER-1085 & -1091 showing site features.



Map 7A: Tejon Canyon Rancheria showing photo views.



Map 7B: Tejon Canyon Rancheria showing site locis/features.

Photo Log

Name of Property: Sebastian Indian Reserve Discontiguous Archaeological District

City or Vicinity: Tejon Ranch

County: Kern County State: California

Photographer: David S. Whitley

Date Photographed: March 2013

Photographs



Photo 1 of 11: View from the southeast of site CA-KER-810 in Live Oak Canyon, a Native American village and the first reserve headquarters. An arrow/metric scale is aligned along the cobble foundation forming the east side of the main adobe ruin; a mound of "melted" adobe lies within the former structure limits. This adobe is believed to have served as the house of Samuel A. Bishop and, when on the reserve, Edward F. Beale. The California Aqueduct and agricultural fields are in the background.



Photo 2 of 11: View from the southwest of a large house-pit on site CA-KER-810, Live Oak Canyon, with the arrow/scale in the approximate middle of the feature. A second adobe ruin is located a short distance north of this feature, visible as an earthen mound. Numerous fragments of metal and horseshoes in the immediate vicinity of this smaller adobe suggest that it may have served as the blacksmith's shop or residence. Orchards and agricultural fields are in the background.



Photo 3 of 11: View from the south of the fieldstone *milpa* wall at site CA-KER-2185 in Pastoria Canyon. Pastoria Creek is to the east (right); the cleared field, and this western wall, parallel the path of the drainage. A large midden deposit and series of possible house-pits are located immediately to the west of the cleared field/wall.

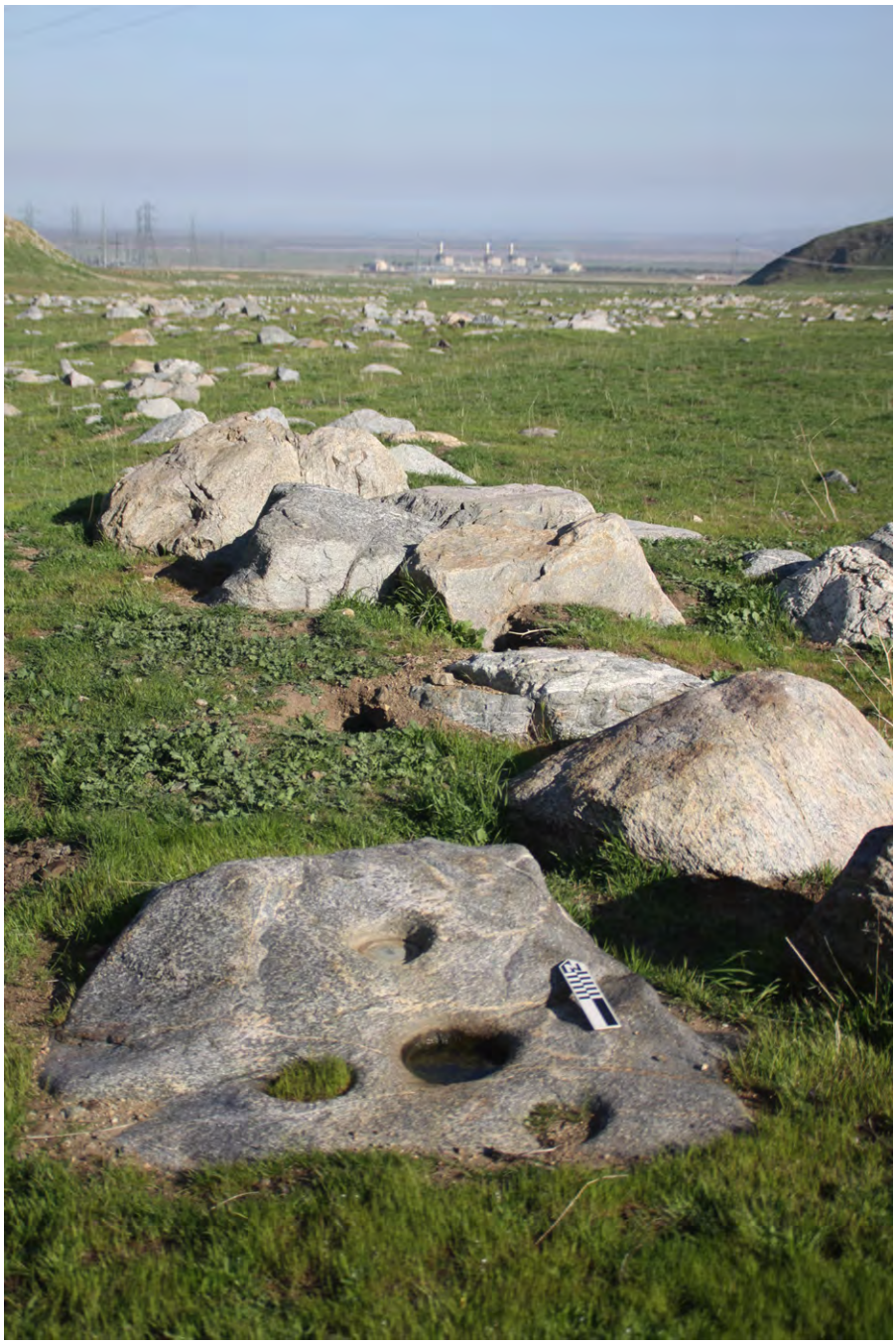


Photo 4 of 11: View from the south of a bedrock mortar station at site CA-KER-2185 in Pastoria Canyon. The northernmost of these five mortars is one of two on the site that contain a NOAA benchmark, the only observed physical damage to the site (beyond natural rodent disturbance). A power plant and transmission corridors are in the background.



Photo 5 of 11: View from the east of bedrock mortars, in the foreground, and cupules, on the vertical rock face in the background, at the Tunis Canyon village. According to ethnographic information, cupules were created by girls during puberty initiation ceremonies. A large midden deposit surrounds these features.



Photo 6 of 11: Close-up of surface artifacts within a house-pit at the Tunis Canyon village. The mix of broken historical glass and whiteware ceramics with fragmented animal bone (including a deer tooth) illustrates both the historical age of the feature, and the then-ongoing process of culture change due to the introduction of Euro-American trade goods onto the reserve.



Photo 7 of 11: View of CA-KER-1085, a component of the Chanac Creek village associated with *El Monte en Medio*, from the south, with a bedrock mortar station in the foreground. Although the access road for the transmission corridors and the construction of their towers have impacted portions of the site, the overall integrity, and good condition, of it are demonstrated by the fact that at least three pestles were identified in situ in the mortars, at this location.



Photo 8 of 11: View from the south of the preserved house-pit at CA-KER-1085, with the arrow/scale in the approximate middle of the feature.



Photo 9 of 11: View from the west of the remnants of the race for the reserve mill at the second headquarters on El Paso Creek. A rectangular, flat pad was excavated into the hill side immediately above and to the left (north) of the race, visible as a brown patch in the vegetation (probably due to soil compaction). This area appears to represent the mill house itself. Remnants of the original Fort Tejon adobe are located on the top of the rise to the north.



Photo 10 of 11: View from the west of Locus 1 of the Tejon Canyon site, the northernmost homestead in Tejon Canyon. The alignment of fieldstones is the western foundation of a small adobe structure, with a mound of "melted adobe" in the interior of the structure. A house-pit is present just east of the adobe. The three large olive trees in the background are common features at the canyon homesteads.



Photo 11 of 11: View from the south/southwest of a bedrock mortar station at Locus 4 of the Tejon Canyon site, an area said to contain sweathouses in a 1933 sketch map of the canyon. Bedrock mortars are common at most of the loci.

STATE OF CALIFORNIA – THE NATURAL RESOURCES AGENCY EDMUND G. BROWN, JR., *Governor*

STATE HISTORICAL RESOURCES COMMISSION
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ANMARIE MEDIN
RICK MOSS
DAVID PHOENIX
ADRIAN PRAETZELLIS
CAROL ROLAND-NAWI, Ph.D.
.....Executive Secretary

Quarterly Meeting of the
STATE HISTORICAL RESOURCES COMMISSION
Historic City Hall, Historic Hearing Room
915 I Street, 2nd Floor
Sacramento, California
November 7, 2014
9:00 a.m.
DRAFT

COMMISSIONERS PRESENT

Julianne Polanco, Chair, History
Bryan K. Brandes, Vice-Chair, Public Member
Alberto Bertoli, Architecture
Elizabeth Edwards Harris, Architectural History
Marshall McKay, Folklife (arrived 9:20 a.m.)
Anmarie Medin, Historical Archaeology
Rick Moss, Ethnic History
Adrian Praetzellis, Prehistoric Archaeology

COMMISSIONERS ABSENT

David Phoenix, Public Member

STAFF PRESENT

Carol Roland-Nawi, Ph.D., State Historic Preservation Officer and Executive Secretary to the Commission
Jenan Saunders, Deputy State Historic Preservation Officer
Tara Lynch, Chief Counsel, California State Parks
Jay Correia, State Historian III, Registration Unit Supervisor
Eric Allison, California Historical Resources Information System Coordinator
William Burg, State Historian II

Amy Crain, State Historian II
Diane Barclay, Outreach and Communications Coordinator
Twila Willis-Hunter, Executive Secretary

Note: Meeting minutes are a summary and not a verbatim transcription. Audio recordings of each SHRC meeting are available at http://www.ohp.parks.ca.gov/?page_id=21754.

I. CALL TO ORDER

Legal notice having been duly given and a quorum present, the State Historical Resources Commission (SHRC) meeting was called to order at 9:05 a.m. by Chair Julianne Polanco.

II. PLEDGE OF ALLEGIANCE

Chair Polanco led those assembled in the Pledge of Allegiance.

III. INTRODUCTION OF COMMISSIONERS AND STAFF

Chair Julianne Polanco extended a welcome to all present on behalf of the Commission. She extended the Commission's appreciation to Kathleen Green, Sacramento Old City Association, for hosting a reception following the Commission's workshop on Thursday, November 6, 2014.

The Commissioners introduced themselves. State Historic Preservation Officer (SHPO) Carol Roland-Nawi introduced Office of Historic Preservation (OHP) staff present both at the dais and in the audience, noting newest staff members, Sean deCourcy and Patrick Riordan.

IV. WELCOME

Cynthia Gomez, Tribal Liaison to the Governor's Office, and Executive Secretary of the National Heritage Commission spoke on behalf Lisa Mangat, Acting Director of California State Parks, who was unable to attend the meeting.

V. RESOLUTIONS

A. City of Palm Springs (California's 65th Certified Local Government).
B. City of Sonoma (California's 66th Certified Local Government).

VI. APPROVAL OF August 1, 2014, MINUTES

Vice-Chair Brandes moved to approve the minutes as presented. Commissioner Praetzellis seconded the motion. **Action:** Motion carried unanimously.

VII. COMMISSION AND STAFF REPORTS

A. Julianne Polanco–Chairperson's Report

No Report

B. Carol Roland-Nawi, Ph.D.–Executive Secretary's Report

1. Latinos in Twentieth Century California Multiple Property Submission (MPS) Update
SHPO Roland-Nawi reported that the MPS is undergoing in-house review and will be on the agenda for the Commission's January 28, 2015 meeting.

2. 2014 Year in Review
Roland-Nawi outlined some of the highlights of the OHP's year including development of the *Latinos in Twentieth Century California* context, revamping of the OHP website, a thematic format for the newsletter, resumption of the monthly ePosts, and internal reorganization of the OHP which will allow for cross-training of staff and expansion of Section 106 programs. SHPO Roland-Nawi noted the successful number of projects completed under Certified Local Government (CLG) grants, and the increased number of historic districts and tribal archaeological sites submitted for National Register nominations. She also mentioned the Tribal Consultation meetings the OHP has scheduled for late November and December in which the OHP will solicit tribal input on developing a tribal access policy for the California Historical Resources Information System (CHRIS).

SHPO Roland-Nawi then invited Deputy SHPO Jenan Saunders to present a PowerPoint presentation of the 2014 Governor's Historic Preservation Award recipients. Three organizations and eight projects received awards this year.

VIII. COMMITTEE REPORTS

A. Archaeological Resources Committee – Anmarie Medin, Chair

Commissioner Medin reported that the committee continues to move forward on implementation of the White Papers, working with OHP staff to meet the papers' goals.

B. Cultural Diversity Committee – Rick Moss, Chair

Commissioner Moss reported on his plans to establish an initiative for a statewide African American Heritage Trail, which would increase public awareness and appreciation for resources significant to African American history and culture in California. The California African American Heritage Trail would be the first of its kind in the western United States.
Commissioner Moss invited John William Templeton to speak about his work in developing San Francisco's African American Freedom Trail. Mr. Templeton also spoke to the importance of increasing public awareness as a step toward better protection and preservation of resources related to African American history and culture.

Chair Polanco asked Commissioner Moss to place this item on the next meeting's agenda so a motion can be made by the Commission to formally recognize the initiative effort.

C. Information Center Procedural Advisory Committee (ICPAC) – Adrian Praetzellis, Chair

Commissioner Praetzellis reported that the committee has not met since the last Commission meeting. He mentioned that reports were given during Thursday's workshop regarding the CHRIS electronic fee structure. Commissioner Praetzellis noted that Eric Allison would report on this later on in the meeting.

D. Modernism Committee – Elizabeth Edwards Harris, Chair

Commissioner Harris reported that the Modernism Committee is moving forward on two initiatives:

Integrity – panel discussions are planned for the California Preservation Foundation Annual Conference and for Modernism Week in Palm Springs.

Outreach – the goal is to connect modernism groups throughout the state to exchange best practices and discuss current issues related to California's modernism resources.

Break: 10:12 – 10:20 a.m.

IX. POWERPOINT PRESENTATION OF CONSENT CALENDAR PROPERTIES

Jay Correia, State Historian III/Registration Unit Supervisor; Amy Crain, State Historian II; William Burg, State Historian II

X. CONSENT CALENDAR*

A. National Register of Historic Places, New Nominations

1. Sebastian Indian Reserve Discontiguous Archaeological District
   Restricted Location, Kern County
   State Level of Significance

2. Franklin Rosborough Thomas House
   La Cañada Flintridge, Los Angeles County
   Local Level of Significance

3. Amelia Vollers House
   San Mateo, San Mateo County
   Local Level of Significance

4. George and Eliza Withington House
   Ione, Amador County
   Local Level of Significance

5. Mount Tamalpais Mountain Theater
   (CCC in CA State Parks MPS)
   Mill Valley (vicinity), Marin County
   Local Level of Significance

6. Sonoma Valley Woman's Club
   Sonoma, Sonoma County
   Local Level of Significance

7. Guapiabit-Serrano Homeland Archaeological District
   Location Restricted, San Bernardino County
   State Level of Significance

8. San Diego Fire Station #6
   San Diego, San Diego County
   National Level of Significance

9. San Jose Central Fire Station
   San Jose, Santa Clara County
   Local Level of Significance

10. Woman's Club of Palo Alto
    Palo Alto, Santa Clara County
    Local Level of Significance

Chair Polanco read aloud the rules and procedures by which the Commission reviews and votes on the National Register of Historic Places and California Historical Landmarks nominations.

Commissioner McKay moved to approve the Consent Calendar as presented. Commissioner Bertoli seconded the motion. **Action**: Motion carried unanimously.

Christine Lazaretto, Historic Resources Group, and Theodore Thomas (son of Frank Thomas) spoke in support of the Frank Thomas House, thanking the Commission for their vote and Jay Correia, OHP Registration Unit, for his assistance.

John McMillian, San Jose Fire Museum, thanked the Commission for their support of the San Jose Central Fire Station.

Marilyn McDonald, Woman's Club of Palo Alto, thanked the Commission for their support of the Club, and also thanked Jay Correia and William Burg of the OHP for their assistance with the nomination process.

Victor Bjelajac, Department of Parks and Recreation, thanked the staffs of the OHP and California State Parks' Archaeology, History, and Museum Division for their assistance with the Mount Tamalpais Mountain Theater nomination.

XI. NATIONAL REGISTER OF HISTORIC PLACES CALIFORNIA REGISTER OF HISTORICAL RESOURCES DISCUSSION AND ACTION ITEMS

Chair Polanco explained the process and time limits for public comments and rebuttals regarding the action items.

A. National Register of Historic Places, New Nominations

1. CA-ORA-855
   San Juan Capistrano, Orange County
   Local Level of Significance

Patricia Martz, California Cultural Resources Preservation Alliance, and Rebecca Robles, Native American descendant, spoke in favor of the nomination, noting the importance of this site in Native American traditions and oral history, and the fact that so many sites have been lost. They thanked the SHPO and staff of OHP for their assistance.

Commissioner Praetzellis voiced his support, saying he was glad significance was found under Criterion A, as this reflects the importance of considering human history, not just research when evaluating such sites.

With the period for discussion concluded, Commissioner Medin moved that the Commission determine that CA-ORA-855 meets National Register Criterion A at the local level of significance, and that procedural requirements of the nomination process have been met. Commissioner McKay seconded. **Action:** Motion carried unanimously.

2. Capitol Towers
   Sacramento, Sacramento County
   Local Level of Significance

Gretchen Steinberg of Sac Modern, Flora Chou of Page & Turnbull, Carr Kunze, and Barry Wasserman all spoke in favor of the nomination. They emphasized, among other things, the property's significance as the city's first construction project after the city launched its redevelopment efforts in the 1960s; the project's innovative use of outdoor spaces that brought the garden community idea of centuries past into a modern urban environment; and the importance of the property as a resource for studies on mid-century urban redevelopment.

Chris McMorris of JRP Historical Consulting spoke in opposition, stating JRP's belief that the property lacked sufficient historic integrity to meet the criteria for significance.

Commissioners Bertoli, Harris, Moss, and McKay all spoke in support of the nomination. The commissioners noted the successful interrelationship of indoor and outdoor spaces at Capitol Towers, and the property's importance as an example of this type of blended environment in a world moving increasingly toward high-density urbanization. They expressed their belief that having this type of property extant within the city's urban landscape is an asset to Sacramento.

The comment period having concluded, Commissioner Medin moved that the Commission determine that Capitol Towers meets National Register Criteria A and C at the local level of significance, and that procedural requirements of the nomination process have been met. Commissioner McKay seconded. **Action:** Motion carried unanimously.

Commissioner McKay departed the meeting at 12:20 p.m.

B. California Register of Historical Resources, New Nominations

1. Cottrell House
   La Jolla, San Diego County
   Local Level of Significance

Desiree Kellogg and Diane Kane spoke in favor of the nomination and specifically the inclusion of parcel 4 for purposes of preserving the viewshed. They noted the existence of documents that detail architect May's intent to make the viewshed of the property integral to the architectural design of the property.

David Mandelbaum, the property owner, spoke in opposition to the nomination as written. He expressed his willingness to designate the house but opposed inclusion of the adjoining parcels, such as parcel 4, which he contended lacked significance.

The Commissioners then discussed the nomination, its merits, and the question of the importance of the viewshed to the property's significance. They reviewed which parcels were or were not included in the nomination and asked if they had the choice of considering only parcel 1 on which the house sits. Chief Counsel Tara Lynch stated that the SHRC does not have the authority to change a nomination; the commission's responsibility is to determine eligibility under California Register criteria of a nomination as it is written and submitted.

Commissioner Harris moved that the Commission determine the Cottrell House meets California Register of Historical Resources Criterion 3 at the local level of significance, and approve the nomination as written for listing in the Register. Commissioner Praetzellis seconded. A roll-call vote was taken: Commissioner Praetzellis–yes; Commissioner Harris–yes; Commissioner Medin–yes; Chair Polanco–no; Vice-Chair Brandes–no; Commissioner Bertoli–no; Commissioner Moss–no. **Action:** Motion failed.

XII. NATIONAL REGISTER OF HISTORIC PLACES
Progress Report

Chair Polanco updated the Commission on the various properties that had been listed in the National Register since the last meeting of the Commission, as noted in the meeting agenda.

XIII. PUBLIC COMMENTS

None.

XIV. COMMISSION DISCUSSION AND ACTION ITEMS

A. California Historical Resources Information System (CHRIS) Native American Access Policy

SHPO Roland-Nawi reported that the OHP has four Tribal Consultation meetings scheduled for later in November and in December. A

teleconference is also scheduled. The purpose of the meetings is to gain tribal input on developing a tribal access policy for CHRIS. The OHP will report back to the Commission at the January 28, 2015 meeting regarding the results of the consultations.

B. California Historical Resources System (CHRIS) Electronic Fee Schedule

Eric Allison reported that the CHRIS electronic fee schedule was discussed at the SHRC workshop on Thursday, November 6, 2014, with a presentation by The Results Group, the contractor hired to analyze the current fee system. Based on the discussion and the contractor's findings, it was decided to keep the current fee schedule in place until all analysis evaluations are concluded in early 2015 and any recommended changes can be brought before the SHRC at their April 2015 meeting. Chair Polanco commended staff for all of their work on this issue.

Vice-Chair Brandes moved to continue the current fee schedule until the April 29, 2015 meeting of the SHRC. Commissioner Praetzellis seconded. **Action:** Motion carried unanimously.

XV. COMMISSIONERS' COMMENTS

None.

XVI. MEETING DATES AND LOCATIONS FOR 2015

Chair Polanco read the schedule of State Historical Resources Commission meetings for 2015 into the record:

January 28, 2015, Sacramento
April 29, 2015, San Diego
August 7, 2015, Sacramento
November 6, 2015, Sacramento

XVII. ELECTION OF CHAIRPERSON AND VICE-CHAIRPERSON FOR 2015

Commissioner Moss reported that no recommendations had come forward for new nominees; that instead the commissioners expressed the desire to reelect Chair Polanco and Vice-Chair Brandes, commending them for their excellent service through the last two term years.

Commissioner Moss moved to nominate Julianne Polanco and Bryan K. Brandes to a third term as Chair and Vice-Chair, respectively, of the SHRC. Commissioner Praetzellis seconded. **Action:** Motion carried unanimously. Chair Polanco and Vice-Chair Brandes thanked the Commissioners for their endorsement and vote, and accepted the nomination.

XVIII. ADJOURNMENT

Chair Polanco adjourned the regular meeting of the Commission at 1:10 p.m.

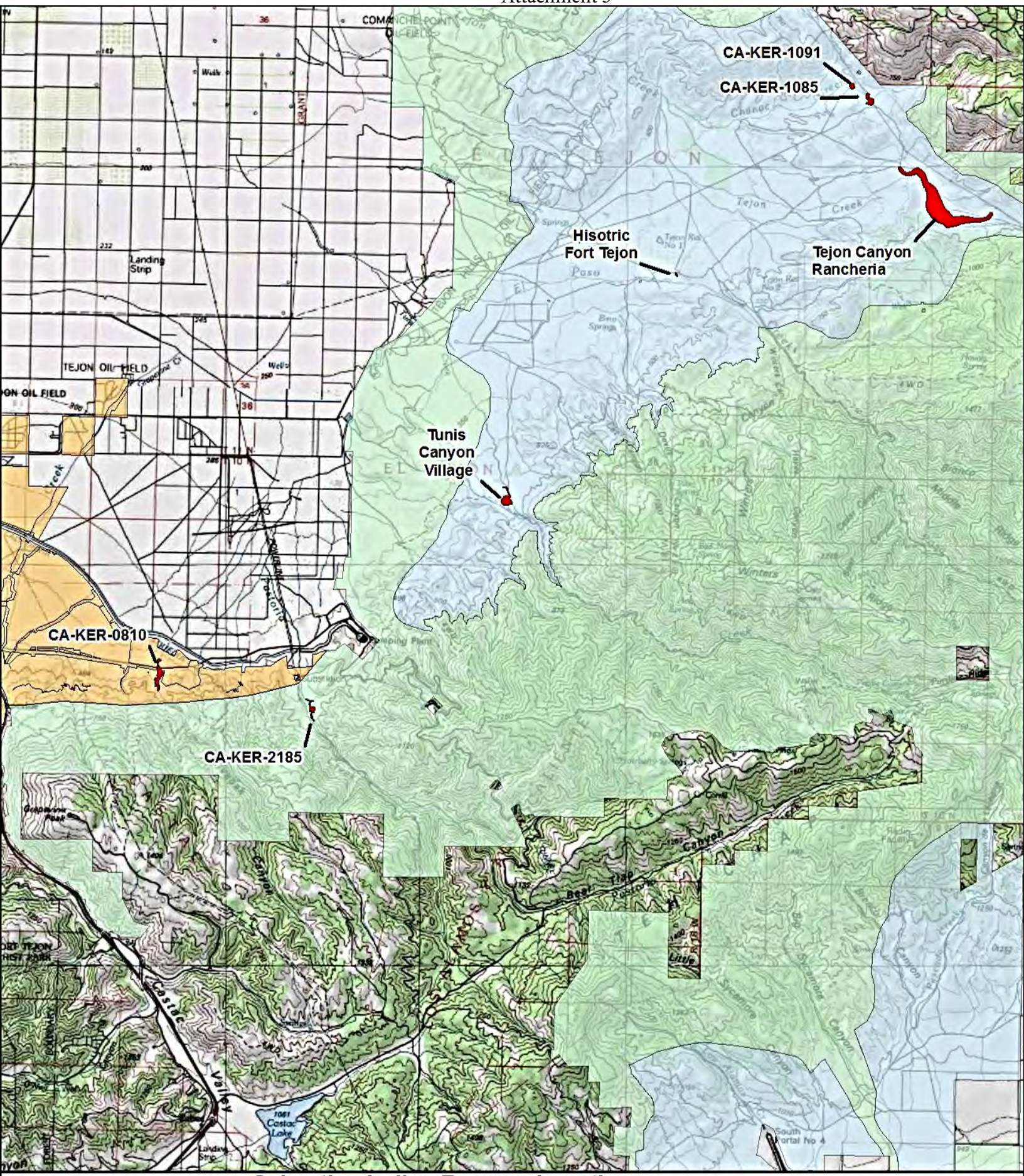
Respectfully submitted,



Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer

1/7/2015
Date

Attachment 3



Appendix H.1

Paleontological Resource Assessment

PALEONTOLOGICAL RESOURCE ASSESSMENT

Grapevine Project

Prepared for:

Tejon Ranchcorp
4436 Lebec Road
Tejon Ranch, California 93243

Prepared by:

Department of PaleoServices
San Diego Natural History Museum
P.O. Box 121390
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NOVEMBER 2014

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EXECUTIVE SUMMARY

This report presents the results of a paleontological resource assessment of the Grapevine project, of Tejon Ranch, Kern County, California. Paleontological resources (fossils) are any remains or traces of past life (e.g., bones, shells, leaves, burrows, footprints) preserved within the rock record. Fossils represent organisms that no longer exist, and thus are considered nonrenewable resources that are protected under the California Environmental Quality Act (CEQA) and the Kern County General Plan. The purpose of this report is to provide baseline data on paleontological resources within the project site, and to identify project design features and mitigation measures to reduce any potential impacts to these resources to less than significant levels.

The 8,010-acre Grapevine project is located along the Interstate 5 (I-5) corridor, at the base of the Tehachapi Mountains and San Emigdio Mountains and the southern portion of the San Joaquin Valley (Central Valley). The project elements include construction of a residential community and employment center (the Development Footprint; about 60% of the proposed land use) and preservation of agricultural areas to be used for grazing and open space (about 40% of the proposed land use). The designation of 40% of the project as either dedicated open space or retained open space is a product design feature that would passively preserve paleontological resources.

Existing paleontological resources within the project site were identified through institutional record searches, geological and paleontological literature searches, and a 5-day field survey. Following the criteria set forth by the Society of Vertebrate Paleontology (SVP), each geologic rock unit/formation was assigned a paleontological potential ranking of either high potential, low potential, no potential, or undetermined potential. Rock units/formations with high paleontological potential or undetermined paleontological potential typically require mitigation, while low paleontological potential and no paleontological potential rock units/formations do not. The data resulting from the records search, literature search, and field survey is summarized in a geologic map and a paleontological resource potential map.

Ten geologic rock units/formations are located within the Grapevine project site, eight of which are sedimentary in origin and thus have the potential to contain fossils. The sedimentary rock units/formations within the project site range in age from about 45 million years old to less than 10,000 years old, and represent marine and/or nonmarine strata deposited in or adjacent to an ancient, partially enclosed marine embayment that occupied the San Joaquin Valley intermittently from Eocene until Pleistocene time. These rock units/formations include the Eocene-age Tejon Formation (about 45 million years old; high paleontological potential), Oligocene-Miocene-age Tecuya Formation (about 23 million years old; high paleontological potential), Miocene-age Bena Conglomerate (about 10 million years old; undetermined paleontological potential), Pleistocene-age older alluvial fan deposits (units 1-3; about 2 million to 10,000 years old; undetermined paleontological potential), Holocene-age landslide deposits

(less than 10,000 years old; low paleontological potential), and Holocene-age young alluvial fan deposits (less than 10,000 years old; low paleontological potential). The high paleontological potential rock units/formations (Tejon Formation and Tecuya Formation) are exclusively located in open space areas and thus their contained paleontological resources would be preserved through the project design. The majority of the development footprint is underlain by older alluvial fan deposits, unit 1 (Qoa_1) and young alluvial fan deposits, with minor occurrences of older alluvial fan deposits, unit 2 (Qoa_2) and the Bena Conglomerate.

Implementation of a paleontological mitigation program is recommended for earthwork activities that would impact rock units/formations of undetermined paleontological potential. This includes all earthwork activities in areas underlain by deposits of Qoa_2 and the Bena Conglomerate, and for earthwork extending deeper than 5 feet in areas underlain by Qoa_1 deposits (the uppermost portion of Qoa_1 is believed to be Holocene in age, and is thus considered low paleontological potential). The paleontological mitigation program would include completion of a Paleontological Resources Management Plan by a Kern County approved Project Paleontologist, attendance by a Project Paleontologist or Qualified Paleontological Monitor at pre-construction meetings, presence of a Qualified Paleontological Monitor during above listed earthwork activities (which may be reduced or omitted at the discretion of the Project Paleontologist), salvage, preparation, and curation of reasonable samples of any discovered, scientifically significant fossils, and preparation of a final report summarizing the results of the mitigation program. Following mitigation, construction of the Grapevine project would not have significant impacts to paleontological resources. Post-construction management of paleontological resources in designated and retained open space areas would further aid in the preservation of scientifically significant fossils and may include discouraging the general public from collecting fossils and/or vandalizing fossil localities (e.g., through educational exhibits, signs), and periodic inventories and monitoring of existing fossil localities.

1.0 INTRODUCTION

1.1 Purpose and Scope

1.1.1 Purpose of Technical Report

The purpose of this report is to provide baseline data on the nature, distribution, and concentration of paleontological resources in the Grapevine project site, potential impacts to these resources that could be associated with the Grapevine project, and identify project design features and mitigation measures that would reduce potential impacts to less than significant levels. Potentially fossil–bearing geological rock units (formations) are located within the project site and range in age from early Eocene (~55 Ma) through the Holocene (11,000 years ago to the present). Information on the nature, distribution, and concentration of paleontological resources in the Grapevine project site, as described below, was obtained from a variety of sources including institutional paleontological collection records, published and unpublished geological and paleontological literature, and field surveys. Geologic conditions and paleontological resources within the project site are identified in a series of detailed maps included in this report.

1.1.2 Definition and Significance of Paleontological Resources

Paleontological resources (i.e., fossils) are the buried remains and/or traces of prehistoric organisms (i.e., animals, plants, and microbes). Body fossils such as bones, teeth, shells, leaves, and wood, as well as trace fossils such as tracks, trails, burrows, and footprints, are found in the geological deposits (formations) within which they were originally buried. The primary factor determining whether an object is a fossil or not, is not how the organic remain or trace is preserved (e.g., "petrified"), but rather the age of the organic remain or trace. Although typically it is assumed that fossils must be older than ~10,000 years (i.e., the widely accepted end of the last glacial period of the Pleistocene Epoch), organic remains of early Holocene age can also be considered to represent fossils because they are part of the record of past life.

Fossils are considered important scientific and educational resources because they serve as direct and indirect evidence of prehistoric life and are used to understand the history of life on Earth, the nature of past environments and climates, the membership and structure of ancient ecosystems, and the pattern and process of organic evolution and extinction. Fossils are considered to be non–renewable resources because typically the organisms they represent no longer exist. Thus, once destroyed, a particular fossil can never be replaced. Finally, paleontological resources can be thought of as including not only the actual fossil remains and traces, but also the collecting localities and the geological rock units containing those localities, as well as any other contained data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information (SVP 2010). This definition is important from a planning standpoint as it underscores the operational reality that a given

geological deposit known to contain fossils in one area would potentially contain fossils in another area when impacted by construction–related excavations.

1.2 Project Description and Project Design Features

1.2.1 Project Location

The Grapevine project is located in the west-central portion of Tejon Ranch (the Ranch). The approximately 270,000-acre Ranch is currently held in private ownership by Tejon Ranchcorp. The Ranch includes a large portion of the Tehachapi Mountains as well as smaller portions of the San Joaquin and Antelope Valleys. Generally, the Ranch extends from Interstate 5 (I-5) on the western side to State Route 58 (SR 58) on the northern side and SR 138 on the southern side (Figure 1-1).

The 8,010-acre Grapevine project site is entirely within unincorporated Kern County, just south of the junction of I-5 and SR 99. Downtown Bakersfield is approximately 25 miles north of the project. The majority of the project is on the east side of I-5, but a smaller portion lies on the west side of I-5. The project site is bisected by the California Aqueduct (Figures 1-1 and 1-2).

The Grapevine project site lies mainly in the Grapevine and Pastoria Creek U.S. Geological Survey (USGS) 7.5-minute quadrangles. There is one parcel and a portion of two other parcels in the project site that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57′9″ N and 118°55′39″ W. The Universal Transverse Mercator (UTM) coordinates for the approximate center are UTM Easting (meters) 323999 and UTM Northing (meters) 3869472 in Zone 11.

1.2.2 Project Overview

The 8,010-acre project site is within the 15,644-acre Grapevine Planning Area identified in the Tejon Ranch Land Use and Conservation Agreement, a landmark agreement reached in 2008 with leading environmental organizations (including the Sierra Club, Natural Resources Defense Council, California Audubon Society, Endangered Habitats League, and Planning and Conservation League) to permanently preserve over 90% of the Ranch as open space and limit development to designated areas near existing infrastructure such as I-5. The precise boundaries of the 8,010-acre project site may be further adjusted based on the results of the ongoing environmental review and permitting process for the project, but would remain within the Grapevine Planning Area.

The Grapevine project site includes approximately 8,010 acres, of which approximately 3,232 acres (or about 40%) would be designated for agriculture (with grazing and open space as the predominant land uses) and approximately 4,778 acres (about 60%) would be developed as a

new residential community and employment center. The community would leverage and build upon the economic expansion and job growth that has occurred at Tejon Ranch Commerce Center (Figure 1-2), located immediately north of the project on I-5. The Grapevine project would feature a series of compact neighborhoods linked by bicycle and pedestrian trails that provide convenient access to grocery and drugstores, professional services, schools, and parks. The project site is located along I-5, at the gateway to the Central Valley, and is immediately adjacent to the extensive open space that was preserved in the 2008 Tejon Ranch Land Use and Conservation Agreement.

The project, which would include up to 14,000 residential units and 10.7 million square feet of commercial land uses, is designed as a series of conveniently located village centers, each composed of a mix of housing, neighborhood-serving retail and office uses, schools, parks, and community services. Outside the village cores, the Grapevine project includes a mix of residential uses, office, research and development, regional commercial, freeway-oriented commercial, and light industrial/warehouse uses. Other potential public facilities, including a fire station, sheriff substation, transit facility/park-and-ride, and water and wastewater treatment facilities, are throughout the community.

Access to the first phases of the Grapevine community would be from Interstate 5 at the existing Grapevine Road and Laval Road interchanges. During later phases of development, the existing Grapevine Road/ Interstate 5 interchange may be expanded and relocated to the north. To allow for the relocation and replacement of the interchange, an existing Vehicle Enforcement Facility may be relocated to a TRC owned parcel on the west side of the junction of I-5 and CA-99. The project would also improve an existing TRC agricultural road east of the project site to provide access for truck traffic currently using Edmonston Pumping Plant Road to travel to properties east of the project. The circulation network with in the project is composed of two- and four-lane arterials, collector streets, and local streets organized in a grid pattern. All roads within the project site would be public. Multipurpose trails are proposed along Grapevine Creek, Cattle Creek, the southern foothills, and the open space adjacent to the California Aqueduct and at other locations throughout the project site. Some of these trails would connect to on-street, Class 2 bike lanes. Water and sewer service would be provided by the Tejon–Castac Water District.

1.2.3 Project Design Features

The designation of 3,232 acres, or about 40%, of the project site as dedicated and/or retained open space would passively preserve paleontological resources at the Grapevine project site (Figure 3–1; Figure 3–3). All geological rock units/formations with a high paleontological potential are located within these open space areas, and thus recorded USGS fossil localities, newly discovered fossil localities from the SDNHM field survey, and any undiscovered fossil localities and their contained fossil remains would be preserved through site avoidance. However, up to 20% of the open space areas may be disturbed during construction of trails and

other structures. Relocation (avoidance) of any trails or structures within areas of high or undetermined paleontological potential to areas of low or zero paleontological potential would preserve paleontological resources through site avoidance. If relocation (avoidance) of open space uses is not practical, then implementation of a paleontological mitigation program per the mitigation measures identified in Section 4.4 would preserve impacted paleontological resources through recovery and curation of any discovered fossils into a scientific institution.

1.2.4 Project Construction Scenario

The project site is divided into six planning areas ranging in size from approximately 450 to 1,400 acres. Development would be phased over a period of 19+ years, starting with development of Planning Area 1 and/or 6 and continuing with the balance of the planning areas (2, 3, 4, and 5) in numerical order. Buildout of each phase is projected to take approximately 2 to 4 years (Phase 1: 2 years; Phase 2: 4 years; Phase 3: 3 years; Phase 4: 4 years; Phase 5: 4 years; Phase 6: 2 years), with the first phase commencing in 2016. The portions of the site that are to remain in exclusive agriculture/open space are primarily located along the southern edge of the California Aqueduct, along the southern portion of the project site at the foothills of the Tehachapi Mountains, and along Grapevine and Cattle Creeks.

1.2.5 Project Operation Scenario

The project operations are described in the Grapevine Specific and Community Plan, and land uses associated with operations are described in the Grapevine Special Planning District Plan.

1.2.6 Acronyms and Terminology Used in the Report

For ease of reference, the following table identifies the primary technical terminology and corresponding abbreviations or acronyms used in this report.

Term/Abbreviation	Description
CIT	California Institute of Technology
I–5	Interstate–5
LACM	Natural History Museum of Los Angeles County
Lithology	The general physical characteristics of rocks
Ma	Million years ago (Mega–annum)
NALMA	North American Land Mammal Age
PDF	Project Design Feature
Qa	Quaternary young alluvial fan deposits
Qls	Quaternary landslide deposits
Qoa_1	Quaternary older alluvial fan deposits, unit 1
Qoa_2	Quaternary older alluvial fan deposits, unit 2
Qoa_3	Quaternary older alluvial fan deposits, unit 3
SAFZ	San Andreas Fault Zone

SDNHM	San Diego Natural History Museum
SR 58	State Route 58
Stratigraphy	A branch of geology focused on the study of strata
SVP	Society of Vertebrate Paleontology
Tbc	Tertiary Bena Conglomerate
The Ranch	Tejon Ranch
Transverse fault	A fault characterized by horizontal movement of the tectonic plates on either side
Tt	Tertiary Tejon Formation
Ttl	Tertiary Tejon Formation, Liveoak Shale Member
Ttm	Tertiary Tejon Formation, Metralla Sandstone Member
UCMP	University of California Museum of Paleontology
USGS	United States Geological Survey
UTM	Universal Transverse Mercator

2.0 SETTING

2.1 Geologic History

2.1.1 Regional Geologic Setting

The Grapevine project site lies in the southernmost portion of the San Joaquin Basin, and open space portions of the project extend into the foothills of the adjacent San Emigdio and Tehachapi mountains (Figure 2–1). The San Emigdio Mountains bound the southern San Joaquin Valley to the south and west, and the Tehachapi Mountains bound the valley to the south and east. The mountain ranges have been uplifted as a result of complex tectonic forces relating to the development of, and movement along the SAFZ, a major transverse fault that lies approximately 10 miles south and west of the project site. Approximately 190 to 200 miles of right–lateral offset have taken place on the San Andreas fault since the middle Miocene (approximately 15 Ma; Nilsen and Link 1975), and about 8 miles of that movement is thought to have occurred since the early Pleistocene (approximately 1.5 Ma; Dibblee 1961). In most parts of California, the trace of the SAFZ has a general northwest–southeast alignment ("strike"). However in the region of the San Emigdio and Tehachapi mountains the SAFZ makes a distinct bend as it turns to run more east–west before tuning again to the north to resume its more normal northwest–southeast trend. In this region of the "Big Bend" the SAFZ intersects the left–lateral Big Pine Fault to the west, and the left–lateral Garlock Fault to the east to form what some geologists refer to as the "structural knot" of southern California (Norris and Webb 1990). Tectonic events occurring in this structural knot, especially those related to the "Big Bend" in the SAFZ, are associated with regional compression that has caused local uplift of the San Emigdio Mountains and Tehachapi Mountains. Also associated with this tectonic regime has been the formation of a suite of smaller, localized thrust faults, including the Pleito Thrust Fault, which runs along the base of the Tehachapi Mountains, including a portion of the Grapevine project site (Nilsen and Link 1975).

2.1.2 Local Geologic History

For much of the early to late Cenozoic (65 to 3 Ma), the southern San Joaquin Valley was a partially enclosed marine embayment (the Tejon Embayment) that to the west was continuous with waters of the eastern North Pacific Ocean. Subsequent uplift of the Coast Ranges, which began in the Miocene, finally reached the point during Plio–Pleistocene time where marine waters receded from the valley for the final time. However, prior to this final regression, during the Eocene, Oligocene, Miocene, and early Pliocene epochs, fluctuations in sea level resulted in a series of marine transgressions and regressions and the cyclic deposition of marine and non–marine sedimentary rock units. During the majority of this time, the area of the project site was either adjacent to, or straddling the paleo shoreline.

In the early Eocene, the proto–mountain ranges surrounding the southern San Joaquin Valley first started rising. Erosion of these emerging upland areas led to the deposition of the marine Tejon Formation, which records a major episode of sea level rise (marine transgression) and subsequent sea level fall (marine regression). During the middle Eocene, continued deposition in the marine basin caused subsidence in the region, deepening the marine embayment. Global sea level fall in the late Oligocene, driven by continental–scale glaciation in the southern hemisphere, resulted in the formation of extensive alluvial fan to delta fan depositional systems (the Tecuya Formation). In the Miocene, the development of the SAFZ initiated a period of basinal extension, leading to uplift in the vicinity of the Grapevine project site, and the folding and tilting of Eocene and Oligocene sedimentary rocks. This period of heightened tectonic activity is associated with a period of volcanic activity. Explosive, phreatic eruptions generated pyroclastic flow deposits that were deposited on the locally sourced alluvial to submarine fans (Tecuya Formation). A second round of volcanism generated basalt flows that covered the region. Through the middle to late Miocene, continued regional uplift caused sea levels of the marine basin to fall, creating shallow marine environments within the San Joaquin Valley. Locally sourced terrestrial rocks (Bena Conglomerate) continued to be eroded and deposited within the Valley.

In the early Pliocene, a major tectonic transition from extension to compression occurred, leading to the development of a number of thrust faults including the Pleito Thrust, which is located in the southern portions of the Grapevine project site. Movement along this fault resulted in thrusting of Cretaceous basement rocks and overlying Cenozoic sedimentary rocks northward, over and onto the alluvial deposits of the valley floor. Movement along the Pleito Thrust has caused over 10,000 feet of regional displacement (Dibblee 1961), which, along with movement along the San Andreas Fault, has led to the heavy deformation of Cenozoic stratified rocks within the San Emigdio and Tehachapi Mountains. Dibblee (1961, p. 3) describes the entire mountain complex as being “squeezed up like a wedge between the vertical San Andreas fault and southward–dipping Pleito thrust fault zone.” The once flat–lying sedimentary rocks on the project site are now part of a tight complex of northward–leaning asymmetric folds, whose axes generally trend to the east–west (Dibblee 1961). The marine and nonmarine strata within this folded complex are tilted at steep angles, and in some cases are vertical to even slightly overturned.

More recently, from the Pleistocene through the present, alluvial sediments have been eroding off the surrounding highlands, and several large northward draining canyons including Metralla Canyon, Grapevine Canyon, and Liveoak Canyon, have been incised into the southern foothills to the south of the project site. Extensive alluvial fans extend from the mouth of these and adjacent canyons, northward across the project site. Large, deep–seated landslide complexes characterize the northern face of the San Emigdio and Tehachapi Mountains.

2.2 Regulatory Setting

The following state and local laws and policies regulate paleontological resources within the project site.

2.2.1 State

The California Environmental Quality Act (CEQA, Public Resources Code Section 21000 et seq.) addresses paleontological resources in the context of an environmental review for a discretionary state or local agency action. Guidelines for the Implementation of CEQA are included in the California Code of Regulations (CCR), sections 15000 *et seq*. The CEQA Environmental Checklist (CCR Section 15023, Appendix G) includes the consideration of whether a project would "directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" Many CEQA lead agencies use the SVP criteria (Section 4.1.2 below) to assess the significance of paleontological resources (SVP 2010) that could be impacted by a project. Kern County is currently in the process of establishing guidelines and standards of significance for paleontological resources. Most practicing paleontologists in Kern County follow the criteria set forth by the SVP. Consequently, the SVP criteria are also used in this report.

The SVP criteria suggest that adverse impacts to paleontological resources should be mitigated, in an effort to permanently preserve these resources. Impacts to paleontological resources can be minimized to a level below the threshold of significance through the permanent preservation of a fossil locality and its contained fossil resources (SVP 2010), which at the Grapevine project is being achieved by the designation of 40% of the project site as designated or retained open space, including all areas underlain by geologic rock units/formations with high paleontological potential. Alternatively, should construction activities take place in areas underlain by geologic rock units/formations of high or undetermined paleontological potential, the implementation of a paleontological mitigation program would reduce any adverse impacts to a level below the threshold of significance through the salvage and permanent storage of any salvaged fossils in an established scientific institution (SVP 2010).

2.2.2 Local

The Kern County General Plan, Land Use, Conservation, Open Space Element (Section 1.10.3 Archeological, Paleontological, Cultural, and Historical Preservation) includes the following Policy and Implementation Measures relevant to paleontological resources:

> Implementation Measure M: In areas of known paleontological resources, the County should address the preservation of these resources where feasible.

As discussed above, in accordance with SVP guidelines, the Grapevine project should address the preservation of paleontological resources through permanent preservation of fossil localities, and/or permanent preservation of salvaged fossils in an established scientific institution.

3.0 METHODS

3.1 Record Searches

Previously discovered paleontological resources in the vicinity of the Grapevine project site were assessed through literature searches and online searches of institutional records for museums with significant paleontological collections obtained from Kern County. This included the SDNHM, the LACM, and the UCMP. The purpose of the record searches was to determine the extent of prior paleontological fieldwork and fossil collecting in or adjacent to the Grapevine site.

3.2 Literature Search

A search of existing paleontological and geological literature was conducted to provide a context for discussing the paleontological resources of the Grapevine project site. Sources consulted are listed in the References section of this report.

3.3 Field Surveys

Field surveys were conducted within selected regions of the Grapevine project site to determine the nature and distribution of paleontological resources within the project site. Regions were selected based on the availability of exposed sedimentary rocks, and with the goal of investigating a representative example of each geologic rock unit, and the different facies within each unit. Because much of the project site is covered in grasslands, the field survey focused on stream drainages and road cuts, where unweathered exposures of sedimentary rocks could be studied. Field crews consisted of two teams of two SDNHM paleontologists. Each team was equipped with a Garmin 60CSx Handheld GPS unit that utilized preprogrammed coordinate data as plotted on a series of topographic, geological, and aerial photographic base maps.

In the field, paleontological teams were assigned a previously selected transect in which they would observe and document the geology, stratigraphy, and paleontology. Although individual transects were chosen for optimal lithologic exposures and were generally oriented perpendicular to strike of strata, in some cases it was necessary to deviate from the predetermined transect for a more topographically favorable route in which to observe stratigraphic units. Field notes, field photographs, and fossil discovery sites were keyed to GPS waypoints to provide comprehensive documentation of existing geological and paleontological conditions. Notable waypoints from the field survey are summarized in Appendix 1.

3.4 Paleontological Resource Potential Map

Field data were combined with the results of institutional record searches, published and unpublished geological literature reviews, and published and unpublished geological mapping to

produce a map showing the distribution of geological rock units within the project site (Figure 3–1, Figure 3–2.) This map primarily depicts the geological interpretations of the project site summarized in the geotechnical report prepared by ENGEO (2013). The geological information summarized in Figure 3–1 was converted to a Paleontological Resource Potential Map (Figure 3–3, Figure 3–4) based on the assumption that the distribution of paleontological resources would be related to the distribution of specific geological rock units in which paleontological resources have the potential to occur. Field survey waypoints where significant geologic rock unit exposure and, in some cases, fossils were observed, are plotted on both the geologic and paleontological potential maps in colors corresponding to the rock unit observed at that location. All of the resource maps presented in this report were prepared using ArcGIS software.

3.5 Report Preparation

This report was written by Thomas A. Deméré, Ph.D and Shelly L. Donohue. Field crews included the following SDNHM paleontologists: Patrick J. Sena, Rodney M. Hubscher, Thomas A. Deméré, and Shelly L. Donohue.

4.0 IMPACT ANALYSIS

4.1 Standards of Significance

4.1.1 CEQA Guidelines

As summarized above, the CEQA guidelines include the consideration of whether a project would "directly or indirectly destroy a unique paleontological resource or site or unique geologic feature."

4.1.2 Society of Vertebrate Paleontology Potential Standards

The SVP has developed guidelines and standard procedures for the assessment of the significance of paleontological resources and for the mitigation of potentially significant impacts to such resources (SVP 2010). Most practicing paleontologists in Kern County use the SVP guidelines to analyze paleontological resource impacts under CEQA. The SVP methodology ranks rock units within a site as having either (a) high, (b) undetermined, (c) low, or (d) no paleontological potential for containing significant paleontological resources. The SVP guidelines are commonly adapted to analyze specific project sites. The following criteria were derived from the guidelines to facilitate the classification of project site paleontological resources in terms of each rock unit/formation as having high, low, undetermined or no paleontological potential.

High Paleontological Potential:
Geologic rock units with high paleontological potential have previously produced moderate to highly significant fossils, and there is a high paleontological potential that additional significant paleontological resources are contained within the rock units.

Low Paleontological Potential:
Geologic rock units with low paleontological potential are known to produce significant fossils only on rare occasions, produce only very common fossils (e.g., shell beds), or are of Holocene age (less than about 10,000 years old).

No Paleontological Potential:
Geologic rock units with no paleontological potential are those that formed at high temperatures and/or pressures, deep within the earth, such as plutonic igneous rocks, and high–grade metamorphic rocks, and consequently do not contain fossils. Artificial fill materials also have no paleontological potential because any contained organic remains have lost their original stratigraphic and/or geographic context and thus are not scientifically significant. Geologic rock units with no paleontological potential do not require paleontological mitigation.

Undetermined Paleontological Potential:

Geologic rock units with undetermined paleontological potential have little to no information available concerning their geologic context (e.g., depositional environment, age) and/or contained paleontological resources.

4.2 Impact Assessment

The following sections provide a general description of each geologic rock unit observed in the Grapevine project site and its assigned paleontological potential rating. A summary of this information can be found in Table 4–1. Additionally, a generalized stratigraphic section depicting the age and sequence of formation is presented in Figure 4–1.

Table 4–1
Summary of paleontological potential for geologic rock units in the Grapevine project site

Symbol	Rock Unit/Formation Name	Age	Paleontological Potential	Location in Project Site
Qa	Young alluvial deposits	Holocene	**Low**	Development Footprint, Open Space Area
Qoa1	Older alluvial deposits, unit 1	Pleistocene–Holocene	**Undetermined**	Development Footprint, Open Space Area
Qoa2	Older alluvial deposits, unit 2	Pleistocene	**Undetermined**	Development Footprint, Open Space Area
Qoa3	Older alluvial deposits, unit 3	Pleistocene	**Undetermined**	Open Space Area
Qls	Landslide deposits	Holocene	**Low**	Development Footprint, Open Space Area
Tbc	Bena Conglomerate	Miocene	**Undetermined**	Development Footprint, Open Space Area
Ttc	Tecuya Formation	Oligocene–Miocene	**High**	Open Space Area
Tvb	Miocene volcanic rocks	Miocene	**None**	Development Footprint, Open Space Area
Ttl, Ttm	Tejon Formation	Eocene	**High**	Open Space Area
qd	Granitic basement complex	Cretaceous	**None**	Open Space Area

4.2.1 Quaternary alluvial sediments (Qa)

Introduction

Much of the southern San Joaquin Valley is underlain by young alluvium and gravel deposits derived from weathering and erosion of older geologic rock units exposed in the surrounding San Emigdio and Tehachapi mountains. These younger deposits are variable in thickness and generally include alluvial sand and gravel in modern washes and alluvial fan distributary channels (Dibblee and Minch 2005a, 2005b). These surficial deposits are probably entirely Holocene in age (i.e., younger than about 11,000 years old) and typically are undissected by modern erosion and mostly undeformed by faulting and folding.

At the Grapevine project site, Quaternary alluvial sediments were observed in modern washes and on the more distal areas of the valley floor. Lithologically, these deposits generally consisted of loosely to poorly consolidated, sands, gravels, cobbles, and boulders (Figure 4–2). The sandstone matrix typically was composed of unoxidized, light gray yellow, very poorly sorted, poorly consolidated sandstone and gravel. The majority of clasts were subangular to subrounded, pebbles, cobbles, and small boulders. Clasts were predominantly granitic detritus, with rarer quartzites, and some rounded cobbles derived from the Tecuya Formation and Tejon Formation. Large granitic boulders were common near the base of the foothills, and became less abundant further north in the project site. Generally, larger clasts were deposited during episodic storm events, which generated high velocity floods draining the surrounding highlands. Laterally extensive cobble conglomerate horizons were likely deposited during sheet flows created by such storms. Smaller, more frequent rain events deposited the finer–grained sands and pebbles.

Paleontology

Paleontological resources are not known from the Quaternary alluvial sediments within the Grapevine project site and none were discovered during the field survey. In general, Quaternary alluvium and gravels are not considered to possess the potential to yield significant fossils because of the relatively young age (i.e., modern) of the sediments.

Site Specific Assessment

Quaternary alluvium and gravels are assigned a low paleontological potential due to the young age and lack of known fossils from these deposits.

4.2.2 Quaternary landslide deposits (Qls)

Introduction

Large landslide complexes underlie major portions of the north–facing foothill slopes of the Tehachapi and San Emigdio mountains in the Grapevine project site, and generally consist of small, shallow landslides, or large, deep–seated landslides (ENGEO 2013). Nilsen (1987, p. 14) described the deep–seated landslide deposits in the Grapevine area as follows, "the radial distributions of the scattered northeast– and northwest–striking outcrop blocks adjacent to the high peaks east and west of Grapevine Creek suggest that these blocks, which are as much as several square kilometers in area, may be rotated, tilted, and overturned coherent masses of bedrock that were transported downslope within less coherent landslide debris." Smaller landslides generally appear as poorly sorted, loosely consolidated, matrix supported, cobble to boulder conglomerates with chaotically oriented clasts (Figure 4–3). Landslides that are covered (i.e., lack outcrops) can be identified by their hummocky surface topography, and associated upslope headscarp (Figure 4–4).

Paleontology

Typically, landslide deposits are considered to have no paleontological potential because the contextual data of any entrained fossil remains is lost, making them insignificant. However, because some of the deep–seated landslides appear to consist of enormous slumped blocks with intact, recognizable stratigraphy, fossil remains discovered within the landslides may retain their gross stratigraphic context and are still significant. For example, exposures of the Tejon Formation observed in the area west of Grapevine Canyon, but mapped as large scale landslides could be confidently assigned to one or more of the four distinct subunits (i.e., members recognized by Nilsen 1987, Section 4.2.7) based on distinct lithologic and biostratigraphic features. Discovering fossils in large–scale slumped blocks of the Tejon Formation would allow for determination of the source member, and thus provide the necessary contextual data. Further, collecting fossils from such slumped blocks may allow for constrained mapping of large landslide deposits, giving insight into their internal structure, origin, and history of movement.

Site Specific Assessment

The landslide complexes at the Grapevine project site vary in their paleontological potential. The majority of the landslides have low paleontological potential, based on the lack of retained internal stratigraphic structure and the resulting loss of contextual data of any contained fossil remains. However, slumped blocks with intact stratigraphy could be assigned paleontological potential on a case–by–case basis, based on the potential of the original geologic rock unit involved (e.g., high paleontological potential for the Tejon Formation). On the Geologic Map (Figure 3–1, Figure 3–2) and Paleontological Potential Map (Figure 3–3, Figure 3–4), waypoints plotted within landslide deposits represent outcrops of such slumped blocks that typically originated within the Tecuya Formation or Tejon Formation. See Sections 4.2.6 and 4.2.7 for in depth discussions of the paleontological potential of the Tecuya Formation and Tejon Formation, respectively.

Notably, bedrock exposures of geologic rock units in the Grapevine project site only occurred along road cuts and stream drainages. It is likely that additional slump blocks exist within the landslide complexes on the project site, but could not be identified due to overgrowth and lack of outcrops.

4.2.3 Quaternary older alluvial sediments (Qoa_1, Qoa_2, Qoa_3)

Introduction

The southern San Joaquin Valley has been accumulating sediments derived from uplift and erosion of the local San Emigdio and Tehachapi mountains since at least the early Pleistocene, resulting in Quaternary older alluvial deposits several hundred feet thick near the northern portion of the project site, and thinning out to the south near the base of the foothills (Dibblee 1961). Dibblee and Minch (2005a, 2005b) differentiated these deposits into older alluvial gravel and sand of low terraces (Qoa) which are predominantly found on the valley floor in the Grapevine project site, and coarse alluvial gravel of older terraces (Qog) which are found at the

toeslope of the foothills. The geotechnical report prepared by ENGEO (2013) divided these deposits into three subunits, which will be followed in this report: Qoa_1 (equivalent to $Qhaf_3$, late Pleistocene to Holocene), Qoa_2 (equivalent to Qpf_1, Pleistocene), and Qoa_3 (equivalent to Qpf_2, Pleistocene). The depositional setting of these deposits is similar to that of the younger alluvium. However, the older alluvial deposits are being uplifted in association with tectonic stresses adjacent to the Pleito Thrust fault, and are being actively incised by modern drainages (e.g., Grapevine Creek). In the vicinity of waypoint 18, Qoa_2 and Qoa_3 deposits have been locally faulted and uplifted into an elevated bench.

Exposures of Qoa_1 deposits were best observed in the incised cut banks of Grapevine Creek, in the vicinity of waypoints 24 and 25 (Figure 4–5). Deposits were variable in character, but generally consisted of red–brown poorly sorted, fine– to coarse grained, compact sandstones with clast–supported pebble and cobble conglomerate horizons. Some exposures exhibited faint cross–bedding or crude horizontal laminations. Clasts varied from subangular to subrounded, with some well–sorted horizons. Clasts were predominantly granitic detritus, with rarer quartzites, and some rounded cobbles derived from the Tecuya Formation and Tejon Formation. The geotechnical report prepared by ENGEO indicates the age of the Qoa_1 deposits as Late Pleistocene to Holocene (ENGEO 2013). It is difficult to further constrain an age for the Qoa_1 deposits, and to determine the precise location of the contact between the Pleistocene and Holocene epochs within these deposits. However, field observations indicated that a soil horizon averaging 25 to 30 inches thick has developed at the exposed surfaces of these deposits (Figure 4–5B), suggesting an age older than historic for this upper horizon. Further, in deposits underlying the soil horizon, by only 2 feet, a calcium carbonate (caliche) crust was noted on many of the cobbles (Figure 4–5F), which suggests an older, early Holocene to late Pleistocene–age for deeper levels in the Quaternary older alluvial sediments.

Exposures of Qoa_2 and Qoa_3 were best observed in the incised canyon walls east of I–5 (waypoints 17 and 18). Exposures of Qoa_2 commonly contained debris flow deposits (Figure 4–6). These chaotic, poorly sorted deposits contained abundant large boulders, and recorded several individual large flow events. The Qoa_3 deposits consisted of clast–supported cobble to boulder conglomerate with an oxidized, reddish–brown, poorly sorted, fine– to coarse–grained sandstone matrix (Figure 4–6). Cobbles were typically subangular to subrounded and composed of granitic, metavolcanic, and gneissic rock types, with rare angular clasts of Cenozoic sedimentary rocks (Tejon Formation and Tecuya Formation) and rounded quartzite clasts reworked from the Tecuya Formation.

Paleontology

Paleontological resources are not known from the older alluvial sediments within the Grapevine project site and none were discovered during the field survey. However, fossils from rock units of similar age and depositional environment are known from elsewhere in the San Joaquin

Valley, and other parts of Kern County (e.g., Rosamond). Terrestrial vertebrate fossils, especially large–bodied mammals (e.g., mammoth, mastodon, horse, and ancient camel) are known from older alluvial deposits in the San Joaquin Valley near Bakersfield, Hanford, and Arvin (UCMP online collections database). Further, excavations for a landfill near Arvin, approximately 20 miles to the northeast produced a diverse assemblage of microvertebrates, including small mammals, lizards, and amphibians from Quaternary older alluvial sediments (Fay and Thiessen 1993).

The distribution of vertebrate fossils in older alluvial fan deposits is not uniform and typically varies with grain size. Thus, fossils are more likely to be preserved and discovered in sandstone horizons rather than in coarser–grained conglomeratic horizons.

Site Specific Assessment

Quaternary older alluvial sediments (Qoa_1, Qoa_2, Qoa_3) are assigned an undetermined paleontological potential based on the known occurrences of fossils in rock units/formations with a similar age and depositional history elsewhere in Kern County, yet lack of currently known fossil localities within the project site. The lack of previous scientific study of Qoa deposits within the Grapevine project site, coupled with the scarcity of exposures (i.e., natural outcrops confined to stream cuts, or previously excavated road cuts) precluded a more definite assignment.

The majority of the Development Footprint is underlain by deposits of Qoa_1. As noted above, the precise location of the Pleistocene–Holocene contact is difficult to locate within these deposits, but it is likely that surficial exposures (less than 3 to 5 feet below the ground surface) are Holocene in age. Because significant paleontological resources are unlikely to be recovered from Holocene–aged deposits, it is recommended that surficial excavations (0 to 5 feet below grade) would not adversely impact paleontological resources and do not require paleontological mitigation.

4.2.4 Bena Conglomerate (Tbc)

Introduction

The Bena Conglomerate is a poorly studied middle Miocene–aged geologic rock unit that was deposited in an alluvial fan system, adjacent to the paleo highlands that were located to the east and southeast of the project site (Nilsen et al. 1973). The Bena Conglomerate unconformably overlies the Tecuya Formation within the Grapevine project site, and broadly interfingers with marine sedimentary rocks of the Monterey Shale to the west. A long period (up to 10 Ma) of erosion and/or nondeposition followed the deposition of the Bena Conglomerate, such that these deposits typically contact the overlying Quaternary older alluvial fan deposits with an erosional unconformity.

The Bena Conglomerate is considered by Dibblee and Minch (2005a, 2005b) to be equivalent with the Bena Gravels of Dibblee and Chesterman (1953) in Caliente Canyon east of Bakersfield. Bartow and Dibblee (1981) describe the type section of the Bena Gravels as consisting of "poorly bedded and poorly sorted medium– to very coarse grained pebbly sandstone, sandy pebble–cobble conglomerate … sandstone and conglomerate is mostly friable but clayey and is light gray to grayish yellow in color." Bartow and McDougal (1984) expanded the definition of the Bena Gravels to also include a paralic facies. In the vicinity of the Grapevine project site, other workers have referred to the Bena Conglomerate as "unnamed conglomerate" (e.g., Nilsen 1987, Lagoe 1987). To be consistent with other technical reports for the Grapevine project, this report uses the name Bena Conglomerate (Dibblee and Minch, 2005a, 2005b).

The exposures of the Bena Conglomerate in the Grapevine project site differ from those of the type section in that they are predominantly composed of a cobble conglomerate, with occasional sandstone horizons (Figure 4–7). Typical exposures of the Bena Conglomerate in the Grapevine project site are light gray, poorly sorted, weakly to moderately indurated, clast–supported, sub–angular to sub–rounded pebble, cobble, and boulder conglomerate with a poorly sorted, silty to coarse–grained sandstone matrix (Dibblee and Minch 2005a, 2005b; Figure 4–7). Clasts are typically imbricated granitic detritus, but also include volcanics and marble (Figure 4–7C). Except for the granitic detritus, these clast types are not seen in the underlying Tecuya Formation. Strata in the Bena Conglomerate generally are crudely bedded and include some heavily indurated horizons that stand out as resistant beds (Figure 4–7A). The northernmost exposures of the Bena Conglomerate in the Grapevine project site contain horizons that are finer grained, and dominated by sandstones, as exhibited in a road cut along Edmonton Pumping plant road, just north of the project site (Figure 4–7B, waypoint 1).

Paleontology

Paleontological resources are not known from deposits of the Bena Conglomerate within the Grapevine project site and none were discovered during the field survey. However several localities producing mammalian fossil remains are known from the Bena Gravels as exposed in the Tejon Hills, approximately 15 miles to the northeast (LACM CIT 303, 304, 307; Savage 1955). Representative mammals from these sites include the ancient horses *Hipparion tehonense*, *Pliohippus tejonensis*, and *Megahippus* sp., the bone–crushing dog *Borophagus littoralis*, the oredont *Ustatochoerus* sp., the antilocaprid *Paracosoryx* cf. *P. furlong*, and a deer–like mammal *Cranioceras* sp. These mammals are known from the lower Clarendonian NALMA, and subdivided further into the Cerrotejonian Mammalian Stage, indicating they are 11 to 12.4 million years old (Savage 1955, Woodburne 2006).

Site Specific Assessment

The Bena Conglomerate in the project site is assigned an undetermined paleontological potential based on the known occurrences of fossils in rock units/formations with a similar age and depositional history elsewhere in Kern County (Bena Gravels), yet lack of currently known fossil

collecting localities within the project site. The lack of previous scientific study on deposits of the Bena Conglomerate within the Grapevine project site, coupled with the scarcity of exposures (i.e., natural outcrops confined to stream cuts, or previously excavated road cuts) precluded a more definite assignment.

Notably, exposures of the Bena Conglomerate are located almost entirely within areas designated as Open Space (Figure 3–1, Figure 3–3), and thus adverse impacts to any contained paleontological resources in these areas are avoided. Small areas within the Development Footprint are underlain by the Bena Conglomerate (Figure 3–1, Figure 3–3). Implementation of a paleontological mitigation program for any excavations into the Bena Conglomerate would serve to permanently preserve paleontological resources.

4.2.5 Miocene Volcanic Rocks (Tvb)

Introduction

A short–lived period of explosive volcanism during the early Miocene produced two volcanic units that are locally mapped within the Tecuya Formation. These volcanic units consist of a lower dacite and dacitic breccia, and an upper basalt (Figure 4–8). The lower dacite and dacitic breccia were deposited as a magma intruded the ancient Tecuya alluvial fan system, resulting in phreatomagmatic eruptions, pyroclastic flows, and fallout deposits (Cole and DeCelles 1991). The basal dacite has been dated to 22.0 ± 0.7 Ma (Turner 1970), which makes it an important marker bed for determining the relative age of the surrounding rock units/formations, and their contained fossil remains. The dacite is described as a "pinkish–brown weathering, blue–gray dacite with small phenocrysts of plagioclase in an aphanitic groundmass" (Nilsen et al. 1973), and the breccia is comprised of these angular, dacitic clasts (Figure 4–8). The upper basalt is a black, scoriaceous, fine–grained aphanitic basalt with horizons of dark red–brown andesite (Figure 4–8; Nilsen et al. 1973), that stands out as a resistant, near vertically dipping volcanic unit (Figure 4–9). This unit was deposited as a basaltic to andesitic lava flow that emanated from several volcanic vents located east of the project site (Cole and DeCelles 1991). These viscous lava flows traveled down the paleoslope into nearshore marine waters around the distal margins of the Tecuya alluvial fan system. Following the volcanic episode, deposition of both marine and non–marine sedimentary rocks continued to occur in the region, with the accumulation of coarser grained alluvial fan strata to the south and east (Tecuya Formation) and finer grained marine sandstones and siltstones to the north and west (Temblor Formation). Fluctuations in sea level during the early and into the middle Miocene resulted in a somewhat complex interfingering of Tecuya Formation fanglomerates and Temblor Formation marine sandstones.

Paleontology

No fossils are known, or were observed during the field survey, from the Miocene volcanic rocks in the vicinity of the Grapevine project site.

Site Specific Assessment

The Miocene volcanic rocks have no paleontological potential. Fossils preserved in volcanic rocks are extremely rare because typically the high temperatures associated with their deposition destroy any remnants of life.

4.2.6 Tecuya Formation (Ttc)

Introduction:

The Tecuya Formation is a predominantly coarse–grained rock unit that was deposited in a large alluvial–fan to delta–fan system during a major marine regression in late Oligocene to early Miocene time (approximately 20 to 30 Ma). The Grapevine project site occurs within the eastern portion of the area of outcrop of the Tecuya Formation, where the depositional environment is interpreted to have been the nonmarine portion of a broad alluvial fan system. The stratigraphy here is dominated by alternating debris–flow and braided–stream deposits. Sedimentary structures (e.g., clast imbrication, ripple marks) indicate the paleo–current direction was to the west and northwest (DeCelles 1986, 1988). The Tecuya Formation thins to the west, and clast size generally decreases in that direction, reflecting a general transition in depositional environments from an alluvial fan to a delta fan. In the westernmost portion of its area of outcrop, the Tecuya Formation interfingers with the shallow marine sandstones of the Pleito, San Emigdio, and Temblor formations, indicating a shallow marine depositional environment to the west. Rare oyster fossils are known from these western exposures of the Tecuya Formation, further corroborating the hypothesized shallow marine depositional environment. As described in section 4.2.5, a distinct sequence of dacitic and basaltic volcanic rock units is interbedded with alluvial fan and nearshore marine sedimentary rocks in the upper part of the Tecuya Formation.

The base of the Tecuya Formation is a matrix– to clast–supported, pebble to boulder conglomerate unit with occasional horizons of coarse–grained sandstone and mudstone. Upsection, coarse–grained conglomeratic sandstone and mudstone become more abundant, and numerous fining upwards sequences up to 30 feet thick have been recognized (DeCelles 1988, Nilsen et al. 1973). These lithologies were confirmed during the field survey. In the Grapevine project site, typical exposures of the Tecuya Formation are pinkish gray to pale orange sandstones, gritstones, and pebble to cobble conglomerates with rounded to subrounded clasts composed of granitic, metavolcanic, and quartzite rock types (Figure 4–10C). The gritstone and sandstone matrix is massive to laminated, weakly to moderately indurated, poorly sorted, fine– to coarse–grained sandstone. Occasional lenses of greenish gray to red mottled, massive claystone to siltstone occur within the formation (Figure 4–10D).

During the field survey, a distinct sequence of sedimentary rocks resembling the Tecuya Formation was encountered between Grapevine and Liveoak canyons (waypoints 10–15), in an area mapped as the Bena Conglomerate (Figure 3–5, 4–10) by other workers. This sequence, however, was clearly not part of the Bena Conglomerate and instead was determined to be

marine in origin based on the discovery of numerous marine vertebrate fossils (see Paleontology section, below). The lithology of the fossil discovery site was a very pale orange to pale yellow orange, very poorly sorted, moderately indurated, fine–grained sandstone with abundant coarse sandstone and pebble clasts (Figure 4–11B). This site was discovered just upsection from the Miocene volcanic rock unit described above, and was overlain by approximately 100 feet of coarse–grained strata including a distinctive, resistant conglomerate bed containing well–rounded pebbles and cobbles typical of outcrops of the Tecuya Formation (Figure 4–12). Fossil bone fragments from unidentifiable terrestrial mammals were discovered in these conglomerate strata (Figure 4–12C), confirming the terrestrial depositional environment.

Previous workers (e.g., Nilsen et al. 1973, DeCelles 1986, Cole and DeCelles 1991, Dibblee and Minch 2005a, 2005b) have not recognized marine deposits as far east as the fossil discovery site; however, these workers did document a brief transgression of the nearshore marine Temblor Formation to the west, which extended east to a point between Tecuya and Grapevine canyons (Figure 2–2). This transgression occurs at approximately the same time interval (i.e., following accumulation of the volcanic unit) as the fossil discovery site, and it is likely that this ancient inland sea extended further inland (east) than previously recognized. As thus interpreted, these marine sandstones near Liveoak Canyon may represent a thin horizon and previously unrecognized eastern extension of the Temblor Formation in the Grapevine project site.

Paleontology

Paleontological resources are known from deposits of the Tecuya Formation within the Grapevine project site and several were discovered during the field survey. The Tecuya Formation has produced important remains of terrestrial mammals from several recorded UCMP fossil localities in Tecuya Canyon, approximately one mile west of the project site. These important fossil remains include mammals known from the Arikareean NALMA, which spans from 30.6 to 20.8 Ma, and includes portions of late Oligocene to early Miocene time. Fossils from Tecuya Canyon represent the only known Arikareean Mammals from the San Joaquin Valley (Tedford et al. 2004) and were recovered from two distinct stratigraphic levels in the Tecuya Formation—a lower horizon and an upper horizon.

The lower horizon (UCMP Localities 3352 and 3354) was discovered within a red mudstone stratum approximately 250 feet stratigraphically below the Miocene volcanic unit (dated at 22.0 ± 0.7 Ma, Turner 1970) and includes the small mammals *Archaeolagus* sp. (rabbit), *Protosciurus tecuyensis* (squirrel), *Leidymys nematodon* (mouse), *Hypertragulus paniceps* (large mouse deer), *Nanotragulus loomisi* (small brachydont mouse deer), and the large mammals *Miohippus annectens* (horse), *Eporeodon majo*r (oreodont), *Diceratherium armatum* (rhinoceros), and *Daphoenus* sp. (bear–dog). This fauna is considered to be Early Arikareean (late Oligocene) in age (Tedford 1961, Tedford et al. 2004, Lander 2004).

The upper horizon (UCMP Locality V–6378) was discovered within a mudstone stratum approximately 30 feet below the Miocene volcanic unit. Collected fossils include *Oreolagus* sp. (pika) and *L. nematodon* (mouse). This fauna is also considered to be Early Arikareean in age (Tedford 1961, Tedford et al. 2004), but Lander (2004) further constrained the age range to late Early to Late Arikareean.

Fragmentary remains of terrestrial mammals, and a terrestrial pulmonate snail were found at two locations within the Grapevine project site during the field survey. Near waypoint 5, west of Grapevine Canyon, a mammalian bone fragment was discovered in a very fine–grained silty sandstone horizon near the top of a generally fining upward sequence of alluvial fan cobble conglomerates cross–bedded channel sandstones. A red–green mottled mudstone lens within this sequence produced a well–preserved, recrystallized shell of a terrestrial pulmonate snail. East of Grapevine Canyon, at waypoint 14, several bone fragments of terrestrial mammals were discovered.

As discussed above, during the field survey, weathered remains of marine vertebrate fossils were discovered within strata previously mapped as the Tecuya Formation by Dibblee and Minch (2005b; ENGEO, 2013). The discovery of these fossils, including shark teeth (*Isurus planus*, *I. hastalis*, *Carcharocles megalodon*, and *Caracharhinus* sp., Figure 4–13), ray tooth plates (Myliobatoidea), fragmentary tooth remains of a desmostylian (cf. *Desmostylus* sp.), an aquatic, hippo–like mammal (Figure 4–14), and fragmentary bones of marine mammals (provisionally identified as mysticete cetaceans), suggests that the enclosing deposits may actually represent strata younger than the Tecuya Formation. Based on known stratigraphic ranges of several of the shark species, these marine deposits are likely middle Miocene in age. This suggests correlation with the well–known Sharktooth Hill bonebed, a richly fossil–bearing middle Miocene rock unit found in exposures of the Temblor Formation near Oildale, east of Bakersfield, California (Pyenson et al. 2009). As discussed above, it is likely that the Temblor Formation extended further east (inland) than previously thought.

Site Specific Assessment

The Tecuya Formation in the Grapevine project site is assigned a high paleontological potential based on the known fossil collecting localities in nearby Tecuya Canyon and the discovery of fossil collecting localities during the field survey.

Additionally, during the field survey, intact slumped blocks of the Tecuya Formation were discovered within landslide complexes in the project site (see section 4.2.2). Because these blocks contain intact stratigraphy, and thus adequate contextual data, their contained fossil remains are considered to have high paleontological potential. These outcrops have been marked with colored waypoints on the geologic maps (Figure 3–1, Figure 3–2) and paleontological potential maps (Figure 3–3, Figure 3–4).

Because deposits of the Tecuya Formation crop out entirely within the open space area (Figure 3–1, Figure 3–3), adverse impacts to contained paleontological resources are avoided.

4.2.7 Eocene Tejon Formation (Tt)

Introduction

The Tejon Formation was deposited during a major marine transgressive–regressive cycle in the middle Eocene (e.g., Nilsen 1987, Critelli and Nilsen 2000) and has been subdivided into four distinct facies, or members. These include, in ascending order: the basal Uvas Conglomerate, a nearshore high energy breccia, sandstone and conglomerate facies; the Liveoak Shale (Ttl), an offshore sandstone and shale facies; the Metralla Sandstone (Ttm), a shallow marine sandstone facies with interbedded conglomerate and shale; and the Reed Canyon Siltstone, a shallow marine to brackish water sandy siltstone facies with lenses of coal and carbon debris (Nilsen et al. 1973; Nilsen 1987, Critelli and Nilsen 2000). The superposition of these four members/facies is illustrated in Figure 4–15. The Uvas Conglomerate and Reed Canyon Siltstone do not crop out in the Grapevine project site, so they will not be further discussed in this report. More complete descriptions of the Liveoak Shale and Metralla Sandstone are provided below.

The Liveoak Shale Member generally consists of massive to laminated siltstones with interbedded sandstones. This member is the thickest member (up to 2,100 feet) of the Tejon Formation. The majority of the Liveoak Shale was deposited in an offshore setting, towards the end of the marine transgression of the early middle Eocene (Nilsen 1987). However, in its eastern exposures, within the vicinity of the Grapevine project, the Liveoak Shale grades laterally into a nearshore marine deposit, and is coarser grained than its type section (Nilsen et al. 1978, Nilsen 1987). The Liveoak Shale is heavily bioturbated, with impressions of burrows (Figure 4–16A, 4–16B) being common fossils (Nilsen 1987). In the vicinity of the Grapevine project, the Liveoak Shale is quite variable and ranges from a pinkish orange to pale grayish olive green laminated siltstone to massive medium– to coarse–grained sandstone. Molluscan fossils are abundant in deposits of the Liveoak Shale, and range from densely to sparsely packed, concordant to discordant to bedding, and are preserved with white shell, or as internal and/or external molds (Figure 4–16D). Certain horizons of the Liveoak Shale preserve densely packed calcareous tubules of annelid worms (Figure 4–16C).

The Metralla Sandstone Member consists of a sequence of sandstones and siltstones with occasional horizons of conglomerate. It coarsens upwards from the underlying Liveoak Shale Member, and was deposited during a marine regression. Nilsen (1987) noted that megafossils (marine mollusks) and conglomerates were abundant in the Metralla Sandstone east of Grapevine creek. In its more western exposures, the Metralla Sandstone is a finer–grained sandstone and siltstone with abundant foraminiferan fossils. In the vicinity of the Grapevine project site, the Metralla Sandstone is typically a tannish yellow to pinkish orange siltstone to fine–grained sandstone with finer horizons of silty claystone, and coarser horizons of medium– to coarse–

grained sandstones with pebbles to cobbles (Figure 4–17). This member is generally poorly sorted, bioturbated, massive, with rarer laminated horizons. Molluscan fossils are abundant in the Metralla Sandstone, and preserved similarly to those of the Liveoak Shale. Rounded concretions are also common in the Metrella Sandstone, making them abundant at the base of drainages downslope from outcrops of this member.

Paleontology

Paleontological resources are known from deposits of the Tejon Formation within the Grapevine project site and several were discovered during the field survey. The Tejon Formation has produced a wealth of well–studied fossil remains from a number of areas along the southern and western margins of the San Joaquin Valley (e.g., Dickerson 1915, Nilsen et al. 1973, Nilsen 1987, Lagoe 1988, Lindberg and Squires 1990). Numerous USGS fossil collecting localities in both the Liveoak Shale and Metralla Sandstone members of the Tejon Formation have been documented within a one–mile radius of the Grapevine project site. The most common fossils recovered from these rock units include preserved shells and internal and external molds of subtidal marine mollusks (clams, snails, and tusk shells), as well as well–preserved tests (specialized shells) of marine benthonic foraminiferans.

Published molluscan faunal lists from localities discovered in the Liveoak Shale indicate that deposition of this member occurred during the "Transition" megainvertebrate age (early to middle Eocene) based on the bracketed occurrence of the gastropod *Ficopsis horni* (known from the "Transition" and "Tejon" ages) and *Ficopsis remondi* (known from the "Capay" to "Transition" ages). The foraminiferans known from the Liveoak Shale indicate a Penutian to Narizian foraminiferal stage, which confirms an early to middle Eocene age. The USGS localities from the Metralla Sandstone strongly indicate a "Tejon" megainvertebrate age (middle Eocene), based on the presence of numerous mollusks known only from this age (e.g., *Turitella uvasana sargeanti, Tellina lebecki*), and the foraminiferans also indicate a middle Eocene Narizian stage.

During the field survey fossil localities were discovered in both the Liveoak Shale (Figure 4–16, Figure 4–18) and the Metralla Sandstone (Figure 4–17, Figure 4–19) members of the Tejon Formation. The observed fossils assemblages were taxonomically diverse and preserved an interesting range of taphonomic features. Molluscan assemblages were dominated by species of infaunal bivalve mollusks, primarily different types of venerid clams, but also species of cockles (i.e., *Acanthocardia breweri*) and thin–shelled clams (*Gari* sp.). Gastropods in these assemblages were dominated by mobile epifaunal suspension feeders (*Turritella uvasana*) and mobile epifaunal carnivores (Naticidae). Molluscan fossils occurred in both densely packed shell beds and in less concentrated, dispersed aggregations. Mode of preservation ranged from replaced white calcite shell material to internal and external molds.

Site Specific Assessment

The Tejon Formation (Liveoak Shale Member, Metralla Sandstone Member) is assigned a high paleontological potential based on the demonstrated fossil potential from previous collection efforts, and abundance of fossil localities discovered during the field survey.

Additionally, similar to the Tecuya Formation, slumped blocks of the Tejon Formation were discovered within landslide complexes at the project site (see section 4.2.2). These exposures contain enough contextual data to warrant collection of fossils, and thus any contained fossil remains are considered to have high paleontological potential. These outcrops have been marked with colored waypoints on all geologic maps (Figure 3–1, Figure 3–2) and paleontological potential maps (Figure 3–3, Figure 3–4).

Because deposits of the Tejon Formation crop out entirely within the open space area (Figure 3–1, Figure 3–3), adverse impacts to contained paleontological resources are avoided.

4.2.8 Cretaceous Granitic Basement Complex (qd)

Introduction

The highlands of the San Emigdo Mountains and Tehachapi Mountains are primarily composed of felsic plutonic and gneissic metamorphic rocks. The plutonic rocks are thought to have formed in the Late Cretaceous (77 – 86 Ma; Nilsen 1987 and references therein) and are likely cogenetic with the Sierra Nevada batholith to the north, (Nilsen et al. 1973, Nilsen 1987). The basement complex "consists predominantly of massive to foliated granodiorite and quartz diorite, but also includes quartz monzonite, diorite, horneblend diorite, gneiss, various types of banded schist, quartzite, and marble," (Nilsen 1987 p. 9). These rock types were confirmed through examination of individual clasts in the Quaternary older and younger alluvium on the project site, which was derived from the granitic rocks (Figure 4–19). Though not mapped at the surface within the project site, granitic rocks may shallowly underlie deposits of the Tejon Formation in some areas of the project site.

Paleontology

No fossils are known from granitic rocks at the Grapevine project site. The plutonic rocks formed miles below the Earth's surface through the slow cooling of a large body of molten rock. The metamorphic rocks formed within the earth under extreme pressure. These conditions are not conducive to life, and thus no fossils are contained in the granitic basement rocks.

Site Specific Assessment

The Cretaceous Granitic rocks have no paleontological potential because granitic rocks do not contain fossils.

4.3 Project Design Features

4.3.1 Construction Impacts

No construction impacts to paleontological resources would occur in the project open space areas mapped as high paleontological potential on Figure 3–3 except for minor excavations for trails and similar amenities. Construction–related earthwork activities within the development areas have the potential to impact paleontological resources at the Grapevine project site. Implementation of a paleontological mitigation program would reduce potentially significant construction and minor high paleontological potential mapped open space area impacts to less than significant levels (see Section 4.4).

Overall, the preservation of numerous significant fossil localities in the Grapevine project site is a positive contribution to the field of paleontology, because it ensures that these resources would remain available to qualified earth scientists for generations to come. It is recommended that the project's open space areas be accessible to paleontological research subject to receipt of landowner access permits, coupled with appropriate resource handling and health and safety requirements.

4.3.2 Operational Impacts

Because earthwork activities would primarily occur in the construction phase of the Grapevine project, long–term operation would not significantly impact paleontological resources.

4.4 Mitigation Measures

In order to avoid potential impacts to paleontological resources, the following mitigation measures are recommended for construction of the Grapevine project:

1. Prior to the issuance of mass grading permits (involving cut of natural ground surface greater than 3 to 5 feet), or trenching or augering (in previously undisturbed sedimentary rocks deeper than 3 to 5 feet) in areas not previously mass graded, the project proponent shall contract with a Project Paleontologist approved by Kern County to prepare and implement a Paleontological Resources Management Plan. This document should detail how all paleontological resources within the project site would be avoided and protected during construction, and/or how construction impacts would be mitigated. All of the below listed mitigation measures should be addressed in detail. (A Project Paleontologist is defined as an individual with an MS or PhD in paleontology or geology who is familiar with paleontological procedures and techniques, is knowledgeable in the geology and paleontology of Kern County.)

2. A Project Paleontologist or Qualified Paleontological Monitor shall attend the pre–construction meetings to consult with the excavation contractors concerning excavation schedules, paleontological field techniques, and safety issues. (A Qualified Paleontological Monitor is defined as an individual who has experience in the collection and salvage of fossil materials. The Paleontological Monitor should work under the direction of a Project Paleontologist.)

3. A Qualified Paleontological Monitor shall be present during any earthwork activities that have the potential to impact deposits with a high or undetermined paleontological potential rating, either at the surface or at depth (greater than 3 to 5 feet below natural ground surface), to inspect exposures for contained fossil remains. For high paleontological potential deposits, the Project Paleontologist shall have the authority to reduce monitoring once he/she determines that more than 50% of the earthmoving in high paleontological potential deposits has taken place and no fossils have been encountered. For undetermined paleontological potential deposits, the Project Paleontologist would communicate closely with the Qualified Paleontological Monitor, in order to continually assess the paleontological potential of the deposits, and determine whether monitoring should be reduced or omitted at any time.

4. In the event potentially significant fossils are discovered, the Qualified Paleontological Monitor has the authority to temporarily stop construction or grading work at the discovery location. When work is stopped, the Project Paleontologist, Master Developer, and appropriate Kern County representative(s) would be contacted immediately. The significance of the discovered paleontological resources, and an appropriate course of action, would then be determined by the Project Paleontologist in consultation with appropriate Kern County representative(s). Appropriate courses of action may include fossil salvage, or if possible, the avoidance of the fossil remains (e.g., rerouting of a trail) in consultation with the Master Developer.

5. In most cases, a fossil salvage can be completed in a short period of time. However, some fossil specimens (such as a complete large mammal skeleton) may require an extended salvage period. In these instances the paleontologist (or paleontological monitor) should be allowed to temporarily direct, divert, or halt grading to allow recovery of fossil remains in a timely manner. If there is a potential for the recovery of small fossil remains, such as isolated mammal teeth, it may be necessary to set up a screen–washing operation on the site. The Project Paleontologist in consultation with appropriate Kern County representative(s) has the authority to determine the number of fossils, or volume of fossiliferous sediment, required to achieve a representative scientific sample from a fossil discovery site. The Master Developer shall be consulted prior to a final determination.

6. Reasonable samples of scientifically significant fossil remains collected during monitoring and salvage should be cleaned, repaired, sorted, identified, and cataloged as part of the mitigation program, in accordance with the standards of a designated scientific institution with permanent paleontological collections (repository). Financial support for fossil preparation and curation should follow a reasonable hourly estimate with competitive hourly billing rates, and include any necessary supplies billed at cost.

7. Prepared fossils, along with copies of all associated critical data (e.g., pertinent field notes, photos, and maps), should be deposited as a donation in the designated scientific repository. Should the Master Developer wish to develop an educational exhibit to display any discovered fossil resources, specimens may be loaned from the scientific institution.

8. A final summary report should be submitted to the County in accordance with all applicable regulations. The report should contain the results of the mitigation program, including a discussion of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.

4.5 Level of Significance After Mitigation

Following mitigation, construction of the Grapevine project would not have significant impacts to paleontological resources. As outlined above, the implementation of a paleontological mitigation program during any phases of construction that impacts a high paleontological potential geologic rock unit/formation would reduce adverse impacts to paleontological resources to less than significant levels.

Further, the designation of the majority of the southern foothills in the project site as both dedicated open space and retained open space would significantly preserve known, high paleontological potential fossil resources in the project site. This is a welcome and positive outcome for paleontological resources within the Grapevine project site.

4.6 Management of Paleontological Resources in Open Space Areas

Management of paleontological resources in designated and retained open space areas would aid in the preservation of scientifically significant fossils. The most common ways that fossils are lost or destroyed are through fossil collecting and/or vandalism by the general public, destruction of fossils by construction activities, and destruction of fossils through the natural processes of erosion and weathering. The loss of fossils at the Grapevine project site can be mitigated through: 1.) discouraging the general public from collecting fossils and/or vandalizing fossil localities (e.g., through educational exhibits, signs), and 2.) periodic inventories and monitoring of existing fossil localities. The natural processes of erosion and weathering and their impacts on

fossils are highly variable and not easily quantified. However, sharp, freshly exposed surfaces (e.g., roadcuts) are generally subjected to higher rates of erosion than vegetated, natural hillslopes. Thus, for known fossil localities that have been artificially exposed for pioneering of roads, trails, or pipelines (e.g., waypoints. 2, 3, 34 and any localities discovered in the future) biannual inventories under the supervision of a Project Paleontologist are suggested. For known fossil localities that have not been artificially exposed (e.g., waypoint 14), the weathering process is much slower, and inventories every 20 to 25 years are suggested. Inventories should assess the condition of fossil localities, and the collection of any significant specimens at risk of being destroyed by erosion and weathering. Fossils collected during reassessments should be processed following the protocol outlined in Section 4.4.

5.0 REFERENCES

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APPENDIX 1: SUMMARY OF FIELD SURVEY WAYPOINTS

Waypoint	Formation	Description
1	Bena Conglomerate	Edmonton Pumping Plant Road cut
2	Tejon Formation, Liveoak Shale	Fossil locality, marine invertebrates
3	Tejon Formation, Metralla Sandstone	Fossil locality, marine invertebrates
4	Miocene volcanic unit	Prominent exposure of volcanics
5	Tecuya Formation	Roadcut exposure, near vertical beds
6	Tecuya Formation	Roadcut exposure, near vertical beds
7	Miocene volcanic unit	Contact between volcanics and Bena Conglomerate
8	Miocene volcanic unit	Prominent exposure of volcanics
9	Bena Conglomerate	Exposure in drainage
10	Tecuya Formation	Resistant bed 1
11	Tecuya Formation	Fossil locality, marine vertebrates
12	Tecuya Formation	Resistant bed 2
13	Tecuya Formation	Resistant outcrop: "the wall"
14	Tecuya Formation	Fossil locality, mammalian bone fragment
15	Tecuya Formation	Northern extent of Tecuya Formation deposits in canyon
16	Bena Conglomerate	Southernmost outcrop of Bena Conglomerate in canyon
17	Quaternary older alluvial sediments, unit 2	Debris flow deposits with granitic boulders
18	Quaternary older alluvial sediments, unit 3	Angular fanglomerate
19	Tecuya Formation	Outcrop with preserved stratigraphy
20	Tejon Formation, Liveoak Shale	Outcrop with preserved stratigraphy
21	Tejon Formation, Liveoak Shale	Fossil locality, marine invertebrates
22	Quaternary landslide deposits	Landslide with chaotic Tejon Formation debris
23	Tecuya Formation	Large outcrop adjacent to gas pipeline, mudstone pocket
24	Quaternary older alluvial sediments, unit 1	Exposure in cut bank of grapevine creek
25	Quaternary older alluvial sediments, unit 1	Exposure in cut bank of grapevine creek
26	Bena Conglomerate	Outcrop with large marble boulder
27	Tecuya Formation	Fossil locality, weathered mammalian bone fragment
28	Tecuya Formation	Outcrop with preserved stratigraphy
29	Bena Conglomerate	Good exposure, continues up cliff
30	Quaternary landslide deposits	Good example of small slump in the Tejon and Tecuya Formations
31	Tecuya Formation	Outcrop with preserved stratigraphy
32	Tejon Formation, Metralla Sandstone	Contact between Metralla Sandstone and Liveoak Shale
33	Tejon Formation, Metralla Sandstone	Outcrop with preserved stratigraphy
34	Tejon Formation, Metralla Sandstone	Fossil locality, bivalves within concretions
35	Tecuya Formation	Outcrop with preserved stratigraphy
36	Tecuya Formation	Outcrop with preserved stratigraphy
37	Tecuya Formation	Outcrop with preserved stratigraphy, potentially marine
38	Tejon Formation, Metralla Sandstone	Fossil locality, invertebrates
39	Tejon Formation, Metralla Sandstone	Fossil locality, fish vertebra, invertebrates
40	Tejon Formation, Metralla Sandstone	Fossil locality, trace fossil burrows

APPENDIX 2: FIGURES

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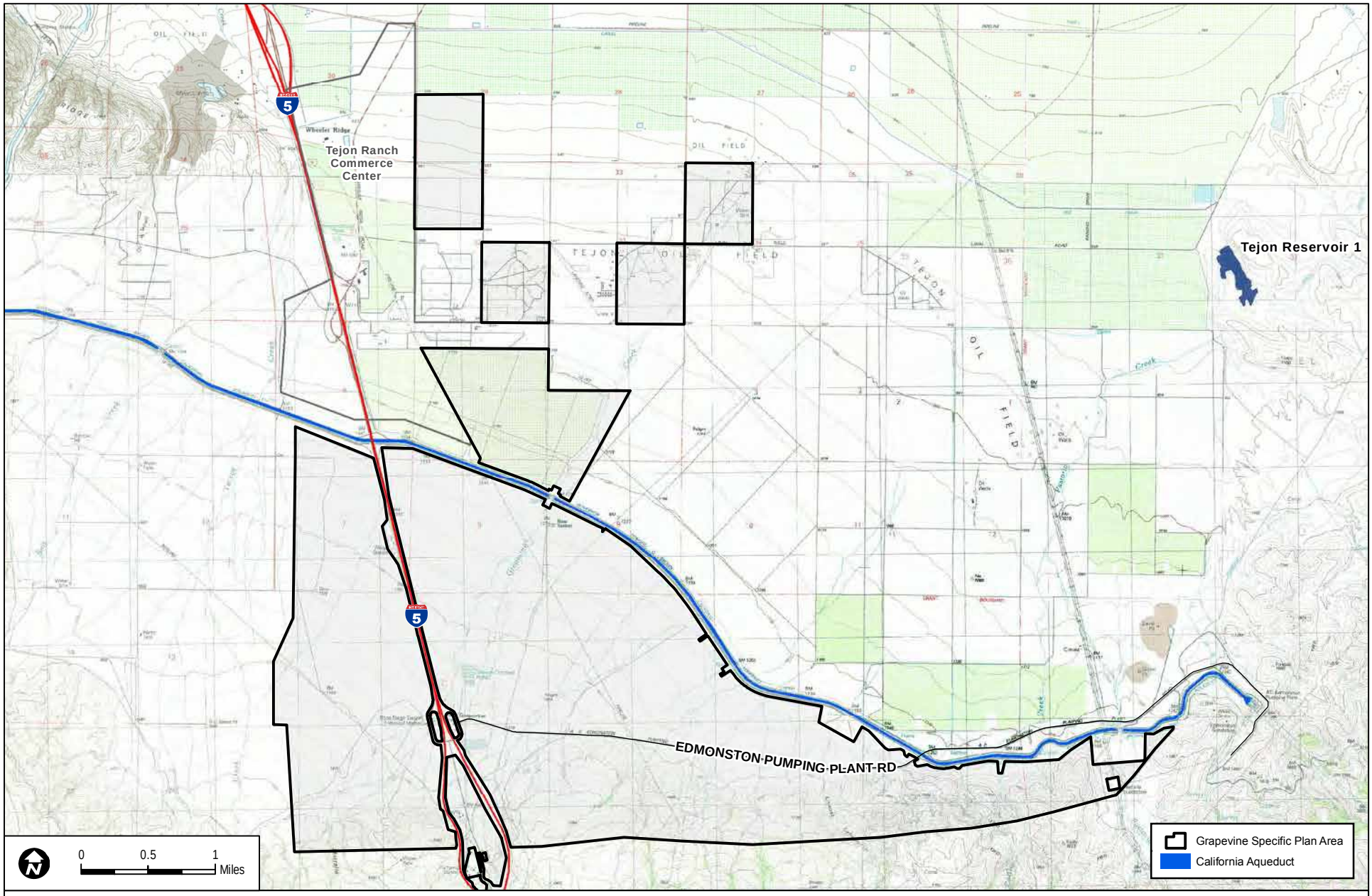
SOURCES: McIntosh & Associates 2013; TRC 2013a

FIGURE 1-1

Regional Location

GRAPEVINE PROJECT

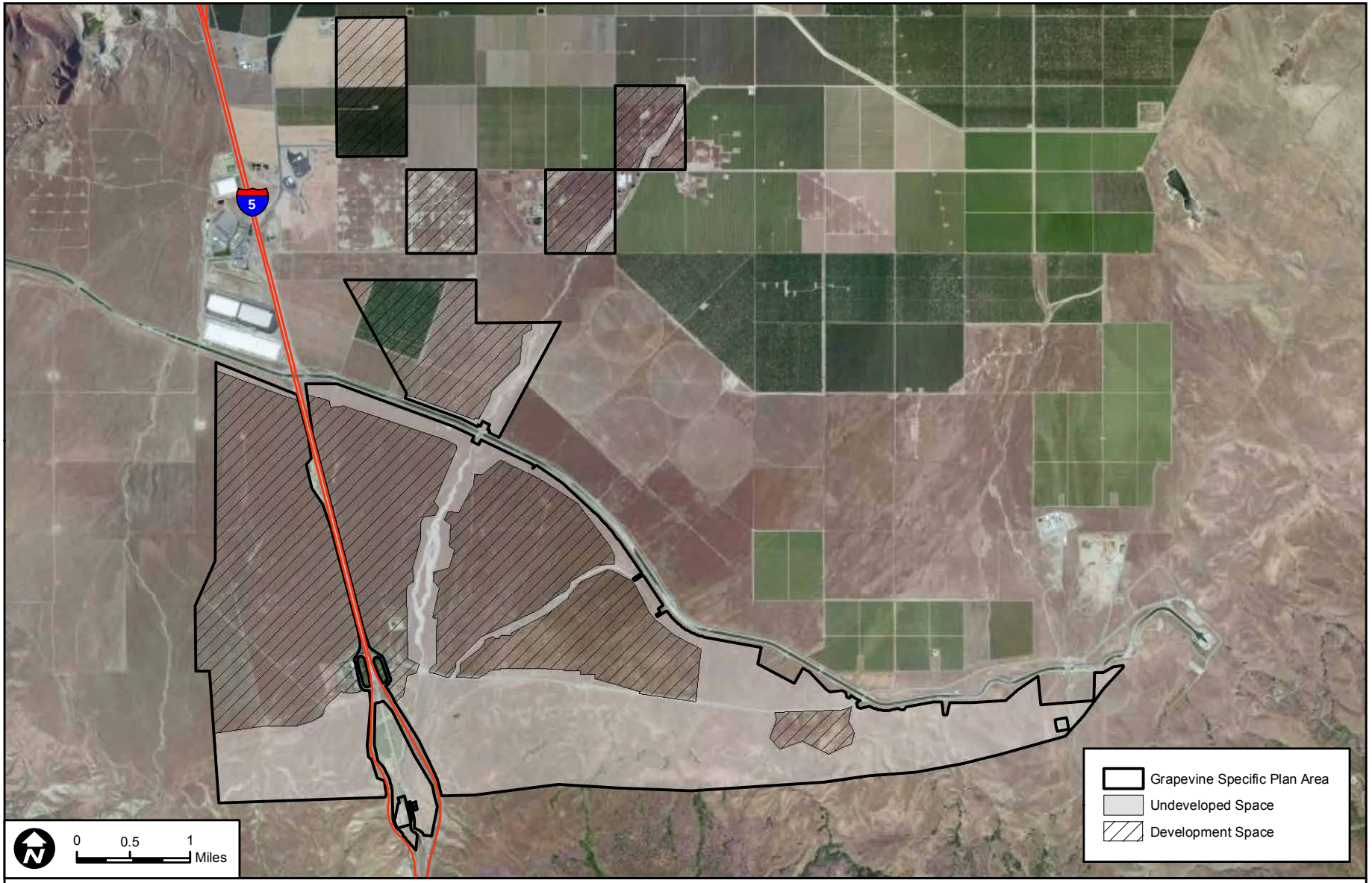


SOURCES: McIntosh & Associates 2013; TRC 2013b

FIGURE 1-2

Vicinity Map

GRAPEVINE PROJECT



SOURCES: McIntosh & Associates 2013; TRC 2013a; Bing Maps Aerial

FIGURE 1-3

Project Design Features

GRAPEVINE PROJECT

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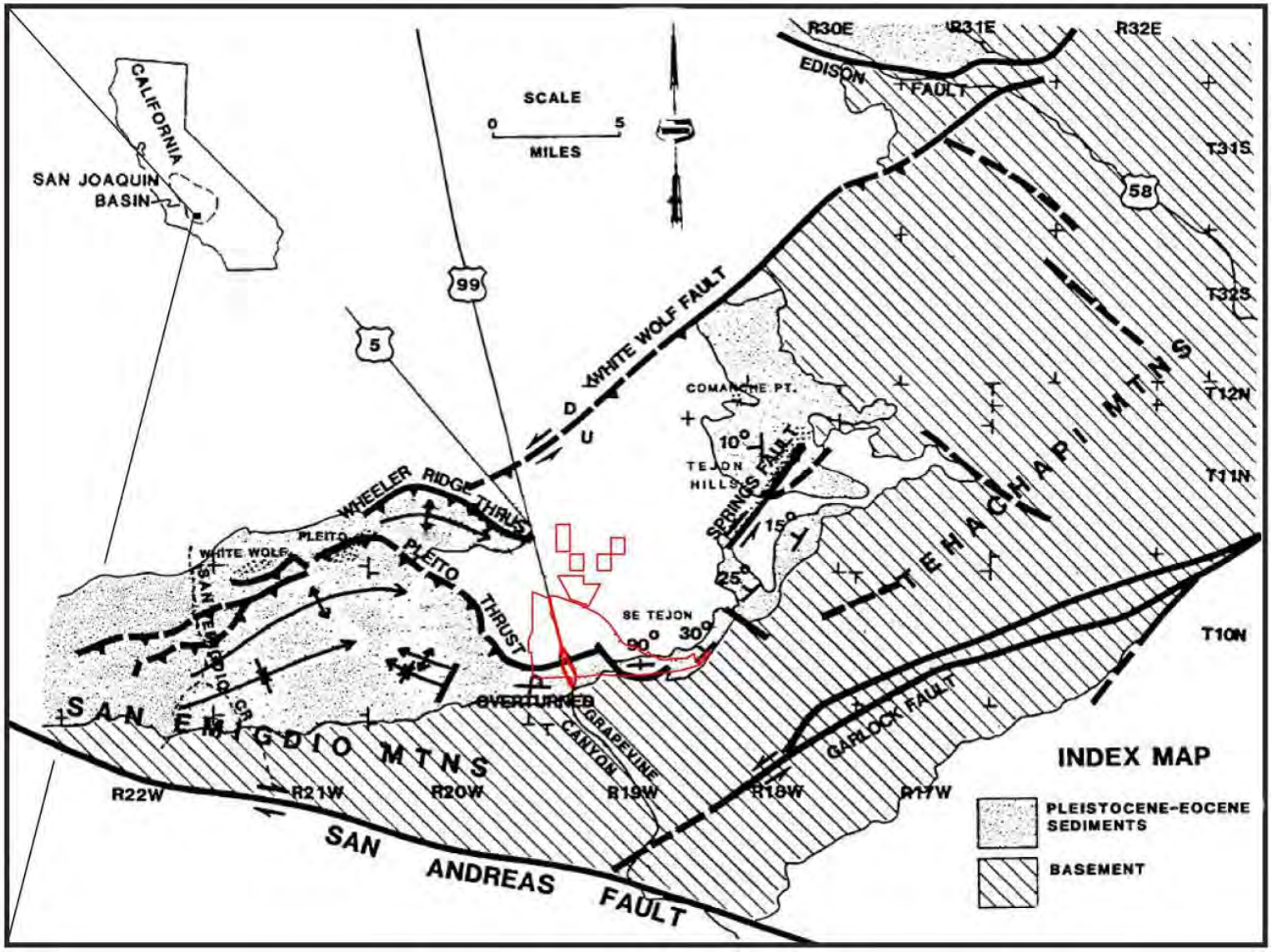


Figure 2–1. Index map of the southern San Joaquin Valley of Kern County, California, showing the Grapevine project site (red polygons) with major geologic features. Modified from Hirst (1986) and Cole and DeCelles (1991).

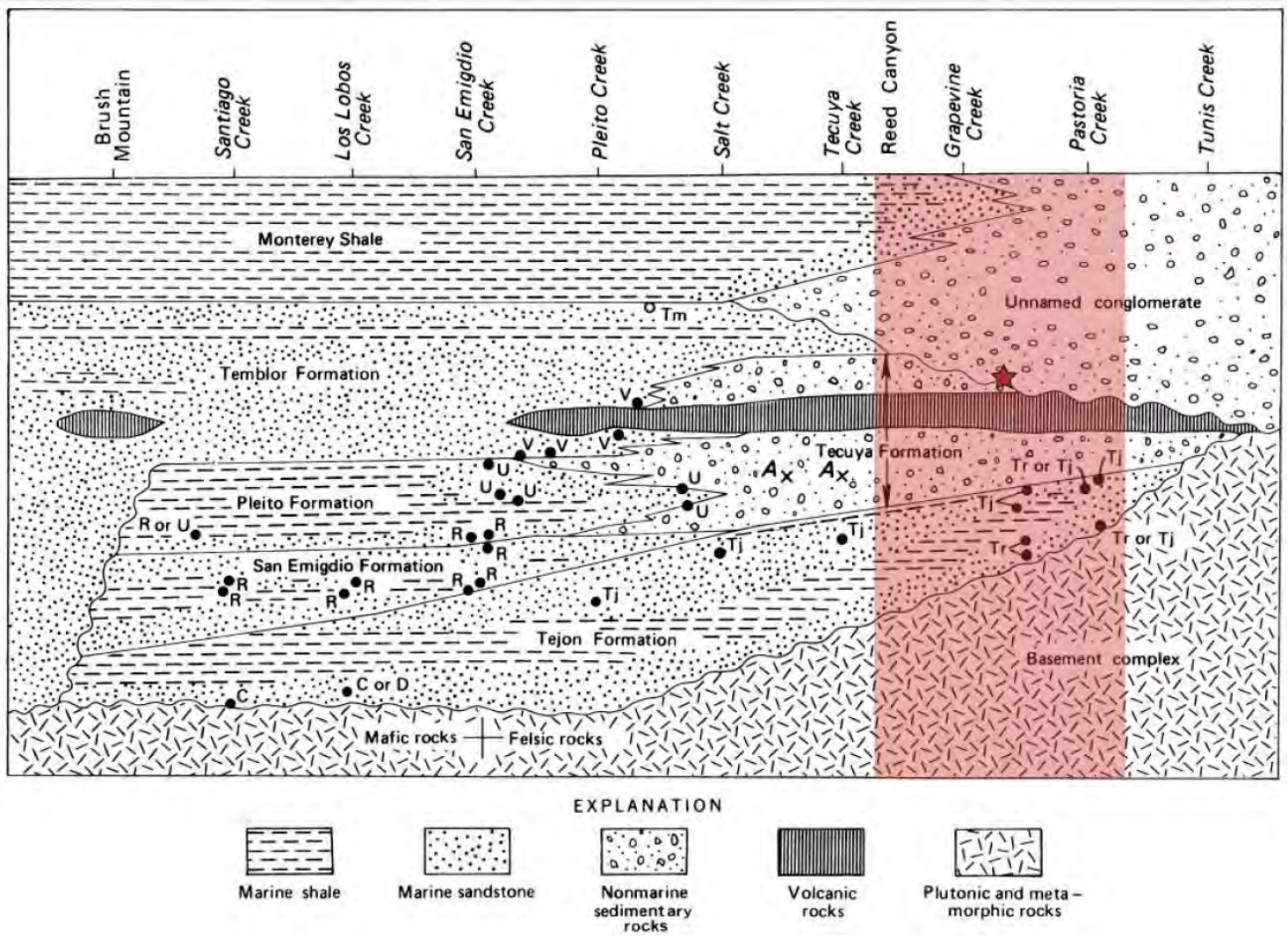
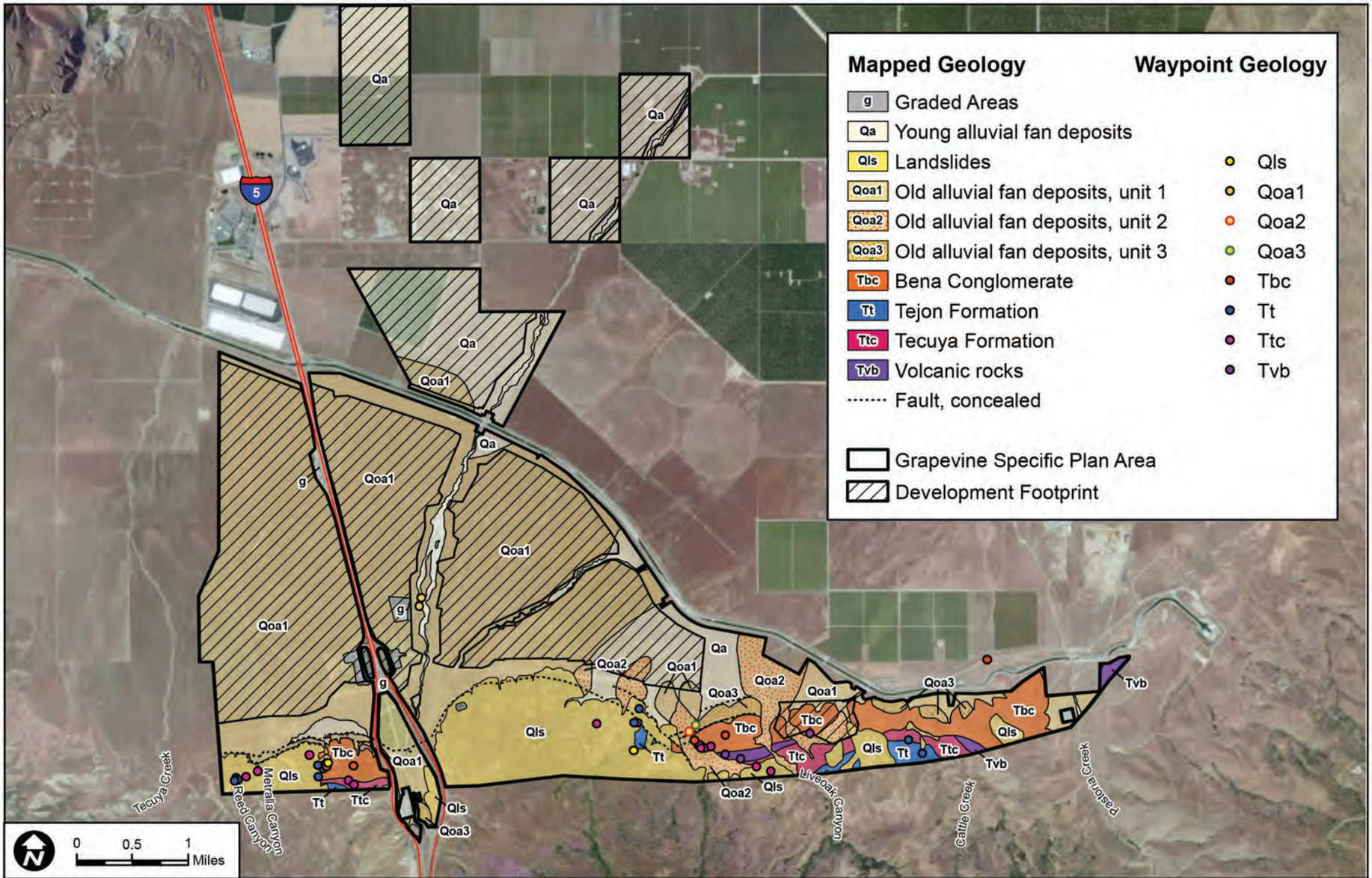


Figure 2–2 Stratigraphy in the vicinity of the Grapevine project site (red shaded box), modified from Critelli and Nilsen (2000). Star indicates approximate location of marine fossils discovered in the Tecuya Formation, A_X indicates fossil land mammal localities discovered in the Tecuya Formation. Black dots indicate marine fossil localities. Unnamed conglomerate refers to the Bena Conglomerate.

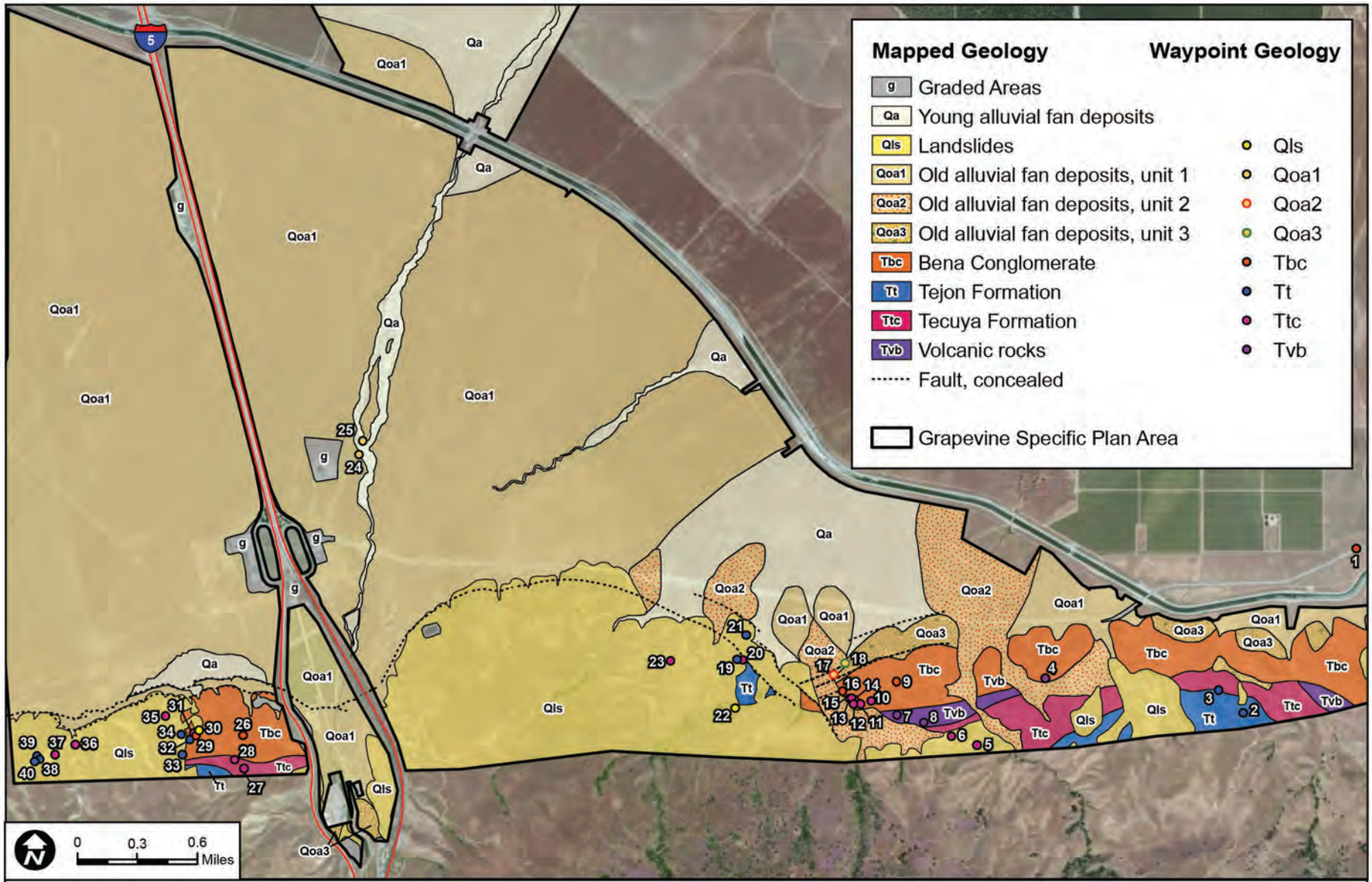


SOURCES: McIntosh & Associates 2013; TRC 2013a; TRC 2013b; ENGEO, Inc. 2013; Bing Maps Aerial

FIGURE 3-1

Geologic Map

GRAPEVINE PROJECT

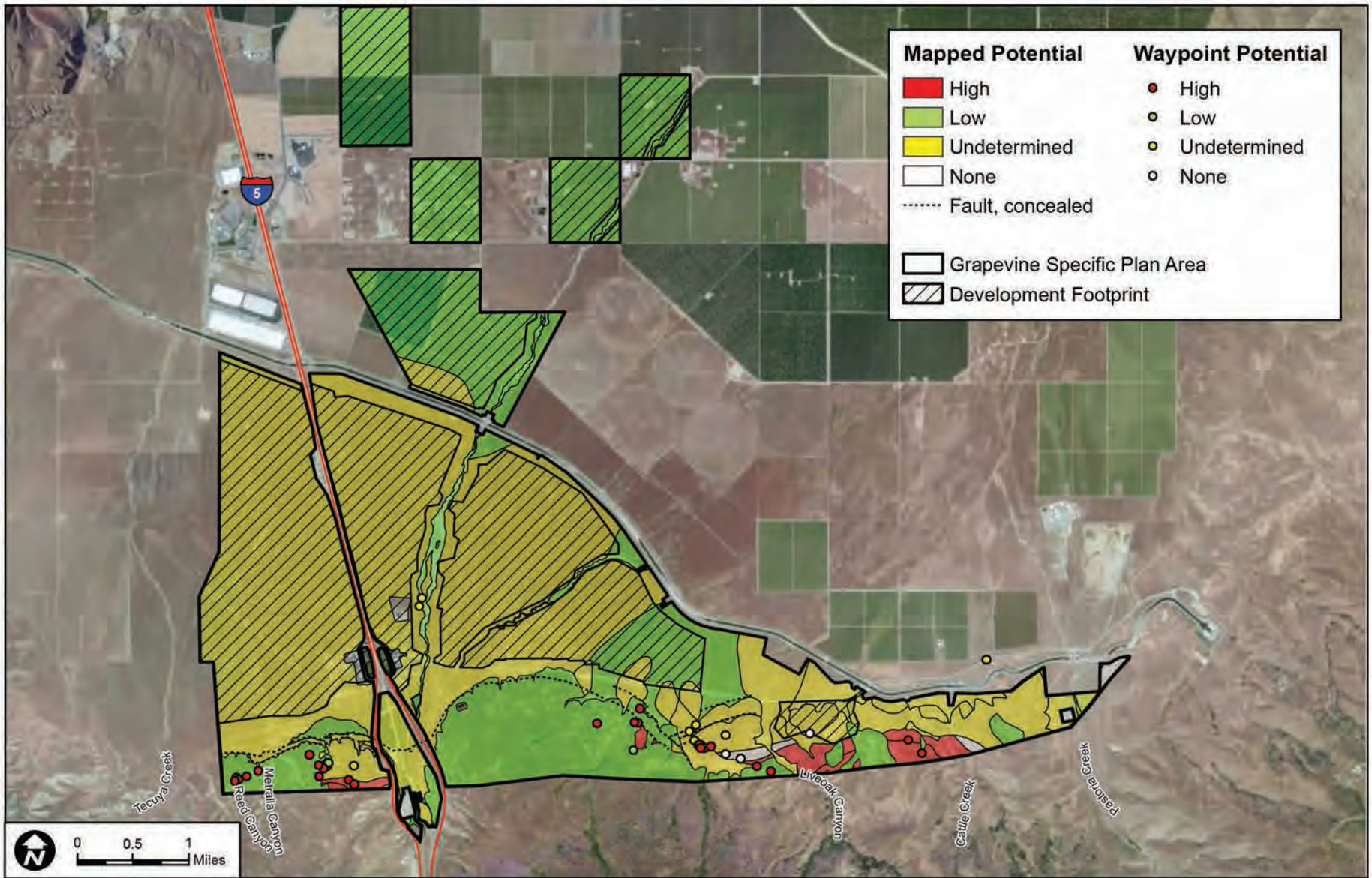


SOURCES: McIntosh & Associates 2013; TRC 2013a; ENGEO, Inc. 2013; Bing Maps Aerial

FIGURE 3-2

Geologic Map with Waypoints

GRAPEVINE PROJECT

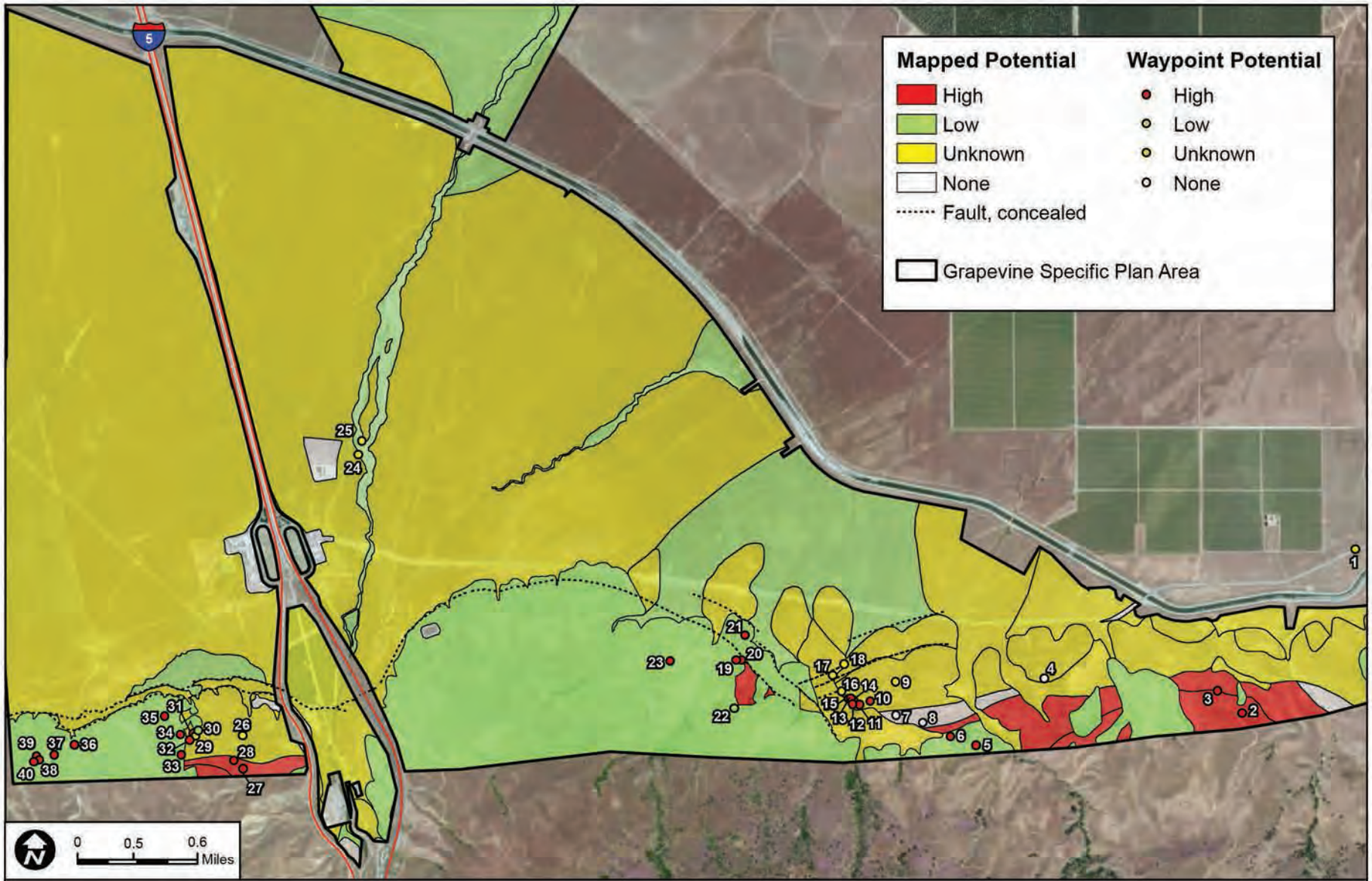


SOURCES: McIntosh & Associates 2013; TRC 2013a; TRC 2013b; ENGEO, Inc. 2013; Bing Maps Aerial

FIGURE 3-3

Paleontological Potential Map

GRAPEVINE PROJECT



SOURCES: McIntosh & Associates 2013; TRC 2013a; ENGEO, Inc. 2013; Bing Maps Aerial

FIGURE 3-4

Paleontological Potential Map with Waypoints

GRAPEVINE PROJECT

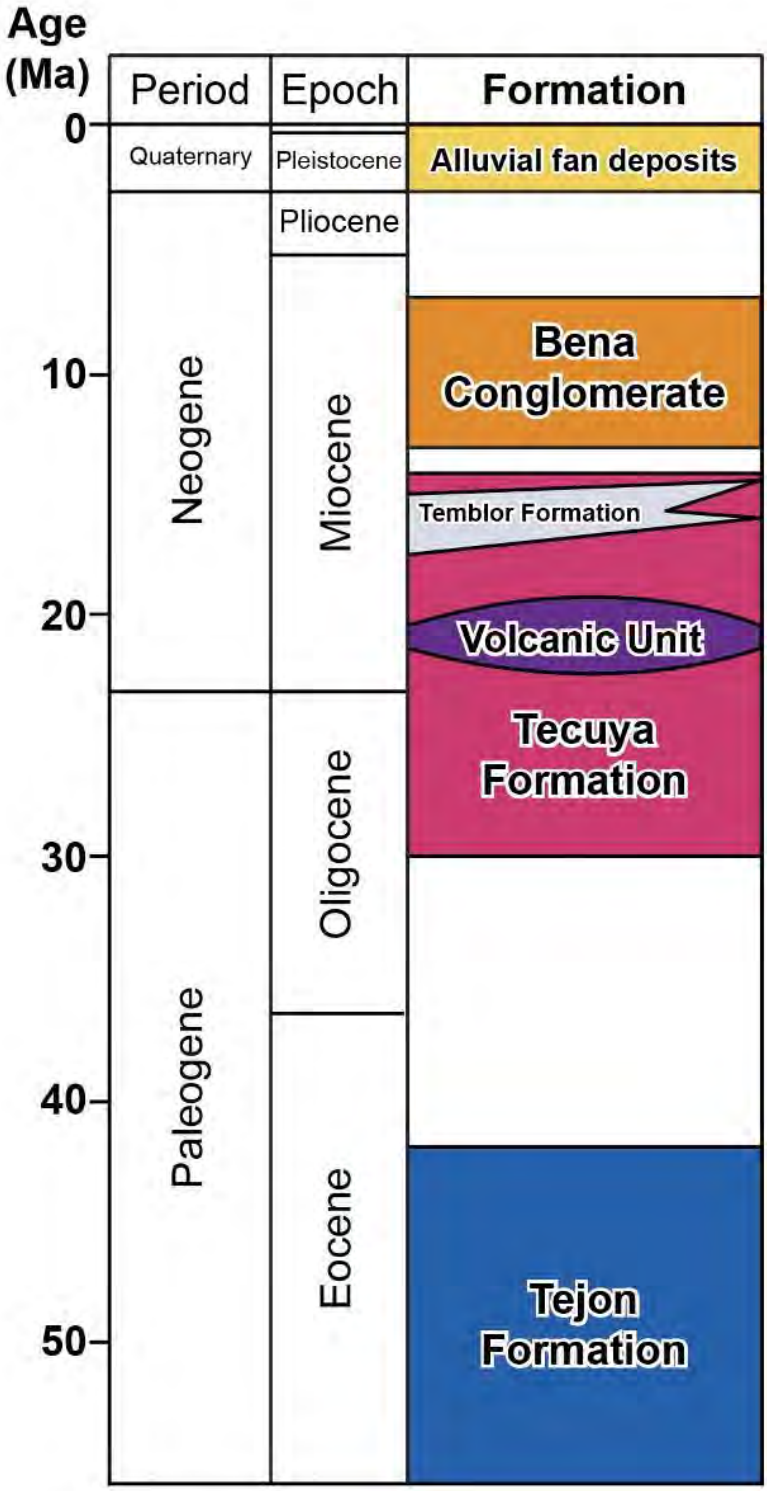


Figure 4–1. Generalized stratigraphic section of the Grapevine project site. The Holocene is represented by the thin bar above the Pleistocene epoch. Blank white portions of section are intervals of geologic time not represented by geologic rock units preserved in the project site.



Figure 4–2. Quaternary alluvial deposits in the active stream channel of Grapevine Creek. Photo taken facing south (upstream) towards Grapevine Canyon, from the channel bank east of waypoint 24. Note, the erosional incision of the active channel into uplifted Quaternary older alluvial fan deposits.

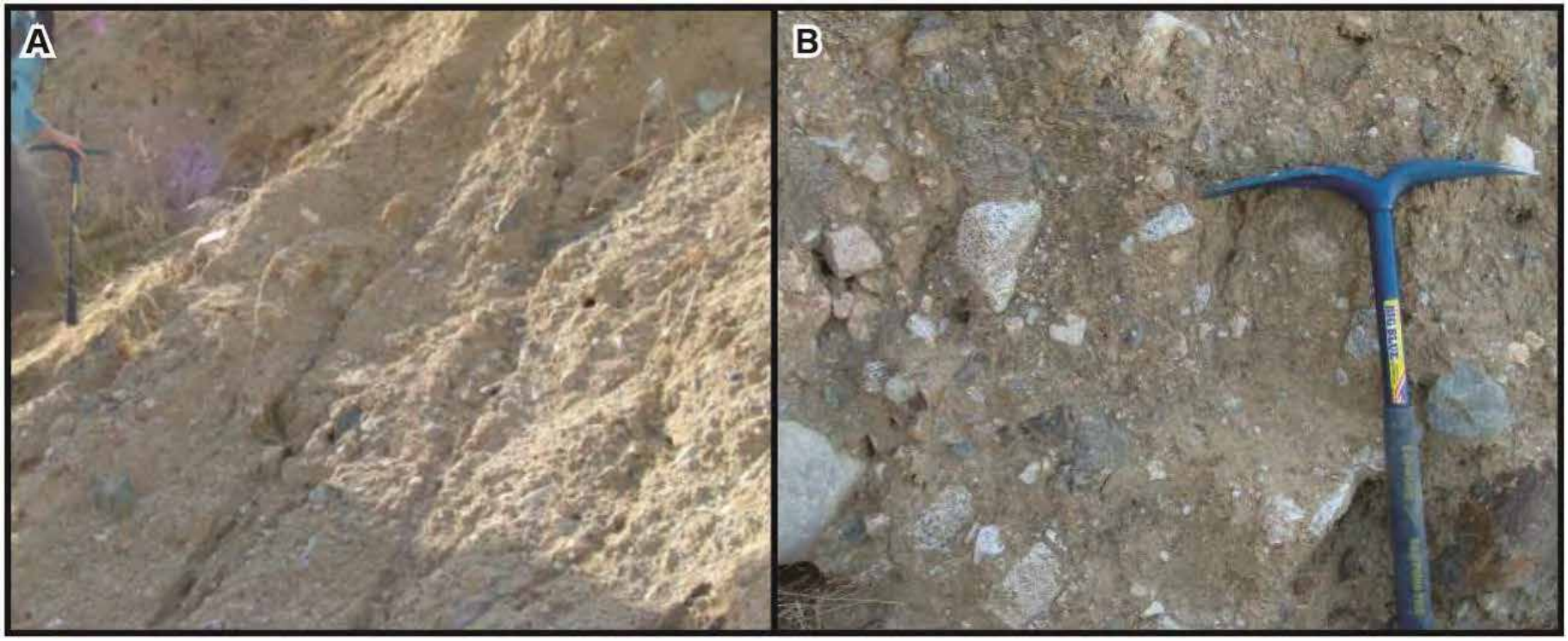


Figure 4–3. Landslide debris in the southwestern portion of the project site, at Waypoint 33. Note the angular, chaotically oriented, pebble to cobble sized clasts, and complete loss of original stratigraphy.



Figure 4–4. Small landslide within the Tejon Formation, near waypoint 38. Note hummocky surface topography of main slump and the distinct headscarp at top of photograph.

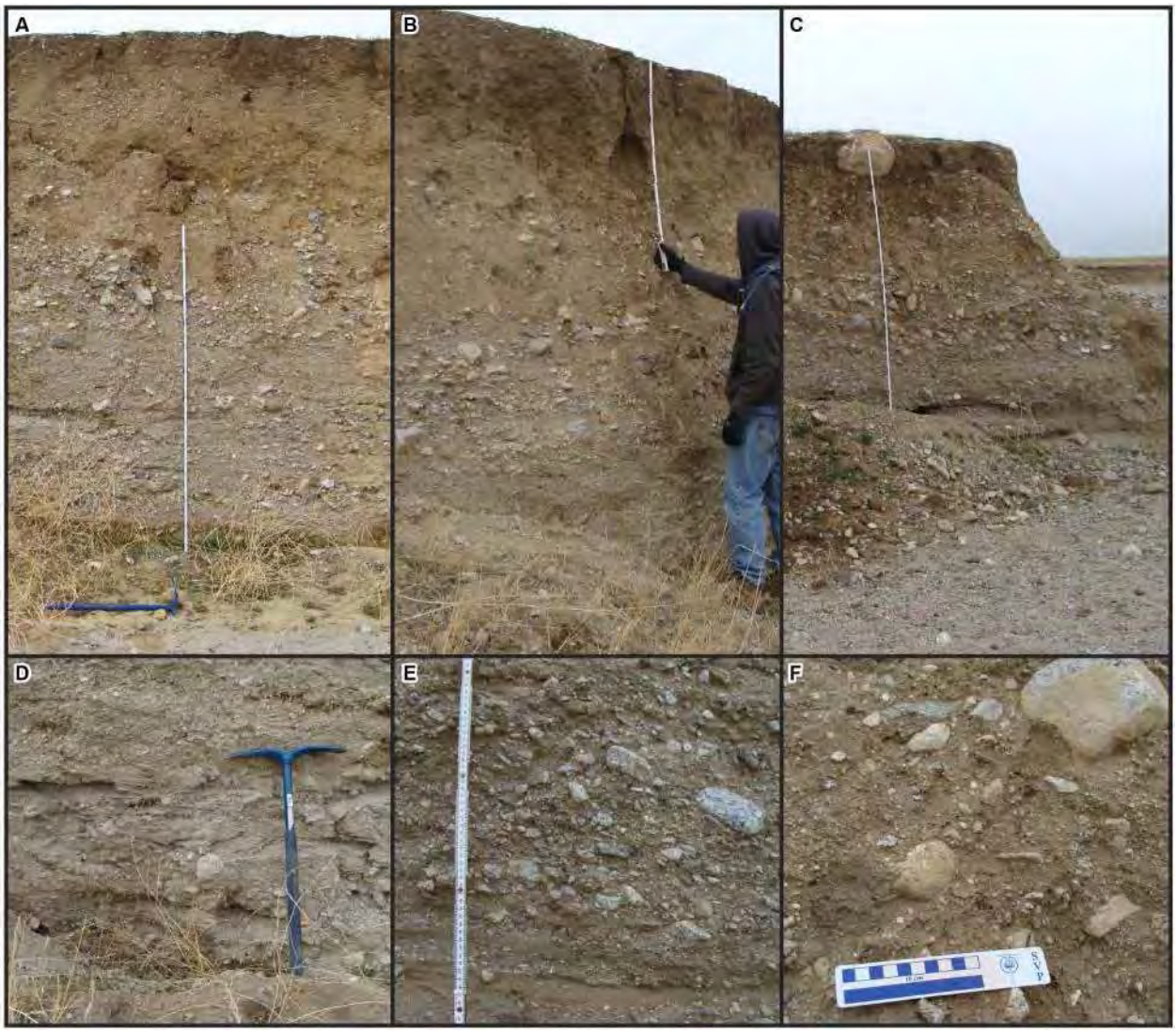


Figure 4–5. Exposures of Quaternary older alluvium, unit 1 (Qoa_1) along Grapevine Creek in the vicinity of waypoints 24 (**A–B**) and 25 (**C**), showing variable sedimentologic features. Note the thick horizon of top soil (dark brown sediment) at the top of each exposure, supporting the Pleistocene age of these deposits. **D.** Subtle cross–bedding; **E.** Slight imbrication of clasts; **F.** growth of caliche (tan color) coating on clasts. White vertical scale is 6.5 feet tall, and each node is 6 inches.



Figure 4–6. Exposures of Qoa_2 and Qoa_3 deposits at Waypoint 17. Photograph taken facing northeast from Waypoint 18. The low hill at the left of the image with granitic boulders is comprised of debris flow deposits, characteristic of Qoa_2 Inset photograph shows close up of Qoa3 deposits, with subangular to subrounded cobbles in an oxidized, reddish brown sandstone matrix. Scale bar is 10 centimeters (about 4 inches).

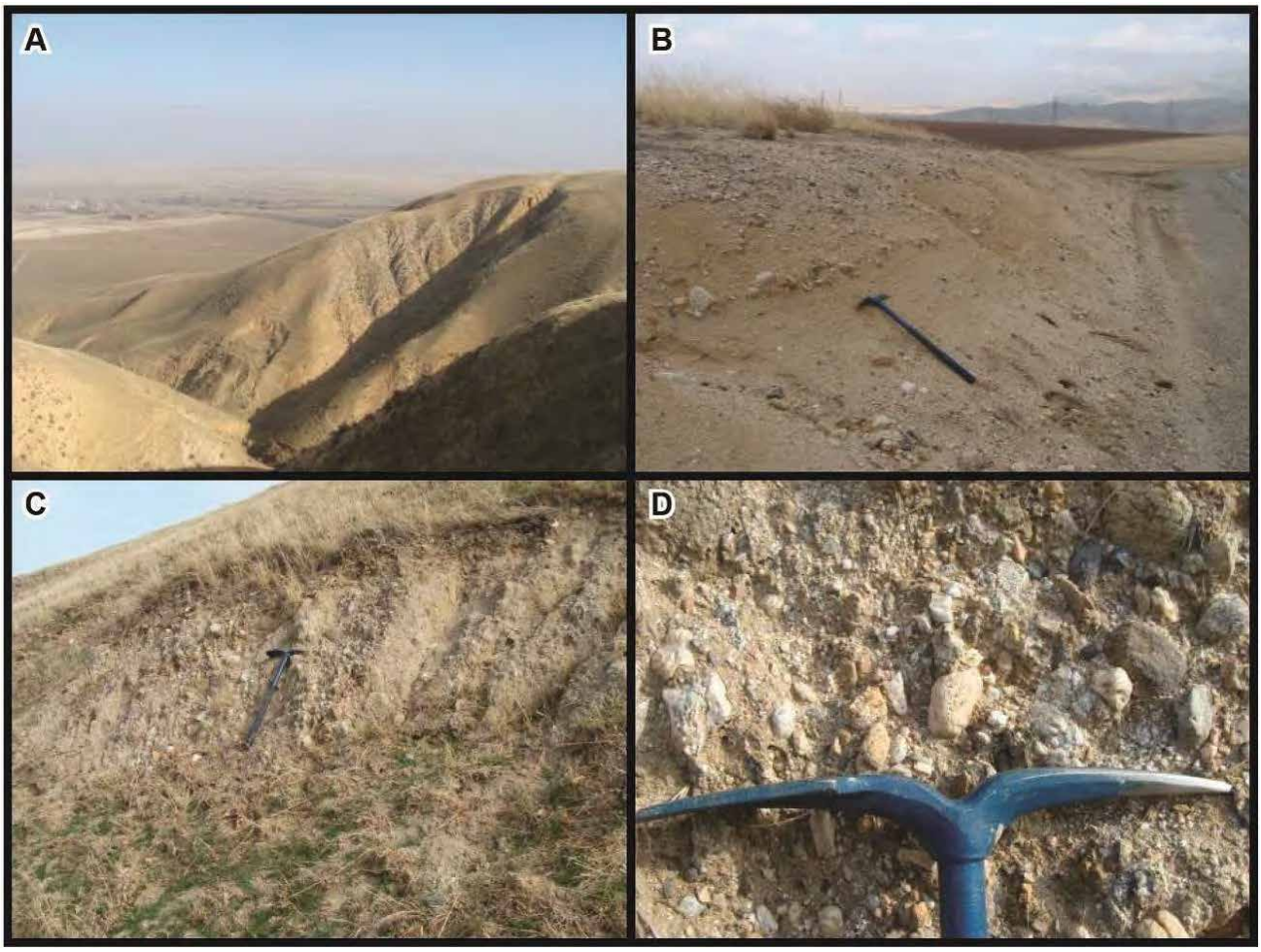


Figure 4–7. Bena Conglomerate exposed in the Grapevine project site. A. Looking northeast from the top of the canyon above waypoint 33, viewing resistant, near vertical beds of the Bena Conglomerate. B. Exposure of the Bena Conglomerate along Edmonston Pumping Plant Road (waypoint 1). This exposure was primarily consisted of coarse–grained sandstone strata dipping shallowly to the north. C. Outcrop of Bena Conglomerate to the west of Liveoak Canyon (waypoint 15). Beds are nearly vertical, similar to the exposure pictured in A. **D.** Close up of exposure pictured in C; note the sub–angular to sub–rounded cobbles and coarse–grained matrix.

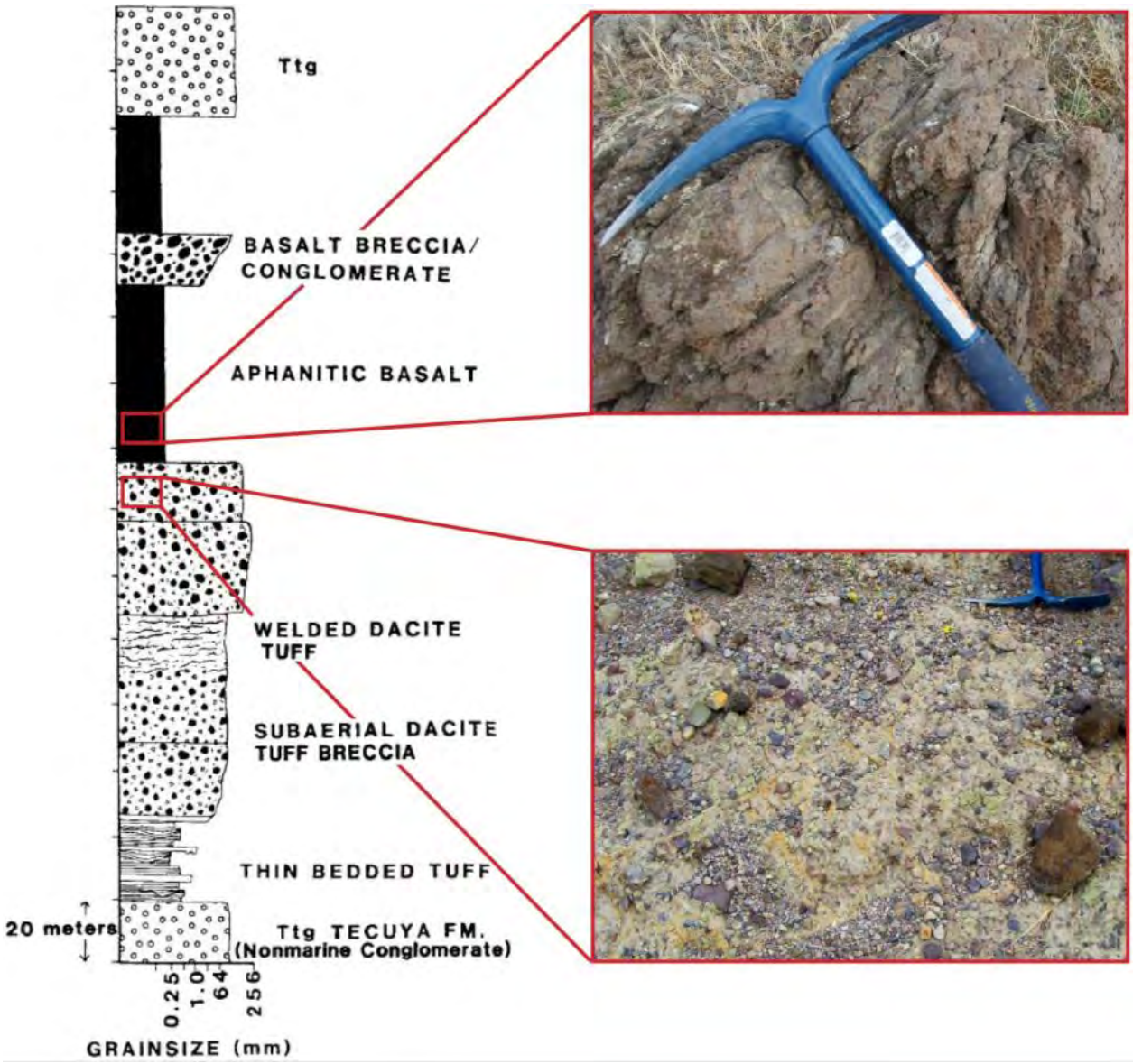


Figure 4–8. Generalized stratigraphy of the Miocene volcanic rocks, with representative photos of scoriacious basalt (upper) and a dacitic tuff breccia (lower) within the Grapevine project site, at waypoint 7. Stratigraphic section taken from Cole and DeCelles (1991).



Figure 4–9. Exposure of Miocene volcanic rocks on the west side of Liveoak Canyon. View looking northwest from waypoint 6. The dark brown to black volcanic rocks stand out as resistant units on the hillside.

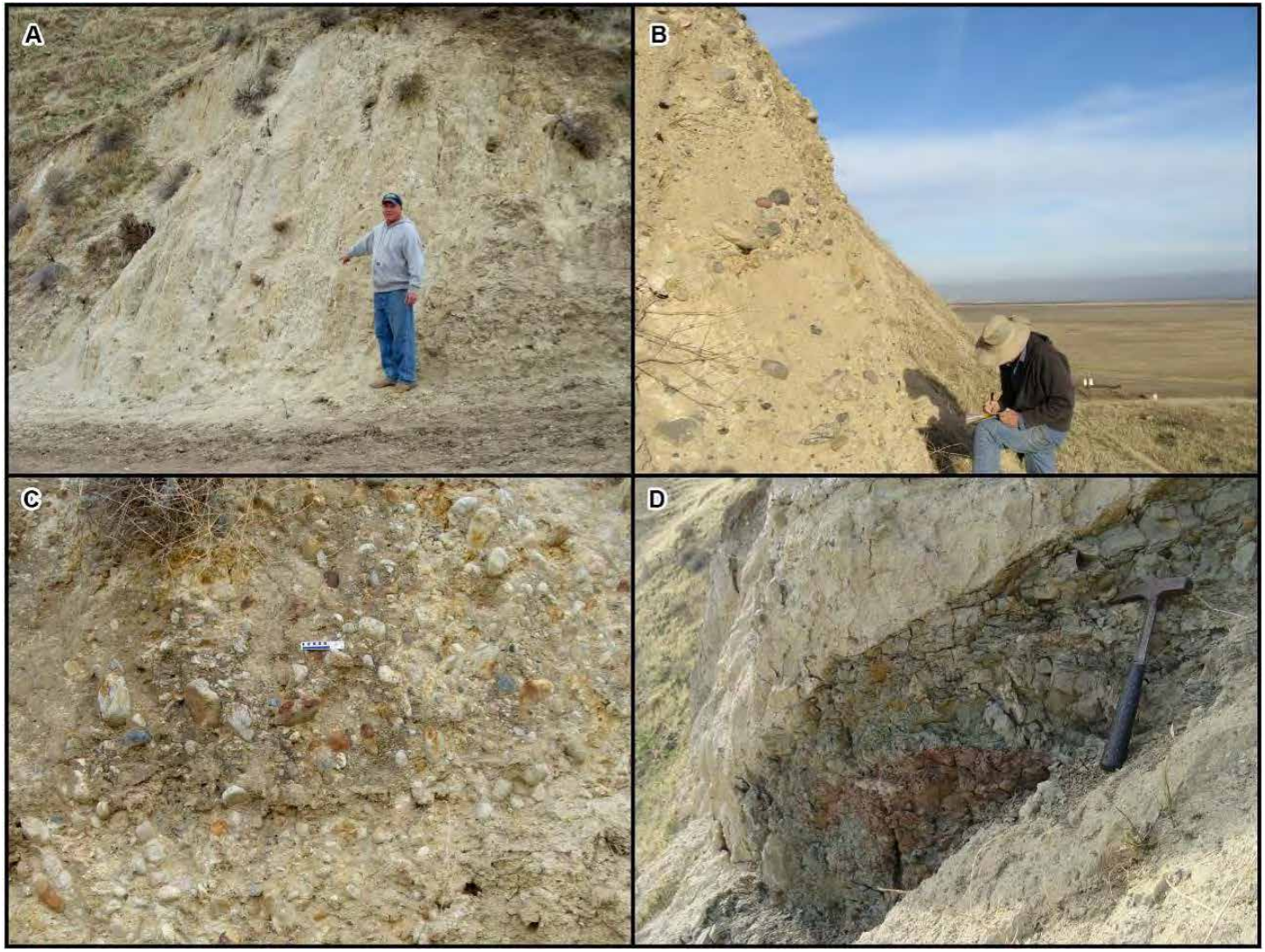


Figure 4–10. Exposures of the Tecuya Formation in the Grapevine project site. **A.** Outcrop of near vertically dipping sandstone and gritstone strata, with SDNHM paleontologist Pat Sena for scale. **B.** Crudely bedded Tecuya Formation sandstones with cobble conglomerate horizons, SDNHM paleontologist Tom Deméré for scale. **C.** Close of up rounded cobbles in conglomerate strata of the Tecuya Formation (scale bar is 10 cm). **D.** Mudstone lens interbedded with coarse–grained sandstones and gritstones (rock hammer for scale).

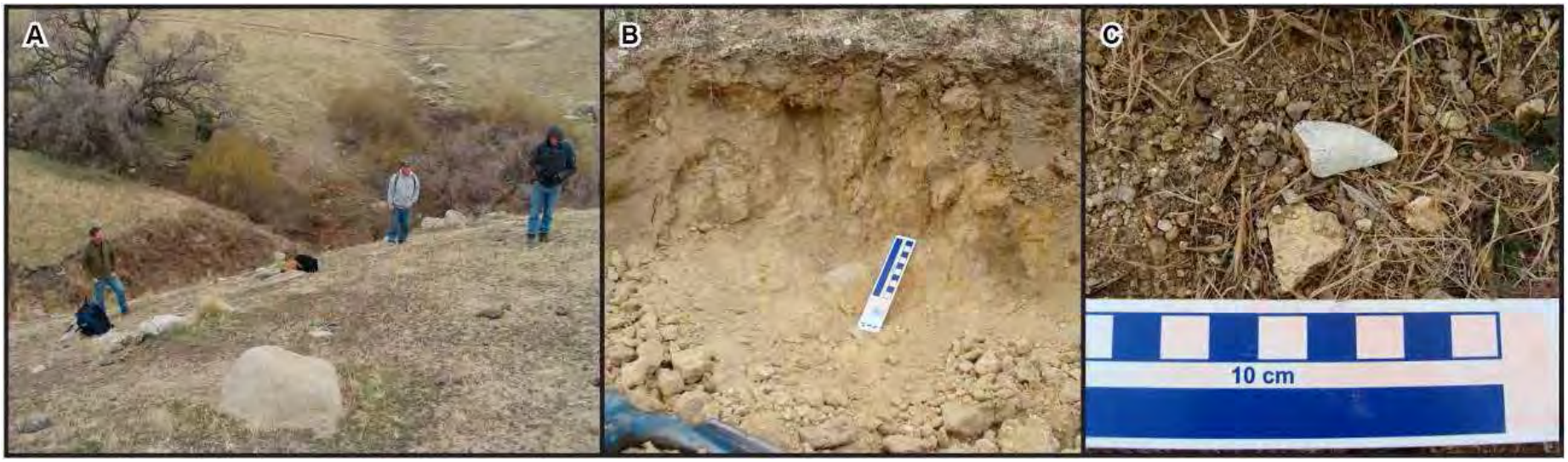


Figure 4–11. Exposures of a marine facies within the Tecuya Formation (or possibly Temblor Formation) that produced remains of marine vertebrate fossils (waypoints 11–12). **A.** Overview of the fossil collecting locality, with SDNHM personnel marking the general distribution of fossils observed at the ground surface. **B.** Sandstone strata exposed in an exploratory pit. **C.** Weathered shark tooth (*Isurus planus*) and mammal bone fragment discovered at the ground surface. Scale bar is 10 centimeters (about 4 inches).



Figure 4–12. Exposure of a resistant conglomerate bed in the Tecuya Formation that produced vertebrate fossil remains. **A.** View of a resistant, near vertical stratum of cobble conglomerate within the Tecuya Formation, at waypoint 13. SDNHM personnel for scale. **B.** Exposure of interbedded sandstone and conglomerate of the Tecuya Formation that produced numerous vertebrate fossil bone fragments (waypoint 14). The resistant wall at waypoint 13 can be seen at the right of the photo. **C.** Weathered bone fragment of a mammalian metapodial bone discovered on the surface of the outcrop pictured in B. Scale bar is 10 centimeters (about 4 inches).



Figure 4–13. Fossil shark teeth discovered weathering out of marine sandstone strata at waypoint 11. **A.** *Isurus planus,* **B.** *Isurus hastalis,* **C.** *Carcharocles megalodon.,* and **D.,** *Caracharhinus* sp.

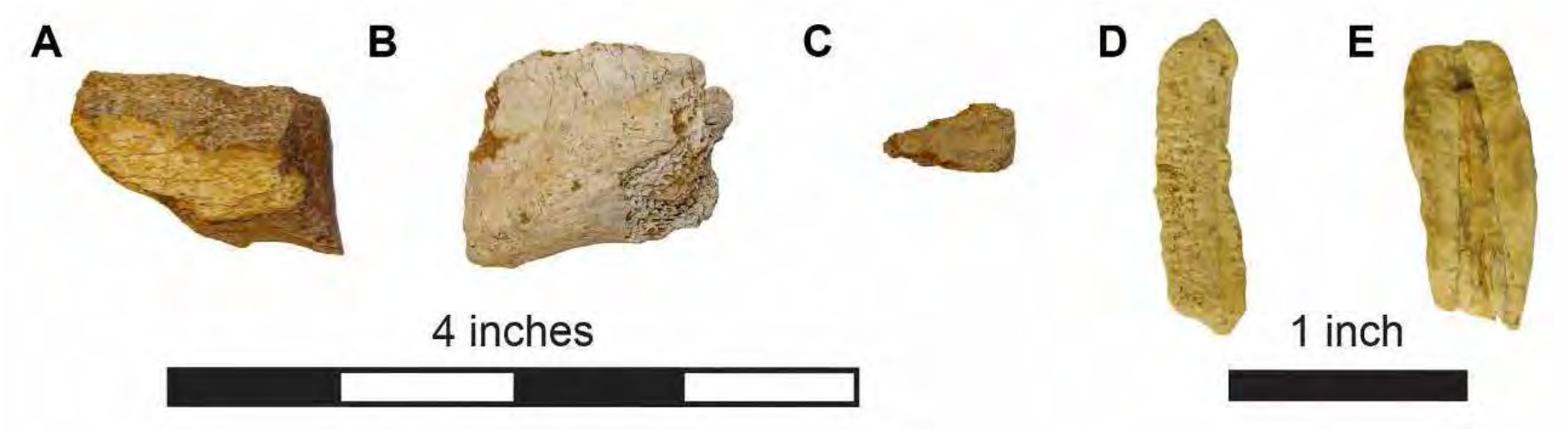


Figure 4–14. Weathered marine vertebrate bone fragments discovered on the ground surface at_waypoint 11. **A.** fragmentary mammalian rib bone **B.** fragmentary mastoid of a mysticete (baleen) whale, **C.** fragment of a mammalian vertebral epiphysis, **D.,** weathered ray tooth plate (Mylioobatoidea), and **E.,** fragment of cf. *Desmostylus* sp. tooth, with interior pulp cavity visible.

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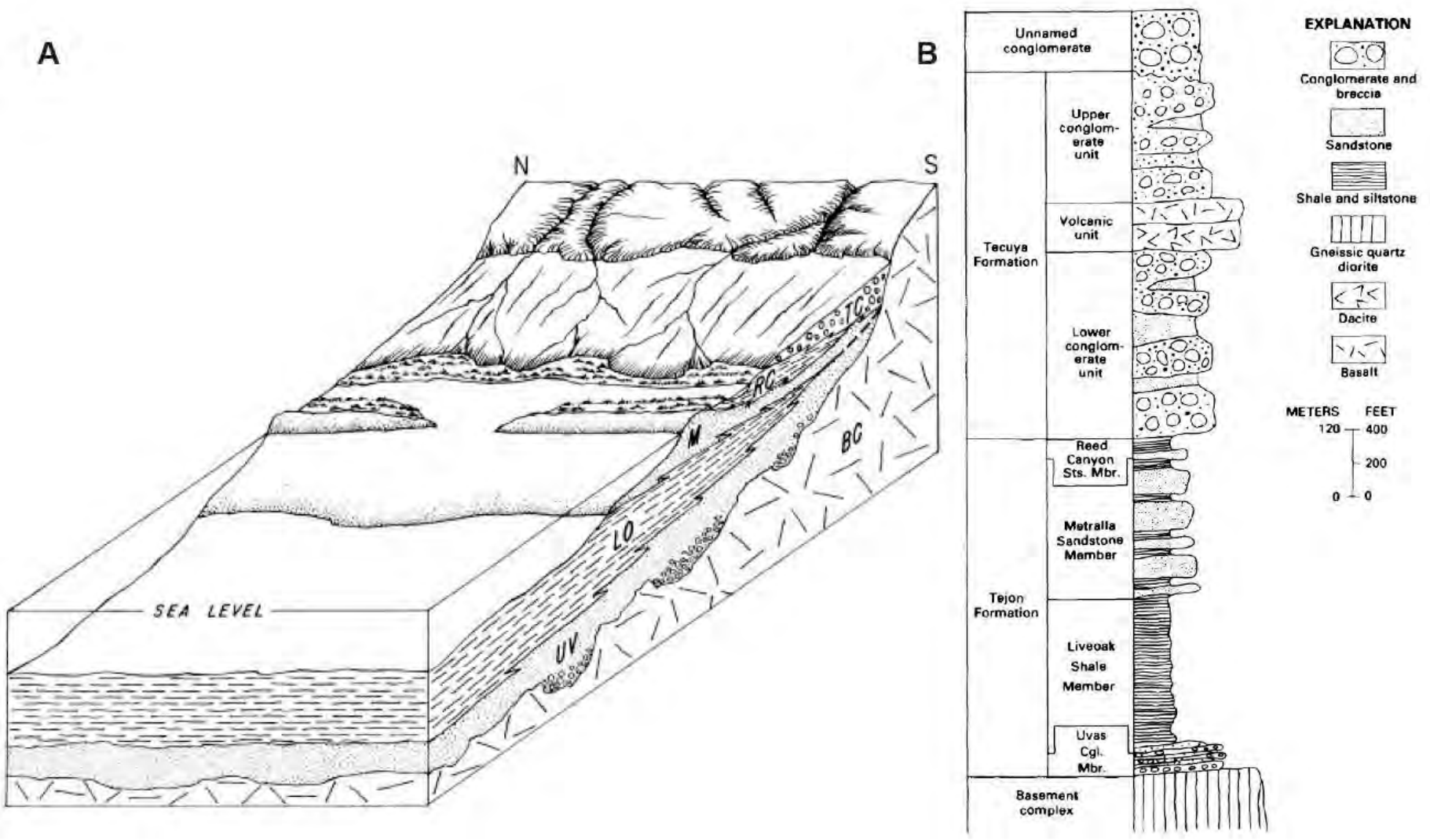

Figure 4–15. Simplified depositional model (**A**) and composite stratigraphic section (**B**) of the Tejon Formation, overlying Tecuya Formation (TC), and underlying granitic rocks (BC). The Tejon Formation is broken into four members: the Uvas Conglomerate (UV), Liveoak Shale (LO), Metralla Sandstone (M) and Reed Canyon Siltstone (RC). **A** is taken from Critelli and Nilsen (2000) and **B** is taken from Nilsen (1987).



Figure 4–16. Representative fossil localities discovered in the Liveoak Shale Member of the Tejon Formation within the Grapevine project site. **A.** Fossilized coral (indicated with arrow) and trace fossil burrows at waypoint 2. **B.** Trace fossil burrows infilled with oxidized, red–brown sands approximately 20 feet south of waypoint 2. **C.** Calcareous tubes of polychaete worms, discovered in a roadcut exposure between waypoints 2 and 3. **D.** Densely packed fossil invertebrates at waypoint 21. Scale bars are in centimeters (2.5 centimeters is about 1 inch).



Figure 4–17. Representative fossil localities in the Metralla Sandstone of the Tejon Formation at the project site. **A.** Roadcut exposure at waypoint 3, with several fossil localities (b, c, d), including a large fossilized log (circled). Close up of fossils are depicted in **B–D. B.** Internal molds of naticid gastropods. **C.** Fossilized log with shipworm borings of *Teredo* sp. **D.** External molds of bivalves, including the extinct cockle, *Acanthocardia brewerii*. **E.** Bioturbated outcrop with prominent vertical burrows (indicated with arrows) within landslide deposits at waypoint 40. **F.** Fish vertebra discovered at waypoint 39, Scale bars are in centimeters (2.5 centimeters is about 1 inch).

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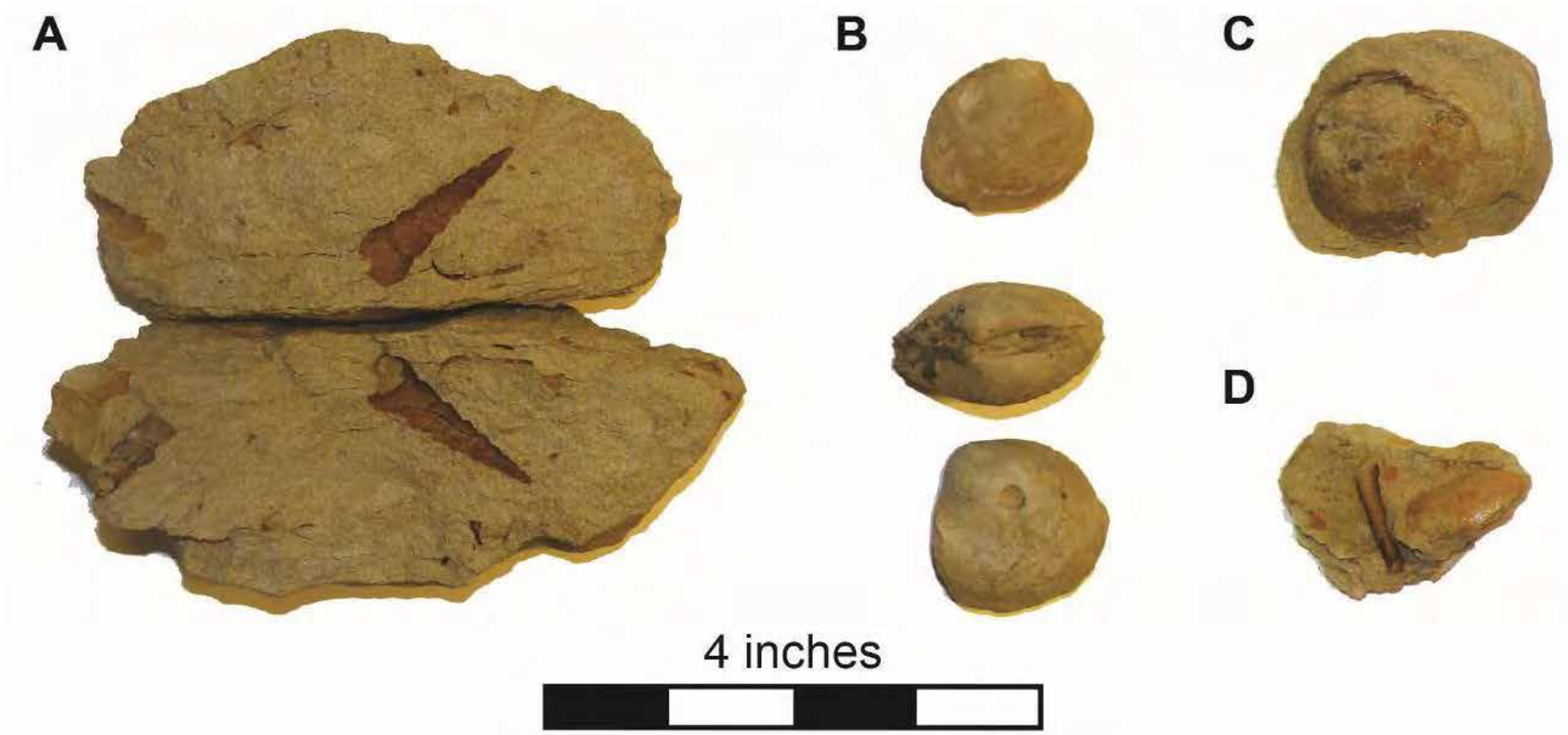

Figure 4–18. Fossils discovered in the Liveoak Shale of the Tejon Formation. **A.** External mold of the high–spired gastropod, *Turritella uvasana*, part and counterpart. **B.** Internal molds of venerid clams, cf. *Pitaria* sp. Note circular structure near center of shell indicating boring by a predatory gastropod (snail). **C.** External mold of an unidentified venerid bivalve. Note cardinal teeth along the hinge line). **D.** External molds of a tusk shell (scaphopod).

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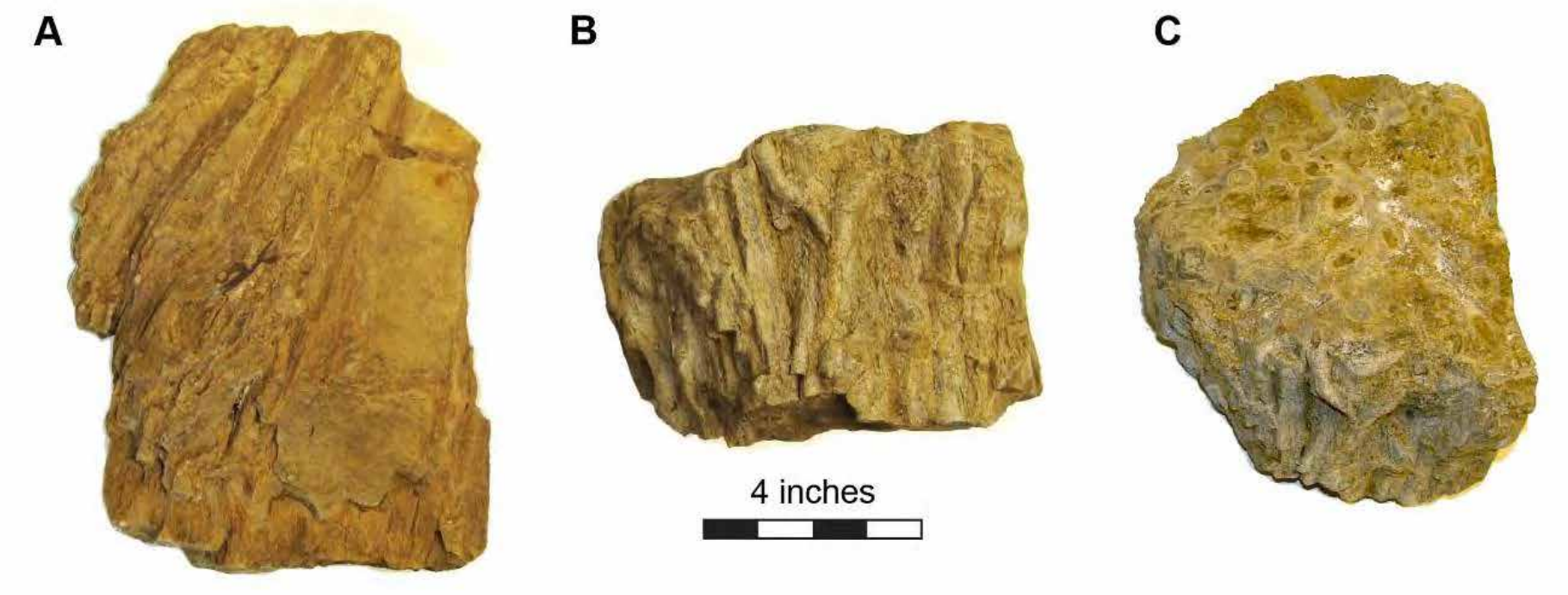


Figure 4–19. Shipworm burrows (*Teredo* sp.) in fossilized wood discovered within the Metralla Sandstone Member of the Tejon Formation. **A.** Burrows in side view, discovered near waypoint 32. **B.** Burrows in side view and **C.,** top view discovered at waypoint 3. Note how the burrows approximately follow the original grain of the wood.

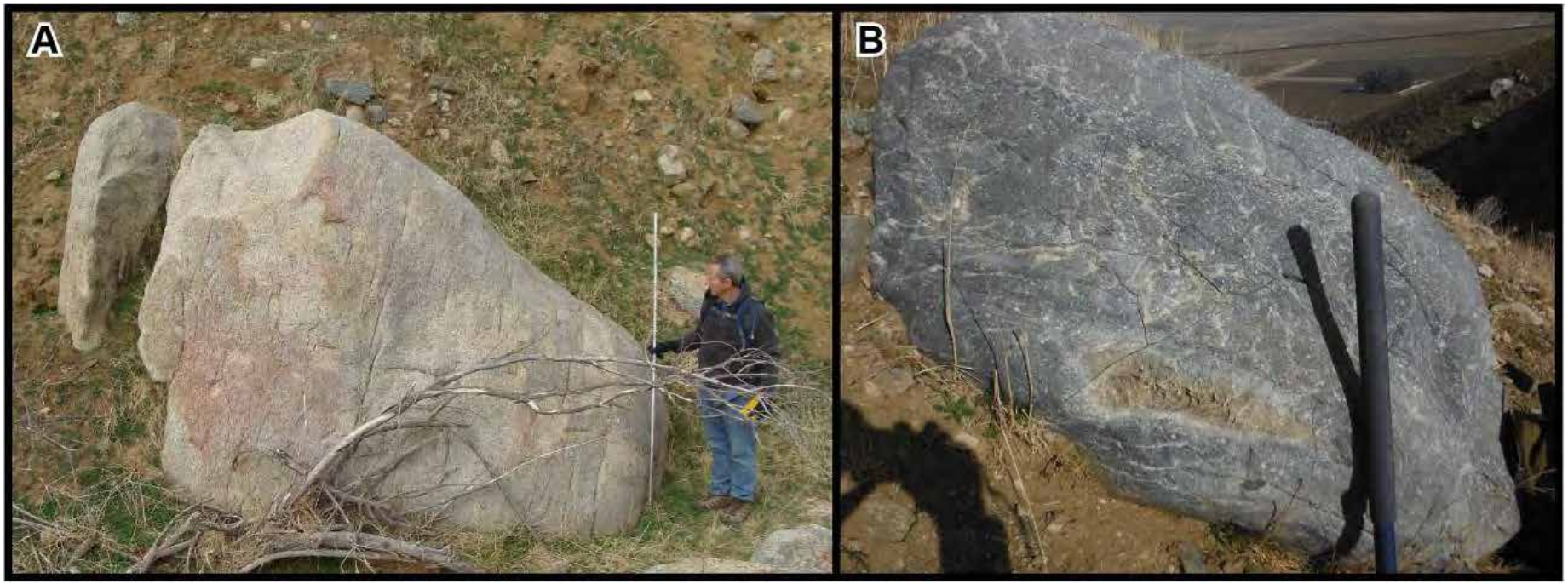


Figure 4–20. Large boulders observed in the Grapevine project site, which served as representations of the granitic basement complex. **A.** Boulder of graniodiorite west of Liveoak Canyon (waypoint 17). **B.** Blue marble boulder, west of I–5 (waypoint 26).

Appendix H.2

Amendment to the Paleontological Resource Assessment

SAN DIEGO NATURAL HISTORY MUSEUM
BALBOA PARK - SAN DIEGO SOCIETY OF NATURAL HISTORY - ESTABLISHED 1874

6 November 2015
Dr. David S. Whitley
ASM Affiliates
20424 West Valley Blvd., Suite A
Tehachapi, California 93561

RE: Paleontological Resource Assessment, Grapevine Project, Tejon Ranch, Kern County, CA

Dear Dr. Whitley,

This letter report will serve as an amendment to the Paleontological Resource Assessment Report prepared for the Grapevine Project, Kern County, California. The purpose of this amendment is to address minor changes to the project footprint: relocation of the existing Grapevine Road/Interstate-5 (I-5) interchange and Vehicle Enforcement Facility Weigh Station, improvements to an off-site agricultural haul road to provide additional site access to the eastern portion of the Grapevine Project, and creation of off-site road connections across I-5 and the California Aqueduct to provide additional site access and connectivity to the western portion of the Grapevine Project.

Project Description:

The Grapevine Project is an 8,010-acre site along the I-5 corridor, in the west central portion of Tejon Ranch. The purpose of construction is the development of a new residential community and employment center that will include agricultural grazing and open space areas. Following completion of the initial Paleontological Resource Assessment, it was determined that site access will differ subtly from what was initially proposed. First, access to the Grapevine Community during later phases of development will involve relocation and expansion of the existing Grapevine Road/I-5 interchange and associated Vehicle Enforcement Facility Weigh Station. The proposed relocation area is to the north, where the new Vehicle Enforcement Facility Weigh Station may be constructed on a Tejon Ranchcorp owned parcel on the west and north sides of the junction of I-5 and CA-99 (Figure 1). Second, access to the eastern portion of the project may be accommodated through improvements to an existing 4.5 mile long Tejon Ranchcorp agricultural road (off-site agricultural haul road). The existing road is located within orchards to the east of the project (Figure 1), and the proposed improvements will provide access for truck traffic currently using Edmonston Pumping Plant Road. Finally, access and connectivity within the western portions of the project will be improved through the addition of 4 off-site road connections: two across I-5 and two across the California Aqueduct (Figure 1).

Paleontological Resource Assessment:

Published geologic maps and reports in the vicinity of the proposed improvement areas (e.g., ENGEO, 2013; Dibblee and Minch 2005a; 2005b; Lancaster et al., 2012) indicate that the

site for the new Grapevine Road/I-5 interchange and Vehicle Enforcement Facility is entirely underlain by young alluvial fan deposits of Holocene age (less than 10,000 years old), as is the northern approximately 4 miles of the proposed access road in the eastern portion of the project, and the northern portion of the westernmost California Aqueduct crossing (Figure 1). The southern approximately 0.5 miles of the proposed access road, as well as the I-5 overcrossings, eastern California Aqueduct crossing, and the haul road associated with the western Aqueduct overcrossings are all underlain by old alluvial fan deposits (Qof) of Holocene- to Pleistocene-age (Figure 1). However, the I-5 corridor and California Aqueduct have previously been graded, and may contain deposits of artificial fill (not pictured in Figure 1). The Qof deposits in the off-site areas correlate with unit 1 (Qoa_1) of the old alluvial fan deposits discussed in the Paleontological Resource Assessment, and it is believed that the upper 3-5 feet of these sediments are Holocene in age, though the precise contact between Holocene and Pleistocene sediments is difficult to determine.

The relatively young age (less than 10,000 years old) of Holocene-age young alluvial fan deposits generally precludes the possibility of finding paleontological resources in these deposits. Consequently, Holocene-age young alluvial fan deposits have a low paleontological potential (Figure 2). The Pleistocene-age of old alluvial fan deposits suggests the potential for discovery of fossil remains, though fossil remains are not currently known from immediately within the Grapevine project site. However, similar old alluvial fan deposits elsewhere in Kern County have produced remains of terrestrial vertebrates including both large bodied and small bodied mammals, lizards, and amphibians (e.g., Fay and Thiessen, 1993; UCMP online collections database). Deposits of Qoa_1 are assigned an undetermined paleontological potential (Figure 2), based on the depositional and preservational potential for fossils, but lack of known fossils within the project area. The difficulty in determining the precise contact between Pleistocene- and Holocene-aged sediments within this unit further supports assignment to undetermined paleontological potential. Artificial fill materials typically have no paleontological potential, as the original stratigraphic and geographic contextual data associated with any contained fossil remains has been lost.

Recommendations:

Grapevine Road/I-5 Interchange / Vehicle Enforcement Facility Weigh Station: Holocene-age young alluvial fan deposits, which underlie the entirety of the site proposed for the new interchange and Vehicle Enforcement Facility, have a low paleontological potential due to their young geologic age. Consequently, any proposed excavations into these deposits will not result in negative impacts to paleontological resources. Based on these factors, paleontological mitigation is not recommended for construction of the Grapevine Road/I-5 interchange and Vehicle Enforcement Facility Weigh Station (Figure 2).

Off-Site Agricultural Road / Off-Site Road Connections: As discussed above, Holocene-age young alluvial fan deposits have a low paleontological potential, and impacts to these deposits, or to artificial fill (no paleontological potential) do not require paleontological mitigation. However, old alluvial fan deposits of Pleistocene-age (i.e., deposits of Qoa_1 that are greater than 5 feet below existing grade) have the potential to contain fossils, have been assigned an undetermined paleontological potential (Figure 2), and thus may require paleontological mitigation. Based on these factors, paleontological mitigation is not recommended for

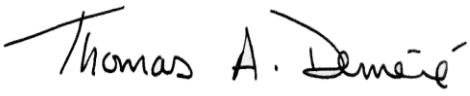
excavations of any kind in areas underlain by Holocene-age young alluvial fan deposits or artificial fill, which includes the northern 4.0 miles of the off-site agricultural haul road, and the northern portion of the western California Aqueduct road connection (Figure 2). Both of the off-site road connections spanning I-5, and the crossings in the immediate vicinity (about 100 feet) of the California Aqueduct are presumably underlain by artificial fill (not pictured in Figure 1or Figure 2), and thus do not require mitigation. Implementation of a paleontological mitigation program is recommended for any excavations extending greater than 5 feet below existing grade in areas underlain by old alluvial fan deposits, which includes the southern 0.5 miles of the off-site agricultural haul road, the southern 0.5 miles of the western off-site road connection spanning the California Aqueduct, and areas outside of an approximately 100 foot radius of the Aqueduct for the eastern off-site road connections spanning the California Aqueduct (Figure 2). Surficial excavations (0 – 5 feet below existing grade) in these areas are not recommended for paleontological mitigation.

Summary:

Paleontological mitigation is not recommended for Grapevine Project site modifications in areas underlain by artificial fill (no paleontological potential) or Holocene-age, low paleontological potential, young alluvial fan deposits, and surficial excavations (0 – 5 feet below existing grade) in areas underlain by Pleistocene-age, unknown paleontological potential, old alluvial fan deposits. Deeper excavations (greater than 5 feet below existing grade) in areas underlain by old alluvial fan deposits will require implementation of a paleontological mitigation program. The areas that are recommended for mitigation include the southern approximately 0.5 miles of the off-site agricultural haul road, the southern approximately 0.5 miles of the western off-site road connection spanning the California Aqueduct, and areas outside of an approximately 100 foot radius of the aqueduct for the eastern off-site road connection spanning the California Aqueduct (Figure 2).

If you have any questions concerning these findings please feel free to contact me at 619-255-0232 or tdemere@sdnhm.org.

Sincerely,



Thomas A. Deméré
Director, Department of PaleoServices

Enc: Figure 1: Geologic Map
Figure 2: Paleontological Potential Map

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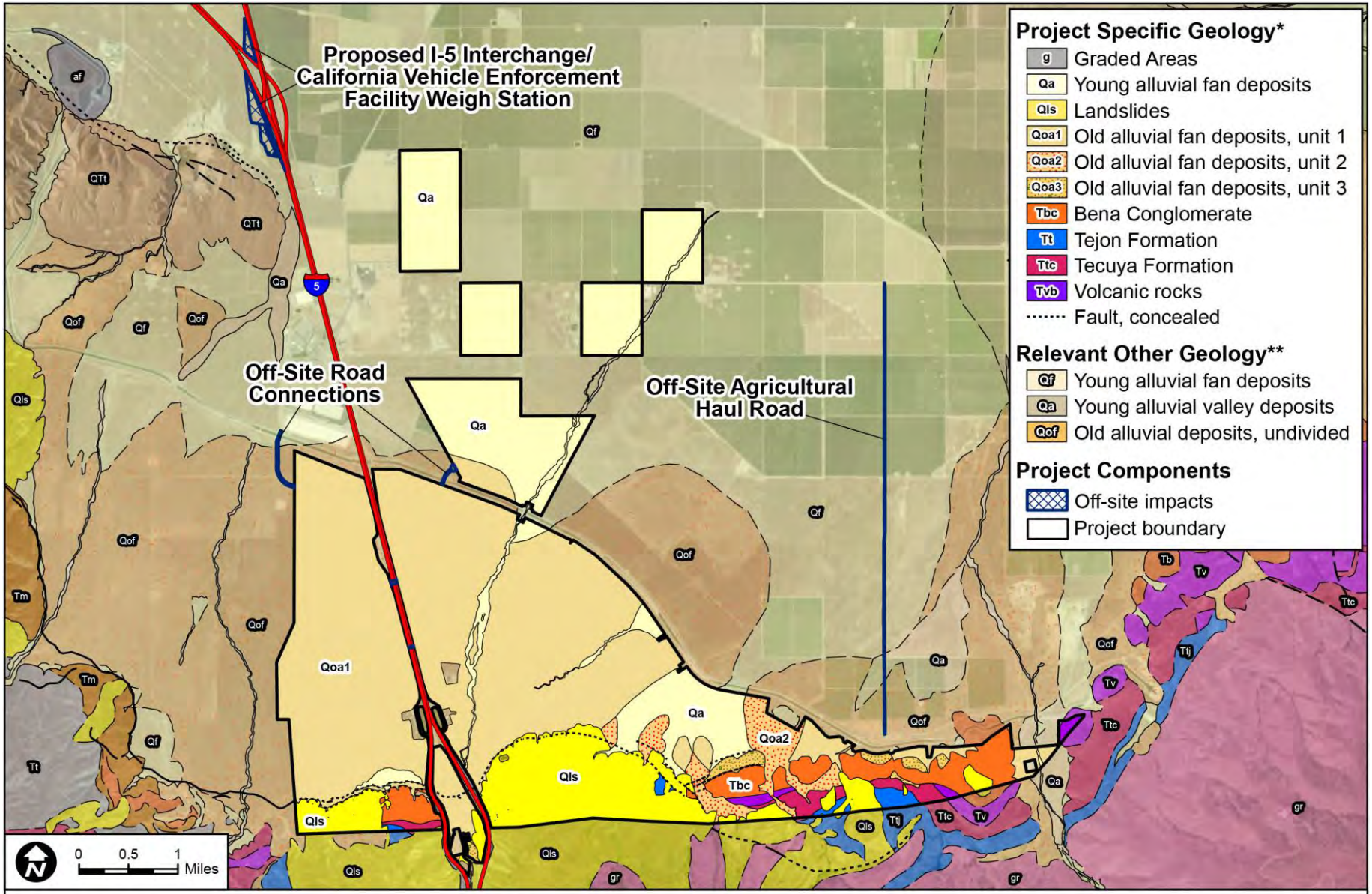


SOURCES: Bing Maps Aerial 2014; Dibblee and Minch 2005a; 2005b; ENGEO, Inc. 2013; Lancaster et al. 2012; McIntosh & Associates 2013; TRC 2013

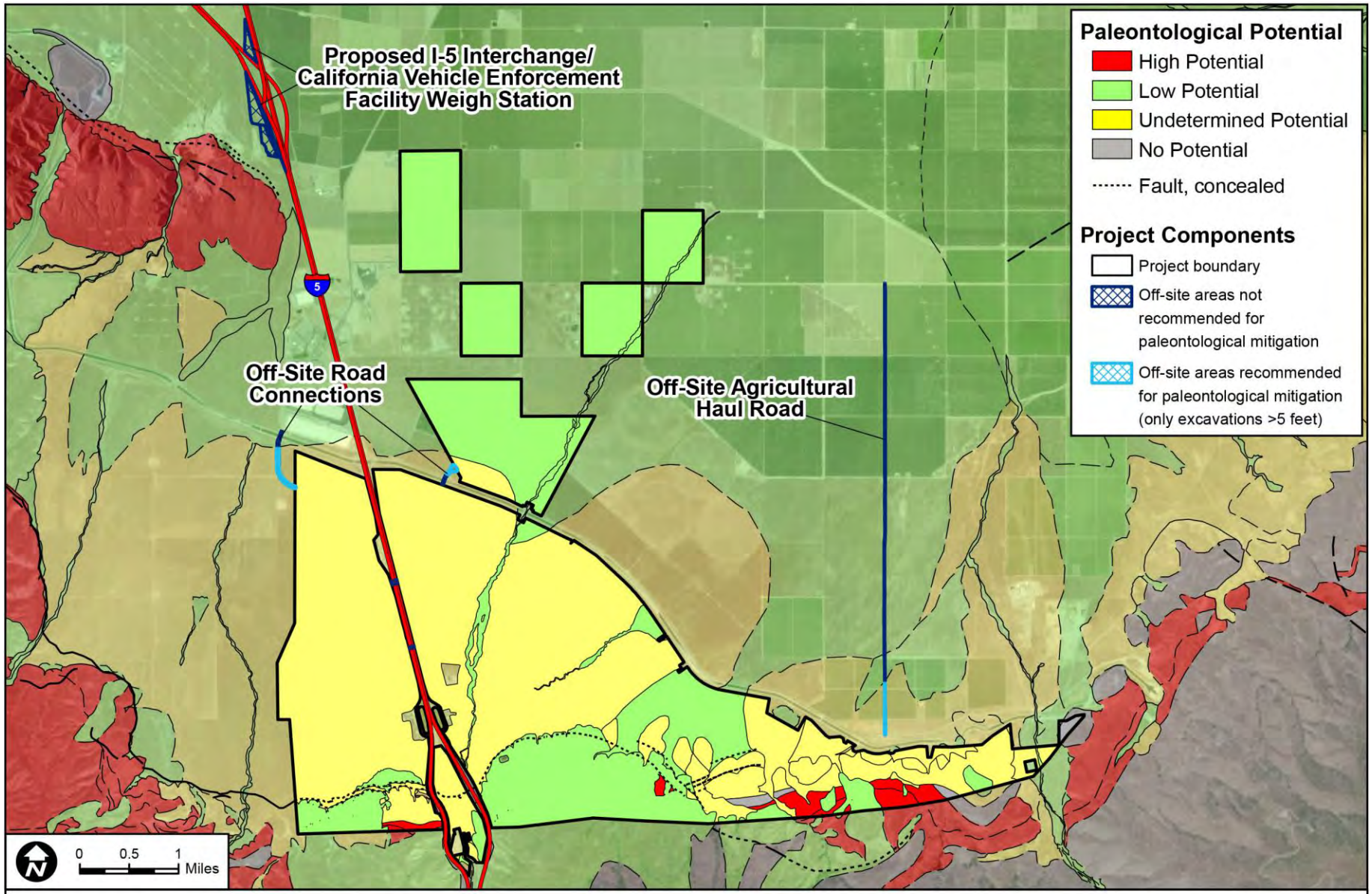
*Geology, as mapped by Lancaster et al., 2012, Dibblee and Minch 2005a; 2005b; and augmented by ENGEO et al., 2013

**Geology, as mapped by Lancaster et al., 2012, Dibblee and Minch 2005a; 2005b

FIGURE 1

Geologic Map

GRAPEVINE PROJECT, AMENDMENT



SOURCES: Bing Maps Aerial 2014; Dibblee and Minch 2005a; 2005b; ENGEO, Inc. 2013; Lancaster et al. 2012; McIntosh & Associates 2013; TRC 2013

FIGURE 2

Paleontological Potential Map

GRAPEVINE PROJECT, AMENDMENT

Appendix I

Geologic Constraints Analysis

GEOLOGIC CONSTRAINTS ANALYSIS

Grapevine Project

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ES EXECUTIVE SUMMARY

The proposed Grapevine Project is located in a region subject to geology and soils impacts that include earthquake fault rupture, strong seismic ground shaking, seismic ground failure, landslides, debris flows and collapsible soils. Project Design Features (PDFs) incorporated in the Planning Area design mitigate regional impacts from earthquake fault rupture, landslides and debris flows to less than significant levels. Other regional impacts including seismic ground shaking, seismic ground failure, collapsible and expansive soils will be mitigated to less than significant levels by appropriate project design and construction in conformance with the California Building Code (CBC) and applicable county ordinances.

1.0 INTRODUCTION

1.1 Purpose and Scope

This report provides a description of the geologic setting and CEQA constraints related to soils and geology for the proposed Grapevine project. Potential project constraints are mitigated by specific PDFs that are intended to reduce soil and geology impacts to less than significant levels.

1.2 Project Description and Project Design Features (PDFs)

1.2.1 Project Location

The proposed Grapevine project is located in the west-central portion of Tejon Ranch (the Ranch). The approximately 270,000-acre Ranch is currently held in private ownership by Tejon Ranchcorp. The Ranch includes a large portion of the Tehachapi Mountains as well as smaller portions of the San Joaquin and Antelope Valleys. Generally, the Ranch extends from Interstate 5 (I-5) on the western side to State Route 58 (SR 58) on the northern side and SR 138 on the southern side (Figure 1).

The 8,010-acre Grapevine project site is entirely within unincorporated Kern County, just south of the junction of I-5 and SR 99. Downtown Bakersfield is approximately 25 miles north of the project. The majority of the project is on the east side of I-5, but a smaller portion lies on the west side of I-5. The project site is bisected by the California Aqueduct (Figures 1and 2)

The Grapevine project site lies mainly in the Grapevine and Pastoria Creek U.S. Geological Survey (USGS) 7.5-minute quadrangles. There is one parcel and a portion of two other parcels in the project site that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57′9″ N and 118°55′39″ W. The Universal Transverse Mercator (UTM) coordinates for the approximate center are UTM Easting (meters) 323999 and UTM Northing (meters) 3869472 in Zone 11.

1.2.2 Project Overview

The 8,010-acre project site is within the 15,644-acre Grapevine Planning Area identified in the Tejon Ranch Land Use and Conservation Agreement, a landmark agreement reached in 2008 with leading environmental organizations (including the Sierra Club, Natural Resources Defense Council, California Audubon Society, Endangered Habitats League, and Planning and Conservation League) to permanently preserve over 90% of Tejon Ranch as open space and limit development to designated areas near existing infrastructure such as I-5. The precise boundaries of the 8,010-acre project site may be further adjusted based on the results of the ongoing environmental review and permitting process for the project, but will remain within the Grapevine Planning Area.

The Grapevine project site includes approximately 8,010 acres, of which approximately 3,232 acres (or about 40%) would be designated for agriculture (with grazing and open space as the predominant land uses) and approximately 4,778 acres (about 60%) would be developed as a new residential community and employment center. The community would leverage and build upon the economic expansion and job growth that has occurred at Tejon Ranch Commerce Center (Figure 1-2), located immediately north of the project on I-5. The Grapevine project would feature a series of compact neighborhoods linked by bicycle and pedestrian trails that provide convenient access to grocery and drugstores, professional services, schools, and parks. The project site is located along I-5, at the gateway to the Central Valley, and is immediately adjacent to the extensive open space that was conserved in the Tejon Ranch Land Use and Conservation Agreement.

The proposed project, which would include up to 12,000 residential units and 5,100,000 square feet of commercial land uses, is designed as a series of conveniently located village centers, each composed of a mix of housing, neighborhood-serving retail and office uses, schools, parks, and community services. Other potential public facilities, including a fire station, sheriff substation, transit facility/park-and-ride, and water and wastewater treatment facilities are proposed throughout the community.

Outside the village cores, the Grapevine project includes a mix of residential uses, office, research and development, regional commercial, freeway-oriented commercial and light industrial/warehouse uses.

Access to the first phases of the Grapevine community will be from Interstate 5 at the existing Grapevine Road and Laval Road interchanges. During later phases of development, the existing Grapevine Road/ Interstate 5 interchange may be expanded and relocated to the north. To allow for the relocation and replacement of the interchange, an existing Vehicle Enforcement Facility may be relocated to a TRC owned parcel on the west side of the junction of I-5 and CA-99. The

project would also improve an existing TRC agricultural road east of the project area to provide access for truck traffic currently using Edmonston Pumping Plant Road to travel to properties east of the project. The circulation network with in the project is composed of two- and four-lane arterials, collector streets, and local streets organized in a grid pattern. All roads within the project site will be public. Multipurpose trails are proposed along Grapevine Creek, Cattle Creek, the southern foothills, and the open space adjacent to the California Aqueduct and at other locations throughout the project site. Some of these trails would connect to on-street, Class 2 bike lanes. Water and sewer service will be provided by the Tejon–Castac Water District.

Project Design Features (PDFs). The project has been planned to avoid areas impacted by earthquake fault and landslide hazards. Debris flow hazards will be mitigated as part of the design of the stormwater control system. Therefore, impacts from these hazards will be less than significant. Other impacts from geology and soils will be mitigated by typical design and construction methods such as adherence to applicable California Building Code and County building code and grading ordinance requirements, and by proper geotechnical characterization and design.

- Figures 1 through 7 provide an overview of potential earthquake fault, landslide and debris flow impacts that are mitigated by PDFs.
- Other geology and soils impacts will be mitigated by proper site characterization, design and construction:

    a. Prior to approval of tentative maps, geotechnical site characterization studies will identify area subject to liquefaction, collapsible or expansive soils and provide appropriate recommendations for mitigation.

    b. Prior to issuance of grading permits, design-level geotechnical characterization studies will provide detailed geotechnical recommendations for project construction.

    c. Prior to issuance of building permits, building plans conforming with the CBC and applicable County building codes shall be prepared and submitted to the Kern County Building Department for review and approval.

2.0 SETTING

2.1 Geologic Setting

Physiography. The proposed Grapevine project is located at the southern end of the San Joaquin Valley (Figure 1) in the alluvial basin referred to as the Tejon Embayment. The southern end of the site extends from the valley floor approximately one-half mile into the adjacent San Emidgio and Tehachapi mountains. Tecuya, Grapevine and Pastoria Creeks issue from the mountains and have formed large alluvial fans that extend northward across portions of the Grapevine project.

Smaller alluvial fans have formed at the mouths of minor drainages. The valley portions of the project slope generally to north and northeast at gradients of approximately two to three percent. Incised creek channels on the surfaces of the major fans extend across the width of the project.

The California Aqueduct extends from west to east across the valley portion of the project from the existing Tejon Ranch Commerce Center (TRCC) to the mouth of Pastoria Canyon. The berm and channel of the Aqueduct form a barrier to north-south surface drainage except for a series of relatively small culverts/elevated flumes and wider at-grade channel crossings at Grapevine and Pastoria Creeks. Highway 5 extends across the western portion of the project from the TRCC to Grapevine Canyon. The channel of Grapevine Canyon crosses under the highway embankment near the canyon mouth via a relatively small box culvert.

Regional Faulting and Seismicity. The San Andreas and Garlock faults intersect about eight miles south of the site near Frazier Park, as shown on Figure 3. At the intersection, a westward bend in San Andreas fault has created a zone of north-south compression resulting in the uplift of the Transverse Ranges. In the Grapevine area, the compression is accommodated by the south-dipping Pleito and Wheeler Ridge thrust faults, located at the base of the San Emidgio/Tehachapi Mountains, and under Wheeler Ridge. The Pleito thrust fault surfaces within the project at the base of the ranges, while the Wheeler Ridge thrust is believed to be a predominantly “blind”, subsurface fault. Wheeler Ridge, located northwest of the site, is underlain by an active anticlinal fold developed over the subsurface thrust fault. The axis of the Wheeler Ridge anticline extends east of the topographic ridge and onto the northern site parcels, approximately under the location of the Tejon oil field. The Pleito and Wheeler Ridge thrust faults may be structurally interconnected at depth (Hall, 1984). The left lateral/reverse White Wolf fault is located about 4 miles north of the site. Figure 3 shows the locations of major faults in the region as well as epicenters of moderate to large historical earthquakes. A summary of active faults in the immediate region surrounding the site is given in Table 1 below (distances measured from the center of the project).

TABLE 1
Active Faults*

Fault Name	Approx Distance from Site (miles)	Slip Rate (Mm/Yr)	Displacement Style	Probable Magnitudes (M_w)
GARLOCK	8	2 - 11	STRIKE-SLIP	6.8 - 7.6
SAN ANDREAS	9.5	34	STRIKE-SLIP	8.1
PLEITO THRUST	Onsite	1.4	THRUST	6.3 - 7.3
WHITE WOLF	6.5	3 - 8.5	REVERSE	6.5 - 7.5
WHEELER RIDGE THRUST	Onsite (Subsurface)	__	THRUST	6.0 - 7.1

*Source: Southern California Earthquake Center (http://www.data.scec.org)

GEOLOGIC CONSTRAINTS ANALYSIS

The M~7.9 1857 Fort Tejon Earthquake occurred on the adjacent segment of the San Andreas fault. Shaking in the Fort Tejon area was described as very strong to violent. The White Wolf fault was responsible for the destructive Mw 7.5 Kern County earthquake that occurred on July 21, 1952. A Mw 5.2 earthquake occurred in June 1988 on a undetermined fault 33 miles south southeast of Bakersfield. The active Pleito, Wheeler Ridge and Garlock faults have not ruptured during historic times but are capable of producing large damaging earthquakes. The Springs fault located approximately a mile northeast of the site is not currently zoned as an earthquake hazard zone under the Alquist-Priolo Earthquake Hazard Zone mapping program, and according to the USGS Quaternary Fold and Fault Database (QFFD), is considered to be of Quaternary (1.6 million years or younger) age.

Pleito Thrust Fault The surface trace Pleito thrust fault forms a prominent fault scarp at the base of the range front west of Highway 5 in Late Pleistocene to Holocene-age alluvium. This area was intensively studied by Hall (1984), who concluded that the fault might have ruptured as recently as between 345 and 1,465 years ago. Based on trench studies and radiocarbon dating, Hall estimated an earthquake recurrence interval of 500 to 600 years.

Across the mouth of Grapevine Canyon, the Pleito fault scarp curves to the south under the highway. Immediately east of the highway, the surface trace of the fault becomes obscured as it crosses the toe of a massive landslide complex. Approximately 2 miles east of the highway geologic mapping by Dibblee (1973) shows the surface fault trace turning to the south into the mountain front.

The Pleito thrust is considered an active fault by the State of California Geological Survey (CGS). The State earthquake fault zone extends from the west side of the project a point about one and one-quarter mile east of the Highway 5. The evidence for active surface faulting beyond that point was not sufficiently well defined to establish the fault location, according to CGS criteria. The fault traces mapped by Hall (1984) and the State, and the State fault zone are depicted on the fault constraints layers. The USGS Quaternary Fold and Fault Database (QFFD) shows a possible active (Holocene) fault trace extending approximately one and one-quarter miles east of the State zone

For this study, we closely examined the area immediately beyond the east end of the State zone using stereographic aerial photographs and aerial imagery available online. We also performed a geologic field reconnaissance of the area. We noted a series of possible fault scarps and side hill benches at the range front approximately parallel to the trace of Pleito fault mapped by Dibblee (1973) (depicted on fault constraint layer). East of the Dibblee trace, the alluvial fan at the mouth of the canyon appears to be offset by at least one northeast-trending fault. South of and upslope from that fault, there are a series of benches on the fan surface that may be evidence of additional fault traces. Immediately east of the canyon mouth, a possible fault scarp at the base of an

uplifted Pleistocene alluvial terrace extends for about another ½ mile to the northeast. This feature approximately coincides with the possible Holocene fault trace shown in the QFFD. Based on our observations, we have mapped a series of likely active fault traces east of the State zone as depicted on the fault constraints layers. We defined a fault hazard zone with a width of 500 feet around the fault traces we identified for this study, consistent with the dimensions of the State zone to the west. We did not observe evidence of active surface faulting east of the proposed hazard zone.

A study by Goodman and Malin (1992), based on reinterpretation of regional mapping, seismic survey data and oil well logs, concluded that blind segments of the Pleito thrust might exist under the valley alluvium east of the mapped surface traces, extending well east of Pastoria Creek. However, these possible subsurface traces do not pose a risk of surface fault rupture at the Grapevine project.

Wheeler Ridge Thrust Fault. As described above, the Wheeler Ridge thrust fault is believed to be a predominantly subsurface fault. However, on the Alquist-Priolo Earthquake Fault Zone map for the Mettler Quadrangle, the CGS (Smith, 1984) depicts a series of surface fault traces along the northern margin of Wheeler Ridge. The surface fault traces are shown to terminate approximately 1¼ miles west of the Grapevine project boundary, and the State Earthquake Fault Zone does not extend within the limits of the project. The subsurface Wheeler Ridge fault underlies the western portion of the Grapevine project.

Stratigraphy Bedrock formations in the Grapevine project area have been mapped by a number of sources, including Dibblee (2005), Bartow and Dibblee, (1981) and Goodman and Malin (1992). For bedrock units, we have used the terminology of Dibblee (2005) The surficial deposits terminology is based on site-specific mapping. Mapped geologic units are summarized in Table 2

TABLE 2
Stratigraphy

Geologic Unit	Age	Description
Wash Deposits (Qw)	Historic	Sands and gravels in active channels
Qhaf1-Qhaf2	Holocene-Historic	Young alluvial fan deposits; consisting of mixed sands, silts and gravel.
Qhaf3	Latest Pleistocene-Holocene	Alluvial fan deposits, including the large fans deposited by Tecuya, Grapevine and Pastoria Creeks. May include recent coarse debris flow deposits. Typically incised on upper portions of fans. Consists of boulder and cobble gravel, and fine gravel interbedded with sand and silt layers. Lower portions of larger fans include relatively young, sandy to silty sediments.
Qpf1	Pleistocene	Alluvial fan deposits deposited at the mouths of canyons. Several fans include debris-flow boulder deposits. Fan surfaces are slightly elevated and moderately to deeply incised. Consists of boulder and cobble gravel interbedded with sands. Locally uplifted and deformed by active faults.

Geologic Unit	Age	Description
Qpf2	Pleistocene	Alluvial gravel deposits; elevated and eroded remnants of alluvial fans, estimated to be Pleistocene age, found as uplifted terraces at the range fronts... Consists of boulder and cobble gravel, interbedded with sand.
Qls1	Historic	Recently active landslides
Qls2-Qls3	Historic? To Holocene	Landslides estimated to be of historic to Holocene age
Qls4	Holocene to Pleistocene?	Possible landslide deposits
Bena Conglomerate (Tbc)	Miocene	Alluvial cobble conglomerate composed of granitic detritus
Volcanic rocks (Tvb)	Miocene	Volcanic rocks including basalt, diabase and andesite
Tecuya Formation (Ttc)	Oligocene	Nonmarine sandstone, cobble and boulder conglomerate
Tejon Formation	Miocene	Marine sandstone and shale
Quartz diorite (qd)	Cretaceous	Quartz diorite (granitic rock) Cretaceous age, gneissiod

Bedrock The northern portions of the San Emidgio and Tehachapi mountains are underlain granitic bedrock mapped as foliated “gneissoid” quartz diorite by Dibblee (1973). The quartz diorite outcrops mainly on the mountain slopes south of the project, and at depths of several hundred to thousands of feet below the project. At the range front along most of the southern project limits, the granitic rocks are involved in massive-deep-seated land sliding described below. The granitic basement is overlain by sedimentary and volcanic rocks of Eocene to Miocene age. The sedimentary and volcanic rocks outcrop at the base of the range front and extend into the basin to the north, below the valley floor alluvium. They have been tilted and folded by the tectonic uplift of the range such that they are locally inclined near vertical or overturned.

Alluvium The valley portions of the site are underlain by alluvial fan sediments that are several hundred feet thick near the northern site boundary (Croft, 1973). The alluvial deposits decrease in thickness to the south, where they eventually terminate at the range front. The alluvium ranges in age from historic in and around active stream channels to Late Pleistocene or older age. The major fans of Tecuya, Grapevine and Pastoria Creeks are likely of latest Pleistocene to Holocene age (Hall, 1986). Older alluvial fan deposits near the range front are typically incised and have locally been faulted and uplifted by the Pleito thrust fault. Alluvial gravel terraces (likely uplifted and eroded remnants of old alluvial fans) occur at the range front and on elevated benches.

The alluvium typically consists of interbedded coarse-grained gravel and sand near the heads of alluvial fans and decreases in grain size to interbedded sands, silts and gravels to the north. There are deposits of granitic boulders up to several feet in diameter on the upper portions of several

alluvial fans, extending as far as 1½ miles from the range front. These boulder deposits were formed by powerful debris flows that originated in the upper portions of the canyons above the fans.

For this study, alluvial fan deposits were mapped based on elevation relative to modern channels and floodplains, degree of incision and relative soil development in accessible exposures. The mapping terminology was modified from regional mapping of Quaternary deposits completed by the California Geological Survey (Bedrosian, et. al., 2012). The purpose of the mapping was to establish likely relative ages and depositional processes that will be useful in classification of geologic constraints such as compressibility and debris flow hazards. An explanation of mapped units is presented in Table 2.

Landslides The northern flanks of the San Emidgio and Tehachapi mountains are mantled by very large, deep-seated landslide complexes that extend across most of the range front, as evidenced by numerous arcuate headscarps and hummocky topography. The landslide complexes include many individual segments that appear to be of differing ages based on geomorphic expression. The most active landslides are small-to medium-sized earthflows and debris flows. The larger landslides appear to be combinations of very deep rotational slumps and earthflows. Some headscarps are several hundred to over 1,000 feet in height, and the larger complexes are more than a mile in width and length, suggesting that they extend to great depth. Exposures of slide debris in road cuts along Highway 5 and in canyon walls consist of chaotic mixtures of boulders and soil-like bedrock debris. It appears likely that the landslide complexes also include very large blocks of quartz diorite and sedimentary rocks.

Landslides depicted on the constraint layers have been categorized by relative geomorphic expression. Recently active landslides (Qls1) have relatively fresh-appearing margins and are likely to have moved within the last several decades. Landslides designated Qls2 have very distinct margins and hummocky topography, suggesting that they have been active in the relatively recent past. Landslides designated Qls3 are more subdued and locally incised suggesting greater age than Qls1-2 but still show distinct landslide geomorphology. Possible landslides are mapped as Qls4.

Surficial Soils According to the National Resources Conservations Service ((NRCS) Soil Survey maps of the project are, the surficial soils consist mainly of gravelly sandy loam, sandy loam and loamy sand, with lesser areas of sandy clay to gravely clay loam. The NRCS soil survey map is depicted on Figure 8.

2.2 Regulatory Setting

2.2.1 State

- **The California Code of Regulations, Title 24 (California Building Code)** applies to all applications for residential building permits. The California Building Code (also called the California Building Standards Code) has incorporated the Uniform Building Code (first enacted by the International Conference of Building Officials in 1927 and updated approximately every 3 years since that time). The current version of the California Building Code became effective in 2014. Local agencies must ensure that development in their jurisdictions complies with guidelines contained in the California Building Code. Cities and counties can, however, adopt building standards beyond those provided in the code.

- **The Alquist-Priolo Earthquake Fault Zoning Act** was passed in 1972 to mitigate the hazard of surface faulting on structures for human occupancy. Under the Alquist-Priolo Act, the California state geologist identifies areas in the state that are at risk from surface fault rupture. The primary purpose of the Alquist-Priolo Act is to prevent the construction of buildings used for human occupancy on the surface trace of active faults An active fault is defined by the State Mining and Geology Board (SMGB) as one which has "had surface displacement within Holocene time (about the last 11,000 years)." The Geological Survey (CGS), previously known as the California Division of Mines and Geology (CDMG), has compiled Special Publication 42 – Fault Rupture Hazard Zones in California, (Alquist-Priolo Earthquake Zoning Act with Index to Earthquake Fault Zones Maps (CGS, 2007) that delineates and defines active fault traces and zones that require specific studies to address rupture hazards with respect to "structure[s] for human occupancy." CGS (2002), Note 49, Guidelines for Evaluating the Hazard of Surface Fault Rupture, is intended as a guideline to assist geologists that conduct fault studies in delineated Earthquake Fault Zones. The maps are distributed to all affected cities, counties, and state agencies for their use in planning and controlling construction. Local agencies must regulate most development projects within the zones. Projects include all land divisions and most structures for human occupancy. Local agencies can be more restrictive than state law requires (California Geological Survey 2005a). A portion of the Pleito Thrust Fault within the project limits is has been zoned by the state as an active fault as shown on Figure 5.

- **The Seismic Hazards Mapping Act of 1990** was enacted in order to "protect the public safety from effects of strong ground shaking, liquefaction, landslides, or other ground failure, and other hazards caused by earthquakes". The CGS has issued Special Publication 117A – Guidelines for Evaluating and Mitigating Seismic Hazards in

California (CGS, 2008) which mandates that site-specific evaluations must be performed in order to address seismic hazards. Currently, the seismic ground motions for analyses are based on the ASCE 7-10 ground motion parameters and the 2013 CBC.

- **State Water Resources Control Board (SWRCB)**

2.2.2 Kern County

- **Kern County Multi-Hazard Mitigation Plan.** The 2005 Kern County Multi-Hazard Mitigation Plan (MHMP) describes natural hazards and impacts (including those resulting from earthquakes, landslides, and soil hazards) that threaten communities, and establishes mitigation goals and strategies. Information contained in the KCMHMP could also be used to help guide and coordinate mitigation activities and local policy decisions for future land use decisions. The KCMHMP divides the County into three regions, Valley, Mountain, and Desert. The Planning Area is located within the both the Valley and Mountain regions.

- **Hillside Development Chapter, Kern County Code Chapter 19.88.** The purpose of the Hillside Development Chapter is to provide for the reasonable use of hillsides and mountainous areas while protecting the public health, safety, and welfare by ensuring that development would not induce soil erosion, result in excessive grading, create sewage disposal problems, increase wildfire danger and slope instability, or lead to a loss of aesthetic value. This chapter sets specific standards and regulations for all grading and development of slopes exceeding 30 percent average natural slope. It is applicable to all development in any zoning district on parcels designated Steep Slope (Map Code 2.4) by the Kern County General Plan**.**

- **Grading Code, Kern County Code Chapter 17.28.** The purpose of the Kern County Grading Code is to safeguard life, limb, property, and the public welfare by regulating grading on private property.

  The Grading Code controls excavation, grading, and earthwork construction, including fills and embankments. It establishes the administrative procedure for issuance of permits and provides for approval of plans and inspection of grading construction.

- **Kern County General Plan.** The Kern County General Plan identifies the federal, State, and local statutes, ordinances, or policies that govern hazard mitigation planning that must be considered by Kern County during the decision-making process for any project that could affect, or be affected by, geology, soils, and seismic-related hazards.

LAND USE, OPEN SPACE, AND CONSERVATION ELEMENT

1.3 Physical and Environmental Constraints

Goal. To strive to prevent loss of life, reduce personal injuries, and property damage, minimize economic and social diseconomies resulting from natural disaster by directing development to areas, which are not hazardous.

Policy 1. Kern County will ensure that new developments will not be sited on land that is physically or environmental constrained [Map Codes 2.1-2.11] to support such development unless appropriate studies establish that such development will not result in unmitigated significant impact.

Policy 2. In order to minimize risk to Kern County residents and their property, new development will not be permitted in hazard areas in the absence of implementing ordinances and programs. These ordinances will establish conditions, criteria, and standards for the approval of development in hazard areas.

Policy 3. Zoning and other land use controls will be used to regulate and, in some instances, to prohibit development in hazardous areas.

Policy 4. Special requirements will be applied to new housing within recently active fault zones.

Policy 5. New residential uses in fault zones should be limited to single-family housing units.

Policy 6. Regardless of percentage of slope, development on hillsides will be sited in the least obtrusive fashion, thereby, minimizing the extent of topographic alteration required and reducing soil erosion while maintaining soil stability.

Policy 7. Ensure effective slope stability, wastewater drainage, and sewage treatments in areas with steep slopes are adequate for development.

Implementation Measure A. Adopt requirements and procedures in zoning, subdivision, and site development regulations and building criteria for Seismic Hazard designated areas.

Implementation Measure B. A seismic analysis may be required for those areas in Kern County, which are susceptible to landslides.

Implementation Measure D. Review and revise the County's current Grading Ordinance as needed to ensure that its standards minimize permitted topographic alteration and soil erosion while maintaining soil stability.

Implementation Measure E. Development proposed in areas with steep slopes (Map Code 2.4) will be reviewed for conformity to Chapter 19.88 Hillside Development Ordinance or Chapter 19.52 Special Planning (SP) District to ensure that appropriate soil stability, drainage, and sewage treatment will result.

Implementation Measure N. Applicants for new discretionary development should consult with the appropriate Resource Conservation District and the California Regional Water Quality Control Board regarding soil disturbances issues.

1.9 Resource

Policy 11. Minimize the alteration of natural drainage areas. Require development plans to include necessary mitigation to stabilize runoff and silt deposition through utilization of grading and flood protection ordinances.

1.10 General Provisions

Policy 2. Densities specified in the map provisions are maximums and may be reduced if it is determined that such reduction is warranted by conditions specifically applicable to the site, such as geological and flood hazards, shallow groundwater, steep slopes, significant wildlife habitat, or botanical communities.

SAFETY ELEMENT

4.2 General Policies and Implementation Measures, Which Apply to More Than One Safety Constraint

Goal 1. Minimize injuries and loss of life and reduce property damage.

Goal 2. Reduce economic and social disruption resulting from earthquakes, fire, flooding, and other geologic hazards by assuring the continuity of vital emergency public services and functions**.**

Goal 3. Assist in the allocation of public resources in Kern County to develop information regarding geologic, fire, and flood safety hazards and to develop a systematic approach toward the project of public health, safety, and welfare from such hazards.

Goal 4. Create an awareness of the residents in Kern County through the dissemination of information about geologic, fire, and flood safety hazards."

Policy 1. That the County's program of identification, mapping, and evaluating the geologic, fire, flood safety hazard areas, and significant concentrations of hydrogen sulfide in oilfield areas, presently under way by various County departments, be continued.

Policy 2. Those hazardous areas, identified as unsuitable for human occupancy, are guided toward open space uses, such as agriculture, wildlife habitat, and limited recreation**.**

Policy 3. That the County government encourage public support of local, State, and federal research programs on geologic, fire, flood hazards, valley fever, plague, and other studies so that acceptable risk may be continually reevaluated and kept current with contemporary values**.**

Policy 4. The County shall encourage extra precautions be taken for the design of significant lifeline installations, such as highways, utilities, and petrochemical pipelines.

Policy 5. The adopted Kern County, California Multi-Hazard Mitigation Plan is incorporated by reference. This multi-jurisdictional plan, approved in compliance with the "Disaster Mitigation Act of 2000, provides long-term planning to reduce the impacts of future disasters."

Implementation Measure A. All hazards (geologic, fire, and flood) should be considered whenever a Planning Commission or Board of Supervisor's action could involve the establishment of a land use activity susceptible to such hazards**.**

Implementation Measure B. The Safety Element should be reviewed and comprehensively revised every five years, or whenever substantially new scientific evidence becomes available**.**

Implementation Measure C. Require detailed site studies for ground shaking characteristics, liquefaction potential, dam failure inundation, flooding potential, and fault rupture potential as background to the design process for critical facilities under County discretionary approval**.**

Implementation Measure D. Require seismic review prior to major addition, renovation, or increase in occupancy of buildings.

Implementation Measure E. The adopted multi-jurisdictional Kern County, California Multi-Hazard Mitigation Plan, as approved by FEMA, shall be used as a source document for preparation of environmental documents pursuant to CEQA, evaluation of project proposals, formulation of potential mitigation, and identification of specific actions that could, if implemented, mitigate impacts from future disasters and other threats of public safety**.**

4.3 Seismically Induced Surface Rupture, Ground Shaking, and Ground Failure

Policy 1. The County shall require development for human occupancy to be placed in a location away from an active earthquake fault in order to minimize safety concerns.

Implementation Measure A. Known geologic hazards within the area of a proposed subdivision should be referenced on the final subdivision map.

Implementation Measure B. Require geological and soils engineering investigations in identified significant geologic hazard areas in accordance with the Kern County Code of Building Regulations.

Implementation Measure C. The fault zones designated in the Kern County Seismic Hazard Atlas should be considered significant geologic hazard areas. Proper precautions should be instituted to reduce seismic hazard, whenever possible in accordance with State and County regulations.

Implementation Measure D. Detailed geologic investigations shall be conducted in conformance with guidelines of the California Geological Survey for all discretionary permits and construction designed for human occupancy in an Alquist-Priolo Earthquake Fault Zone.

Implementation Measure E. Revise building codes and zoning ordinances to prohibit construction of buildings for human occupancy within 50 foot of the trace of an active fault. For critical facilities, the setback should be at least 300 feet.

Implementation Measure F. Reflect the location of active faults in zoning and subdivision approvals, through low-density zoning designations, and through locations of lot lines and public ways to allow adequate flexibility in placement of buildings, such that active fault traces can be avoided.

Implementation Measure G. Route major lifeline components such as highways, utilities, petroleum or chemical pipelines around areas of high groundwater whenever possible. Where they must cross an area of high groundwater, plans and permits shall require design features to accommodate extensive ground rupture without prolonged disruption of an essential service or threat to health and safety.

Implementation Measure H. Require that plans and permits for installation of major lifeline components such as highways, utilities, petroleum or chemical pipelines incorporate design features to accommodate potential fault movement in areas of active faults without prolonged disruption of essential service or threat to health and safety.

Implementation Measure Y. Design significant lifeline installations, such as highways, utilities, and petrochemical pipelines which cross an active fault, to accommodate potential fault movement without prolonged disruption of essential service or creating threat to health and safety.

Implementation Measure J. Update the County's Seismic Hazard Atlas as necessary.

Implementation Measure K. Encourage and support local, State, and federal research programs for delineation of geologic and seismic hazards so that acceptable risk may be continually re-evaluated and kept current with state-of-the-art information and contemporary values**.**

Implementation Measure L. Require seismic review prior to major addition, renovation, or increase in occupancy of buildings.

4.5 Landslides, Subsidence, Seiche, and Liquefaction

Policy 1. Determine the liquefaction potential at sites in areas of shallow groundwater (Map Code 2.3) prior to discretionary development and determine specific mitigation to be incorporated into the foundation design, as necessary, to prevent or reduce damage from liquefaction in an earthquake.

Policy 2. Route major lifeline installations around potential areas of liquefaction or otherwise protect them against significant damage from liquefaction in an earthquake.

Policy 3. Reduce potential for exposure of residential, commercial, and industrial development to hazards of landslide, land subsidence, liquefaction, and erosion.

Implementation Measure B. Require liquefaction investigations in all areas of high groundwater potential and appropriate foundation design to mitigate potential damage to buildings on sites with liquefaction potential**.**

Implementation Measure C. Develop and maintain maps, at an appropriate scale, showing the location of all geologic hazards, including active faults, Alquist-Priolo Earthquake Fault Zones, 100-year flood hazard boundary, the extent of projected dam failure inundation and time arcs, depth of inundation, land subsidence, slope failure and earthquake-induced landslides, high groundwater, and liquefaction potential.

Implementation Measure D. Discretionary actions will be required to address and mitigate impacts from inundation, land subsidence, landslides, high groundwater areas, liquefaction and seismic events through the CEQA process. County general plan policies and ordinances that apply**.**

3.0 IMPACT ANALYSIS

3.1 Thresholds of Significance

Based on the Kern County CEQA Implementation Document and Kern County Environmental Checklist, the Grapevine project would have a significant impact related to geology and soils if it would:

3.1.1 Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the state geologist for the area or based on other substantial evidence of a known fault.

3.1.2 Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking.

3.1.3 Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction.

3.1.4 Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving landslides.

3.1.5 Result in substantial soil erosion or the loss of topsoil.

3.1.6 Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse.

3.1.7 Be located on expansive soil, as defined in Table 18-1-B of the California Building Code (2013), creating substantial risks to life or property.

3.2 Project Design Features

Project Design features relevant to Geology and Soils include:

3.2.1 Avoidance of landslide areas and active fault zones. Require focused geotechnical studies where project improvements are proposed in close proximity to mapped surface fault rupture or landslide hazards.

3.2.2 Design of storm drain facilities to mitigate debris flow hazards.

3.2.3 Design project in accordance with applicable State land local building codes, the State Water Resources Control Board (SWRCB) and County Grading ordinance.

3.3 Study Assumptions

3.3.1 The geology and soils impacts were compiled from published sources (listed in the References) and based on site-specific mapping from aerial images and from field reconnaissance. The compiled geologic mapping is depicted on Figure 5. Figures 6 and 7 present site-specific geology and soils impacts interpreted from the compiled geologic map. Figure 8 depicts surficial soils as mapped by the NRCS

3.4 Impact Assessment

3.4.1 Existing (Pre-PDF) Impacts:

- **Earthquake fault Rupture (Threshold 3.1.1)**. The active Pleito fault passes through the planning area, as shown on Figure 6. Portions of the Pleito fault are designated as active by the State and provided with an Earthquake Fault Zone. The limits of the State Earthquake Fault Zone are defined approximately 500 feet from active fault traces. ENGEO identified additional possible active fault traces east of those mapped by the State, depicted on Figure 6. For project planning purposes, ENGEO designated 500-foot-wide fault buffer zones around these traces, extending east from the State Zone. Surface fault rupture could occur on the site directly over or close to the surface traces of the Pleito Fault. During the 1952 Kern County earthquake, the valley surface north of the fault developed a complex pattern of ground cracking near the buried trace of the White Wolf fault interpreted to be “lurch cracks” related to areas of very strong ground shaking rather than surface fault rupture (Buwalda, 1955). No such ground fracturing was noted within the project area. However, it should be expected that distributed secondary ground cracking could occur within the buffer zones some distance from the mapped surface fault traces.

- **Strong seismic ground shaking (Threshold 3.1.2).** Given the high seismicity of the southern San Joaquin Valley region, moderate to severe ground shaking associated with earthquakes on the nearby faults can be expected within the Planning Area and throughout Kern County. Strong ground motion within the Planning Area would likely be the result of movement along the Pleito, Wheeler Ridge, White Wolf, Garlock or San Andreas faults.

- **Seismic-related ground failure, including liquefaction (Threshold 3.1.3).** Liquefaction typically occurs when seismic cyclic shear stresses within loose, saturated granular soil layers cause the collapse of loose granular soil structure, increasing soil pore water pressure and decreasing soil strength. The increased pore water pressure can locally cause soil to behave like a viscous fluid, and be ejected at the ground surface, forming sand

boils or mud spouts. The surface effects of liquefaction can cause structural distress or failure due to ground settlement, lurching, loss of bearing capacity in the foundation soils, and the buoyant rise of buried structures or utilities, and development of lateral spreads.

Liquefaction can only occur in saturated soil layers. According to URS (2001), borings completed at the Pastoria power plant site encountered unsaturated dense to very dense very coarse-grained (predominantly gravelly coarse-grained sands) to depths of 100 feet. According to DWR Bulletin 118 (2010), groundwater near the center of the Tejon Embayment was at 500 to 600 feet below ground surface in 2010. According to URS (2001), a well monitored by the California Department of Water Resources (CDWR, 1999) located about 5 miles west of the power plant site (State Well Number 10N19W08A01S) indicates that water table is more than 1,000 feet below ground surface. Based on the available information, it appears that groundwater across most of the site is too deep for liquefaction to occur. It is possible that localized areas of potentially liquefiable soil could occur in perched groundwater zones at the mouth of flowing creeks. However, the overall site liquefaction hazard is judged to be low.

Loose, high void ratio sand deposits above the water table can be subject to another form of seismic ground failure known as seismically induced densification when subjected to seismic shaking. In an earthquake event, the structure of the loose sand is disturbed by repeated cyclic shear loading and the sand particles tend to move into void spaces to a more stable position, resulting in vertical settlement. In general, seismic densification hazards are most likely to occur in relatively young, near-surface fine-grained alluvium deposits that will also be subject to collapse hazards, as described below.

- **Landslides and debris flows (Threshold 3.1.4).** Landslide hazards are confined to the sloping ground at the southern edge of the site as shown on Figure 6. Landslide movement could be triggered by seasonal heavy rains, by seismic ground shaking or a combination of both and could result in large vertical and horizontal ground displacements. Landslides that become reactivated are likely to shed large earthflows and debris flows to the toe of the mountain front and adjacent land.

  Debris flow hazards are present to a variable degree within the Planning Area as depicted on Figure 6. The highest-level debris flow hazards occur at the mouths of incised alluvial fan channels near the range front. The debris flow hazard potential at the site has been greatly modified by the construction of the embankments and channel of the California Aqueduct and embankments for Highway 5. Grapevine Creek is constricted by a relatively small culvert passing under Highway 5. Similar constrictions occur all along the aqueduct. Is appears unlikely that large and highly destructive debris flows could pass these constrictions. The hazard of large, boulder-laden and highly destructive debris

flows remains high in areas east of the Grapevine fan and south of the aqueduct, as well as in the lower-lying areas west of the highway on the Tecuya Creek fan. Areas on major fans that are more distant from the range front or are located behind impediments such as the aqueduct or the highway, but that may still be subjected to sediment-laden stream flows are designated as medium debris flow hazard. These include portions of FEMA flood plains north of the aqueduct downstream from at-grade stream crossing at Grapevine Creek. Other valley areas are designated as low hazard areas.

- **Erosion and loss of topsoil (Threshold 3.1.5).** Most of the project area is covered by sandy to loamy soils (Figure 8). These soil types are subject to erosion of they are exposed in unprotected steep slopes or if exposed to concentrated surface water flows, such as in existing natural stream channels or in constructed surface drainage channels.

- **Lateral Spreading, Subsidence and Collapsible soils (Threshold 3.1.6).** As described above in "Seismic-related ground failure, including liquefaction", the overall site liquefaction hazards are low due to the absence of shallow groundwater. Therefore, the hazards of lateral spreading for the site is judged to be low.

- Past pumping of groundwater has resulted in significant subsidence of up to about 4 feet north of Wheeler Ridge as documented by Lofgren (1975). Subsidence from groundwater withdrawal has not been documented in the immediate site vicinity. Lofgren noted that some of the observed subsidence was from pumping of petroleum, but concluded that it was likely an order of magnitude less (in the range of 0.15 to 0.3 feet) than subsidence from groundwater withdrawal. The area of greatest subsidence occurred near the town of Mettler where groundwater was intensively pumped from very thick deposits of alluvium north of the White Wolf Fault. As described above, the alluvium below the site is much thinner than in areas north of the subsurface White Wolf fault, and groundwater is deep below the surface. Based on the available information, it appears that subsidence from pumping of groundwater or petroleum is unlikely to be a project constraint.

  The youngest deposits of alluvium in the valley areas of the Planning Area were rapidly deposited in generally sub-arid conditions and have remained unsaturated since deposition. This type of deposition can produce low-density soils with weak clay cementation that are subject to collapse settlement when they are re-wetted or subjected to overburden stress caused by placement of fills and foundation loads (CDWR, 1972, Lofgren, 1975, Knodel, 1981). Settlements from collapsible soils can be relatively large and damaging to improvements. At the time of this study, site-specific subsurface geotechnical data is not available for most of the project area. Estimation of the collapse potential of the alluvial soils is therefore based on inference from limited data from the California Aqueduct, the Pastoria power plant and from the TRCC.

Soils with a potential for collapse were identified along the route of the California Aqueduct by the CDWR, (CDWR, 1972, Lofgren, 1975), including an area at the west side of the project near the TRCC. The CDWR pre-flooded sections of the canal alignment prior to construction to mitigate collapsible soil potential under the canal. North and south of Wheeler Ridge, some ponds constructed for pre-flooding subsided between 0.5 and 1.75 feet when water was added. Other ponds in those areas subsided very little (less than 0.2 feet) illustrating the variability of collapse that can occur in a collapse-prone area (CDWR, 1972). According to the CDWR (1972), no other area of pre-flooding along the canal route between Wheeler Ridge and the Edmonston Pumping Plant, experienced as much as 0.2 foot of collapse.

Geotechnical studies for the TRCC encountered collapsible soils in the shallow subsurface, typically consisting of loose silty sands (Soils Engineering Inc., 1999, 2001). They made recommendations to mitigate the condition by removal and re-compaction the upper 3 to 8 feet of native soil.

We classified collapsible soil hazards for the Planning Area (shown on Figure 7) based on the relative age and topographic position of fan deposits. Stream exposures in the older, incised upper portions of fans typically consist of relatively dense, coarse gravely soils. Explorations at the Pastoria power plant found that the coarse-grained alluvium in the Pastoria Creek fan was dense to very dense and not subject to collapse (URS, 2001). Younger, finer-grained and potentially more collapsible soils are more likely to occur at lower elevations between the major fans. These areas are classified as having a potentially high collapse potential Soils in this category should be expected to require some form of mitigation, such as removal and replacement of upper soil layers or pre-soaking, for any improvements that are sensitive to settlement effects. Alluvial soils on the large Holocene fan deposits (such as the Tecuya Creek and Grapevine Creek and Pastoria Fans) are classified as having a medium collapse potential. It should be expected that these deposits could locally contain layers that are subject to collapse, especially at shallower depths. Older fan deposits are likely to have a low susceptibility to collapse

As described above the overall site liquefaction hazard is judged to be low. Lateral spreading hazards can only occur where relatively extensive deposits of liquefiable soil are present. Therefore, the lateral spread hazards at the site are judged to be low.

- **Expansive Soils (Threshold 3.1.7).** Based on our site reconnaissance and review of available data, it appears that the alluvial soils at the Grapevine project consists mainly of sandy to gravelly material that is of low plasticity and generally non-expansive. Local areas of more expansive soils may occur in the upland areas or as isolated pockets in the valley areas

3.4.2 Post-PDF impacts

- **Earthquake fault rupture (Threshold 3.1.1).** Development in the Planning Area has been configured to avoid earthquake fault rupture hazards by staying a minimum of 500 feet from active fault traces identified by the State and by site specific mapping. If project improvements sensitive to ground rupture or habitable structures are proposed east of the mapped termination of the surface traces of the Pleito Fault, focused fault investigations will be performed to ensure that improvements are located away from surface rupture hazards. The impact from earthquake fault rupture will therefore be less than significant.

- **Strong seismic ground shaking (Threshold 3.1.2).** Seismic ground shaking hazards in the State of California are mitigated by designing and constructing projects in accordance with the CBC and applicable local ordinances. The development within the Planning Area will comply with applicable building codes. The impacts of strong seismic ground shaking will therefore be less than significant.

- **Seismic-related ground failure, including liquefaction (Threshold 3.1.3).** Liquefaction is unlikely to occur within the Planning Area. The potential for local areas of perched high groundwater should be evaluated by focused geotechnical investigations during project planning. With proper geotechnical characterization and design, the impacts from liquefaction will be less than significant.

- **Landslides and debris flows (Threshold 3.1.4).** The project has been planned to avoid mapped landslide areas. The proposed Mixed-Use area at the east side of the project is located in an upland area bordering a mapped landslide area. Prior to final design of this area, focused geotechnical studies will be performed to ensure that the project avoids or mitigates landslide hazards. With the implementation of PDFs and proposed mitigation measures the impacts from landslides will be less than significant. Hazards from debris flows will be mitigated to less than significant levels by a combination of avoidance and construction of appropriately sized debris collection basins, and deflection and impoundment berms. The final design of debris basins, deflection and impoundment berms will be completed during preparation of tentative maps based on collaboration between the project geotechnical and civil engineers.

- **Erosion and loss of Topsoil (Threshold 3.1.5).** The project will be designed project in accordance with applicable State land local building codes, the State Water Resources Control Board (SWRCB) and County Grading ordinance. These regulations require projects to be designed based on grading and drainage standards that will control surface water flows to minimize erosion hazards. The projects will be required to prepare Storm

Water Management Plans (SWMP's) in accordance with State and County guidelines. Improvements proposed near existing creek channels that will remain will be designed with erosion protection measures such as deepened foundations and riprap protection based on County requirements. During construction, the project will be required to prepare a Storm Water Pollution Protection Plan (SWPPP) and erosion control, plans. The project design measures required by State and County regulatory agencies will reduce erosion and loss of topsoil hazards to less than significant.

- **Subsidence and collapsible soils (Threshold 3.1.6).** The impacts from subsidence due to groundwater withdrawals are less than significant as described above. Impacts from collapsible soils will be mitigated to less than significant levels by proper geotechnical characterization and design measures.

- **Expansive soils (Threshold 3.1.7).** Impacts from expansive soils will be mitigated to less than significant levels by proper geotechnical characterization and design measures.

3.5 Mitigation Measures

3.5.1 Impacts addressed by PDFs

- **Earthquake fault rupture (Threshold 3.1.1).**

  Mitigation Measure GEO-1: Where avoided by Planning Area design, no mitigation required. If improvements sensitive to ground rupture or habitable structures are proposed east of the defined setback zone for the Pleito Fault, focused fault investigations should be performed prior to approval of tentative tract maps, to determine if any surface fault rupture hazards are present.

- **Landslides and debris flows (Threshold 3.1.4).**

  Mitigation Measure GEO-2: Where proposed development has been planned to avoid mapped landslide areas (Qls-1 through Qls-4) no mitigation is required. If improvements in the mixed use area at the east side of the project are proposed in areas subject to the identified landslide hazards, focused geotechnical studies should be performed prior to approval of tentative tract maps, to define the extent of hazards and provide geotechnical mitigation measures. Such mitigation measures could include landslide repairs, buttresses or site-specific design to avoid hazards.

  Mitigation Measure GEO-3: Debris flow hazards will be mitigated by a combination of avoidance of high hazard areas, construction of earthen berms designed to deflect flows to open space areas or to impound debris, or by construction of appropriately-sized debris

retention basins that will intercept debris flows at the edges of proposed development. Prior to approval of tentative tract maps, debris flow protection measures should be designed jointly by the project geotechnical and civil engineers, in conformance with applicable Kern County guidelines. Maintenance of debris flow protection measures, including monitoring and sediment removal will be the responsibility of the proposed Geologic Hazard Abatement District (GHAD) or similar entity.

3.5.2 Impacts to be mitigated by project specific geotechnical reports and compliance with State and County Design and Construction Codes and Ordinances

- **Mitigation of strong seismic ground shaking (Threshold 3.1.2).**

  Mitigation Measure GEO-4. Prior to issuance of building permits, building plans shall be prepared and submitted to the Kern County Building Department for review and approval. Plans will show that all structures within the project site have been designed, and will be constructed, in accordance with seismic safety design criteria specified in the latest California Building Code requirements, at a minimum, or as otherwise recommended by a qualified registered structural engineer. Mitigation measures shall be implemented by the applicant at the time of final design of improvements for subdivision tracts or custom lots. Plans for improvements shall be subject to approval by the Kern County Engineering and Survey Department.

- **Mitigation of Erosion (Threshold 3.1.5).**

  Mitigation Measure GEO-5: Prior to approval of tentative tract maps, design projects with appropriate surface water drainage and creek erosion protection measures based on State and County ordinances, including project-specific SWMP's Prior to issuance of grading permits, prepare SWPPP's and erosion control plans in accordance with State and County ordinances.

- **Mitigation of seismic-related ground failure, including liquefaction, collapsible soils, and expansive soils (Thresholds 3.1.3, 3.1.6, 3.1.7).**

  Mitigation Measure GEO-6: Prior to approval of tentative tract maps, the potential for localized liquefaction collapsible or expansive soils shall be identified based on the tentative-map- level geotechnical reports. The tentative tract maps should be designed based on consideration of appropriate geotechnical mitigation measures for these hazards.

  Mitigation Measure GEO-7: Prior to issuance of grading permits, detailed project-specific geotechnical mitigation methods for collapsible soils should be developed based

on design-level geotechnical reports and depicted on plans prepared by the geotechnical engineer of record or on plan sheets included with final grading plans. Proposed mitigation implementation methods shall be subject to approval by the Kern County Engineering and Survey Department.

The following geotechnical mitigation methods can be implemented as required based on cost and constructability considerations:

a. Avoiding susceptible areas
b. Removal and replacement of susceptible soils with engineered fill
c. Presoaking and/or surcharge preloading of collapsible soils to induce densification prior to construction of improvements
d. Design structures with deepened or stiffened foundations to mitigate differential soil movement

3.6 Level of Significance After Mitigation

The PDFs incorporated into the Planning Area design and the proposed mitigation measures will reduce geology and soils impacts to less than significant levels.

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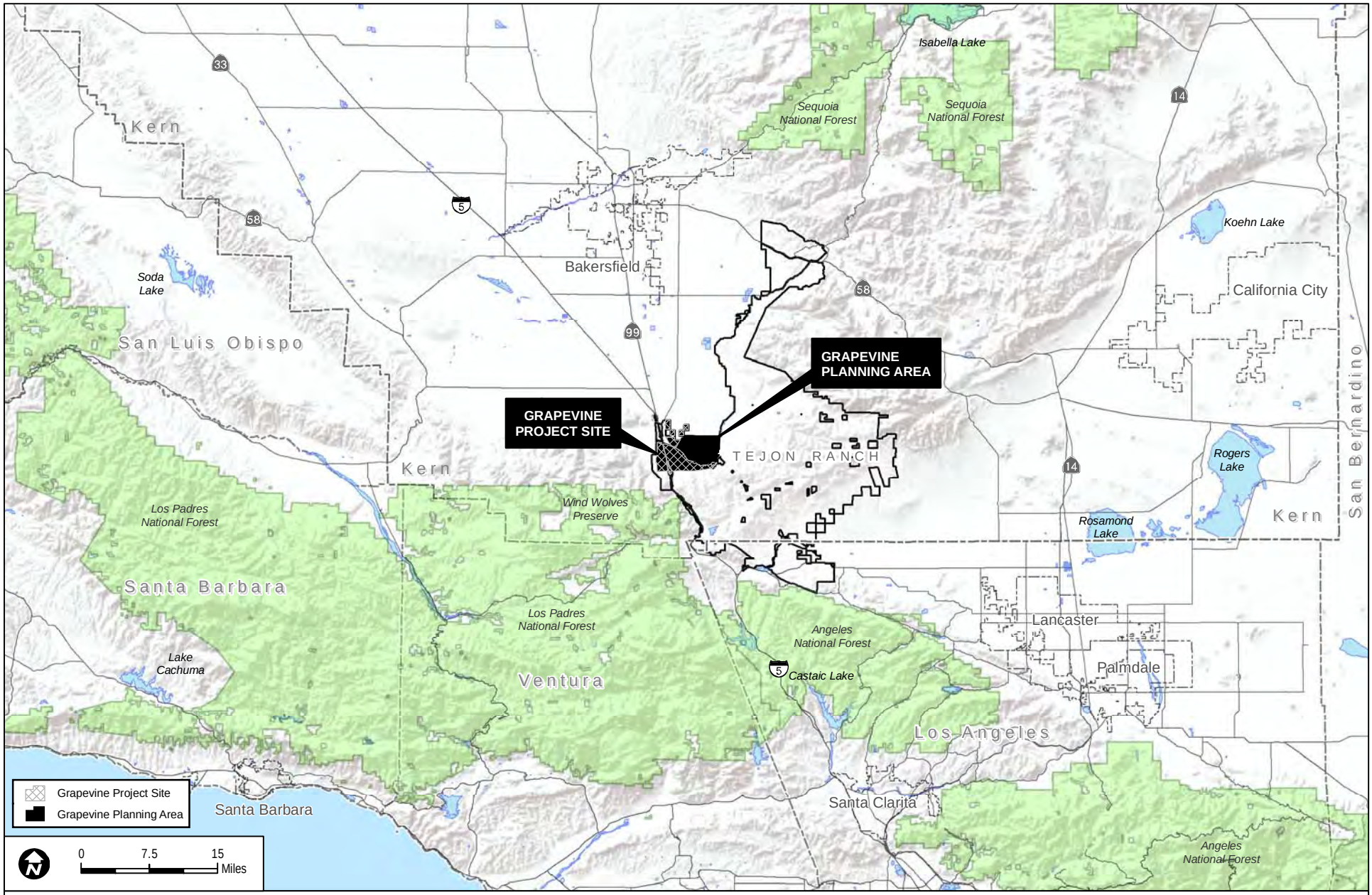
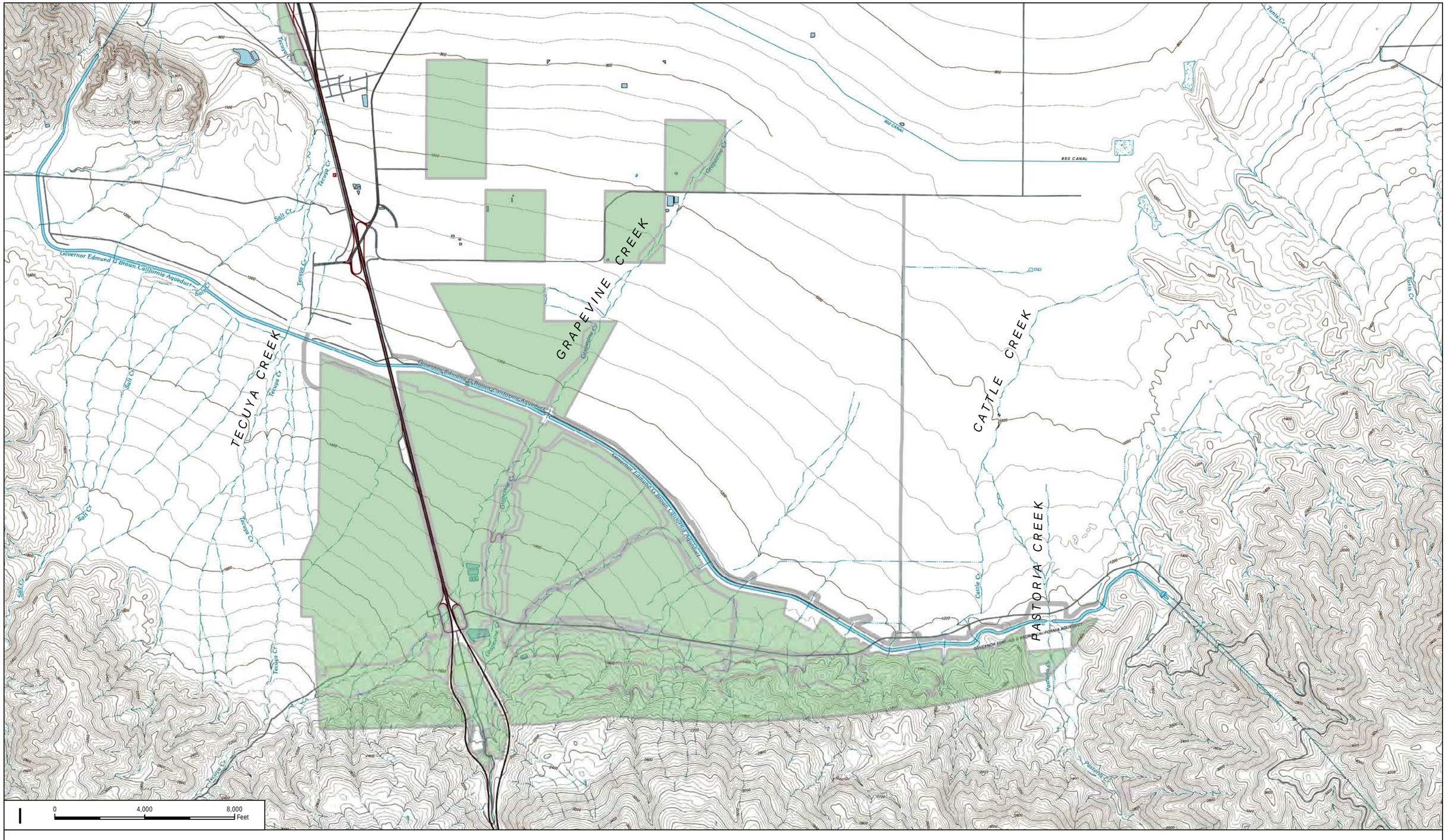


SOURCES: McIntosh & Associates 2013; TRC 2013a

FIGURE 1-1

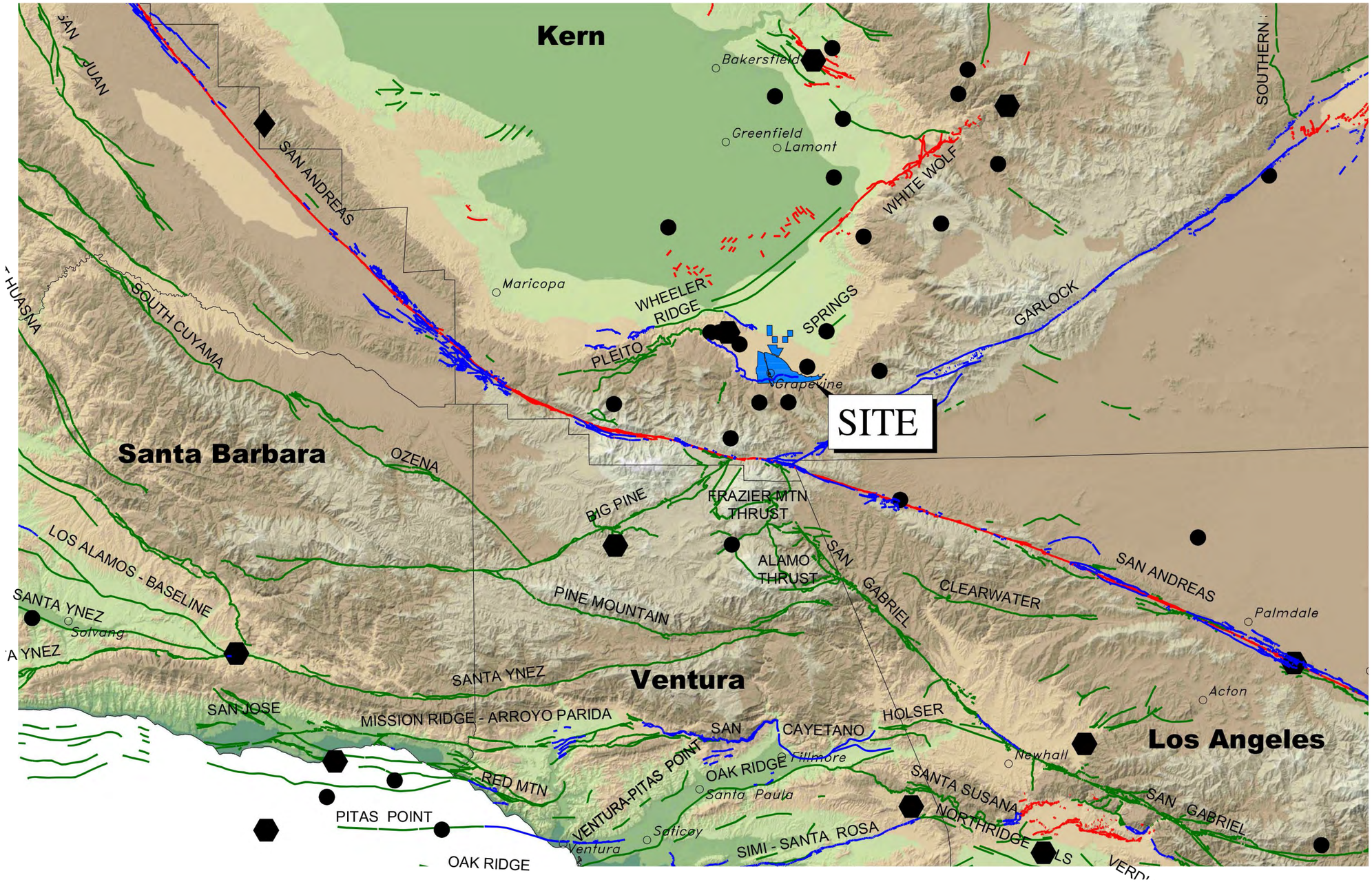
Regional Location

GRAPEVINE PROJECT



GRAPEVINE PROJECT

FIGURE 2
VICINITY MAP



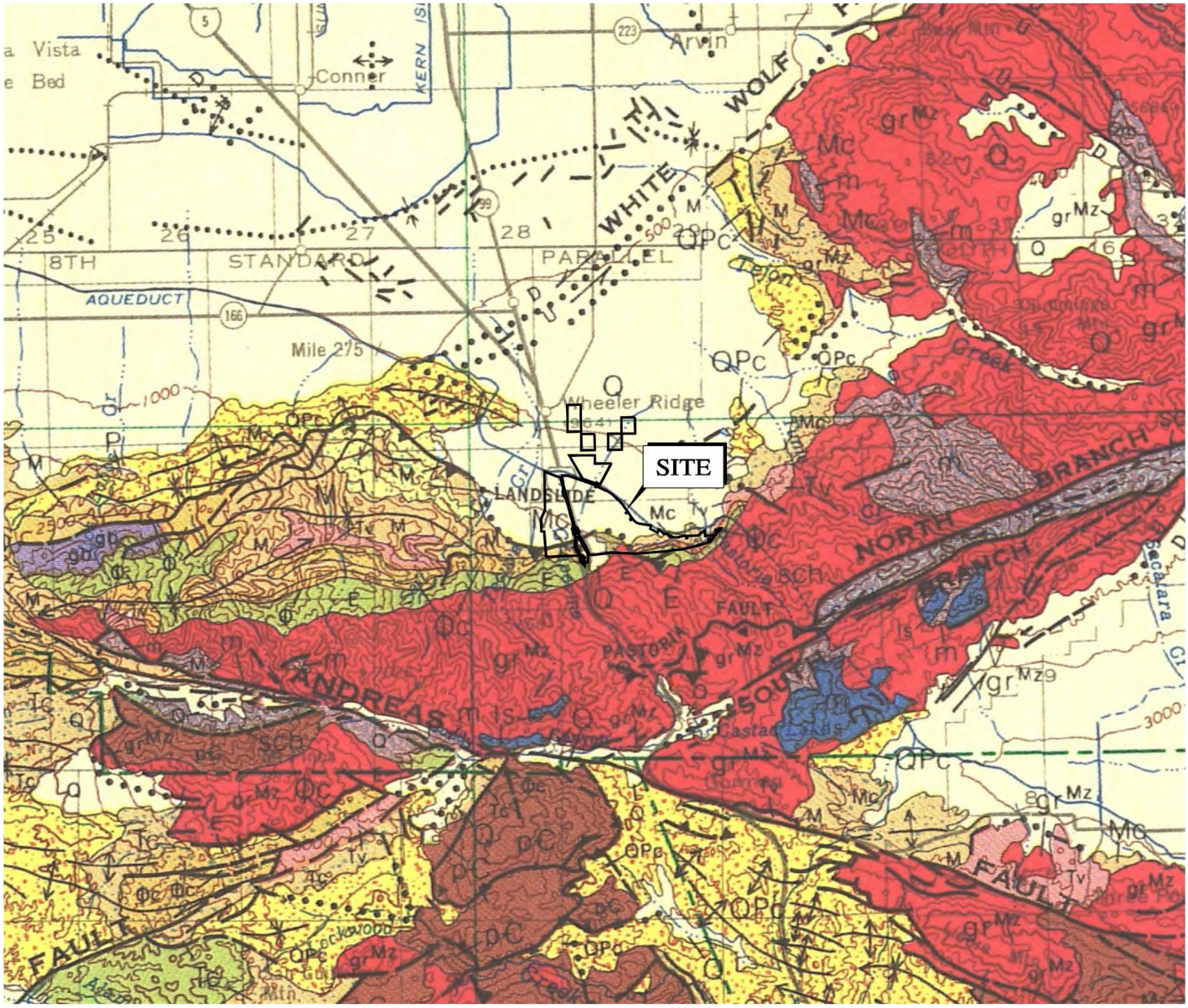
EXPLANATION

- MAGNITUDE 7+
- MAGNITUDE 6-7
- MAGNITUDE 5-6
- HISTORIC FAULT
- HOLOCENE FAULT
- QUATERNARY FAULT

BASE MAP SOURCE:
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATASET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, NOVEMBER, 2010
U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800–2000)

GRAPEVINE PROJECT

FIGURE 3
REGIONAL FAULT AND SEISMICITY



EXPLANATION

Q	ALLUVIUM	pC	CONGLOMERATE, SHALE, SANDSTONE, LIMESTONE, DOLOMITE,MARBLE,GNEISS, HORNFELS AND QUARTZITE
Qpc	PLIOCENE OR PLEISTOCENE SANDSTONE	Tv	TERTIARY VOLCANIC FLOW ROCKS
M	SANDSTONE, SILTSTONE, SHALE CONGLOMERATE	gr Mz	MESOZIOC GEANITE, QUARTZ MONZONITE, GRANODIORITE AND QUARTZ DIORITE
E	SHALE, SANDSTONE CONGLOMERATE		

FAULT-DASHED WHERE INFERRED, DOTTED WHERE CONCEALED, QUERIED WHERE EXISTENCE IS DOUBTFUL DOUBLE ARROWS INDICATE STRIKE-SLIP MOVEMENT

THRUST FAULT

ANTICLINE

SYNCLINE

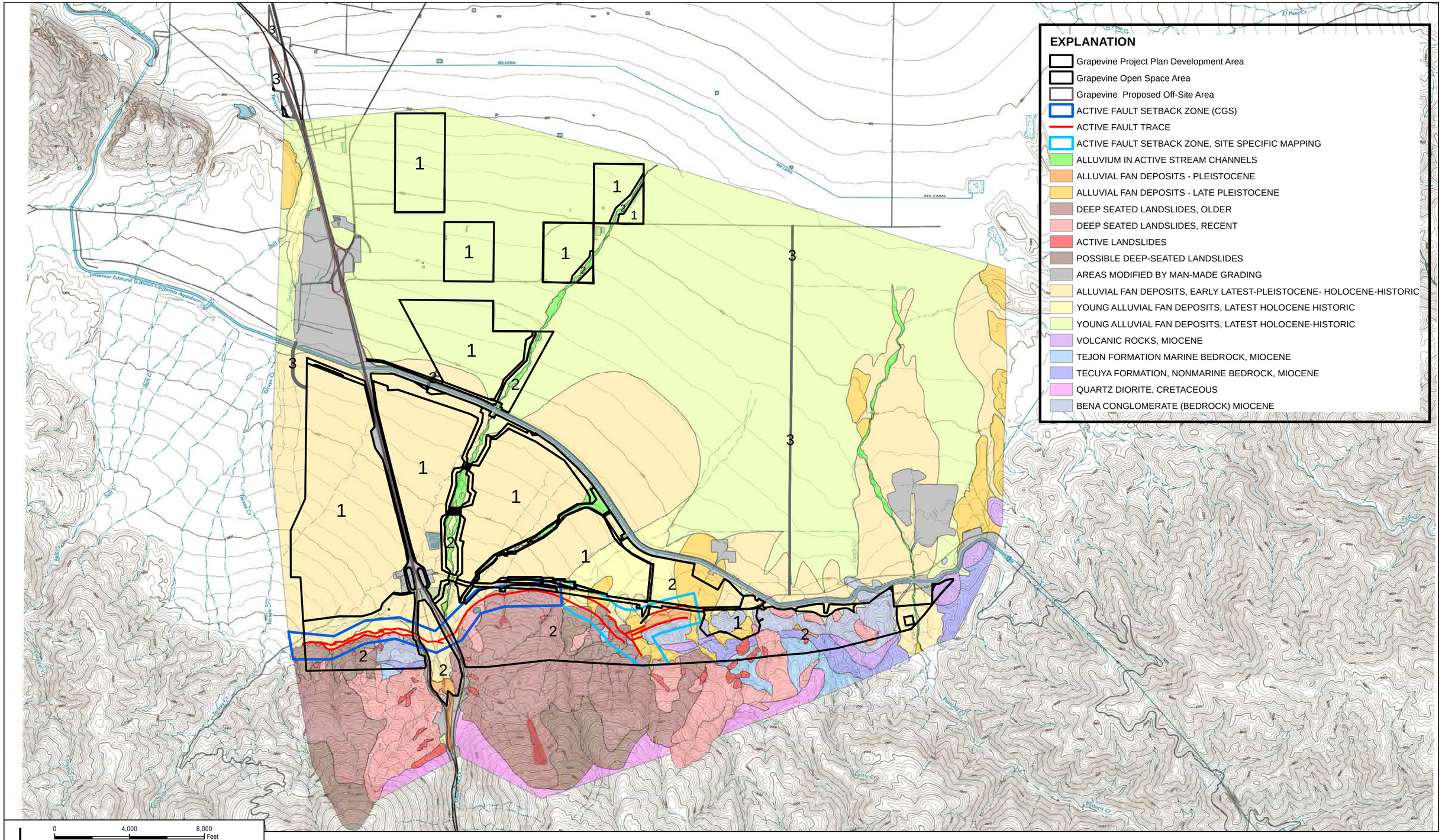
BASE MAP SOURCE: JENNINGS, 1977

0 1 2 4 6 8 10 Miles

FIGURE 4

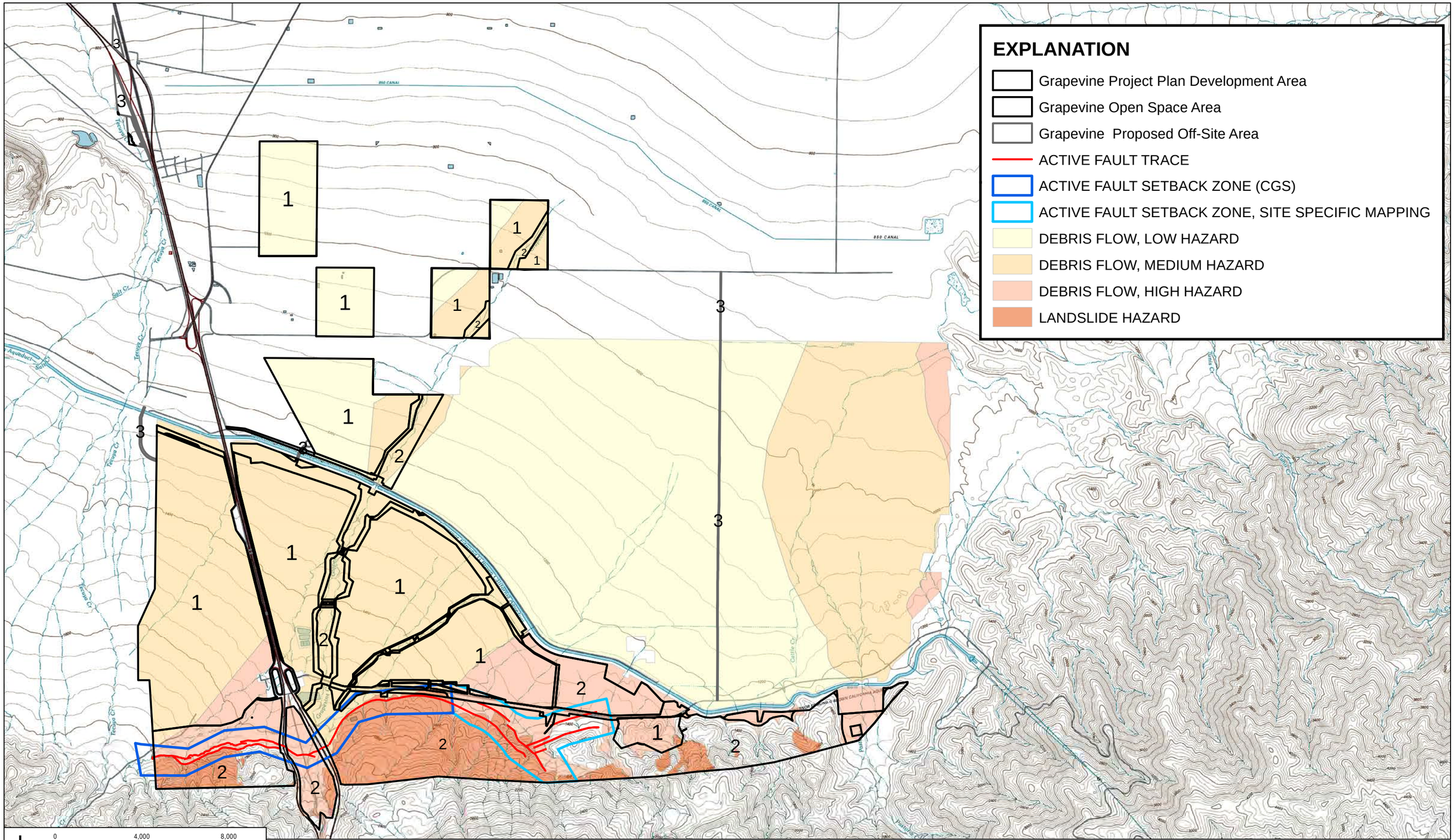
GRAPEVINE PROJECT

REGIONAL GEOLOGIC MAP



GRAPEVINE PROJECT

FIGURE 5
GEOLOGIC MAPPING



GRAPEVINE PROJECT

FIGURE 6

LANDSLIDE, DEBRIS FLOW HAZARD, GRAPEVINE PROJECT AND FAULTING MAP

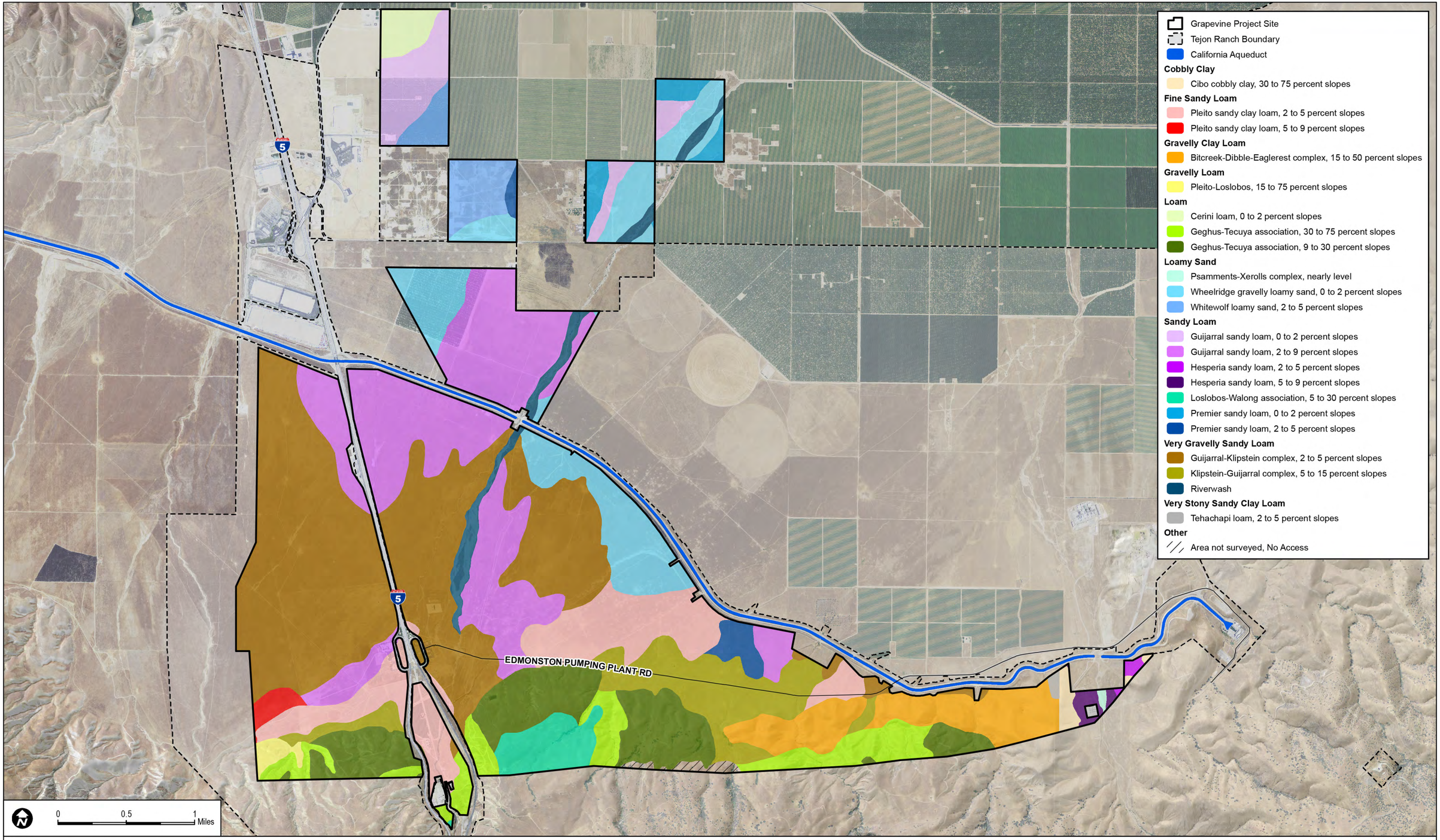
EXPLANATION

- Grapevine Project Plan Development Area
- Grapevine Open Space Area
- Grapevine Proposed Off-Site Area
- COLLAPSIBLE SOIL, LOW HAZARD
- COLLAPSIBLE SOIL, POTENTIAL MEDIUM HAZARD
- COLLAPSIBLE SOIL, POTENTIAL HIGH HAZARD

0 4,000 8,000 Feet

GRAPEVINE PROJECT

FIGURE 7
COLLAPSIBLE SOIL



SOURCES: USDA 2007, 2009

FIGURE 8

Soils

GRAPEVINE PROJECT

Project No.
9922.000.000

October 12, 2015

Diana Hurlbert
Director of Environmental Permitting
Tejon Ranch Company
4436 Lebec Road
Lebec, CA 93243

Subject: Grapevine
Kern County, California

GRAPEVINE GEOLOGIC CONSTRAINTS ON OFFSITE IMPROVEMENTS

Reference: ENGEO; Geologic Constraints Analysis; Grapevine Project, Prepared for Tejon Ranchcorp November, 2014.

Dear Ms. Hurlbert:

As requested, we have prepared this supplemental letter addressing the proposed Grapevine Project offsite improvements. The project impacts are discussed in detail in the Geologic Constraints Analysis (Reference 1).

PROJECT DESCRIPTION

A Specific Plan/Community Plan, Special Plan, General Plan Amendment, and Zoning Amendment are proposed to allow for the development of Grapevine, a sustainable new mixed-use community, on approximately 8,010 acres located approximately 13 miles south of Bakersfield city limits, east and west of Interstate-5 (I-5) at the Grapevine interchange and adjacent to Laval and Edmonston Pumping Plant Roads, in southwestern Kern County, California. The project approval would allow for 4,778 acres to be developed within the Specific Plan Development areas consisting of 12,000 residential units and 5,100,000 square feet of commercial, industrial, and public service uses. Approximately 3,232 acres within the Specific Plan area would be designated as exclusive agriculture, with open space, agriculture, and grazing as the predominant uses. The proposal also includes the development of a new interchange on the I-5, the relocation of an existing California Vehicle Enforcement Facility (CVEF) weigh station to a site north of the project, two offsite bridges crossing the California Aqueduct, and potential construction of an offsite alternate truck route to the east of the project site connecting Edmonston Pumping Plant Road and Laval Road. The new Grapevine residential community and employment center is proposed to compliment and build on the economic development occurring at the adjacent Tejon Ranch Commerce Center (TRCC).

CONSTRAINTS AT OFFSITE IMPROVEMENTS

The proposed offsite improvements are subject to potential geologic impacts similar to the overall project, as discussed below:

Earthquake fault Rupture (Threshold 3Ai)

Surface traces of the Wheeler Ridge fault zone are mapped by the State of California approximately 800 feet southwest of the proposed CVEF weigh station. The proposed facility is not within the Alquist-Priolo Earthquake Fault zone for the Wheeler Ridge Fault. None of the other proposed offsite improvements are located within or near the State Earthquake Fault Zone. The risk of surface fault rupture impacts to the proposed offsite improvements is therefore low and no mitigation is required

Strong seismic ground shaking (Threshold 3Aii). Given the high seismicity of the southern San Joaquin Valley region, moderate to severe ground shaking associated with earthquakes on the nearby faults can be expected to affect the entire Planning Area including the offsite improvements. Mitigation Measure GEO-1 provides guidelines for design and construction of improvements that will reduce impacts from Threshold 3Aii to less than significant levels.

Seismic-related ground failure, including liquefaction (Threshold 3Aiii). As described in the Technical report, liquefaction hazards at the site are low, including in the areas where offsite improvements are proposed. Therefore, no mitigation is required.

Landslides and debris flows (Threshold 3Aiv). The proposed offsite improvements are not located in areas subject to hazards from Threshold 3Aiv, as described in the Technical Report and depicted on Figure 5. Therefore, no mitigation is required.

Subsidence and Collapsible soils (Threshold 3Av). The proposed offsite improvements are located on relatively young alluvial fan sediments that are identified in the Technical report on Figure 7 as having moderate to high collapse potential. Specifically, the proposed CVEF weigh station and the proposed haul road are located on young alluvial fan sediments where surficial layers have been identified as potentially collapsible in geotechnical investigations for nearby construction projects at the TRCC. The proposed canal bridge crossing, Interstate Highway 5 overcrossings, and associated roadways are located on alluvial fan sediments identified as having medium collapse potential. Mitigation Measure GEO-2 provides guidelines for design and construction of improvements that will reduce impacts from Threshold 3Av to less than significant levels.

Expansive Soils (Threshold 3Avi) As described in the technical report, the Project Area, including the proposed offsite improvements, is underlain by soil that is of low plasticity and generally non-expansive. This conclusion should be confirmed during design and construction of offsite improvements as described in Mitigation Measure GEO-2.

Level of Significance After Mitigation

The Mitigation Measures provided in the Technical Report provide guidelines for design and construction of the proposed offsite improvements that will reduce geology and soils impacts to less than significant levels.

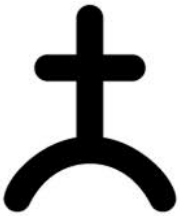
Appendix J.1

Phase I Environmental Site Assessment (ESA)

FINAL PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

PREPARED FOR

TEJON RANCHCORP



GRAPEVINE PROJECT AREA
LEBEC, CA 93243

VOLUME I – REPORT TEXT

NOVEMBER, 2014

26431 Crown Valley Parkway, Suite 270, Mission Viejo, CA 92691 • Tel: 949-470-1937 • Fax: 949-470-0943

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FIGURES

Figure 1 Regional Location Map
Figure 2 Vicinity Map

EXHIBITS

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Exhibit #16 Addendum to Environmental Assessment for I-5 and CA-99 Vehicle Enforcement Facility, and Improvements to Existing Agricultural Truck Route

1.0 SUMMARY

Pacific Edge Engineering, Inc. (Pacific Edge) conducted this Phase I Environmental Site Assessment (ESA) as a contractor to Tejon Ranchcorp. The ESA was performed for the Grapevine project area located in Lebec, California. The party seeking to perform this ESA is defined as the User. That party is the Tejon Ranchcorp. The methodology used by Pacific Edge in performance of this ESA is defined by the American Society for Testing and Materials Standard Practice designation E 1527-13 (ASTM E 1527).

1.1 PROJECT DESCRIPTION

The Grapevine project area is located in the west-central portion of Tejon Ranch (the Ranch). The approximately 270,000-acre Ranch is currently held in private ownership by Tejon Ranchcorp. The Ranch includes a large portion of the Tehachapi Mountains as well as smaller portions of the San Joaquin and Antelope Valleys. Generally, the Ranch extends from Interstate 5 (I-5) on the western side to State Route 58 (SR 58) on the northern side and SR 138 on the southern side (Figure 1).

The 8,010-acre Grapevine project site is entirely within unincorporated Kern County, just south of the junction of I-5 and SR 99. Downtown Bakersfield is approximately 25 miles north of the project. The majority of the project is on the east side of I-5, but a smaller portion lies on the west side of I-5. The project site is bisected by the California Aqueduct (Figures 1 and 2).

The Grapevine project site lies mainly in the Grapevine and Pastoria Creek U.S. Geological Survey (USGS) 7.5-minute quadrangles. There is one parcel and a portion of two other parcels in the project site that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57′9″ N and 118°55′39″ W. The Universal Transverse Mercator (UTM) coordinates for the approximate center are UTM Easting (meters) 323999 and UTM Northing (meters) 3869472 in Zone 11.

The 8,010-acre project site is within the 15,644-acre Grapevine Planning Area identified in the Tejon Ranch Land Use and Conservation Agreement, a landmark agreement reached in 2008 with leading environmental organizations (including the Sierra Club, Natural Resources Defense

Council, California Audubon Society, Endangered Habitats League, and Planning and Conservation League) to permanently preserve over 90% of Tejon Ranch as open space and limit development to designated areas near existing infrastructure such as I-5. The precise boundaries of the 8,010-acre project site may be further adjusted based on the results of the ongoing environmental review and permitting process for the project, but would remain within the Grapevine Planning Area.

The Grapevine project site includes approximately 8,010 acres, of which approximately 3,232 acres (or about 40%) would be designated for agriculture (with grazing and open space as the predominant land uses) and approximately 4,778 acres (about 60%) would be developed as a new residential community and employment center. The community would leverage and build upon the economic expansion and job growth that has occurred at Tejon Ranch Commerce Center (Figure 2), located immediately north of the project on I-5. The Grapevine project would feature a series of compact neighborhoods linked by bicycle and pedestrian trails that provide convenient access to grocery and drugstores, professional services, schools, and parks. The project site is located along I-5, at the gateway to the Central Valley, and is immediately adjacent to the extensive open space that was conserved in the Tejon Ranch Land Use and Conservation Agreement.

The project, which would include up to 1,000 residential units and 10.7 million square feet of commercial land uses, is designed as a series of conveniently located village centers, each composed of a mix of housing, neighborhood-serving retail and office uses, schools, parks, and community services. Outside the village cores, the Grapevine project includes a mix of residential uses, office, research and development, regional commercial, freeway-oriented commercial, and light industrial/warehouse uses. Other potential public facilities, including a fire station, sheriff substation, transit facility/park-and-ride, and water and wastewater treatment facilities, are proposed throughout the community.

Access to the first phase of the Grapevine community would be from Interstate 5 at the existing Grapevine Road and Laval Road interchanges. During later phases of development, the existing Grapevine Road/Interstate 5 interchange may be expanded and relocated to the north. To allow for the relocation and replacement of the interchange, an existing Vehicle Enforcement Facility

may be relocated to a Tejon Ranchcorp owned parcel on the west side of the junction of Interstate 4 and CA-99. The project would also improve an existing Tejon Ranchcorp agricultural road east of the project area to provide tuck access for truck traffic currently using Edmonston Pumping Plant Road to travel to properties east of the project. The circulation network within the project is composed of two- and four-lane arterials, collector streets, and local streets organized in a grid pattern. All roads within the project site would be public. Multipurpose trails are proposed along Grapevine Creek, Cattle Creek, the southern foothills, and open space adjacent to the California Aqueduct at other locations throughout the project site. Some of these trails would connect to on-street Class 2 bike lanes. Water and sewer would be provided by the Tejon-Castac Water District.

An addendum to the ESA is presented as Exhibit #16. The addendum addresses two recently added project areas not previously included in the Grapevine project study area. These areas include the Tejon Ranchcorp owned parcel on the west side of the junction of Interstate 5 and CA-99 where a Vehicle Enforcement Facility would be relocated, and an existing Tejon RanchCorp unnamed agricultural road east of the project area between Laval Road and Edmonston Pumping Plant Road.

1.2 IDENTIFIED RECOGNIZED ENVIRONMENTAL CONDITIONS AND POTENTIAL MITIGATION MEASURES

Pacific Edge has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527 for the Grapevine project area. Any exceptions to, or deletions from, this practice are described in Section 2.3.1 of this report. This assessment has revealed no evidence of ***Recognized Environmental Conditions*** (RECs) in connection with the Grapevine project area except for those listed below.

In support of the projects' Environmental Impact Report (EIR) process, each of the listed REC also includes potential mitigation measures, which is not a requirement of ASTM E1527. In addition to specific mitigation measures for each listed REC, a project-wide mitigation measure is recommended. The recommended project-wide REC is the development of a Soil Management Plan (SMP). The SMP would apply to and address any discovery of a previously unknown environmental condition not listed below. The SMP would summarize applicable

federal, state, and local regulations and requirements pertaining to the discovery, reporting, management, and disposal of hazardous materials or hazardous waste. All construction contractors involved in soil disturbance or performing below ground construction activities would be subject to the SMP and must possess the necessary qualifications and certifications to implement the SMP.

The following RECs have been identified for the Grapevine project area:

- Existing development in the Grapevine project area consists primarily of highway support services located adjacent to Interstate I-5 at the Grapevine interchange. The Grapevine Center was first developed in the late 1950's to early 1960's, and included several gasoline service stations. Exhibit 1 presents existing and historic gas station locations.

  Existing gas stations include Phillips 76 (9058 Mountain Base Road), Lebec Shell (9069 Grapevine Road West), and Valero (9012 Grapevine Road East).

  Historic gas stations were located in each of the existing gas station locations and within what is now two currently undeveloped areas. In the undeveloped area west of the south bound I-5 lanes was a former Union Oil #4743 gas station located at 9068 Grapevine Road West. In the undeveloped area east of the north bound I-5 lanes was a former Standard Oil gas station believed to have been located at 8977 Grapevine Road East and Chevron Station #9-8616 (also located at 8977 Grapevine Road East), and a Shell gas station located at 9067 Grapevine Road East. Other gas stations that previously existed within the Grapevine Center and have new uses include:

  - an Arco gas station (the current Denny's site at 9046 Grapevine Road East),
  - a Texaco gas station (the current Shell site, 9069 Grapevine Road West), and
  - Tejon Mobil gas station (the current Valero site at 9012 Grapevine Road East).

  Underground storage tank removal reports, and other documentation relating to environmental conditions, were requested for these stations from the KCEHD. The

KCEHD is the Certified Unified Program Agency (CUPA) responsible for USTs in the project area. Records obtained for these sites from the KCEHD are presented in Exhibit 7 and are summarized in Section 8.1.4 of this report.

Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing these sites for other uses, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The Grapevine project area is located above geologic features that have produced, or have the potential to produce, crude oil and natural gas. Active oil production and exploration activities are currently occurring, or have occurred in the past, on parcels located in the Grapevine project area. The majority of oil production and exploration activities have occurred in the northern portion of the Grapevine project area and this is also where oil production activities are currently occurring within the Grapevine project area. These areas include 6a, 6b, 6c, 6d, and 6e as shown on the Special Planning (SP) figure presented in Exhibit 2. Exhibit 2 also presents a series "Focus Maps" showing the approximate location of all wells (active, abandoned, and those having an unknown status) within the Grapevine project area and was compiled by EDR, Inc. using the State of California Division of Oil, Gas and Geothermal Resources (DOGGR) online database. This database has been filtered by Pacific Edge to include the parcels within the Grapevine project area and is also presented in Exhibit 2. A complete description of oil and gas production and exploration activities within the Grapevine project area is provided in WZI, Inc.'s November 2014 report entitled "Mineral Resources Evaluation".

  During Pacific Edge's site reconnaissance current oil and gas production activities were observed on SP parcels 6c, 6d, and 6e. Existing site features associated with oil exploration and production are shown on a series of aerial photos provided in Exhibit 3. Existing site features include active and idle wells, aboveground crude oil storage tanks (active and out of service), crude oil piping and manifolds, and injection piping. Aboveground piping is extensive at SP parcel 6c and includes piping leading from active

and idle wells to several headers where larger diameter piping distributed oil to a tank farm located on the southwestern side of SP parcel 6c. Abandoned piping was also observed on SP parcels 6c, 6d, and 6e. The majority of the abandoned piping appeared to be associated with wells no longer visible (abandoned wells). Gas flares and cogeneration were not observed on the Grapevine project parcels. However, a gas flare and possible cogeneration operations were noted on a neighboring parcel (west of Grapevine SP parcel 6c) which is not within the Grapevine project area. This neighboring parcel is operated by Vintage Petroleum. Existing oil stained soil was observed at numerous locations within SP parcels 6c, 6d, and 6e. These locations were primarily limited to very small areas (less than a few feet) around oil production wells and crude oil storage tanks, with one noted exception. Within the northern portion of SP parcel 6c, soil had been recently excavated and placed into a large stockpile (estimated to be around 200 cubic yards). This soil appeared impacted by oil, and leaching of oil from the stockpile was observed. On a subsequent site visit, the stockpiled soil was no longer present and the area had been graded flat. The approximate area where the stockpiled soil was located is shown on the figure for SP parcel 6c presented in Exhibit 3.

Oil exploration and production activities, including active and inactive and abandoned wells, and localized collector and distribution piping and storage tanks, can cause environmental contamination to soil and groundwater that would prevent development unless mitigation measures were undertaken. Also, the disposal method used for drilling fluids from historic exploration and production activities at these parcels is unknown. Historic drilling fluid disposal methods can include on-site earthen pits commonly called "mud pits." These mud pits were typically covered with soil as the only closure measure undertaken, and can therefore be a source of contamination to soil and groundwater.

Decommissioning and abandonment of oil and gas wells would be required to meet current applicable regulatory standards. Oil and gas well decommissioning procedures are addressed in WZI, Inc.'s November 2014 report entitled "Mineral Resources Evaluation". Where significant oil and gas production is currently occurring and has occurred in the past and visible contamination is present or is likely present, an ASTM E1903-11 compliant Phase II investigation shall be conducted with appropriate

environmental agency oversight to evaluate environmental impacts so that appropriate remedial or other mitigation measures are undertaken, if necessary. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- A former seepage pit and leach field is located in the northern portion of the Grapevine Center, and was used for disposal of sewage waste from businesses in the Grapevine Center, including gas station sites (see Exhibit 1).

  Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing in this area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The existing Grapevine Wastewater Treatment Plant (WWTP) is located northeast of the Grapevine Center (see Exhibit 1). The Grapevine WWTP serves the Grapevine Center commercial area and consists of three unlined percolation/evaporation ponds with a total a total water surface area of 6.62 acres. The WWTP is permitted for a treatment capacity of 0.235 million gallons per day (MGD). One of the three ponds is divided into four smaller cells. Currently, only one of the four smaller cells is in use at any given time and the WWTP processes approximately 0.05 MGD. The Grapevine project may temporarily use the existing Grapevine WWTP up to its permitted capacity during the initial project stages. The Grapevine WWTP would likely be decommissioned prior to development of this area of the project.

  Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing in the Grapevine WWTP area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- Agricultural chemicals are applied to the almond groves (SP parcels 6a and 6b) and the grapevine field (SP parcel 1) within the Grapevine project area (see Exhibit 1 for almond groves and grapevine field locations). Agricultural chemicals used include surfactants, pesticides, insecticides, fungicides, herbicide, and rodenticides.

  ASTM E1903-11 compliant Phase II testing should be performed in these irrigated farming areas prior to their development, and appropriate management of any discovered agricultural chemical residuals should be completed under the oversight of the appropriate environmental agency. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- An unlined pond in SP parcel 6b is used for percolation/evaporation of wash-out water. The wash-out water is generated when back flushing/cleaning of irrigation water treatment filters located next to the pond. Agricultural chemicals are added to the irrigation water treatment system.

  Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing the pond area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The ExxonMobil Grapevine Pumping Station 99-GVR is a crude oil pumping station for the Mobil M-70 pipeline at 7815 Grapevine Road; which is located south and adjacent to the most southern extent of the Grapevine project area (see Exhibit 1). The environmental oversight agency is the Central Valley Regional Water Quality Control Board (CVRWQCB). The CVRWQCB has assigned the site Case No. SLT5FR714638 and environmental reports have been uploaded to the California State Water Resources Control Board GeoTracker web site at http://geotracker.waterboards.ca.gov.

  The Mobil M-70 crude oil pipeline, an idle 12-inch diameter Mobil M-1 pipeline (currently containing a MCI fiber optic cable), a pair of idled 8-inch diameter Mobil

crude pipelines, and a high pressure Southern California Gas pipeline are all located within the ExxonMobil Grapevine Pumping Station 99-GVR.

Review of environmental reports available on GeoTracker for this site indicate that crude oil petroleum leaks have been documented at the site from 1947 to 1999 and an estimated 4,704 gallons of crude oil have been released to the environment as a result of leaks believed to be from their underground piping. In 1998, oil and oily water was observed seeping from the base of the embankment next to Interstate I-5. The ExxonMobil Grapevine Pumping Station 99-GVR is located at the top of this embankment. At the base of this embankment is a storm drain that follows Interstate I-5. Based on surface contours presented in environmental reports for the site, it is assumed that this storm drain flows to the north toward the southern end of the Grapevine project area.

Soil and groundwater investigations have been conducted at this site since 1999. Work at the site has included the removal of floating petroleum from the top of shallow groundwater, which occurs at a depth of approximately 40-feet below ground surface.

Groundwater monitoring has been ongoing since 2000. The groundwater flow direction over the past 14 years has been described as toward the east, northeast, and southeast. The predominant groundwater flow direction appears to be to the east down the embankment toward Interstate I-5. The four groundwater sampling events conducted in 2000 included the analysis of total petroleum hydrocarbons (TPH) as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE). TPH as gasoline, toluene, ethylbenzene, total xylenes, and MTBE were not detected above the laboratory reporting limit. TPH as crude oil was detected in several groundwater wells and a low concentration of benzene (0.68 ug/L) was detected in monitoring well MW-1 during the first quarter of 2000. After 2000, groundwater sampling has not included the analysis of TPH as gasoline, benzene, toluene, ethylbenzene, total xylenes, and MTBE in the original monitoring wells. Additional groundwater monitoring wells were installed at various times after 2000. The initial sampling of these wells included analysis of TPH as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and MTBE. Subsequent sampling events have only

included the analysis of TPH as crude oil even though a low concentration of TPH as gasoline was detected in monitoring well MW-3 (150 ug/L) and MW-12 (190 ug/L) during their initial sampling event.

In April 2013, the CVRWQCB required additional investigation work at the site to evaluate if there are continuing releases occurring at the site. On December 16, 2013, Cardno ERI, Inc., on behalf of ExxonMobil Services, submitted to the CVRWQCB a work plan for site assessment. The Cardno ERI, Inc. work plan states that it does appear that a continued release is occurring at the site and is proposing to further delineate the lateral extent of soil and groundwater contamination to the east and southeast of the Site by installing 5 temporary monitoring wells. Soil and groundwater samples would be collected at each of the proposed locations. To date, a report for Cardno ERI, Inc's proposed work has not been uploaded to GeoTracker and it is not known if the investigation work has been completed.

The potential migration of contamination from this site onto the southern end of the Grapevine project area is a REC. The environmental investigation for the site has not been completed by ExxonMobil Services***. The final investigation report should be reviewed and evaluated to determine if subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be performed in the Grapevine project area closest to the ExxonMobil Grapevine Pumping Station 99-GVR. If it is determined that Phase II testing is required, shallow soil gas probes could be installed and sampled to evaluate environmental conditions, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.***

The report for this investigation is divided into two separate volumes as follows:

VOLUME I - REPORT BODY - This portion of the report contains the narrative text of the report.

VOLUME II - REPORT EXHIBITS - This portion of the report contains only the exhibits referenced in the narrative text portion of the report.

The combination of these volumes constitutes the entire report for this investigation.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of this ESA is to identify, to the extent feasible pursuant to the processes prescribed by the American Society for Testing and Materials Standard Practice designation E 1527-13 (ASTM E 1527), Recognized Environmental Conditions (RECs) in connection with the property. The definitions, descriptions of terms and acronyms for many words used in this report shall be as defined in Section 3 of ASTM E 1527.

RECs are defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.

2.2 SCOPE OF SERVICES

This ESA was completed by Pacific Edge in accordance with ASTM E 1527-13. The following tasks were completed by Pacific Edge during completion of this ESA:

1. Physical site inspections/site reconnaissance were performed by Pacific Edge on several occasions with the first inspection on September 11, 2013 and last inspection on April 22, 2014. Initial inspections conducted during September 11th through September 13th, 2013 included the entire project area. Several follow-up inspections were conducted for the active oil field parcels, with the last inspection conducted on April 22, 2014. Photographs taken during the site reconnaissance visits are included in Exhibit 13.
2. A Radius Map™ Report with GeoCheck® was ordered from EDR as part of our review of environmental record sources. A Grapevine project area boundary map was provided to EDR for their radius search.
3. The following reports on historical use information were ordered from EDR.
    a) Aerial Photo Decade Package
    b) Certified Sanborn® Map Report (No Coverage)

c) Historical Topographic Map Report

d) City Directory Abstract

4. The Kern County Records Online website (http://www.http://www./decadeonline.com/insp.phtml?agency=KER&record.com) was consulted for additional information on building and environmental permits. This data supplements the EDR report.
5. The RWQCB Geotracker website (http://geotracker.waterboards.ca.gov/) and DTSC Envirostor website (http://www.envirostor.dtsc.ca.gov/public/) were reviewed for information on the property and adjacent/adjoining properties identified in the EDR Radius Map™ Report with GeoCheck®. These websites were reviewed to evaluate the existence of a recognized environmental condition, historical recognized environmental condition, controlled recognized environmental condition, or a de minimis condition on the property and adjacent/adjoining properties.
6. A search for local government agency environmental records was requested from the Central Valley Regional Water Quality Control Board (CVRWQCB) and Department of Toxic Substances Control (DTSC) for the following on-site properties:
    a) 9012 Grapevine Road East, Lebec, CA 93243
    b) 9069 Grapevine Road West, Lebec, CA 93243
    c) 9068 Grapevine Road West, Lebec, CA 93243
    d) 8968 Grapevine Road, Lebec, CA 93243
    e) 8977 Grapevine Street, Lebec, CA 93243
    f) Highway 99 & Grapevine, Lebec, CA 93243
    g) 7815 Grapevine Road, Lebec, Ca 93243
    h) 9067 Grapevine Road East, Lebec, CA 93243
    i) 9058 Mountain Base Road, Lebec, CA 93243
7. User and Owner Questionnaires were submitted to Derek Abbott with the Tejon Ranchcorp. Mr. Abbott distributed the questionnaires to various Tejon Ranch personnel and current tenants and oil lease holders for completion. Copies of the completed Questionnaires are included in Exhibit 14.

8. A search of the California Division of Oil, Gas and Geothermal Resources (DOGGR) online database (http://www.consrv.ca.gov/dog/Pages/Index.aspx) was conducted for information regarding oil and gas wells.

2.3 DEVIATIONS

2.3.1 Exceptions or Deletions

There are no known exceptions or deletions to ASTM Practice E 1527 in this assessment.

2.3.2 Data Failure

Historical research can be considered complete when 1) all obvious uses of the property are identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier (review of standard historical sources at less than approximately five year intervals is not required) or 2) data failure is encountered. Data failure occurs when all of the Standard Historical Sources (SHS) that are reasonably ascertainable (ASTM E 1527 identifies eight SHS's) and likely to be useful have been reviewed and yet the objectives have not been met.

ASTM E 1527 further provides that an SHS may be excluded for two reasons:

1. The sources are not reasonably ascertainable.
2. Past experience indicates that the source is not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives.

No Standard Historical Sources were excluded from this investigation although no information was obtained from select sources. All obvious uses of the property were identified from the present, back to at least 1940.

2.3.3 Data Gaps

ASTM E 1527 requires review of Standard Historical Sources (SHS) for approximately each five-year interval from at least 1940 to present. In an ideal situation, data from each of those five-year periods would be both readily available and reasonably ascertainable. However, the availability of extensive historical information varies significantly from one location to another. It is common to have gaps in the data for one or more of the periods where

historical property uses are unknown or uncertain. It is also possible for unidentified uses to occur between data points, or prior to the earliest data acquired.

The earliest data acquired for this investigation was from 1903 (Historical Topographic Map). There were intermittent gaps throughout the data collected, where historical property uses are unknown or uncertain; however specific property uses in these intervals appears consistent and unchanged.

2.3.4 NON-SCOPE SERVICES

There were no additional services beyond the scope of ASTM E 1527 included in the scope of this investigation, with the exception of suggested measures to be undertaken for identified RECs to support preparation of the project's Environmental Impact Report.

2.4 SIGNIFICANT ASSUMPTIONS

The findings, opinions and conclusions of this ESA are based solely upon the data gathered and processes performed that are presented in this report. All significant assumptions made by Pacific Edge are qualified based upon that data and those processes.

2.5 LIMITATIONS AND EXCEPTIONS

A diligent, practical, and reasonable effort was made to identify environmental issues of an informational nature, which were raised during the course of this investigation. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the property, and as a result, this ESA recognizes reasonable limits of time and cost.

Certain conditions, such as cooperation of tenants, federal, state and local agencies, availability of information, required time frame of investigation, and other conditions beyond the control of Pacific Edge may affect the completeness of this investigation.

Pacific Edge's performance of the requirements prescribed by ASTM E 1527 is limited to the Scope of Services presented in this report.

Extended environmental studies, such as soil or other sampling within the project area, are specifically excluded from the scope of this investigation, including but not limited to sampling and/or analysis of surface/subsurface soils, vapor, air, groundwater, asbestos in building materials, lead in paints or drinking water, Radon, and hydrological and/or geological studies.

This ESA does not address requirements of any state or local laws or of any federal laws other than the appropriate inquiries provisions of CERCLA's innocent landowner defense. Federal, state and local laws may impose environmental assessment obligations that are beyond the scope of this investigation.

2.6 SPECIAL TERMS AND CONDITIONS

The interpretations and recommendations of this report are based on the data collected and our present working knowledge of environmental site conditions. As such, the report is valid as of the date shown, and Pacific Edge will not be held responsible for subsequent changes in physical/chemical/environmental conditions and/or legislation over which we have no control.

2.7 USER RELIANCE

For CERCLA purposes, the report produced in accordance with this investigation shall be for the sole use of Tejon Ranchcorp. It shall be the responsibility of the User, or of his representative, to ensure proper/legal disclosures to public, private and regulatory entities.

3.0 SITE DESCRIPTION

3.1 LOCATION

The Grapevine project is located in the west-central portion of Tejon Ranch (the Ranch). The approximately 270,000-acre Ranch is currently held in private ownership by Tejon Ranchcorp. The Ranch includes a large portion of the Tehachapi Mountains as well as smaller portions of the San Joaquin and Antelope Valleys. Generally, the Ranch extends from Interstate 5 (I-5) on the western side to State Route 58 (SR 58) on the northern side and SR 138 on the southern side (see Figure 1).

The Grapevine project site is entirely within unincorporated Kern County, just south of the junction of I-5 and SR 99. Downtown Bakersfield is approximately 25 miles north of the project. The majority of the project is on the east side of I-5, but a smaller portion lies on the west side of I-5. The project site is bisected by the California Aqueduct.

The Grapevine project area lies mainly in the Grapevine and Pastoria Creek U.S. Geological Survey (USGS) 7.5-minute quadrangles. Figure 2 shows the Grapevine project area limits. There is one parcel and a portion of two other parcels in the specific plan area that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57′9″ N and 118°55′39″ W. The Universal Transverse Mercator (UTM) coordinates for the approximate center are UTM Easting (meters) 323999 and UTM Northing (meters) 3869472 in Zone 11.

3.2 GRAPEVINE PROJECT OVERVIEW

The 8,010-acre project site is within the 15,644-acre Grapevine Planning Area identified in the Tejon Ranch Land Use and Conservation Agreement, a landmark agreement reached in 2008 with leading environmental organizations (including the Sierra Club, Natural Resources Defense Council, California Audubon Society, Endangered Habitats League, and Planning and Conservation League) to permanently preserve over 90% of Tejon Ranch as open space and limit development to designated areas near existing infrastructure such as I-5. The precise boundaries

of the 8,010-acre project site may be further adjusted based on the results of the ongoing environmental review and permitting process for the project, but would remain within the Grapevine Planning Area.

The Grapevine project site includes approximately 8,010 acres, of which approximately 3,232 acres (or about 40%) would be designated for agriculture (with grazing and open space as the predominant land uses) and approximately 4,778 acres (about 60%) would be developed as a new residential community and employment center. The community would leverage and build upon the economic expansion and job growth that has occurred at Tejon Ranch Commerce Center, located immediately north of the project on I-5. The Grapevine project would feature a series of compact neighborhoods linked by bicycle and pedestrian trails that provide convenient access to grocery and drugstores, professional services, schools, and parks. The project site is located along I-5, at the gateway to the Central Valley, and is immediately adjacent to the extensive open space that was conserved in the Tejon Ranch Land Use and Conservation Agreement.

The project, which would include up to 1,000 residential units and 10.7 million square feet of commercial land uses, is designed as a series of conveniently located village centers, each composed of a mix of housing, neighborhood-serving retail and office uses, schools, parks, and community services. Outside the village cores, the Grapevine project includes a mix of residential uses, office, research and development, regional commercial, freeway-oriented commercial, and light industrial/warehouse uses. Other potential public facilities, including a fire station, sheriff substation, transit facility/park-and-ride, and water and wastewater treatment facilities, are proposed throughout the community.

Access to the first phase of the Grapevine community would be from Interstate 5 at the existing Grapevine Road and Laval Road interchanges. During later phases of development, the existing Grapevine Road/Interstate 5 interchange may be expanded and relocated to the north. To allow for the relocation and replacement of the interchange, an existing Vehicle Enforcement Facility may be relocated to a Tejon Ranchcorp owned parcel on the west side of the junction of Interstate 4 and CA-99. The project would also improve an existing Tejon Ranchcorp

agricultural road east of the project area to provide tuck access for truck traffic currently using Edmonston Pumping Plant Road to travel to properties east of the project. The circulation network within the project is composed of two- and four-lane arterials, collector streets, and local streets organized in a grid pattern. All roads within the project site would be public. Multipurpose trails are proposed along Grapevine Creek, Cattle Creek, the southern foothills, and open space adjacent to the California Aqueduct at other locations throughout the project site. Some of these trails would connect to on-street Class 2 bike lanes. Water and sewer would be provided by the Tejon-Castac Water District.

3.2.1 Vicinity General Characteristics

The Tehachapi Mountains and Tejon Ranch conservation lands are located immediately to the south, east and west of the portion of the project site east of Interstate 5, and the Tejon Ranch Tecuya Creek Conservation Easement is to the west; Tejon Ranch Commerce Center (TRCC) is to the north. The slopes to the south and east of the site are generally undeveloped.

The Los Padres National Forest is located south and west of the portion of the project site located west of Interstate 5, as is the Wind Wolves Preserve conservation area. The Pastoria Energy Facility, Griffith Sand and Gravel mine and Edmonston Pumping Plant are all located several miles east of the project area. The Tejon Ranch is approximately 270,000 acres in size and is currently held in private ownership by Tejon Ranchcorp. Tejon Ranch includes agricultural fields, fallow farmland, open range land for cattle grazing, hunting and fishing areas. Some areas of the Ranch are also used as television and motion picture filming.

3.2.2 Current Use of Grapevine Project Area

The major portion of the Grapevine project area lying south of the California Aqueduct is used by the Tejon Ranch as open range land for livestock grazing. Grapevine Center is located within this portion of the project site and straddles the I-5 and Grapevine interchange. The Grapevine Center includes several gasoline service stations, a motel, and restaurants. The existing Grapevine Wastewater Treatment Plant (WWTP) serves the Grapevine Center commercial area and consists of three unlined percolation/evaporation ponds with a total water surface area of 6.62 acres. The WWTP is permitted for a treatment capacity of 0.235

million gallons per day (MGD). One of the three ponds is divided into four smaller cells. Currently, only one of the four smaller cells is in use at any given time and the WWTP processes approximately 0.05 MGD. A vineyard, managed by the Tejon Ranch, and a residential dwelling is located south of the Grapevine Center.

Of that portion of the project site located north of the California Aqueduct, approximately 942 acres are used for almond orchards and currently fallow farm land, both managed by the Tejon Ranch, and approximately 581 acres are leased to Vintage Petroleum, Sojitz Energy, and E&B Natural Resources for oil and gas exploration and production activities. These leases include active, inactive, and abandoned oil and gas wells. The remainder of the project area is also leased for potential future oil and gas exploration and production activities. A complete description of oil and gas production and exploration activities within the Grapevine project area is provided in WZI, Inc.'s November 2014 report entitled "Mineral Resources Evaluation".

Exhibit 1 includes an aerial overview of the Grapevine project site illustrating its current land uses. Also included are diagrams showing the current and past tenants located at the Grapevine Center portion of the project site.

Exhibit #1 Grapevine Project Area Past and Current Uses, Tejon Ranchcorp, 2013

3.2.3 Structures

The following are known addresses within the Grapevine project site, which currently include or previously included building structures on the premises. Each of the currently existing structures was inspected to the extent available during the Site Reconnaissance portion of the investigation and, where appropriate, additional information regarding these addresses is provided in the applicable report sections (see Exhibit 1 for locations):

ADDRESS	DESCRIPTION	USE
5665 Santa Elena Drive, Lebec, CA 93243	Tejon Ranch Landscape Maintenance Shop	Store supplies, vehicles and equipment, and gardening tools. Storage of pesticides, herbicides, fungicides, surfactants, and fertilizers.

ADDRESS	DESCRIPTION	USE
		Also used as headquarters and break room for landscape personnel.
9000 Countryside Court, Lebec, CA 93243	Ramada Inn Hotel and Guest Swimming Pool	Commercial Hotel
9021 Grapevine Road West, Lebec, CA 93243	Don Percio Cantina and Grill	Commercial Restaurant
9058 Mountain Base Road, Lebec, CA 93243	Phillips 76 Gas Station and former Unocal Gas Station	Commercial Fueling Station
9069 Grapevine Road West, Lebec, CA 93243	Shell Gas Station and former Texaco Gas Station	Commercial Fueling Station
9012 Grapevine Road East, Lebec, CA 93243	Valero Gas Station and former Tejon Mobil Gas Station	Commercial Fueling Station
8968 Grapevine Road East, Lebec, CA 93243	Jack-in-the-Box	Commercial Restaurant
9046 Grapevine Road East, Lebec, CA 93243	Denny's and former ARCO Gas Station	Commercial Restaurant
8501 Grapevine Road, Lebec, CA 93243	Single Family Residence	Residential
9068 Grapevine Road West, Lebec, CA 93243	Former Union Oil Service Station #4734	Commercial Fueling Station
9027 Grapevine Road East, Lebec, CA 93243	Former Ranch House Restaurant	Commercial Restaurant
9067 Grapevine Road East, Lebec, CA 93243	Former Shell Gas Station	Commercial Fueling Station
8977 Grapevine Road East. Lebec, CA 93243	Former Standard Gas Station and former Chevron Station #9-8616	Commercial Fueling Station
Grapevine Center - Grapevine Road West	Former Denny's Restaurant	Commercial Restaurant

Other non-building structures observed within the Grapevine project area include the California Aqueduct, several livestock watering ponds, Ostrich Storm Water Detention Basin, Rose Station and Westside Cattle Corrals, water production wells A7 and Tejon #201, and oil and gas exploration and production wells and appurtenances (crude oil and water storage tanks, above and below ground crude oil piping, valves and manifolds, etc.).

3.2.4 Roads

The following public roads are within the Grapevine project area:

- Grapevine Road
- Grapevine Road West
- Grapevine Road East
- Countryside Court
- Mountain Base Road
- Edmonston Pumping Plant Road
- Laval Road
- Gibson Road

Numerous private access roads and trails for oil field, agricultural, hunting, and cattle management purposes are also located within the Grapevine project area. The general public does not have direct access to these unnamed and primarily dirt or gravel roads/trails.

3.2.5 Potable Water

Potable water is supplied to the Grapevine project area by Wheeler Ridge Maricopa Water Storage District (water wholesaler) and the Tejon Castac Water District (retail provider) and Tejon Ranch private wells.

3.2.6 Sewage Disposal System

Sewage generated within the project area is discharged into the Grapevine Center WWTP. The WWTP plant consists of three unlined percolation/evaporation ponds with a total water surface area of 6.62 acres (see Section 3.2.2).

3.2.7 Heating/Cooling System

Residential and commercial structures that did have heating and cooling systems consist of either electric or swamp cooler systems.

3.2.8 Storm System

Storm water runoff is conveyed via surface contours and culverts into existing natural watercourses. These watercourses include Grapevine Creek, Cattle Creek, Pastoria Creek, and Live Oak creek. In addition a few small storm water detention basins are located on site.

3.2.9 Wastewater

Industrial or manufacturing process wastewater discharge systems noted on the subject property include wastewater produced during oil and gas extraction activities in SP parcels 6b, 6c, 6d, and 6e. This waste water is temporally stored in above ground tanks on these parcels and subsequently hauled off-site for appropriate disposal. An unlined pond in SP parcel 6b is used for percolation/evaporation of wash-out water. The wash-out water is generated by back flushing irrigation water treatment filter units located next to the pond. Agricultural chemicals are also added to the water treatment unit at this location.

3.2.10 Other Improvements

No other improvements, not otherwise noted in this report, were observed during this investigation.

3.3 CURRENT USES OF ADJOINING PROPERTIES

The Grapevine project area is within and surrounded by the Tejon Ranch. The Tejon Ranch is approximately 270,000 acres in size and is currently held in private ownership by Tejon Ranchcorp.

Properties that are operated by others that border, or are in the general vicinity of the Grapevine project area, include:

- The Caltrans Weigh Station. This property is located north of the Grapevine Center along the south bound lanes of I-5.

- The Plains Petroleum Grapevine Pump Station located south of the Grapevine Center at 7901 Grapevine Road
- The Griffith Company, rock quarry and asphalt plant located at the eastern end of the Grapevine project area just north of the California Aqueduct.
- The Pastoria Energy Plant located immediately west of the Griffith Company rock quarry and asphalt plant
- The Edmonston Pumping Station located on California Aqueduct immediately southeast of the Griffith Company.
- Abandoned small buildings (2) previously occupied by The Pacific Telephone and Telegraph Company located on APN 241-240-09 on the south side of Edmonston Pumping Station Road.
- The ExxonMobil Grapevine Pumping Station located just outside the most southern end of the Grapevine project area at 7815 Grapevine Road.
- The Tejon Ranch Commerce Center located west of the northern portion of the Grapevine project area.
- Privately owned-lands generally used for cattle grazing and/or oil and gas exploration and production activities.

4.0 USER PROVIDED INFORMATION

Section 6 of ASTM E 1527 defines certain responsibilities of the User that are to be reported to the environmental professional for inclusion in the ESA report. The information provided to Pacific Edge by the User is listed below.

4.1 TITLE RECORDS/ ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The User did provide a copy of current Title Records. These records area available on the Grapevine Project Web Portal (http://www.grapevineteam.com/sitepages/home.aspx).

There were no environmental liens, or activity and use limitations reported to Pacific Edge by the User regarding the property.

4.2 SPECIALIZED KNOWLEDGE OR EXPERIENCE

Special knowledge or experience reported to Pacific Edge by the User regarding the Grapevine project area included information regarding:

- Oil and Gas Leases,
- Grapevine Center current and historic commercial uses and tenants,
- Agricultural chemical use,
- Grapevine WWTP management operations, and
- Grapevine project planning documents and studies

4.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

There was no valuation reduction for environmental issues reported to Pacific Edge by the User regarding the property.

4.4 OWNER, KEY SITE MANAGER AND OCCUPANT INFORMATION

The following information regarding owner, key site manager and occupant(s) of the property was reported to Pacific Edge:

4.4.1 Owner

Tejon Ranchcorp

4.4.2 Key Site Manager

Mr. Pablo Gonzalez (Tejon Ranch Company, Property Management Supervisor), Jared Britschgi (Tejon Ranch Company, Farming Operations), and Tony Mattias (Tejon Ranch Company, Ranch and Wildlife Supervisor)

4.4.3 Occupant (S)

Various commercial tenants within the Grapevine Center, as referenced throughout this report.

4.5 REASON(S) FOR PERFORMING ESA

The following reason for performing the ESA was reported to Pacific Edge by the User:

- Completing environmental review and processing entitlements for planned Grapevine community development.

4.6 OTHER

The User reported the following other information to Pacific Edge regarding the property:

1. Property Type - Various
2. Transaction Type – N/A
3. Current Use – Various

There were no other special circumstances reported to Pacific Edge by the User regarding the property.

5.0 RECORDS REVIEW

5.1 ENVIRONMENTAL DATABASES

An environmental record search report was obtained from Environmental Data Resource, Inc. (EDR) for the Grapevine project area.

Exhibit #4 EDR Radius Map Search, EDR, 2014

The information presented in the EDR report represents a compendium of data from numerous federal, state, regional, local and private industry database sources. Refer to the introductory text of the EDR report for more detailed descriptions of the database sources searched.

EDR geographically analyzed the data and plotted it on several maps utilizing the address information provided by the databases. That address information was geocoded (assigned latitude and longitude coordinates) utilizing mapping information provided in the US Government Tiger Files.

All the locations listed in the EDR report are known sites of environmental interest, but not all are necessarily sites of current environmental contamination. The listed sites are subject to federal, state and local environmental laws and may be considered as potentially having some environmental impact on the property. However, the criteria for listing are that the site is subject to regulation, and, listing does not always mean that a release of a material has occurred. Refer to the exhibit for listing details.

5.2 LOCAL ENVIRONMENTAL RECORDS

5.2.1 Regional Water Quality Control Board

A search for environmental records was requested from the Central Valley Regional Water Quality Control Board (RWQCB) on October 2, 2013 for the following on-site properties:

a) 9012 Grapevine Road East, Lebec, CA 93243

b) 9069 Grapevine Road West, Lebec, CA 93243

c) 9068 Grapevine Road West, Lebec, CA 93243

d) 8968 Grapevine Road, Lebec, CA 93243

e) 8977 Grapevine Street, Lebec, CA 93243

f) Highway 99 & Grapevine, Lebec, CA 93243

g) 7815 Grapevine Road, Lebec, Ca 93243

h) 9067 Grapevine Road East, Lebec, CA 93243

i) 9058 Mountain Base Road, Lebec, CA 93243

The CVRWQCB has not responded to the request for information. However, a review of the California State Water Resources Control Board GeoTracker web site at http://geotracker.waterboards.ca.gov was conducted by Pacific Edge for the above sites. In addition, the EDR Radius Map™ Report with GeoCheck® provided in Exhibit 4 includes available information from the RWQCB on these sites.

Exhibit #5 CVRWQCB, October 2, 2013

5.2.2 Department of Toxic Substances Control

Environmental records were requested from the Department of Toxic Substances Control (DTSC) on October 2, 2013 for the same on-site properties listed in Section 5.2.1.

The DTSC has not responded to the information request. However, a review of the DTSC Envirostor website (http://www.envirostor.dtsc.ca.gov/public/) was conducted by Pacific Edge for the above sites. In addition, the EDR Radius Map™ Report with GeoCheck® provided in Exhibit 4 includes available information from the DTSC on these sites.

Exhibit #6 DTSC, October 2, 2013

5.2.3 Kern County Environmental Health Division

Environmental records were requested from the Kern County Environmental Health Division (KCEHD) on October 2, 2013 for the same on-site properties listed in Section 5.2.1.

Follow-up email correspondence were made to Lydia Von Sydow, Waste Management Technician II, of the KCEHD on February 2, 2014, February 19, 2014, March 4, 2014, March 7, 2014, and April 7, 2014. The KCEHD is the Certified Unified Program Agency (CUPA) responsible for USTs in the project area. In May 2014, available records for these sites were provided to Pacific Edge. Copies of these records are provided in Exhibit #7.

Exhibit #7 KCEHD Records, May, 2014

5.2.4 Division of Oil, Gas & Geothermal Resources

A search of oil, gas and geothermal wells within and around the Grapevine project area was conducted by reviewing maps obtained from the California Division of Oil, Gas and Geothermal Resources (DOGGR).

A review of the DOGGR online database and maps indicate that there are numerous oil and gas wells (both abandoned and existing wells) within and around the Grapevine project area. Pacific Edge filtered this database to include parcels within the Grapevine project area and this filtered database is provided in Exhibit 2.

Pacific Edge also requested that EDR conduct a well search for the Grapevine project area. Review of EDR's well search report indicates that the provided information is consistent with the information available from DOGGR.

Exhibit #8 Well Search Report and Map, EDR, 2013

5.3 PHYSICAL SETTING

5.3.1 Topography

The most recent issue of a USGS 7.5 Minute Topographic maps depicting the geographical area of the Grapevine project area was obtained from EDR, previously referenced. These topographical maps are included in the historical topographic map exhibit presented later in this report.

5.3.2 Groundwater

The depth to groundwater is based on various engineering and planning studies conducted for the Grapevine project. The depth to groundwater at the Grapevine project is approximately 500 to 1,000 feet below ground surface. Shallower, localized perched groundwater may exist in certain locations of the project area.

5.4 HISTORICAL USE INFORMATION

5.4.1 Aerial Photographs

Aerial photographs of the geographical area of the Grapevine project area were requested from EDR.

Exhibit #9 Aerial Photographs, EDR, Circa 1956 - 2002

Aerial photographs from 1956, 1968, 1974, 1978, 1984, 1985, 1987, 1988, 1989, 1992, 1995, and 2002 were obtained. Aerial data relevant to locations within the Grapevine project area is summarized in Section 8.1.7 of this report.

5.4.2 Fire Insurance Maps

Copies of all available Sanborn Maps for the geographical area of the Grapevine project area were requested from EDR.

Exhibit #10 Sanborn Maps, EDR, 2013

Sanborn coverage was not available for the property and surrounding area.

5.4.3 USGS 7.5 Minute Topographic Maps

Copies of available historical USGS 7.5 Minute Topographic Maps for the geographical area of the Grapevine project area were requested from EDR.

Exhibit #11 Historical Topographic Maps, EDR, Circa 1903 - 1995

Topographic Maps were received for 1903, 1910, 1934, 1941, 1942, 1947, 1950, 1955, 1958, 1966, 1968, 1973, 1974, 1986, 1988, 1991, 1992, and 1995. Topographic Map data relevant to locations on the Grapevine project area is summarized in Section 8.1.7 of this report.

5.4.4 Local Street Directories

Copies of telephone directories, commonly known as City Directories, were obtained from EDR for the property.

Exhibit #12 EDR-City Directory, EDR , circa 1975 - 2010

City Directories were obtained for streets in the immediate vicinity of the Grapevine project area. Street directory data relevant to locations on the Grapevine project area is presented later in this report.

5.4.5 Recorded Land Title Records

The Tejon Ranch Company and/or Tejon Ranchcorp has owned the Grapevine project area for many decades. Therefore, a Chain-of-Title Search was not necessary for the project area.

5.4.6 Other Historical Sources

The Tejon Ranchcorp provided additional historical information. This information included 1) Restricted Agricultural Chemical Use Permits obtained from Kern County for the years 2005 through 2013, 2) a list of agricultural chemicals used and the crops these chemicals are used on, and 3) a list and location of prior tenants at the Grapevine Center (see Exhibit #3).

No other property use information was obtained from other historical sources during this investigation.

6.0 SITE RECONNAISSANCE

6.1 OBJECTIVE OF SITE RECONNAISSANCE

The objective of the site reconnaissance is to collect information regarding RECs in connection with the Grapevine project area.

6.2 METHODOLOGY AND LIMITING CONDITIONS

6.2.1 Methodology

Each separate property possesses unique physical and environmental characteristics, and thus the methodology for every site reconnaissance must be uniquely adapted to suit those characteristics.

This section of the report includes observations made during the site reconnaissance of the property that pertain to its unique areas of environmental interest.

A physical inspection of the Grapevine project area was conducted during several site visits, with the first site visit held on September 11, 2013 and the last visit conducted on April 22, 2014. Initial inspections conducted during September 11th through September 13th, 2013 included the entire project area. Several follow-up inspections were conducted for the active oil field parcels, with the last inspection conducted on April 22, 2014. The inspections were visual and the findings are described below. An overview of the Grapevine project area was recorded on a series of still photographs that are on file with Pacific Edge. Selected photographs are included in this report.

Exhibit #13 Photographic Log, Pacific Edge, 2013-2014

The physical inspection of the Grapevine project area contained the following elements:

1. Observation of the entire outer periphery of the development area within the Grapevine project area, to the extent accessible, and contiguous properties, from a vehicle driven along public thoroughfares, roads and other access ways.

2. Observation of the full outer periphery of the development area within the Grapevine project area, and bordering areas of contiguous properties, on foot, to the extent accessible.
3. Observation of the full outer periphery of the Grapevine project area of all structures, on foot, to the extent accessible.
4. Observation of the full interior of all structures on the Grapevine project area, on foot, to the extent accessible.
5. Observation of the open areas on the Grapevine project area, on foot, to the extent accessible.

6.2.2 Limitations

There were no limitations encountered during this inspection, with the exception of not all of open/fallow land areas were inspected. The open/fallow land area was inspected by driving along hunting and cattle management roads or from a high vantage point to observe the general nature of the area. In addition, interior inspection of the restaurants and the hotel located in the Grapevine Center was limited to those areas accessible by the general public.

6.3 OBSERVATIONS

Observation information collected during the site reconnaissance that pertains to site description is presented in other sections of this report, as follows:

1. Site and Vicinity General Characteristics are presented in Section 3.2.1
2. Current Use of the Subject Property is presented in Section 3.2.2
3. Descriptions of Structures, Roads, and Other Improvements are presented in Section 3.2.3 and 3.2.4
4. Current Uses of Adjoining Properties are presented in Section 3.3

The balance of this section describes areas of observation that pertain to identification of potential RECs on both interior and exterior portions of the subject property, and, on the immediate bordering areas of contiguous properties. The locations of inspection are described within each section to identify the applicable portions of the Grapevine project area or the contiguous property being discussed.

6.4 SIGNIFICANT SURFACE FEATURES

Examples of surface features that would be considered significant to this investigation, if present, include items such as pits, ponds, lagoons, standing surface water, impoundments, landfills, depressions, storm drains, ditches, irrigation canals, creeks, streams, wetlands, erosion, and other topographical irregularities. The exterior of the property and the immediate borders of contiguous properties were visually inspected for the presence of significant surface features.

6.5 SUBSURFACE CONDUITS

Examples of subsurface conduits that would be considered significant to this investigation, if present, include items such as clarifiers, storm drains, septic tanks, cesspools, leach lines, wells, floor drains, sumps and other subsurface passageways. The property and the immediate borders of contiguous properties were visually inspected for the presence of subsurface conduits.

6.6 STRESSED VEGETATION

The condition of vegetation on a site can provide indications for areas that bear further scrutiny. Areas that would typically be covered by natural vegetation, which are atypically barren, may be due to natural growing conditions, or caused by hidden chemical contamination. Areas that contain ornamental landscaping which is stunted in growth, atypically colored, or dead may merely be due to lack of maintenance, or may also be caused by hidden chemical contamination. Vegetation on the surface area of the property was visually inspected for unusual/atypical conditions.

6.7 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

Evidence of use, treatment, storage, disposal or generation of hazardous substances and petroleum products takes many forms. Some are obvious and others less conspicuous or merely implied by suspicious conditions. Identification of a condition or substance as hazardous or non-hazardous, or as a petroleum product, may require additional investigation beyond visual observation. Therefore, the focus of this portion of the site reconnaissance is directed towards evaluating common visual indicators of potential hazardous substances and petroleum products, identification of any obvious use, treatment, storage, disposal or generation of same, and,

reporting of any other unidentified substances and/or suspicious conditions noted. Substances that are clearly identifiable as non-hazardous are not included this report.

The common visual indicators of potential hazardous substances and petroleum products evaluated during this site reconnaissance include the following:

1. Chemical Storage and Use
2. Chemical Releases, Spills, Leaks
3. Common Sources of Polychlorinated Biphenyls (PCB)

6.8 CHEMICAL STORAGE AND USE

Examples of chemical storage and use that were evaluated during this investigation, if present, include items such as Aboveground Storage Tanks (AST), Underground Storage Tanks (UST), fuel dispensers, vent pipes, fill pipes or access ways, drums, vats, bottles or cans of 5-gallon or greater capacity, or any other suspicious containers. The interior and exterior of the property, and the immediate borders of contiguous properties, were visually inspected for evidence of chemical storage and use.

6.9 CHEMICAL RELEASES, SPILLS, LEAKS

Examples of chemical releases, spills and leaks that were evaluated during this investigation, if present, include items such as strong, pungent or noxious odors, corrosion, surface discharges of liquids, stained soil, pavement, floors, walls or ceilings, or any other anomalous discolorations except water stains. The interior and exterior of the property, and the immediate borders of contiguous properties, were visually inspected for evidence of chemical releases, spills and leaks.

6.10 POLYCHLORINATED BIPHENYLS

One common source of potential Polychlorinated Biphenyl (PCB) contamination on properties is older vintage, leaking electrical transformers. PCBs were routinely used in the past as an insulator in cooling oils found in oil cooled electrical transformers. Other common potential sources of PCB's include capacitors, lamp ballasts, hydraulic fluids, cutting oils and heat transfer systems. Analytical testing is required to reliably ascertain the presence or absence of PCB's. The interior and exterior of the property, and the immediate borders of contiguous properties, were visually inspected for evidence of common sources of PCB’s.

7.0 INTERVIEWS WITH OWNERS AND OCCUPANTS

7.1 INTERVIEW WITH OWNER

On September 11, 2013, Pacific Edge interviewed Mr. Derek Abbott, Vice President, Tejon Ranchcorp regarding current and past Grapevine project area operations. Mr. Abbott escorted Pacific Edge around the Grapevine project area and provided access to the various structures and outlying areas. During preparation of this report, Pacific Edge made additional inquiries regarding the Grapevine project area and conducted follow-up interviews and other communications with Mr. Abbott, Mr. Pablo Gonzalez (Tejon Ranch Company, Property Management Supervisor), Jared Britschgi (Tejon Ranch Company, Farming Operations), and Tony Mattias (Tejon Ranch Company, Ranch and Wildlife Supervisor). Information provided during these interviews is presented throughout this report.

In addition to the oral interviews, a written questionnaire was given to Mr. Abbott for distribution to various owner representatives most familiar with various operations within the Grapevine project area. These questionnaires requested information regarding current and known historical uses of the project area, and any known current or historical recognized environmental conditions within the Grapevine project area. The questionnaires also included a query regarding the existence and availability of certain documents that may be helpful in providing additional environmental information. The completed questionnaires have been received and reviewed by Pacific Edge.

Exhibit #14 Owner and Occupant Questionnaires, 2013

7.2 INTERVIEW WITH SITE MANAGER

The site manager is the same as the owner.

7.3 INTERVIEW WITH OCCUPANTS

The owner questionnaire described above was also distributed by Mr. Abbott to current occupants/tenants and oil lease holders within the Grapevine Center. Questionnaires completed by occupants/tenants and current oil lease holders are also included in Exhibit #14.

7.4 INTERVIEW WITH GOVERNMENT OFFICIALS

Records obtained from various environmental agencies were sufficient to adequately evaluate the property. Therefore, interviews with government officials were not necessary.

7.5 INTERVIEW WITH OTHERS

Records and information obtained during this investigation were sufficient to adequately evaluate the Grapevine project area. Therefore, interviews with others were not necessary.

8.0 EVALUATION

8.1 FINDINGS

Based upon the results of this investigation, the findings in connection with the Grapevine property area are as follows:

8.1.1 Environmental Database Listings within Grapevine Project Area

There following database listings were reported within the Grapevine property area. These listings include the following and additional information regarding these sites is presented in Section 8.1.4:

Listing Agency (database)	Site Name/Address	Description	Status
ERNS, LUST, Cortese, SWEEPS, UST, HIST UST	Former UNOCAL #4734 (9068 Grapevine Road West)	On 1/7/1992 approximately 18 gallons of gasoline was spilled at the site. Cleanup was conducted and on 3/10/1993 the Kern County Environmental Health Services Department issued a no further action letter.	Unknown
LUST, UST, HAZNET	Former Grapevine Shell (9067 Grapevine Road East)	In 1998 USTs were removed from the site and contamination found. Subsequent investigation by Delta indicated contamination attenuated with depth, and that the groundwater was very deep at 600-feet. Kern County Environmental Health Services Department issues no further action needed on 1/23/2009.	Closed
FINDS, UST, EMI, HIST AUTO STATION	Former Tejon Mobil/Valero (9012 Grapevine Road East)	The former Tejon Mobil station was located at the currently operating Valero station site. No violations noted in database for Tejon Mobil. ***Several recent violations noted for Valero station. These violations involve monitoring, record keeping, and maintenance issues and do not indicate the occurrence of any significant spills.***	Ongoing
UST, HIST AUTO	Lebec Shell/Former	The former Lebec Texaco was located at the currently operating Lebec Shell station	Ongoing

Listing Agency (database)	Site Name/Address	Description	Status
STATION	Lebec Texaco (9069 Grapevine Road West)	site. No violations noted in database for Lebec Texaco. ***Numerous violations from 2000 to 2013 noted for current Shell station. These violations involve monitoring, record keeping, and maintenance issues and do not indicate the occurrence of any significant spills.***	
SWEEPS UST, HAZNET, HIST AUTO STATION	Former Chevron Station #9-8616 (8977 Grapevine Road)	The only record in database is that the station had 3 gasoline tanks and 1 waste oil tank. No other records available for this site.	Unknown
HAZNET	Tejon Ranch Company (9021 Grapevine Road East)	This record is for the disposal of 0.84 tons of asbestos containing waste at an off-site landfill in 2005. The Tejon Ranch Contact is listed as Pablo Gonzalez.	Closed

In addition to the above database listings, approximately 146 oil and gas wells (active, dry holes, abandoned oil, and abandoned gas) were listed within the Grapevine project area. Information related to these wells is provided in Exhibits #2 and #8. The majority of wells are located within the Grapevine project SP parcels 6b, 6c, 6d and 6e. However, there are wells (mostly abandoned wells) located elsewhere within the Grapevine project area.

8.1.2 Environmental Database Listings on Surrounding Property

There were 13 database listings reported on surrounding properties. A review of this listing did not indicate any evidence of any direct negative environmental impact on the subject property, with the following possible exception:

The ExxonMobil Grapevine Pumping Station 99-GVR is a crude oil pumping station for the Mobil M-70 pipeline at 7815 Grapevine Road; which is located south and adjacent to the most southern extent of the Grapevine project area (see Exhibit 1 for location). The cleanup oversight agency is the CVRWQCB. The CVRWQCB has assigned the site Case No.

SLT5FR714638 and environmental reports have been uploaded to the California State Water Resources Control Board GeoTracker web site.

The Mobil M-70 crude oil pipeline, an idle 12-inch diameter Mobil M-1 pipeline (currently containing a MCI fiber optic cable), a pair of idled 8-inch diameter Mobil crude pipelines and a high pressure Southern California Gas pipeline are all located within the ExxonMobil Pumping Station.

Review of environmental reports available on GeoTracker for this site indicate that crude oil petroleum leaks have been documented at the site from 1947 to 1999 and an estimated 4,704 gallons of crude oil have been released to the environment as a result of leaks believed to be from their underground piping. In 1998, oil and oily water was observed seeping from the base of the embankment next to Interstate I-5. The ExxonMobil Grapevine Pumping Station 99-GVR is located at the top of this embankment. At the base of this embankment is a storm drain that follows Interstate I-5. Based on surface contours presented in environmental reports for ExxonMobil Grapevine Pumping Station 99-GVR, it is assumed that this storm drain flows to the north toward the southern end of the Grapevine project area.

Soil and groundwater investigations have been conducted at this site since 1999. Work at the site has included the removal of floating petroleum from the top of shallow perched groundwater, which occurs at a depth of approximately 40-feet below ground surface.

Groundwater monitoring has been ongoing since 2000. The groundwater flow direction over the past 14 years has been described as toward the east, northeast, and southeast. The predominant groundwater flow direction appears to be to the east down the embankment toward Interstate I-5. The four groundwater sampling events conducted in 2000 included the analysis of total petroleum hydrocarbons (TPH) as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE). TPH as gasoline, toluene, ethylbenzene, total xylenes, and MTBE were not detected above the laboratory reporting limit. TPH as crude oil was detected in several groundwater wells and a low concentration of benzene (0.68 ug/L) was detected in monitoring well MW-1 during the first quarter of 2000. After 2000, groundwater sampling has not included the analysis of TPH as gasoline, benzene, toluene, ethylbenzene, total xylenes, and MTBE in the original monitoring wells. Additional

groundwater monitoring wells were installed at various times after 2000. The initial sampling of these wells included analysis of TPH as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and MTBE. Subsequent sampling events have only included the analysis of TPH as crude oil even though a low concentration of TPH as gasoline was detected in monitoring well MW-3 (150 ug/L) and MW-12 (190 ug/L) during their initial sampling event.

In April 2013, the CVRWQCB required additional investigation work at the site to evaluate if there are continuing releases occurring at the site. On December 16, 2013, Cardno ERI, Inc., on behalf of ExxonMobil Services, submitted to the CVRWQCB a work plan for site assessment. The Cardno ERI, Inc. work plan states that it does appear that a continued release is occurring at the site and is proposing to further delineate the lateral extent of soil and groundwater to the east and southeast of the Site by installing 5 temporary monitoring wells. Soil and groundwater samples would be collected at each of the proposed locations. Information regarding the site's environmental history and on-going environmental work is provided as:

Exhibit #15 Work Plan for Site Assessment, Cardno ERI, December 16, 2013

8.1.3 Orphan Sites

Numerous database listings are reported as Orphan Sites. EDR has determined these sites to either be beyond the ASTM specified search radius from the subject property, or, have insufficient or incomplete information to accurately determine their geographical location using US Government Tiger File mapping information. Review of the orphan site listings indicate that these sites are well beyond the ASTM search radius from the Grapevine project area or are sites not within the Grapevine project area and are not of concern.

8.1.4 Local Environmental Records

Exhibit #7 provides KCEHD records for historic and existing gas stations located within the Grapevine Center. The KCEHD did not have records for the former Standard Gas Station (believed to be located at 8977 Grapevine Road East and former Chevron #9-8616 location) and the former Arco Gas Station (located at current day Denny's site). The following provides a summary of KCEHD provided records:

8.1.4.1 9058 Mountain Base Road

The Phillips 76 Gas Station currently occupies the site and two 15,000-gallon gasoline underground storage tanks (USTs) are present at the site. Prior to Phillips 76, Unocal Gas Station #7580 operated at this location beginning in 1994. The KCEHD records do not indicate a significant release at the site. There is no indication in the KCEHD records that environmental studies (Phase II testing) have been conducted at this location since it has been operating as a gas station for the last 20 years.

8.1.4.2 9069 Grapevine Road West

The site first began operation as a Texaco Gas Station in 1961 and included four 4,000-gallon USTs. In 1985, Texaco replaced these USTs with five fuel tanks and one waste oil tank to accommodate renovation of the site. It is believed that this renovation included a car wash facility that is still present at the site but is not operational. The car wash includes a clarifier for treatment of wash water. In 1991, Groundwater Technology, Inc. conducted a Phase II investigation of soil to 15' below ground. Benzene, toluene, ethylbenzene, xylenes (BTEX), and TPH were detected in soil, with up 2,300 mg/kg of gasoline detected. Groundwater Technology, Inc. recommended no further action and KCEHD concurred. Around 2000, the site was taken over by Shell. In 2000, Miller Brooks Environmental conducted a Phase II investigation on behalf of Shell. A follow-up Phase II investigation in 2006 was also conducted by Miller Brooks Environmental. During Miller Brooks Environmental investigation's, gasoline was detected in soil at the dispensers and diesel at the dispenser and waste oil tank. Miller Brooks Environmental recommended no further action because contamination attenuated with depth. There are no records indicating that KCEHD concurred with this recommendation.

8.1.4.3 9068 Grapevine Road West

The KCEHD records do not indicate when the Unocal Oil Station #4734 began operation at this location. However, the records indicate that in 1986 the Unocal station was present and included two 10,000 gallon gasoline USTs, and one 550-gallon waste oil UST. During demolition of the station in 1992 gasoline contamination was discovered and the tank excavation was expanded to remove contaminated soil. Due to site constraints, the

excavation was ceased at 35' below ground with up to 3,500 mg/kg of gasoline remaining in soil. In 1993, GeoResearch conducted a Phase II investigation by drilling a boring in the location of remaining gasoline contamination to a depth of 65' below ground. Gasoline contamination was not detected at 65' below ground and GeoResearch recommended no further action with KCEHD's concurrence.

8.1.4.4 9067 Grapevine Road East

The only record provided by KCEHD for this site is a case closure summary report dated September 9, 2009. The case closure summary indicates that Grapevine Shell occupied the site and included two 10,000-gallon gasoline USTs, one 8,000-gallon gasoline UST, and one 500-gallon waste oil UST. The KCEHD case closure summary states "upon review of the data, site should qualify as low risk site and be a candidate for closure. In 1998 two 10,000-gallon, one 8,000-gallon and one 500-gallon tanks were removed from the site. Initial soil samples 6' beneath the tanks indicated gasoline contamination of 1,100 mg/kg and Methyl Tertiary Butyl Ether (MTBE) of 4.7 mg/kg. Soil borings were advanced to a depth of 80' below ground. Contamination attenuated to gasoline and MTBE of non-detect. The depth to first groundwater is 600' below ground."

8.1.4.5 9012 Grapevine Road East

In 2000, a permit to construct and install USTs was obtained to operate Tejon Mobil at this site. Tejon Mobil installed two 30,000-gallon gasoline USTs, one 20,000-gallon gasoline UST, and one 10,000-gallon diesel UST. In 2006, the KCEHD issued a notice of violation to Tejon Mobil for failing to provide certification of UST monitoring equipment, failure to conduct secondary containment testing, failure to have secondary monitoring system installed in dispenser pans, and failure to train employees in operation of USTs systems. In 2012 Valero took over operation of the site. There were no records indicating Phase II testing has been conducted at the site since its initial operation 14 years ago.

8.1.4.6 8977 Grapevine Road East

Chevron Gas Station #9-8616 operated at this site from 1968 to December 1992 when Chevron abandoned the location. This is also the site that Tejon Ranch Company indicates that a Standard Gas Station existed (see Exhibit 1). In April, 1993, Chevron removed one

12,000-gallon gasoline UST, one 10,000-gallon gasoline UST, one 5,000-gallon gasoline UST, and one 1,000-gallon waste oil UST. During removal activities soil contamination was encountered. In 1994, Chevron-Bechtel Environmental Alliance conducted a Phase II soil investigation and subsequently remediated soil by excavation and off-site disposal. Soil remediation was conducted until cleanup goals were reached. These cleanup goals were 100 mg/kg for gasoline, 0.3 mg/kg for benzene and toluene, 1 mg/kg for ethylbenzene, and 5 mg/kg for total xylenes. Approximately 750 cubic yards of contaminated soil was excavated and disposed off-site. On November 4, 1994, the KCEHD granted closure of the case with no further action required.

8.1.5 Topography

The Grapevine project area lies mainly in the Grapevine and Pastoria Creek U.S. Geological Survey (USGS) 7.5-minute quadrangles. There is one parcel and a portion of two other parcels in the project area that lie entirely within the Mettler USGS 7.5-minute quadrangles. The latitude and longitude of the approximate center of the site is 34°57′9″ N and 118°55′39″ W. The Universal Transverse Mercator (UTM) coordinates for the approximate center are UTM Easting (meters) 323999 and UTM Northing (meters) 3869472 in Zone 11.

8.1.6 Groundwater

The depth to groundwater at the Grapevine project area is approximately 500 to 1,000-feet below ground surface. Shallower localized perched groundwater may exist in certain areas of the Grapevine project site.

8.1.7 Aerial Photographs and Topographic Maps

Aerial photographs (Exhibit #9) and topographic maps (Exhibit #11) show the following:

Date	Observations	Source
1903	The Grapevine project area and surrounding area are undeveloped.	Topographic Map
1910	The Grapevine project area and surrounding area are undeveloped.	Topographic Map
1934	The Grapevine project area and surrounding area are largely undeveloped. However, several dirt roads are noted and a remote unimproved “landing field” is noted on the NW section of T11N R19W, which is the current day most northern almond field within the Grapevine project area. This seems to indicate that some	Topographic Map

Date	Observations	Source
	development is occurring in the general area	
1941	The Grapevine project area and surrounding area appear similar to the 1934 map, but not much map coverage of the area is provided.	Topographic Map
1942	The Grapevine project area and surrounding area appear largely undeveloped but more dirt roads are now present throughout the area. Possible gas and oil well activity is noted within the Tejon Oil Field area. Richfield Oil Co and General Petroleum Pumping Stations noted and appear to be just south of the Grapevine project area along the 99 Highway which will become the I-5.	Topographic Map
1947	Not very good topographic coverage of area. Area around Grapevine Creek is most of coverage and appears to be undeveloped.	Topographic Map
1955	The Tejon Oil Field is noted and significant oil and gas development has occurred.	Topographic Map
1956	Significant oil and gas development observed on Grapevine project area parcels along Laval Road. Potential drilling mud earthen sumps visible. Grapevine Center not developed. Agricultural fields do not appear to be within Grapevine project area but agricultural fields are visible to the north and east of the Grapevine project area.	Aerial Photograph
1958	Northern parcels of Grapevine project area shown to have many oils wells, aboveground oil tanks also noted on these parcels. Aboveground oil tanks also noted south of Grapevine Center that are associated with the previously identified Richfield Oil Co and General Petroleum Pumping Stations. Other areas of Grapevine project appear to be undeveloped.	Topographic Map
1968	Similar to 1958 topographic map. First occurrence of California Aqueduct.	Topographic Map
1968	At the Grapevine Center the former Union Oil gas station is visible in the western loop today (see Exhibit #3). The former Texaco gas station is visible at current Shell gas station location (9069 Grapevine Road West). The former Arco Station is visible at the current day Denny's location (9046 Grapevine Road East). The former Shell station is present in the northern portion of the eastern loop and a Standard station is visible at the southern end of the eastern loop (see Exhibit #3.)	Aerial Photograph
1974	The former gas station structures visible on the 1968 aerial photograph are shown on this topographic map. Potential ponds or pits noted within current day Oil Field parcels.	Topographic Map

Date	Observations	Source
	Remaining Grapevine project area largely undeveloped.	
1974	The former gas stations seen in the 1968 aerial are still present, the oil field is present, and the Grapevine project area is largely undeveloped to its current day condition.	Aerial Photograph
1978	The Grapevine project and surrounding area appear similar to the 1974 aerial photograph.	Aerial Photograph
1984, 1985	The Grapevine project and surrounding area appear similar to the 1978 aerial photograph.	Aerial Photograph
1987	The property and surrounding area generally have not changed from the 1985 photograph. The former gas stations are still present in the west and east grassy loops at the Grapevine Center	Aerial Photograph
1988	The project area appears similar to present day and the 1987 aerial photograph. The almond fields are noted on the topo map.	Topographic Map
1989	The project area appears similar to the 1987 aerial photograph. The former gas stations within the Grapevine Center loop roads are still present. The former Arco station at 9046 Grapevine Road East is also visible.	Aerial Photograph
1991	The project area and surrounding area is generally unchanged from the 1988 topo map.	Topographic Map
1992	The project area and surrounding area is generally unchanged from the 1991 topo map.	Topographic Map
1992	The project area and surrounding area is generally unchanged from the 1989 photo.	Aerial Photograph
1995	The project area and surrounding area is generally unchanged from the 1992 topo map.	Topographic Map
1995	The project area and surrounding area is generally unchanged from the 1992 photo. However, the former gas stations within the western loop at Grapevine Center are no longer present. The current day Shell and Unocal stations outside the western loop are present in the photo. The present day business outside of eastern loop are still undeveloped and the former gas stations within the eastern loop appear to still be present.	Aerial Photograph
2002	The property and surrounding area generally have not changed from the 1995 photograph. However, the Ramada Inn Hotel is now present at the western side of Grapevine Center. The only business within the loop appears to be Ranch House restaurant at the eastern loop. The Denny's and former Mobil gas station are now visible on	Aerial Photograph

Date	Observations	Source
	either side of Edmonston Pumping Road just east of loop.	

8.1.8 Local Street Directories

City Directories were researched from 1975 to 2010 by EDR. Several of the known business for the Grapevine Center were found to be operating during this time period.

8.1.9 Oil and Gas Records

Oil and Gas records were researched online and a well search was conducted by EDR. (see Exhibits #2 and #8). Approximately 146 oil and gas wells (active, dry holes, abandoned oil, and abandoned gas) were listed within the Grapevine project area.

8.1.10 Other Historical Sources

The Tejon Ranchcorp provided additional historical information. This information included 1) Restricted Agricultural Chemical Use Permits obtained from Kern County for the years 2005 through 2013, 2) a list of agricultural chemicals used and the crops these chemicals are used on, and 3) a list and location of prior tenants at the Grapevine Center. This information is provided in Exhibit #2.

8.1.11 Site Reconnaissance

The following surface features were identified during the site reconnaissance:

Surface Feature
The Grapevine WWTP consisting of unlined sewage disposal ponds are located northeast of the Grapevine Center and used by the existing business in the Grapevine Center.
An unlined pond in SP parcel 6b is used for percolation/evaporation of wash-out water. The wash-out water is generated by back flushing irrigation water treatment filter units located next to the pond. Agricultural chemicals are also added to the water treatment unit at this location and applied to the almond trees.
Oil and gas production activities were observed on SP parcels 6c, 6d, and 6e. Existing site features include active and idle wells, aboveground crude oil storage tanks (active and out of service), crude oil piping and manifolds, and

Surface Feature
injection piping. Existing features associated with oil exploration and production are identified on a series of aerial photos provided in Exhibit 3. Aboveground piping is extensive at SP parcel 6c and included piping leading from active and idle wells to several headers where larger diameter piping distributed oil to a tank farm located on the southwestern side of SP parcel 6c. Abandoned piping was also observed on SP parcels 6c, 6d, and 6e. The majority of the abandoned piping appeared to be associated with wells no longer visible (abandoned wells). Gas flares and cogeneration were not observed on the Grapevine project parcels
Within the northern portion of oil lease SP parcel 6c, soil had been recently excavated and placed into a large stockpile (estimated to be around 200 cubic yards). This soil appeared impacted by oil, and leaching of oil from the stockpile was observed. On a subsequent site visit, the stockpiled soil was no longer present and the area had been graded flat. The former stockpile location is identified on the aerial photographs in Exhibit 3.
A seepage pit and leach field was located at the Grapevine Center at the north end of the east loop (see Exhibit 1). This seepage pit and leach field was likely used as the sewer system prior to using the Grapevine WWTP. The seepage pit and leach field were connected to the former gas station sites.
Natural creeks, streams, springs, ditches, cattle ponds, and the California Aqueduct are within the Grapevine project area.

There was visual evidence of significant subsurface conduits noted on the areas inspected. The following subsurface conduits have been identified as recognized environmental conditions:

Subsurface Feature
The Grapevine WWTP consisting of unlined sewage disposal ponds are located northeast of the Grapevine Center and used by the existing business in the Grapevine Center.
A seepage pit and leach field was located at the Grapevine Center at the north end of the east loop (see Exhibit 1). This seepage pit and leach field was likely used as the sewer system prior to using the Grapevine WWTP. The seepage pit and leach field were connected to the former gas station sites.

There was no evidence of stressed vegetation noted on the Grapevine project area.

Chemical storage and or use was observed within the Grapevine project area and includes:

Chemical Storage and Use
There are 3 gas stations currently operating in the Grapevine Center. These stations include Unocal, Shell, and Valero. USTs, dispensers, and underground piping are present at each of the stations. There was no visual evidence of spills.
A newly installed 1,000 gallon double contained aboveground fuel storage tank and dispenser is located at the Tejon Landscape Shop at 5665 Santa Elena Drive. Surfactants, pesticides, insecticides, fungicides, herbicide, and rodenticides are stored in a metal chemical storage unit inside the Tejon Landscape shop. There was no visual evidence of spills.
Above ground storage tanks are used at the oil field parcels to store recovered oil, production water and wastes. Some of these tanks appear very old and in poor condition. Some of the older tanks were not plumbed for receiving oil or waste and were labeled "out-of-service". Above ground petroleum piping was observed throughout the oil field parcels. Individual generators are used to provide power to wells.

Visual evidence of chemical releases, spills or leaks noted on the areas inspected include:

Chemical Releases, Spills, Leaks
At oil lease parcel 238-390-75, soil had been recently excavated and placed into a large stockpile (see Exhibit 3 for location). This soil appeared impacted by oil and leaching of oil from the stockpile was observed. On a subsequent site visit the stockpiled soil appeared to have been graded into the surrounding area.
Crude oil stained wellheads. At some wellheads and oil storage tanks, oil stained soil was observed and was primarily limited to very small areas (less than a few feet) around these features.
Several drums of petroleum products and used paint were found abandoned within Grapevine Creek within the project area and were not associated with Tejon Ranch operations. These drums and stained soil around the drums were mitigated by Tejon Ranch, per Tony Mattias (Tejon Ranch Company, Ranch and Wildlife Supervisor). Soil samples were collected from the excavation area and analyzed for Total Petroleum Hydrocarbons (TPH),

Chemical Releases, Spills, Leaks
metals, Polychlorinated Biphenyls (PCBs), Volatile Organic Compounds (VOCs), and Polynuclear Aromatic Hydrocarbons (PAHs) to document adequate cleanup by Tejon Ranch Company. All analytes were below laboratory detection limits with the exception of metals and TPH. Metals were detected at naturally occurring background concentrations and TPH was detected at a maximum concentration of 15 mg/kg, which is significantly below all regulatory action levels.

There was no visual evidence of any staining or contamination from common sources of PCB's (transformers) noted within the Grapevine project area.

The findings of a general visual survey of properties or parcels contiguous with the Grapevine project area did not reveal any visual evidence of environmental impacts.

8.1.12 Interviews with Owners, Site Managers, and Occupants

Written questionnaires were completed by several Tejon Ranchcorp employees for those portions of the project area being operated by the owner, by several tenant representatives for businesses currently operating in the Grapevine Center, and current oil lease holders. All completed questionnaires are provided as Exhibit #14. Pertinent information obtained from the questionnaires is presented throughout in this report.

8.2 OPINION

The Tejon Ranchcorp and/or Tejon Ranch Company have owned the Grapevine project area for many decades. The Grapevine project area is being proposed for development as a planned community that would include residential and supporting commercial uses. Therefore, Pacific Edge's opinion is based on potential liability associated with the planned reuse of the property and not liability associated with purchasing the property from a previous owner.

8.3 CONCLUSIONS

Pacific Edge has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527 for the Grapevine project area. Any exceptions to, or deletions from, this practice are described in Section 2.3.1 of this report. This assessment has revealed no evidence

of ***Recognized Environmental Conditions*** (RECs) in connection with the Grapevine project area except for those listed below.

In support of the projects' Environmental Impact Report (EIR) process, each of the listed REC also includes potential mitigation measures, which is not a requirement of ASTM E1527. In addition to specific mitigation measures for each listed REC, a project-wide mitigation measure is recommended. The recommended project-wide REC is the development of a Soil Management Plan (SMP). The SMP would apply to and address any discovery of a previously unknown environmental condition not listed below. The SMP would summarize applicable federal, state, and local regulations and requirements pertaining to the discovery, reporting, management, and disposal of hazardous materials or hazardous waste. All construction contractors involved in soil disturbance or performing below ground construction activities would be subject to the SMP and must possess the necessary qualifications and certifications to implement the SMP.

The following RECs have been identified for the Grapevine project area:

- Existing development in the Grapevine project area consists primarily of highway support services located adjacent to Interstate I-5 at the Grapevine interchange. The Grapevine Center was first developed in the late 1950's to early 1960's, and included several gasoline service stations. Exhibit 1 presents existing and historic gas station locations.

  Existing gas stations include Phillips 76 (9058 Mountain Base Road), Lebec Shell (9069 Grapevine Road West), and Valero (9012 Grapevine Road East).

  Historic gas stations were located in each of the existing gas station locations and within what is now two currently undeveloped areas. In the undeveloped area west of the south bound I-5 lanes was a former Union Oil #4743 gas station located at 9068 Grapevine Road West. In the undeveloped area east of the north bound I-5 lanes was a former Standard Oil gas station believed to have been located at 8977 Grapevine Road East and Chevron Station #9-8616 (also located at 8977 Grapevine Road East), and a Shell gas

station located at 9067 Grapevine Road East. Other gas stations that previously existed within the Grapevine Center and have new uses include:

- an Arco gas station (the current Denny's site at 9046 Grapevine Road East),
- a Texaco gas station (the current Shell site, 9069 Grapevine Road West), and
- Tejon Mobil gas station (the current Valero site at 9012 Grapevine Road East).

Underground storage tank removal reports, and other documentation relating to environmental conditions, were requested for these stations from the KCEHD. The KCEHD is the Certified Unified Program Agency (CUPA) responsible for USTs in the project area. Records obtained for these sites from the KCEHD are presented in Exhibit 7 and are summarized in Section 8.1.4 of this report.

Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing these sites for other uses, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The Grapevine project area is located above geologic features that have produced, or have the potential to produce, crude oil and natural gas. Active oil production and exploration activities are currently occurring, or have occurred in the past, on parcels located in the Grapevine project area. The majority of oil production and exploration activities have occurred in the northern portion of the Grapevine project area and this is also where oil production activities are currently occurring within the Grapevine project area. These areas include 6a, 6b, 6c, 6d, and 6e as shown on the Special Planning (SP) figure presented in Exhibit 2. Exhibit 2 presents a figure showing the Grapevine project SP parcel numbers. Exhibit 2 also presents a series "Focus Maps" showing the approximate location of all wells (active, abandoned, and those having an unknown status) within the Grapevine project area and was compiled by EDR, Inc. using the State of California Division of Oil, Gas and Geothermal Resources (DOGGR) online database.

This database has been filtered by Pacific Edge to include the parcels within the Grapevine project area and is also presented in Exhibit 2. A complete description of oil and gas production and exploration activities within the Grapevine project area is provided in WZI, Inc.'s November 2014 report entitled "Mineral Resources Evaluation".

During Pacific Edge's site reconnaissance current oil and gas production activities were observed on SP parcels 6c, 6d, and 6e. Existing site features associated with oil exploration and production are shown on a series of aerial photos provided in Exhibit 3. Existing site features include active and idle wells, aboveground crude oil storage tanks (active and out of service), crude oil piping and manifolds, and injection piping. Aboveground piping is extensive at SP parcel 6c and include piping leading from active and idle wells to several headers where larger diameter piping distributed oil to a tank farm located on the southwestern side of SP parcel 6c. Abandoned piping was also observed on SP parcels 6c, 6d, and 6e. The majority of the abandoned piping appeared to be associated with wells no longer visible (abandoned wells). Gas flares and cogeneration were not observed on the Grapevine project parcels. However, a gas flare and possible cogeneration operations were noted on a neighboring parcel (west of Grapevine parcel 6c) which is not within the Grapevine project area. This neighboring parcel is operated by Vintage Petroleum. Existing oil stained soil was observed at numerous locations within SP parcels 6c, 6d, and 6e. These locations were primarily limited to very small areas (less than a few feet) around oil production wells and crude oil storage tanks, with one noted exception. Within the northern portion of SP parcel 6c, soil had been recently excavated and placed into a large stockpile (estimated to be around 200 cubic yards). This soil appeared impacted by oil, and leaching of oil from the stockpile was observed. On a subsequent site visit, the stockpiled soil was no longer present and the area had been graded flat. The approximate area where the stockpiled soil was located is shown on the figure for SP parcel 6c presented in Exhibit 3.

Oil exploration and production activities, including active and inactive and abandoned wells, and localized collector and distribution piping and storage tanks, can cause environmental contamination to soil and groundwater that would prevent development unless mitigation measures were undertaken. Also, the disposal method used for drilling

fluids from historic exploration and production activities at these parcels is unknown. Historic drilling fluid disposal methods can include on-site earthen pits commonly called "mud pits." These mud pits were typically covered with soil as the only closure measure undertaken, and can therefore be a source of contamination to soil and groundwater.

Decommissioning and abandonment of oil and gas wells would be required to meet current applicable regulatory standards. Oil and gas well decommissioning procedures are addressed in WZI, Inc.'s November 2014 report entitled "Mineral Resources Evaluation". Where significant oil and gas production is currently occurring and has occurred in the past and visible contamination is present or is likely present, an ASTM E1903-11 compliant Phase II investigation shall be conducted with appropriate environmental agency oversight to evaluate environmental impacts so that appropriate remedial or other mitigation measures are undertaken, if necessary. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- A former seepage pit and leach field is located in the northern portion of the Grapevine Center, and was used for disposal of sewage waste from businesses in the Grapevine Center, including gas station sites (see Exhibit 1).

  Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing in this area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The existing Grapevine Wastewater Treatment Plant (WWTP) is located northeast of the Grapevine Center (see Exhibit 1). The Grapevine WWTP serves the Grapevine Center commercial area and consists of three unlined percolation/evaporation ponds with a total a total water surface area of 6.62 acres. The WWTP is permitted for a treatment capacity of 0.235 million gallons per day (MGD). One of the three ponds is divided into four smaller cells. Currently, only one of the four smaller cells is in use at any given time and the WWTP processes approximately 0.05 MGD. The Grapevine project may temporarily

use the existing Grapevine WWTP up to its permitted capacity during the initial project stages. The Grapevine WWTP would likely be decommissioned prior to development of this area of the project.

Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing in the Grapevine WWTP area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- Agricultural chemicals are applied to the almond groves (SP parcels 6a and 6b) and the grapevine field (SP parcel 1) within the Grapevine project area (see Exhibit 1 for almond groves and grapevine field locations). Agricultural chemicals used include surfactants, pesticides, insecticides, fungicides, herbicide, and rodenticides.

  ASTM E1903-11 compliant Phase II testing should be performed in these irrigated farming areas prior to their development, and appropriate management of any discovered agricultural chemical residuals should be completed under the oversight of the appropriate environmental agency. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- An unlined pond in SP parcel 6b is used for percolation/evaporation of wash-out water. The wash-out water is generated when back flushing/cleaning of irrigation water treatment filters located next to the pond. Agricultural chemicals are added to the irrigation water treatment system.

  Subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be completed prior to developing the pond area, and appropriate remediation and regulatory agency oversight should be undertaken if contamination is discovered.

  Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

- The ExxonMobil Grapevine Pumping Station 99-GVR is a crude oil pumping station for the Mobil M-70 pipeline at 7815 Grapevine Road; which is located south and adjacent to the most southern extent of the Grapevine project area (see Exhibit 1). The environmental oversight agency is the Central Valley Regional Water Quality Control Board (CVRWQCB). The CVRWQCB has assigned the site Case No. SLT5FR714638 and environmental reports have been uploaded to the California State Water Resources Control Board GeoTracker web site at http://geotracker.waterboards.ca.gov.

  The Mobil M-70 crude oil pipeline, an idle 12-inch diameter Mobil M-1 pipeline (currently containing a MCI fiber optic cable), a pair of idled 8-inch diameter Mobil crude pipelines, and a high pressure Southern California Gas pipeline are all located within the ExxonMobil Grapevine Pumping Station 99-GVR.

  Review of environmental reports available on GeoTracker for this site indicate that crude oil petroleum leaks have been documented at the site from 1947 to 1999 and an estimated 4,704 gallons of crude oil have been released to the environment as a result of leaks believed to be from their underground piping. In 1998, oil and oily water was observed seeping from the base of the embankment next to Interstate I-5. The ExxonMobil Grapevine Pumping Station 99-GVR is located at the top of this embankment. At the base of this embankment is a storm drain that follows Interstate I-5. Based on surface contours presented in environmental reports for the site, it is assumed that this storm drain flows to the north toward the southern end of the Grapevine project area.

  Soil and groundwater investigations have been conducted at this site since 1999. Work at the site has included the removal of floating petroleum from the top of shallow groundwater, which occurs at a depth of approximately 40-feet below ground surface.

  Groundwater monitoring has been ongoing since 2000. The groundwater flow direction over the past 14 years has been described as toward the east, northeast, and southeast. The predominant groundwater flow direction appears to be to the east down the embankment toward Interstate I-5. The four groundwater sampling events conducted in 2000 included the analysis of total petroleum hydrocarbons (TPH) as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE).

TPH as gasoline, toluene, ethylbenzene, total xylenes, and MTBE were not detected above the laboratory reporting limit. TPH as crude oil was detected in several groundwater wells and a low concentration of benzene (0.68 ug/L) was detected in monitoring well MW-1 during the first quarter of 2000. After 2000, groundwater sampling has not included the analysis of TPH as gasoline, benzene, toluene, ethylbenzene, total xylenes, and MTBE in the original monitoring wells. Additional groundwater monitoring wells were installed at various times after 2000. The initial sampling of these wells included analysis of TPH as gasoline and crude oil, benzene, toluene, ethylbenzene, total xylenes, and MTBE. Subsequent sampling events have only included the analysis of TPH as crude oil even though a low concentration of TPH as gasoline was detected in monitoring well MW-3 (150 ug/L) and MW-12 (190 ug/L) during their initial sampling event.

In April 2013, the CVRWQCB required additional investigation work at the site to evaluate if there are continuing releases occurring at the site. On December 16, 2013, Cardno ERI, Inc., on behalf of ExxonMobil Services, submitted to the CVRWQCB a work plan for site assessment. The Cardno ERI, Inc. work plan states that it does appear that a continued release is occurring at the site and is proposing to further delineate the lateral extent of soil and groundwater contamination to the east and southeast of the Site by installing 5 temporary monitoring wells. Soil and groundwater samples will be collected at each of the proposed locations. To date, a report for Cardno ERI, Inc's proposed work has not been uploaded to GeoTracker and it is not known if the investigation work has been completed.

The potential migration of contamination from this site onto the southern end of the Grapevine project area is a REC. The environmental investigation for the site has not been completed by ExxonMobil Services***. The final investigation report should be reviewed and evaluated to determine if subsurface testing, compliant with the Phase II ASTM E1903-11 standard, should be performed in the Grapevine project area closest to the ExxonMobil Grapevine Pumping Station 99-GVR. If it is determined that Phase II testing is required, shallow soil gas probes could be installed and sampled to evaluate environmental conditions, and appropriate remediation and regulatory agency***

oversight should be undertaken if contamination is discovered. Potential remediation options could include excavation and off-site disposal of contaminated soil, in-place treatment, and/or the installation of protective barriers.

8.4 ENVIRONMENTAL PROFESSIONAL STATEMENT

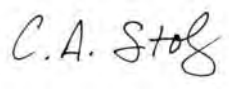
This report presents the findings of an ESA of the Grapevine project area conducted for the Tejon Ranchcorp.

Data for this report was gathered from a research of available files and information from the Tejon Ranchcorp, a research of information with various Federal, State, County and local agencies, a research of information from several private industry sources, and, a site reconnaissance of the Grapevine project area conducted from September 13, 2013 through April 22, 2014.

This data has been collected and reported under the guidance and supervision of a qualified professional. The conclusions and recommendations presented are the professional opinions of members of the staff of Pacific Edge Engineering, Inc. (Pacific Edge), based upon their academic training and practical environmental experience.

Legal interpretations of the findings of all environmental investigations should be obtained from a qualified legal advisor trained in environmental law. None of the opinions presented by Pacific Edge are intended, nor should be construed as legal advice.

Report prepared by,



Craig A. Stolz, P.E.
Principal Engineer

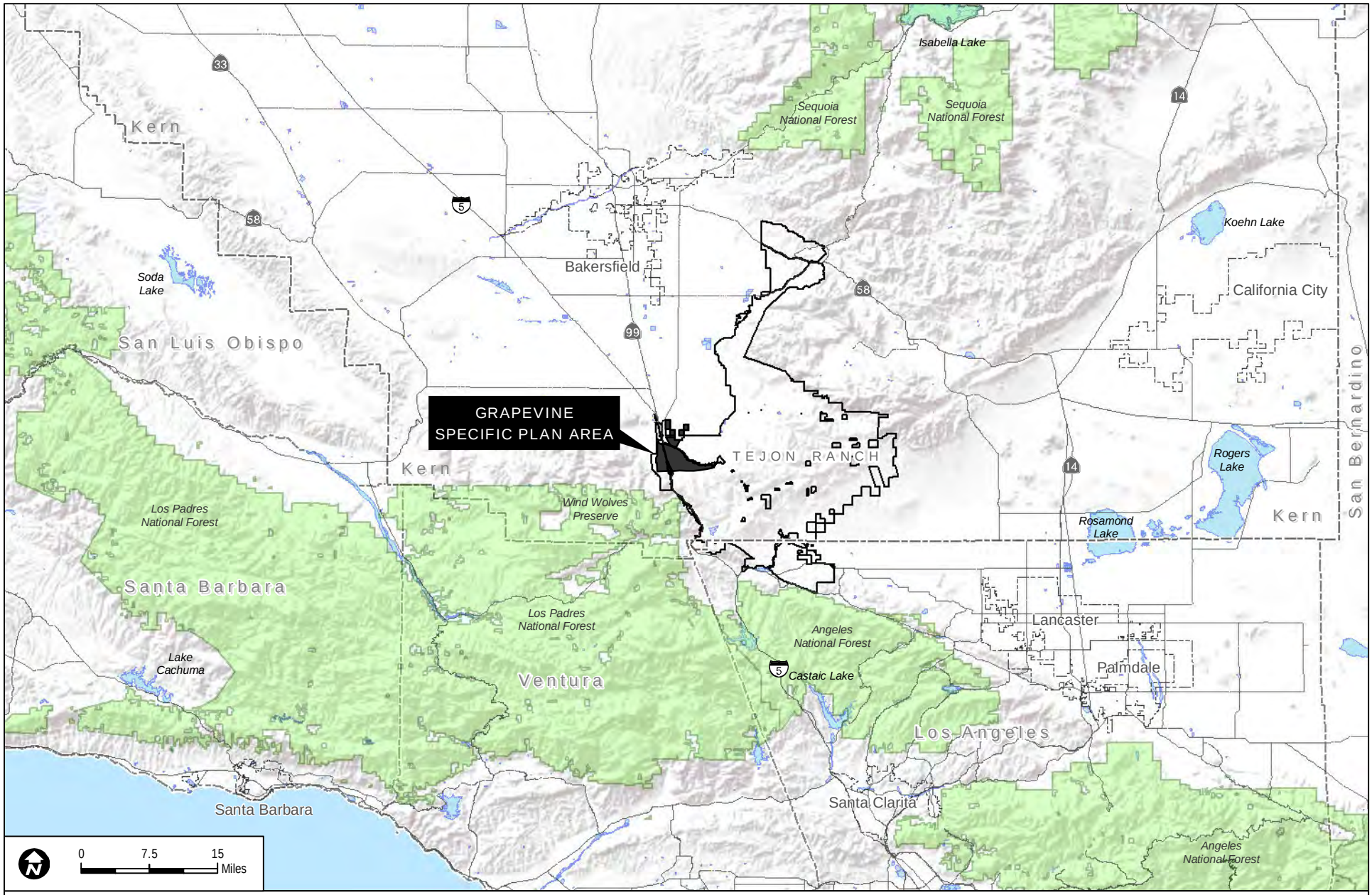
9.0 QUALIFICATIONS

Mr. Craig A. Stolz is the environmental professional responsible for conducting this ESA and preparing the report.

Mr. Stolz is a Principal Engineer with Pacific Edge Engineering, Inc. He holds a Bachelor of Science degree in civil engineering from the University of North Dakota. He has over 27 years of environmental consulting experience in the State of California. This experience includes environmental assessments (Phase I and Phase II), remediation design, and soil and groundwater remediation on a variety of public and private sector projects. Mr. Stolz has personally conducted and overseen numerous Phase I ESAs during his 27 years of environmental consulting experience. His Phase I experience includes residential, commercial, and industrial properties for public and private sector clients.

Mr. Stolz is a Registered Professional Civil Engineer (No. C049756) in the State of California. He also is the Responsible Managing Officer for the State of California Contractors License (No. 759833; A/HAZ) held by Pacific Edge Engineering, Inc.

FIGURES

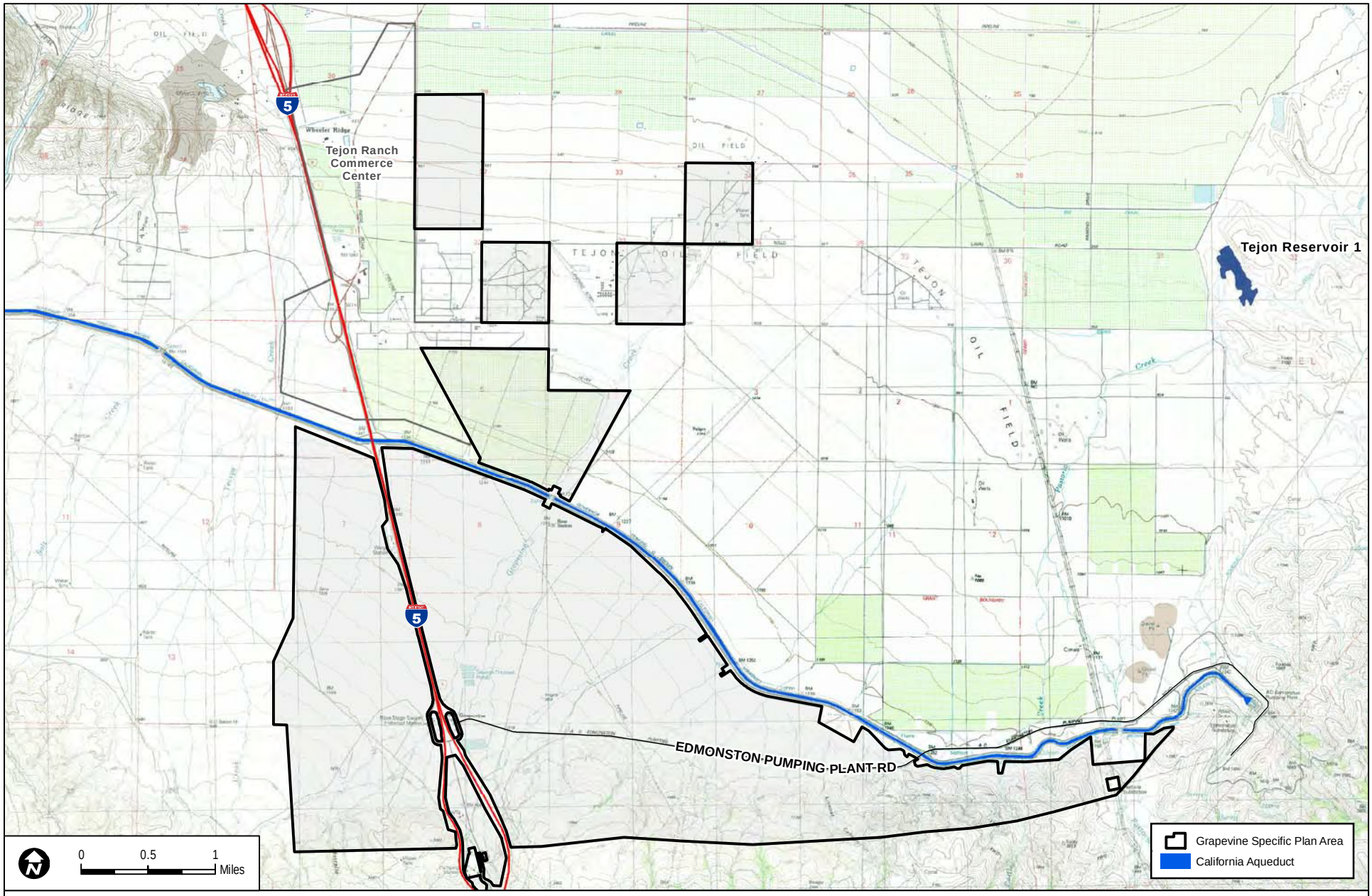


SOURCES: McIntosh & Associates 2013; TRC 2013a

FIGURE 1-1

Regional Location

GRAPEVINE PROJECT



SOURCES: McIntosh & Associates 2013; TRC 2013b

FIGURE 1-2

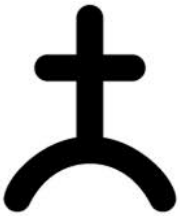
Vicinity Map

GRAPEVINE PROJECT

FINAL PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

PREPARED FOR

TEJON RANCHCORP



GRAPEVINE PROJECT AREA
LEBEC, CA 93243

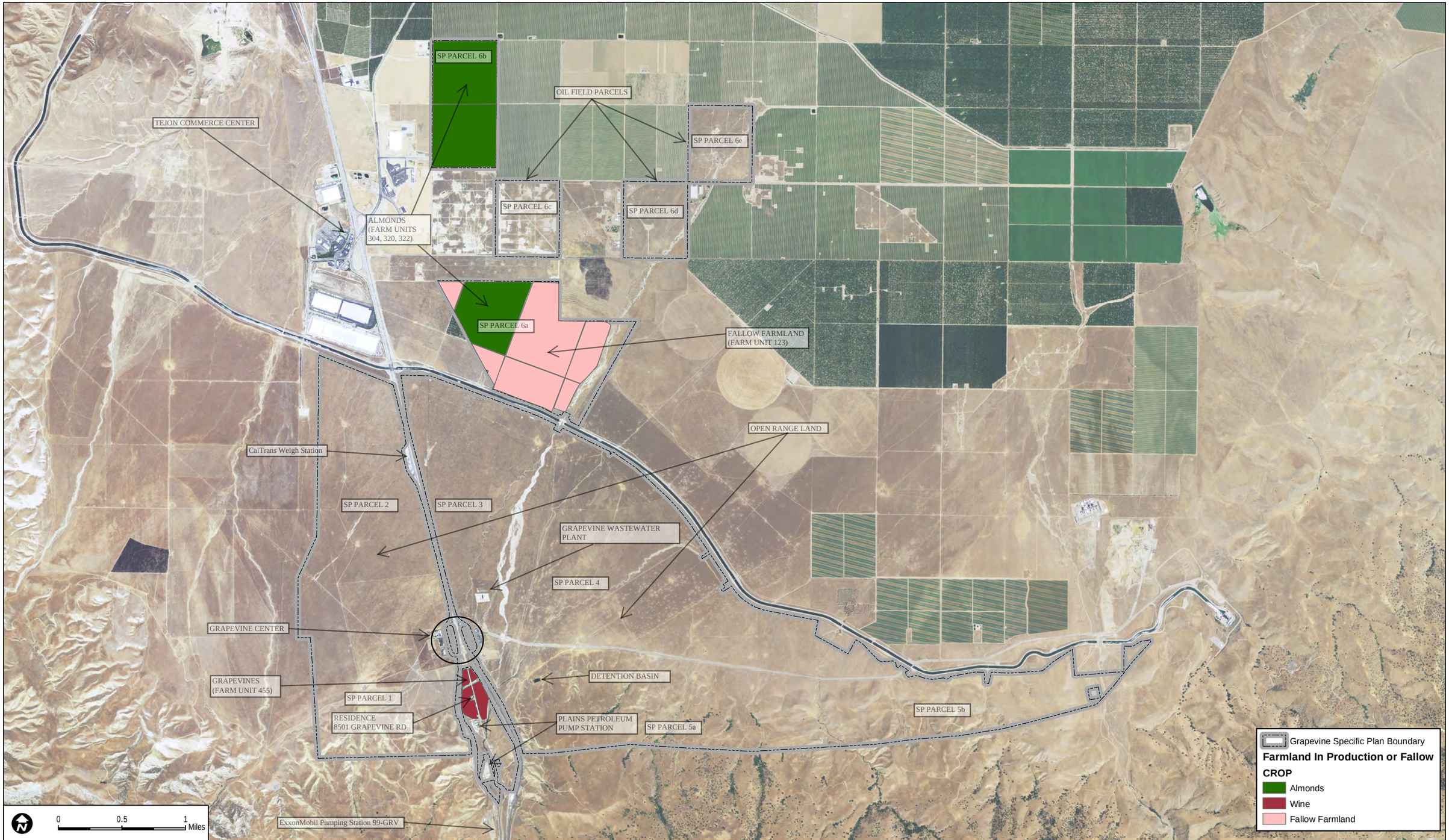
VOLUME II – REPORT EXHIBITS

NOVEMBER, 2014

26431 Crown Valley Parkway, Suite 270, Mission Viejo, CA 92691 • Tel: 949-470-1937 • Fax: 949-470-0943

EXHIBIT #1

GRAPEVINE PROJECT AREA PAST & CURRENT USES



SOURCES: TRC 2013; USDA NIAP Imagery 2012

GRAPEVINE PROJECT

Grapevine Center

FORMER DENNY'S

9068 GRAPEVINE RD WEST
FORMER UNION OIL
STATION # 4734

9069 GRAPEVINE RD WEST
FORMER TEXACO STATION

9058 MOUNTAIN BASE RD
(CURRENTLY PHILLIPS 76)

FORMER SEEPAGE PIT & LEACH FIELD

9067 GRAPEVINE RD EAST
(FORMER SHELL STATION)

9046 GRAPEVINE RD EAST
FORMER ARCO STATION

9012 GRAPEVINE RD EAST
(CURRENTLY VALERO STATION)

FORMER RANCH HOUSE
CAFE

8977 GRAPEVINE RD EAST
(FORMER STANDARD STATION AND CHEVRON #98616)

Unocal Gas
Circle K

Shell Gas

Denny's

Mobil Gas

Jack In
The Box

Don Perico

Ramada
Inn Limited

Rose Station Road

Countryside Court

Grapevine Road West

Grapevine Road East

Edmonston Pumping Plant Road

Grapevine Road

INTERSTATE 5

LANDSCAPE AREAS

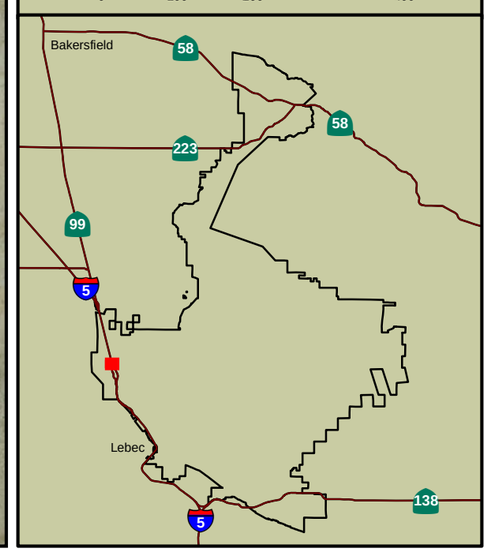
- DENNYS
- DON PERICOS
- FRONTAGE ROAD
- INTERCHANGE EAST
- INTERCHANGE WEST
- JACK IN THE BOX
- MASTER AREA EAST
- MASTER AREA WEST
- MOBIL GAS
- RAMADA INN
- SHELL GAS
- UNOCAL GAS

- DOMESTIC WATER LINE
- HISTORIC LANDSCAPE LINE

TEJON RANCH COMPANY

N

0 100 200 400 Feet



10/28/2010 TejonGIS3 Maps_GIS\Dept\Dev_Projects\Grapevine\GrapevineCenter.mxd

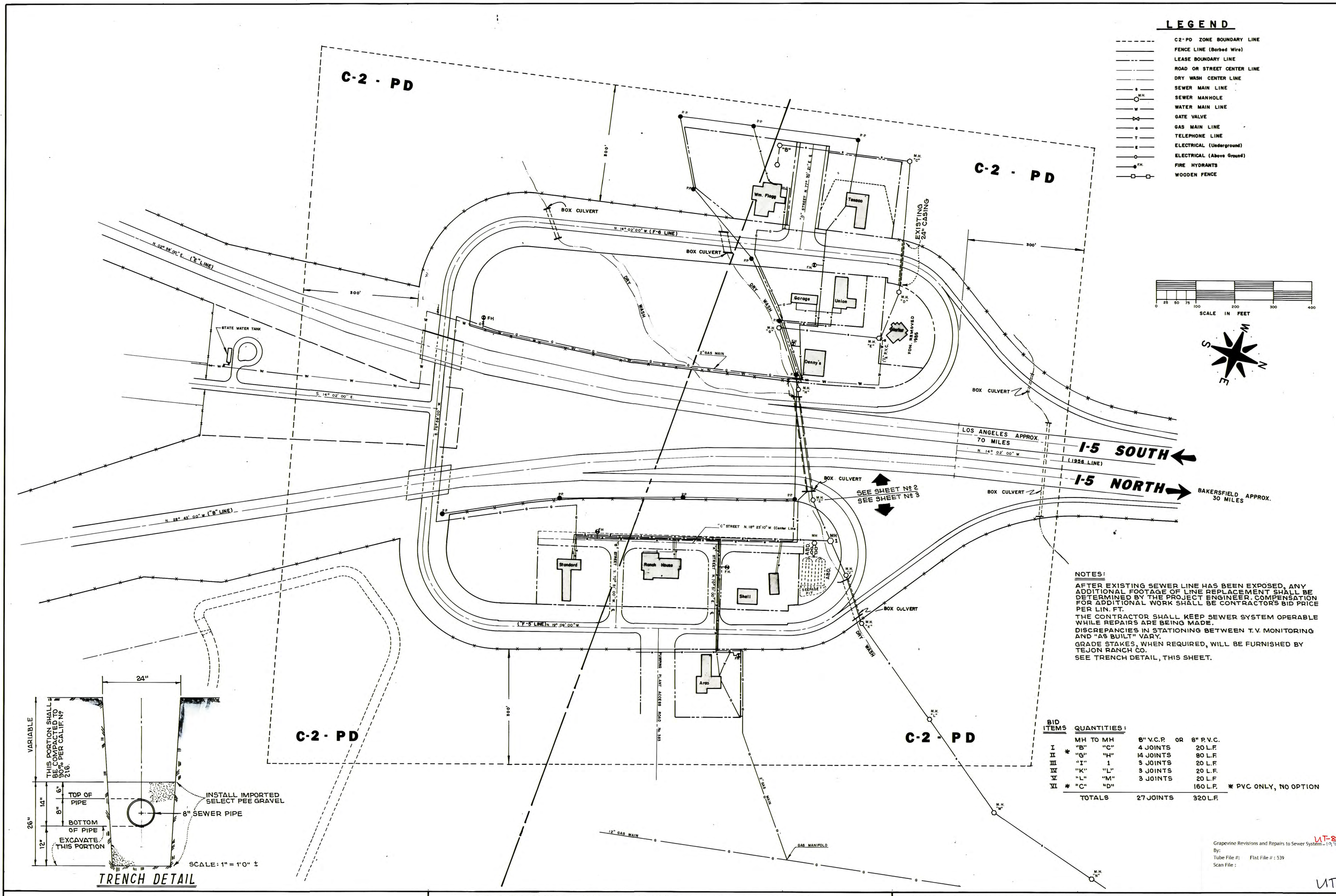
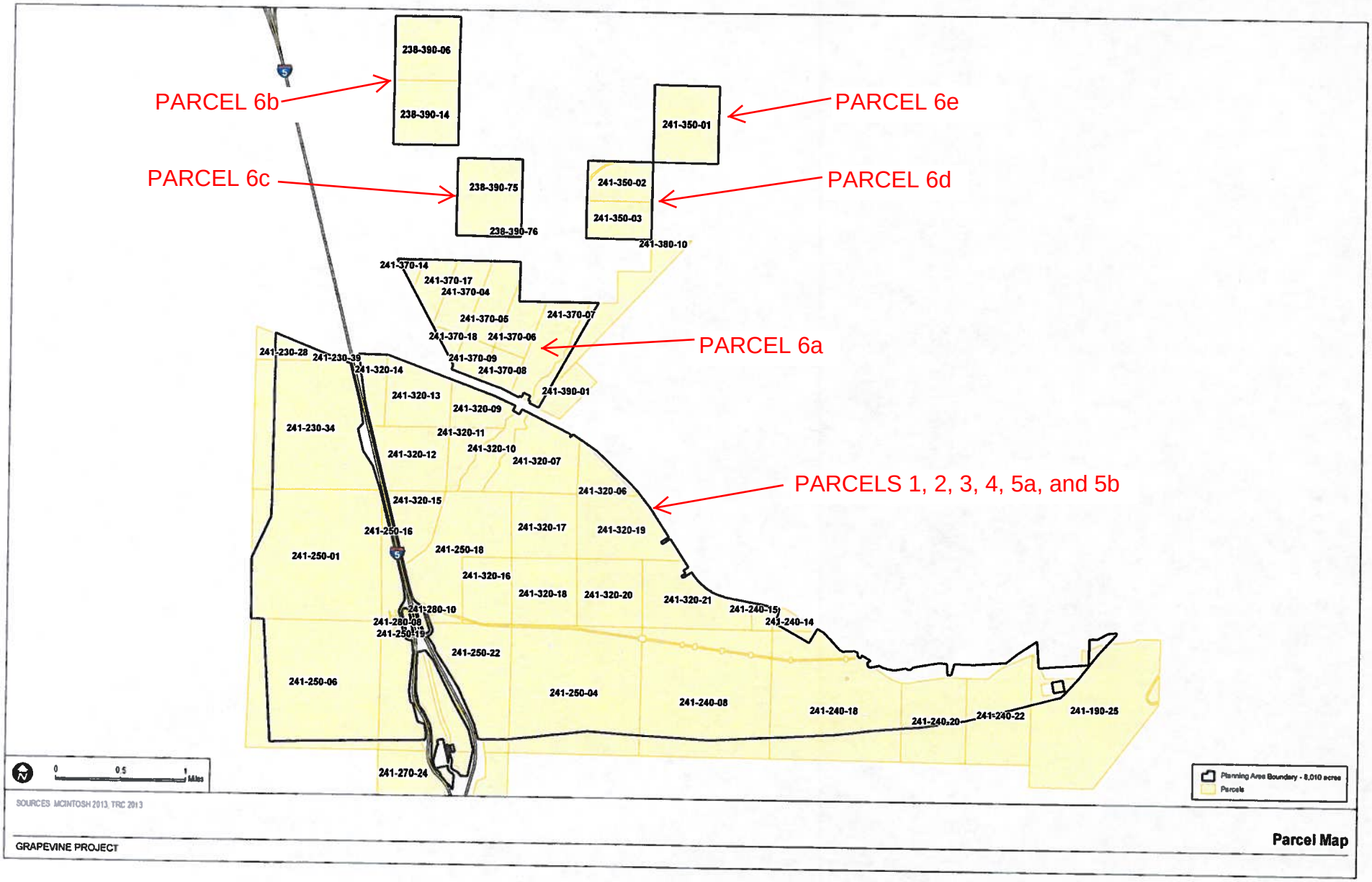
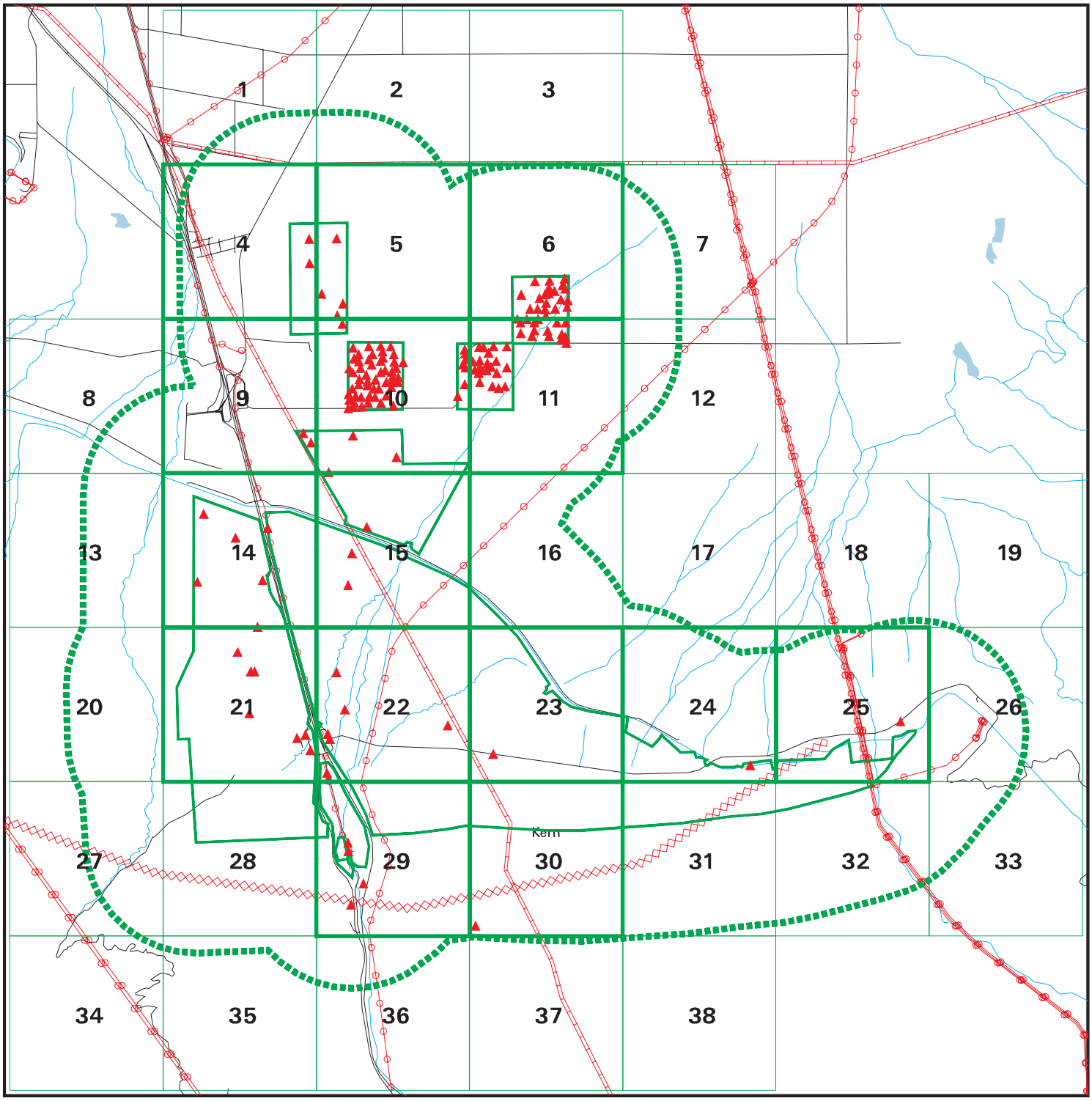

C-2 - PD
C-2 - PD
C-2 - PD
C-2 - PD
300'
300'
300'
300'
BOX CULVERT
BOX CULVERT
BOX CULVERT
BOX CULVERT
BOX CULVERT
N. 14° 02' 00" W. (F-6 LINE)
N. 02° 58' 00" E. ("E" LINE)
N. 28° 43' 00" W. ("B" LINE)
S. 14° 02' 00" E.
S. 79° 58' 00" W.
("F-5 LINE) N. 19° 09' 00" W.
DRY WASH
DRY WASH
DRY WASH
STATE WATER TANK
"B"
"C"
"G"
"H"
"I"
1
"K"
"L"
"M"
"N"
"E"
"F"
Wm. Flegg
Tesoco
Garage
Union
Denny's
Shell
Ranch House
Standard
Area
Shorter
FDN. REMOVED 1985
EXISTING 24" CASING
3" GAS MAIN
2" GAS MAIN
12" GAS MAIN
GAS MANIFOLD
"G" STREET N. 18° 23' 10" W. (Center Line
"F" STREET N. 19° 09' 00" W. (Center Line
"G" STREET N. 77° 30' W. (Center Line
SEEPAGE POND
ABD.
ABD.
FH
FH
FH
FH
FH
MH
MH 1
M.H. "B"
M.H. "C"
M.H. "E"
M.H. "F"
M.H. "G"
M.H. "H"
M.H. "I"
M.H. "K"
M.H. "L"
M.H. "M"
M.H. "N"
PP
PP
PP

EXHIBIT #2

GRAPEVINE PROJECT SPECIAL PLANNING NUMBERS, OIL AND GAS MAPS/DATABASE & AGRICULTURAL CHEMICAL USE RECORDS


PARCEL 6b
PARCEL 6e
PARCEL 6c
PARCEL 6d
PARCEL 6a
PARCELS 1, 2, 3, 4, 5a, and 5b
238-390-06
238-390-14
238-390-75
238-390-76
241-350-01
241-350-02
241-350-03
241-380-10
241-370-14
241-370-17
241-370-04
241-370-05
241-370-07
241-370-18
241-370-06
241-370-09
241-370-08
241-390-01
241-230-28
241-230-39
241-320-14
241-320-13
241-320-09
241-230-34
241-320-11
241-320-12
241-320-10
241-320-07
241-320-06
241-320-15
241-250-16
241-320-17
241-320-19
241-250-01
241-250-18
241-320-16
241-320-18
241-320-20
241-320-21
241-240-15
241-240-14
241-280-10
241-280-08
241-250-19
241-250-22
241-250-06
241-250-04
241-240-08
241-240-18
241-240-20
241-240-22
241-190-25
241-270-24
0
0.5
1
Miles
Planning Area Boundary - 8,010 acres
Parcels
SOURCES: MCINTOSH 2013, TRC 2013
GRAPEVINE PROJECT
Parcel Map

Key Map



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites

N

0 1 2

Scale in Miles

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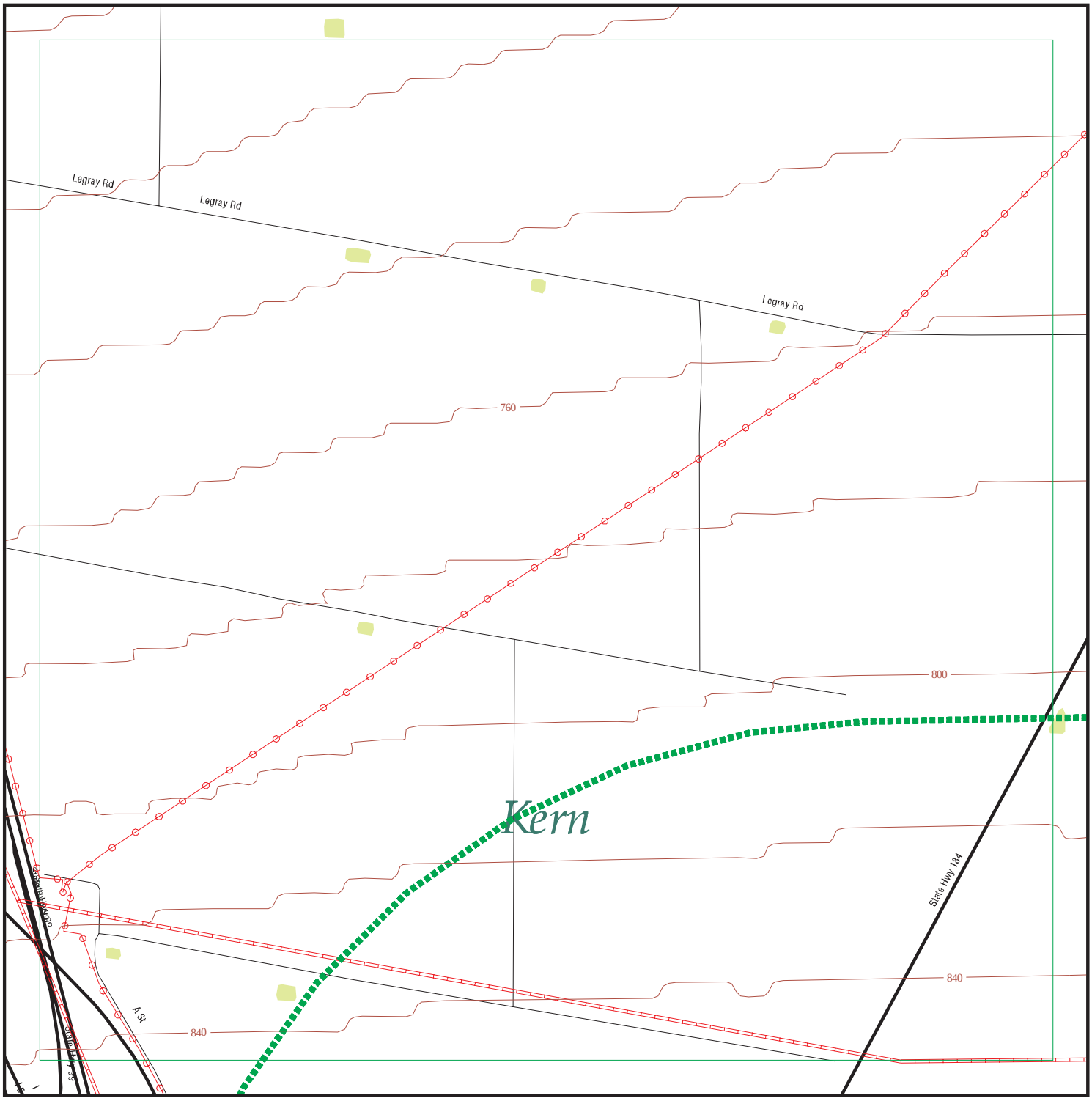
Section 2

Focus Maps and Findings

Focus Map 1



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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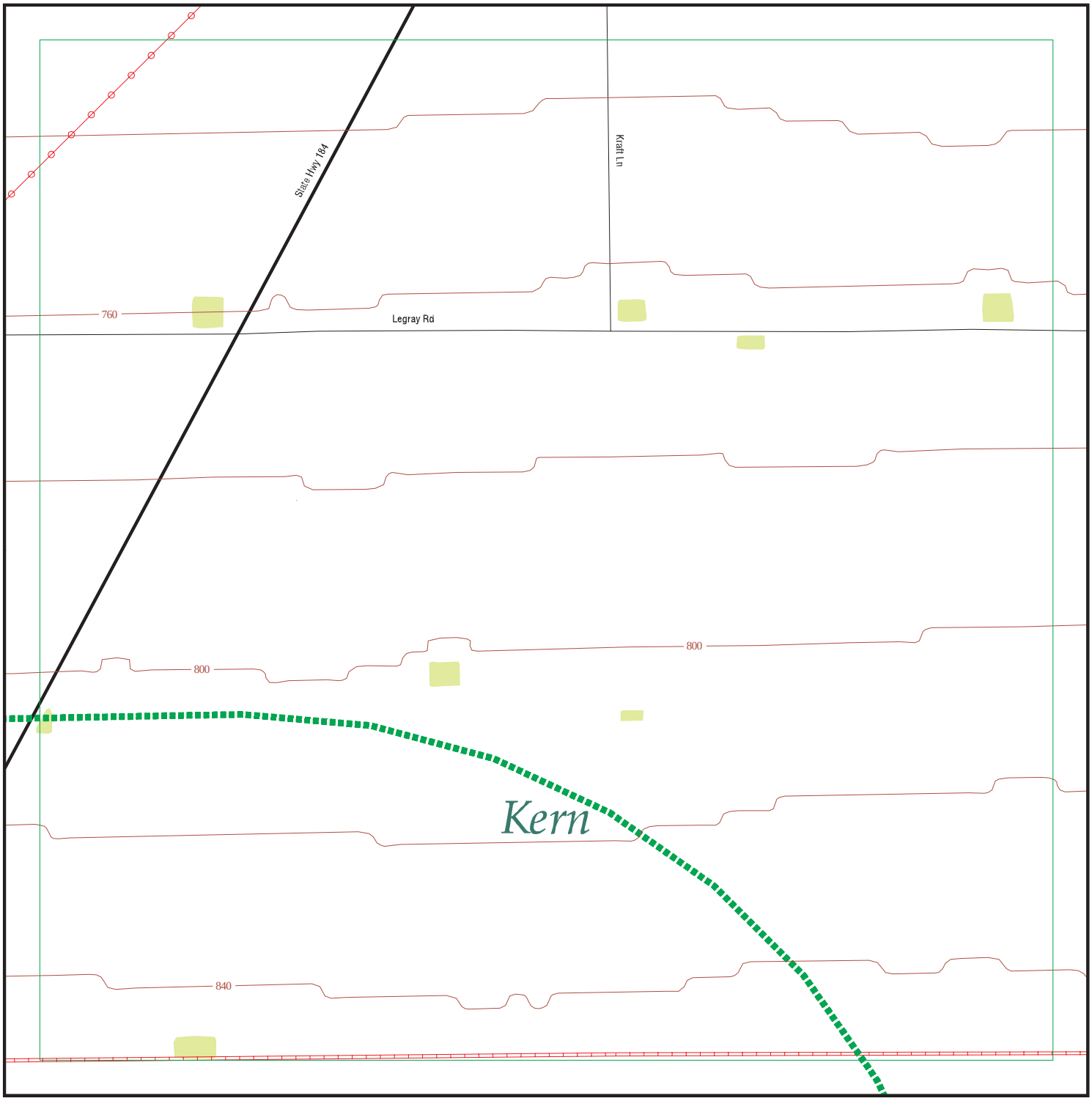
N

0 1/8 1/4

Scale in Miles

Focus Map 2



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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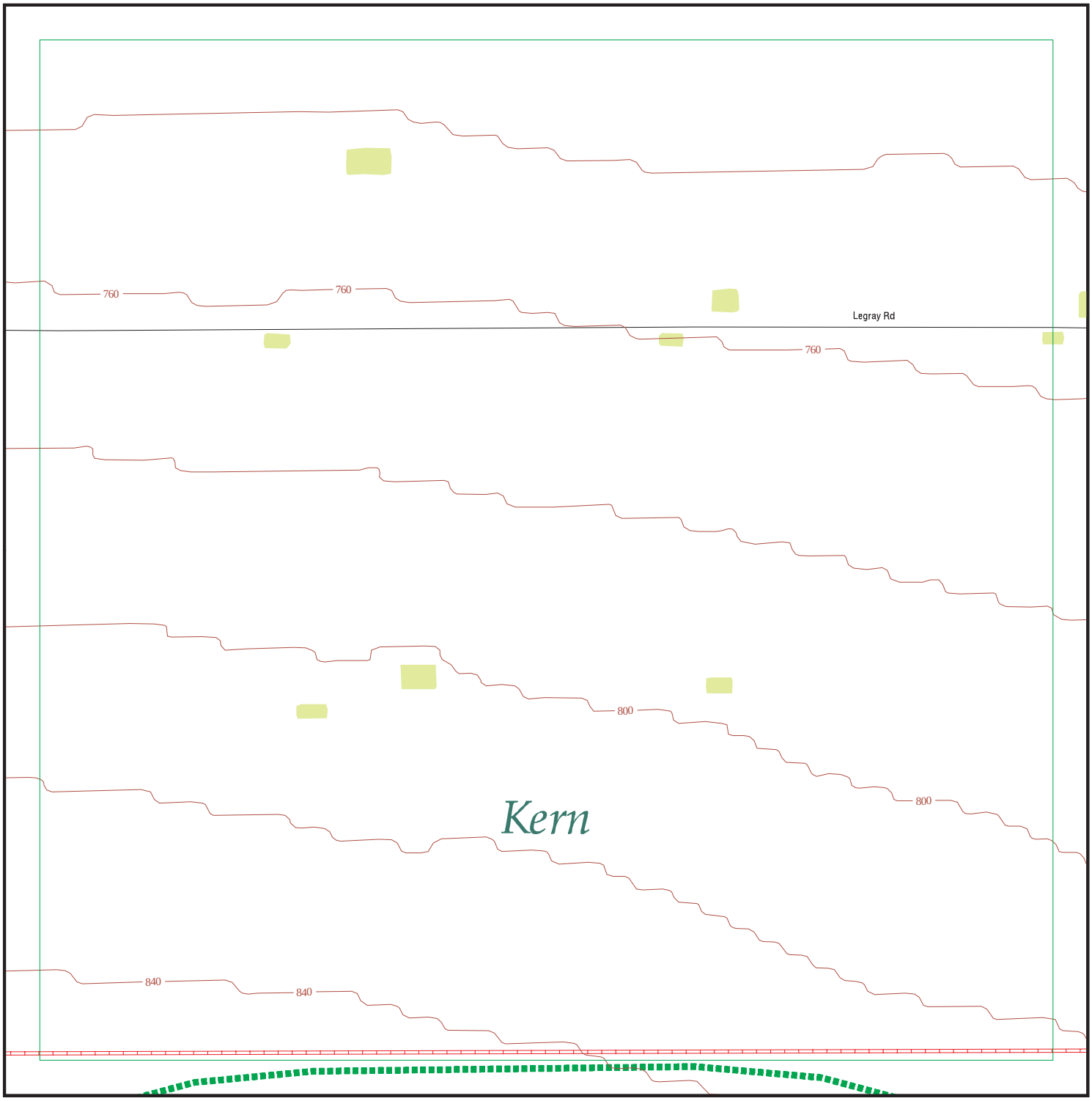
Focus Map 3



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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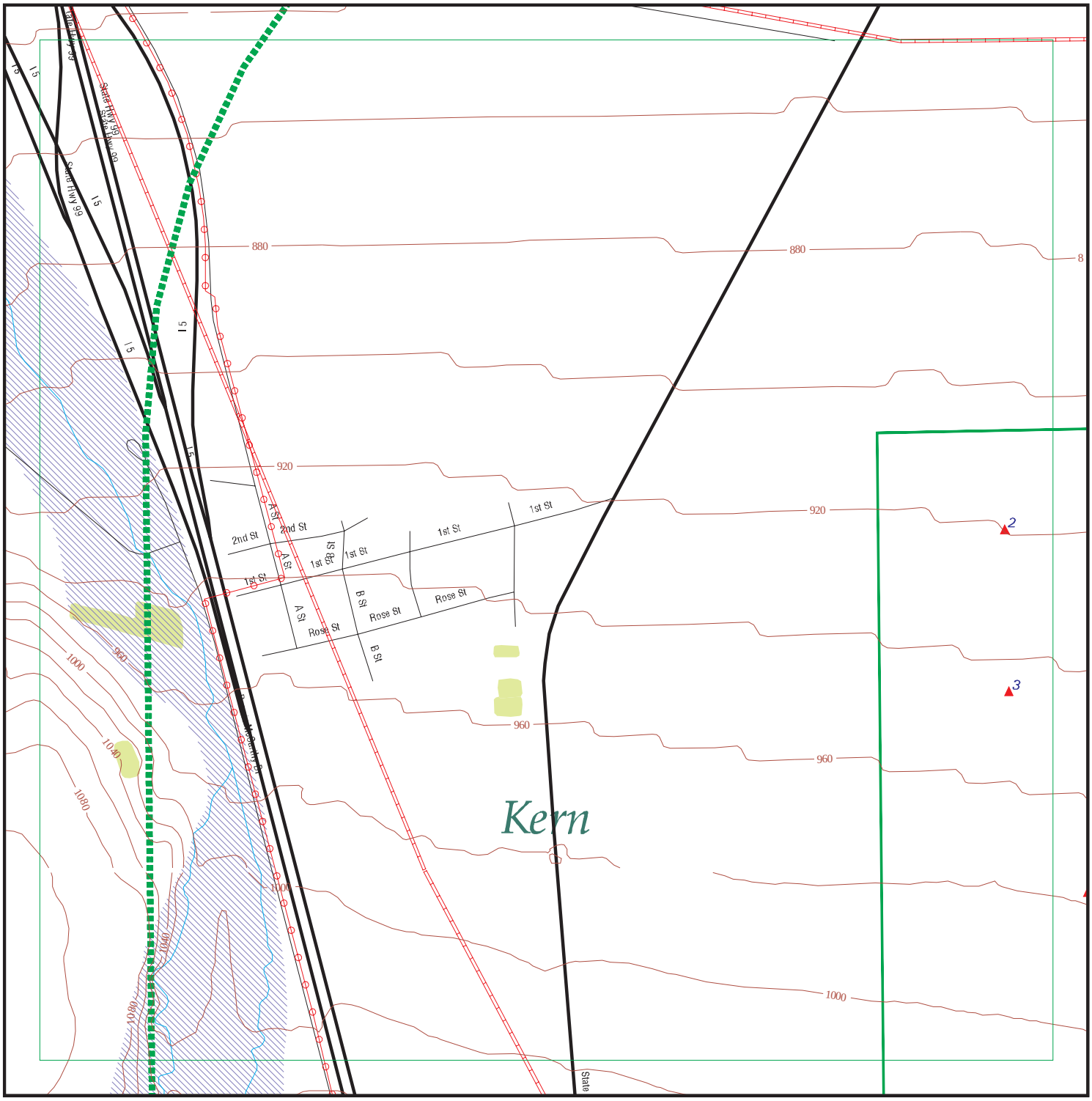
Focus Map 4



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

Map ID	Site	Database(s)	EPA ID Number
2	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111500409** **N/A**

KERN (County), CA

UIC:

API Number:	02920515
Confidential Well:	N
Well Number:	16-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	931 KB
Location Desc:	Fr SW cor 1810N 660E
GIS Source Code:	hud
Comments:	FR SW COR 1810N 660E
Latitude:	35.00673
Longitude:	-118.9324

3	**RESERVE OIL, INC.**	**UIC**	**S111500410** **N/A**

KERN (County), CA

UIC:

API Number:	02920516
Confidential Well:	N
Well Number:	18-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	957 KB
Location Desc:	Fr SW cor 660N 660E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	35.00352
Longitude:	-118.9323

12	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111586212** **N/A**

KERN (County), CA

UIC:

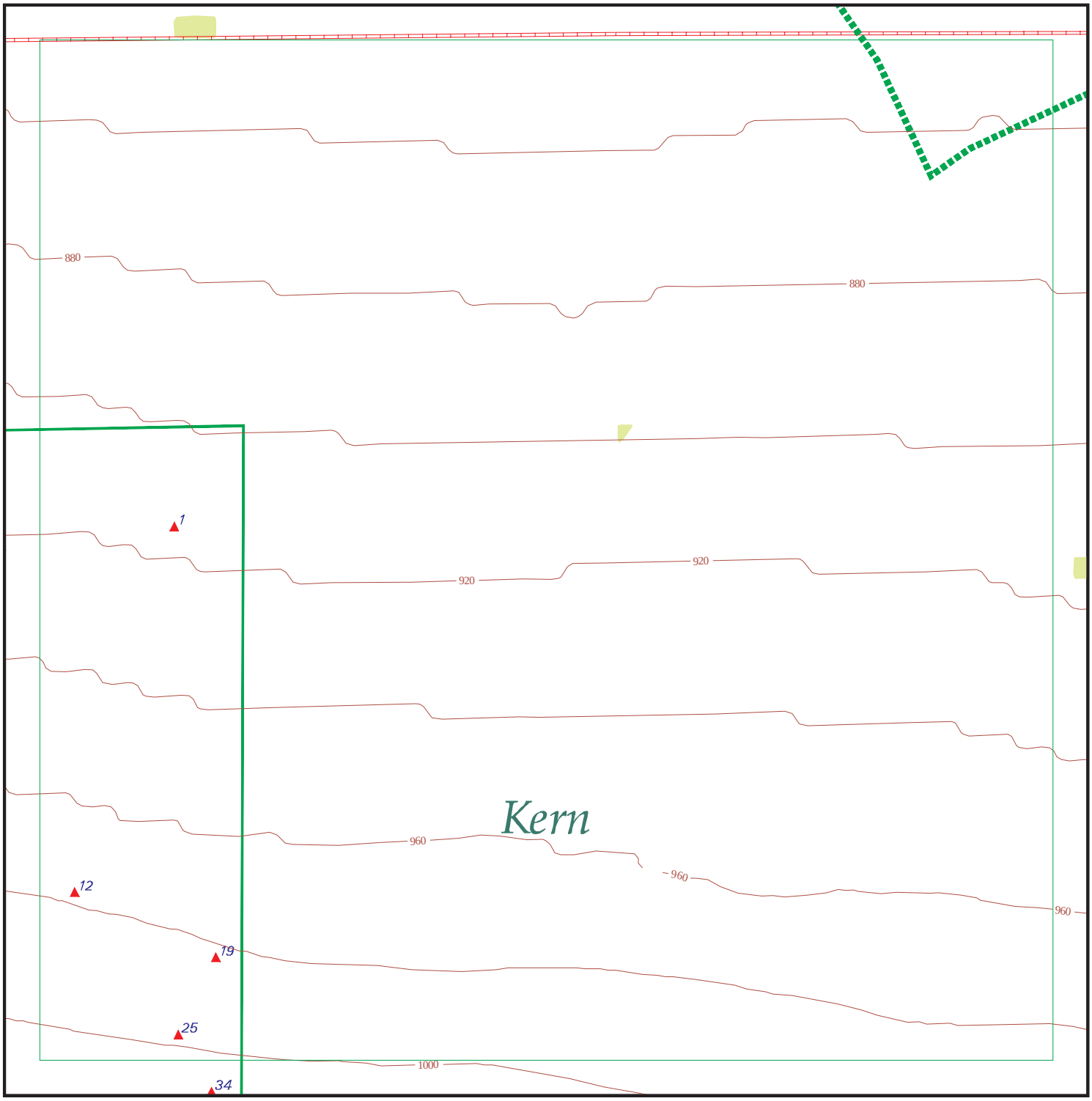
API Number:	03022876
Confidential Well:	N
Well Number:	31X-32
Direction:	Unknown
Lease Name:	Tejon Ranch

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111586212**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	987 KB
Location Desc:	Fr NW cor 798S 1460E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99954
Longitude:	-118.9304

Focus Map 5



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Map ID	Site	Database(s)	EPA ID Number

1 **RESERVE OIL, INC.** **UIC** **S111500411**
N/A

KERN (County), CA

UIC:

API Number:	02920517
Confidential Well:	N
Well Number:	36-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	926 KB
Location Desc:	Fr SW cor 1810N 1980E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	35.00679
Longitude:	-118.9280

---

12 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111586212**
N/A

KERN (County), CA

UIC:

API Number:	03022876
Confidential Well:	N
Well Number:	31X-32
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	987 KB
Location Desc:	Fr NW cor 798S 1460E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99954
Longitude:	-118.9304

---

19 **ARCO WESTERN ENERGY** **UIC** **S111498518**
N/A

KERN (County), CA

UIC:

API Number:	02918624
Confidential Well:	N
Well Number:	2
Direction:	Unknown
Lease Name:	Tejon A

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111498518**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	989 KB
Location Desc:	Fr SW cor 5007N 2302E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99825
Longitude:	-118.9270

---

25 **ARCO WESTERN ENERGY** **UIC** **S111498519**
N/A

KERN (County), CA

UIC:

API Number:	02918625
Confidential Well:	N
Well Number:	3
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1012 KB
Location Desc:	Fr SW cor 4426N 2034E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99672
Longitude:	-118.9279

---

34 **ARCO WESTERN ENERGY** **UIC** **S111498517**
N/A

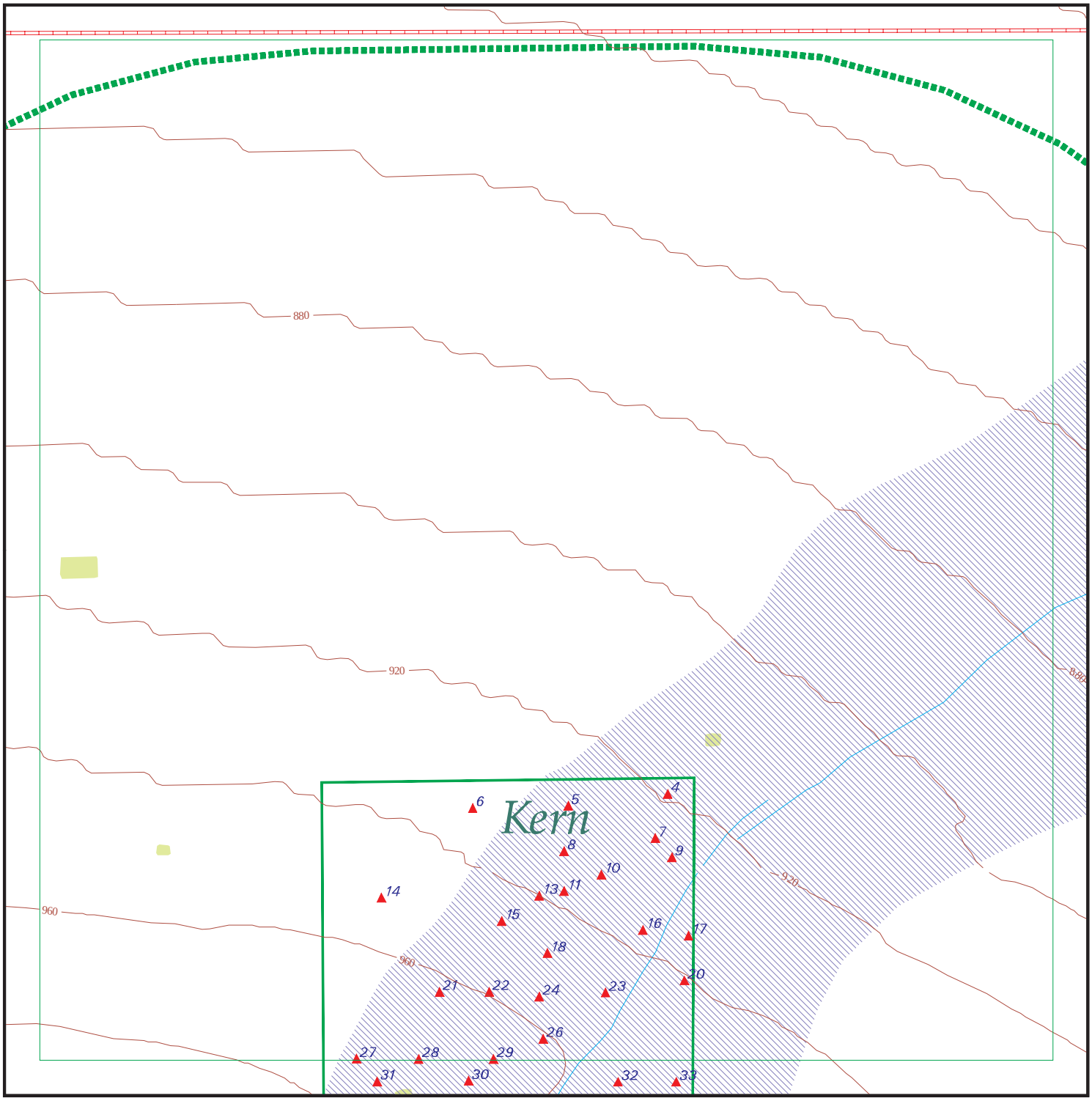
KERN (County), CA

UIC:

API Number:	02918623
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1010 KB

Map ID	Site	Database(s)	EPA ID Number
	ARCO WESTERN ENERGY (Continued)		**S111498517**
	Location Desc: Fr SW cor 4017N 2305E		
	GIS Source Code: hud		
	Comments: FR SW COR 4017N 2305		
	Latitude: 34.99558		
	Longitude: -118.9271		

Focus Map 6



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Map ID	Site	Database(s)	EPA ID Number
4	**ARCO WESTERN ENERGY**	**UIC**	**S111498798** **N/A**

KERN (County), CA

UIC:

API Number:	02918904
Confidential Well:	N
Well Number:	41A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	930 KB
Location Desc:	Fr N/4 cor 224S 224W
GIS Source Code:	hud
Comments:	FR N/4 COR 224S 224W
Latitude:	35.00149
Longitude:	-118.8917

5	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498791** **N/A**

KERN (County), CA

UIC:

API Number:	02918897
Confidential Well:	N
Well Number:	31-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	941 KB
Location Desc:	Fr N/4 cor 330S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 330S 990W
Latitude:	35.00125
Longitude:	-118.8941

6	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498789** **N/A**

KERN (County), CA

UIC:

API Number:	02918895
Confidential Well:	N
Well Number:	21-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498789**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 KB
Location Desc:	Fr N/4 cor 330S 1650W
GIS Source Code:	hud
Comments:	FR N/4 COR 330S 1650
Latitude:	35.00121
Longitude:	-118.8964

---

7 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498797**
N/A

KERN (County), CA

UIC:

API Number:	02918903
Confidential Well:	N
Well Number:	41-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	934 KB
Location Desc:	Fr N/4 cor 440S 330W
GIS Source Code:	hud
Comments:	FR N/4 COR 440S 330W
Latitude:	35.00061
Longitude:	-118.8920

---

8 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498792**
N/A

KERN (County), CA

UIC:

API Number:	02918898
Confidential Well:	N
Well Number:	31B-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498792**

Location Desc:	Fr N/4 cor 660S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 660S 990W
Latitude:	35.00035
Longitude:	-118.8942

---

9 **ARCO WESTERN ENERGY** **UIC** **S111498800**
N/A

KERN (County), CA

UIC:

API Number:	02918906
Confidential Well:	N
Well Number:	42A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr N/4 cor 700S 233W
GIS Source Code:	hud
Comments:	FR N/4 COR 700S 233W
Latitude:	35.00023
Longitude:	-118.8916

---

10 **ARCO WESTERN ENERGY** **UIC** **S111498794**
N/A

KERN (County), CA

UIC:

API Number:	02918900
Confidential Well:	N
Well Number:	32A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	943 KB
Location Desc:	Fr N/4 cor 700S 700W
GIS Source Code:	hud
Comments:	FR N/4 COR 700S 700W
Latitude:	34.99989
Longitude:	-118.8933

Map ID	Site	Database(s)	EPA ID Number

11 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498793**
N/A

KERN (County), CA

UIC:

API Number:	02918899
Confidential Well:	N
Well Number:	32-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	951 GL
Location Desc:	Fr N/4 cor 990S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 990S 990W
Latitude:	34.99956
Longitude:	-118.8942

---

13 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594233**
N/A

KERN (County), CA

UIC:

API Number:	03031235
Confidential Well:	N
Well Number:	22EH-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 KB
Location Desc:	Fr NW cor 1443E 935S
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99947
Longitude:	-118.8948

---

14 **RESERVE OIL, INC.** **UIC** **S111498788**
N/A

KERN (County), CA

UIC:

API Number:	02918894
Confidential Well:	N
Well Number:	12-34
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498788**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	960 KB
Location Desc:	Fr NW cor 990S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99943
Longitude:	-118.8986

---

15 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111596089**
N/A

KERN (County), CA

UIC:

API Number:	03033234
Confidential Well:	N
Well Number:	32H-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	964 KB
Location Desc:	Fr SW cor 1226E 5378N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99910
Longitude:	-118.8957

---

15 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111561483**
N/A

KERN (County), CA

UIC:

API Number:	02986052
Confidential Well:	N
Well Number:	22-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	958 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111561483**

Location Desc:	Fr SW cor 5250N 1100E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99880
Longitude:	-118.8961

---

16 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498799**
N/A

KERN (County), CA

UIC:

API Number:	02918905
Confidential Well:	N
Well Number:	42-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	948 KB
Location Desc:	Fr N/4 cor 1100S 400W
GIS Source Code:	hud
Comments:	FR N/4 COR 1100S 400
Latitude:	34.99879
Longitude:	-118.8923

---

17 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594232**
N/A

KERN (County), CA

UIC:

API Number:	03031234
Confidential Well:	N
Well Number:	52B-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	949 KB
Location Desc:	Fr SW cor 5203N 2567E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99868
Longitude:	-118.8912

Map ID	Site	Database(s)	EPA ID Number

18 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111561482**
N/A

KERN (County), CA

UIC:

API Number:	02986051
Confidential Well:	N
Well Number:	72-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	950 KB
Location Desc:	Fr SE cor 5160N 1515W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99833
Longitude:	-118.8946

---

20 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111596090**
N/A

KERN (County), CA

UIC:

API Number:	03033235
Confidential Well:	N
Well Number:	42X-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	949 KB
Location Desc:	Fr SW cor 2566E 4892N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99779
Longitude:	-118.8913

---

21 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498808**
N/A

KERN (County), CA

UIC:

API Number:	02918914
Confidential Well:	N
Well Number:	213-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498808**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 KB
Location Desc:	Fr W/4 cor 1485N 715E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 715
Latitude:	34.99756
Longitude:	-118.8972

---

22 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498790**
N/A

KERN (County), CA

UIC:

API Number:	02918896
Confidential Well:	N
Well Number:	23-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	966 KB
Location Desc:	Fr W/4 cor 1485N 1100E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 110
Latitude:	34.99756
Longitude:	-118.8960

---

23 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498801**
N/A

KERN (County), CA

UIC:

API Number:	02918907
Confidential Well:	N
Well Number:	43-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	953 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498801**

Location Desc:	Fr W/4 cor 1635N 1985E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99755
Longitude:	-118.8932

---

24 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498795**
N/A

KERN (County), CA

UIC:

API Number:	02918901
Confidential Well:	N
Well Number:	33-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr W/4 cor 1485N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 148
Latitude:	34.99747
Longitude:	-118.8948

---

26 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498796**
N/A

KERN (County), CA

UIC:

API Number:	02918902
Confidential Well:	N
Well Number:	34-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 GL
Location Desc:	Fr W/4 cor 1155N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1155N 148
Latitude:	34.99663
Longitude:	-118.8947

Map ID	Site	Database(s)	EPA ID Number

27 **PENNANT PETROLEUM CORP.** **UIC** **S111498820**
N/A

KERN (County), CA

UIC:

API Number:	02918926
Confidential Well:	N
Well Number:	34-12
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 1155N 165E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99624
Longitude:	-118.8992

---

28 **PENNANT PETROLEUM CORP.** **UIC** **S111498819**
N/A

KERN (County), CA

UIC:

API Number:	02918925
Confidential Well:	N
Well Number:	34-10
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 RT
Location Desc:	Fr NW cor 1485S 560E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8977

---

29 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498809**
N/A

KERN (County), CA

UIC:

API Number:	02918915
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Crane

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111498809**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 GL
Location Desc:	Fr W/4 cor 1155N 1155E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8959

---

30 **PENNANT PETROLEUM CORP.** **UIC** **S111498815**
N/A

KERN (County), CA

UIC:

API Number:	02918921
Confidential Well:	N
Well Number:	34-6
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 GL
Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99580
Longitude:	-118.8965

---

31 **PENNANT PETROLEUM CORP.** **UIC** **S111498814**
N/A

KERN (County), CA

UIC:

API Number:	02918920
Confidential Well:	N
Well Number:	34-5
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	976 GL

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498814**

Location Desc:	Fr W/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99579
Longitude:	-118.8987

---

32 **ARCO WESTERN ENERGY** **UIC** **S111535499**
N/A

KERN (County), CA

UIC:

API Number:	02957938
Confidential Well:	N
Well Number:	43A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr ctr 870N 600W
GIS Source Code:	hud
Comments:	FR CTR COR 870N 600W
Latitude:	34.99578
Longitude:	-118.8929

---

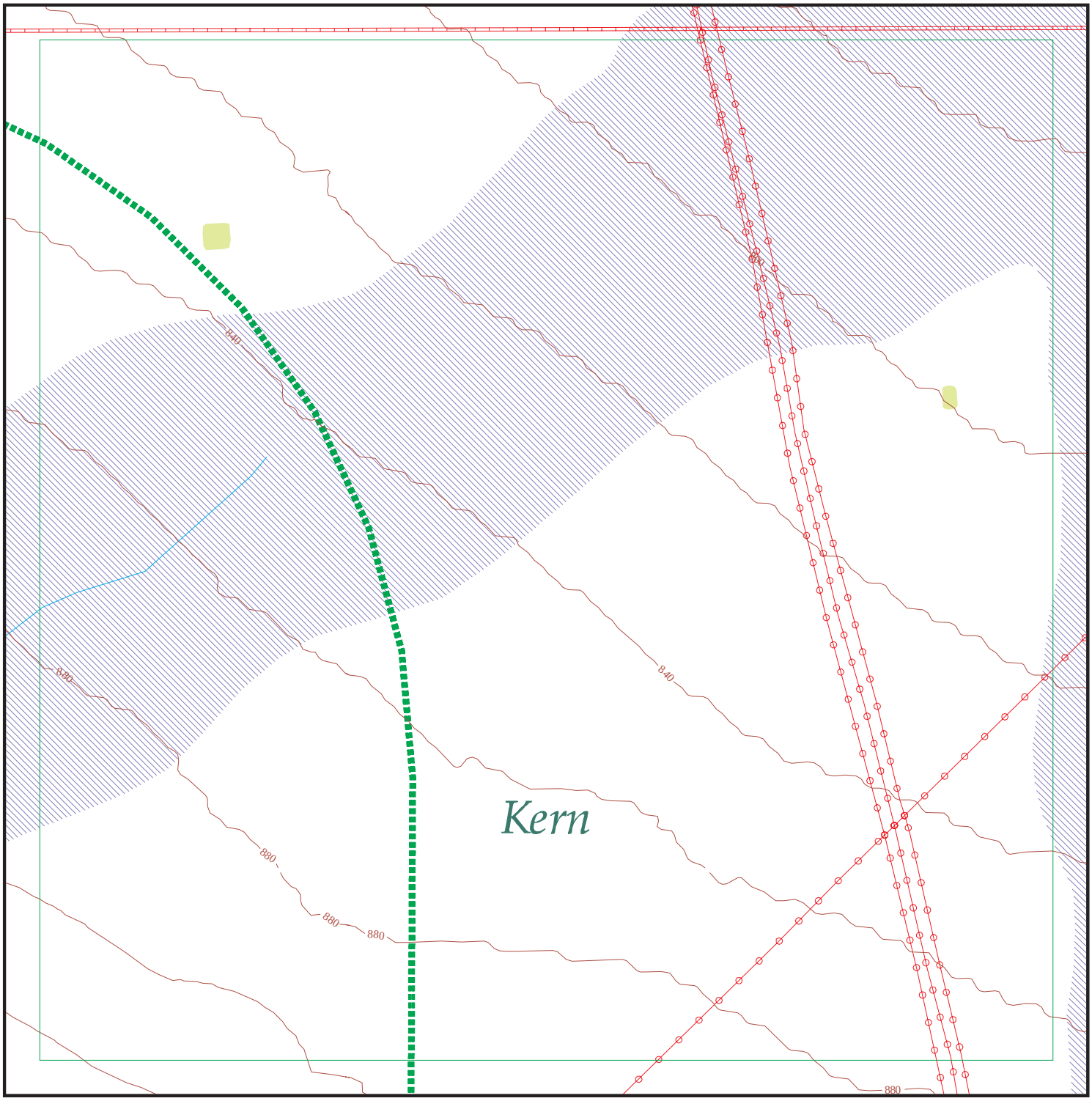
33 **ARCO WESTERN ENERGY** **UIC** **S111530070**
N/A

KERN (County), CA

UIC:

API Number:	02951966
Confidential Well:	N
Well Number:	45A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr ctr 870N 200W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 870N 2
Latitude:	34.99578
Longitude:	-118.8915

Focus Map 7



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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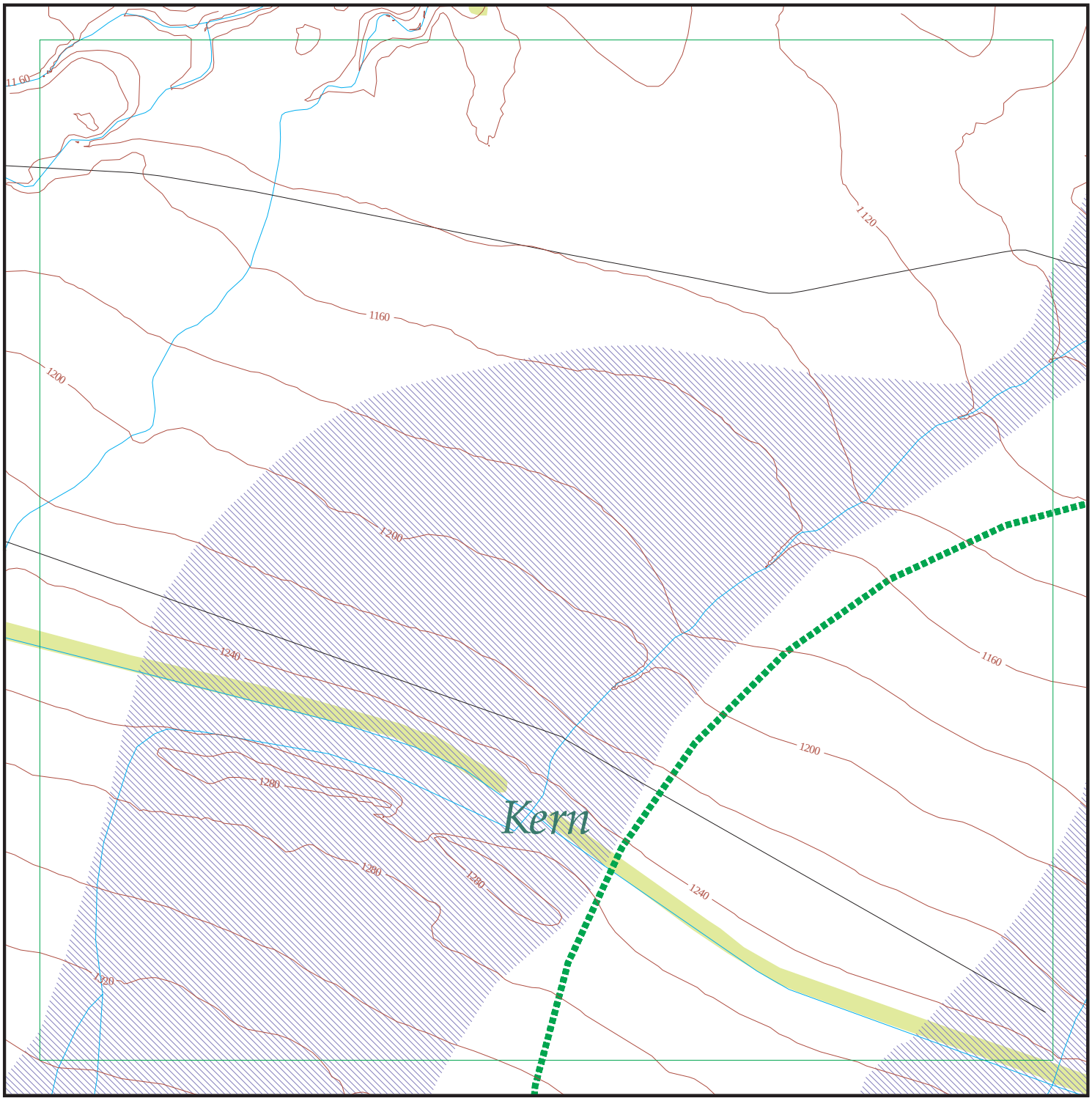
N

0 1/8 1/4

Scale in Miles

Focus Map 8



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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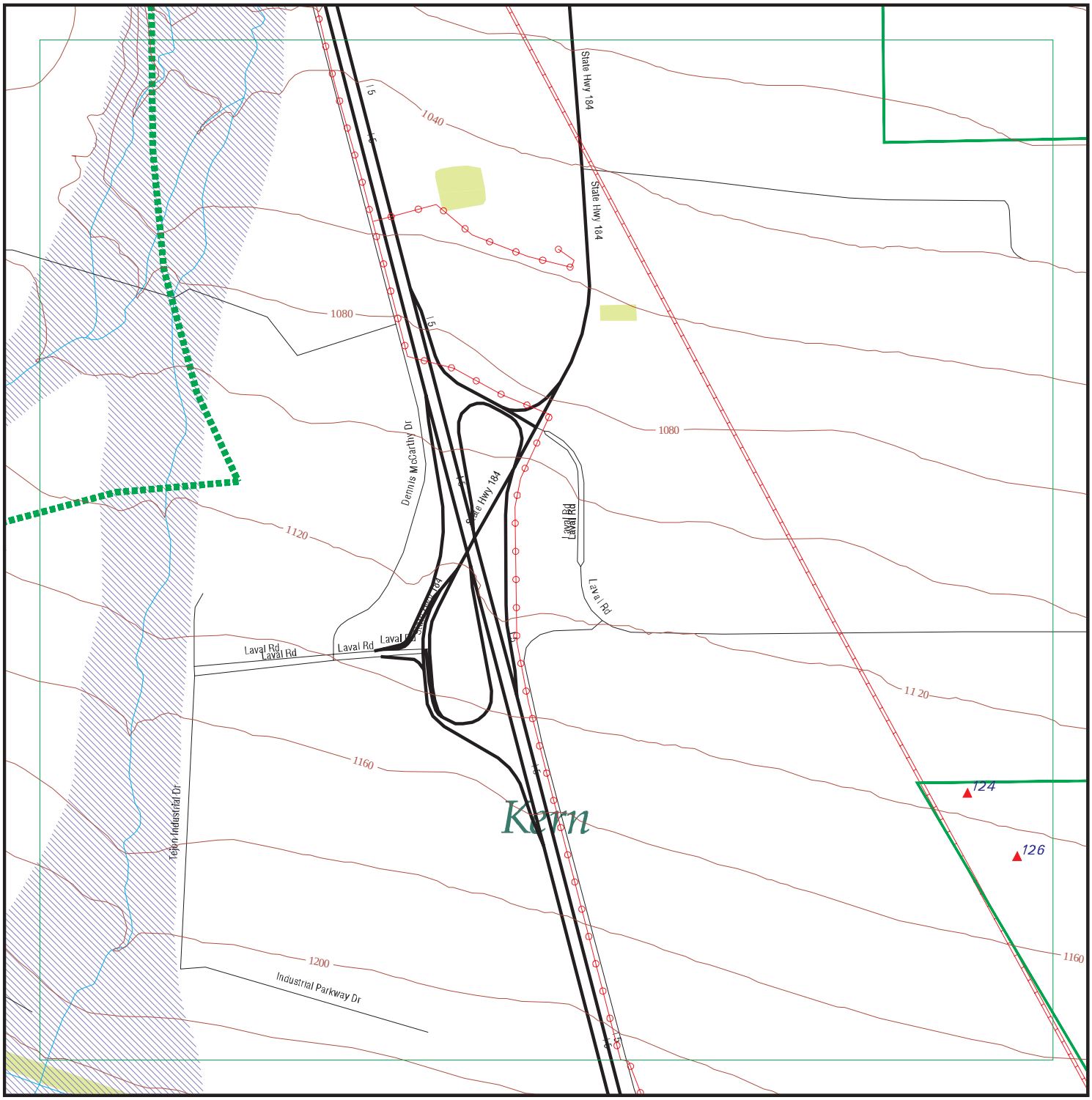
Focus Map 9



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

Map ID	Site	Database(s)	EPA ID Number
124	**CHEVRON U.S.A. INC.**	**UIC**	**S111536333** **N/A**

KERN (County), CA

UIC:

API Number:	02958857
Confidential Well:	N
Well Number:	4
Direction:	Unknown
Lease Name:	Tejon T
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1140 KB
Location Desc:	Fr NW cor 1124S 624E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98128
Longitude:	-118.9333

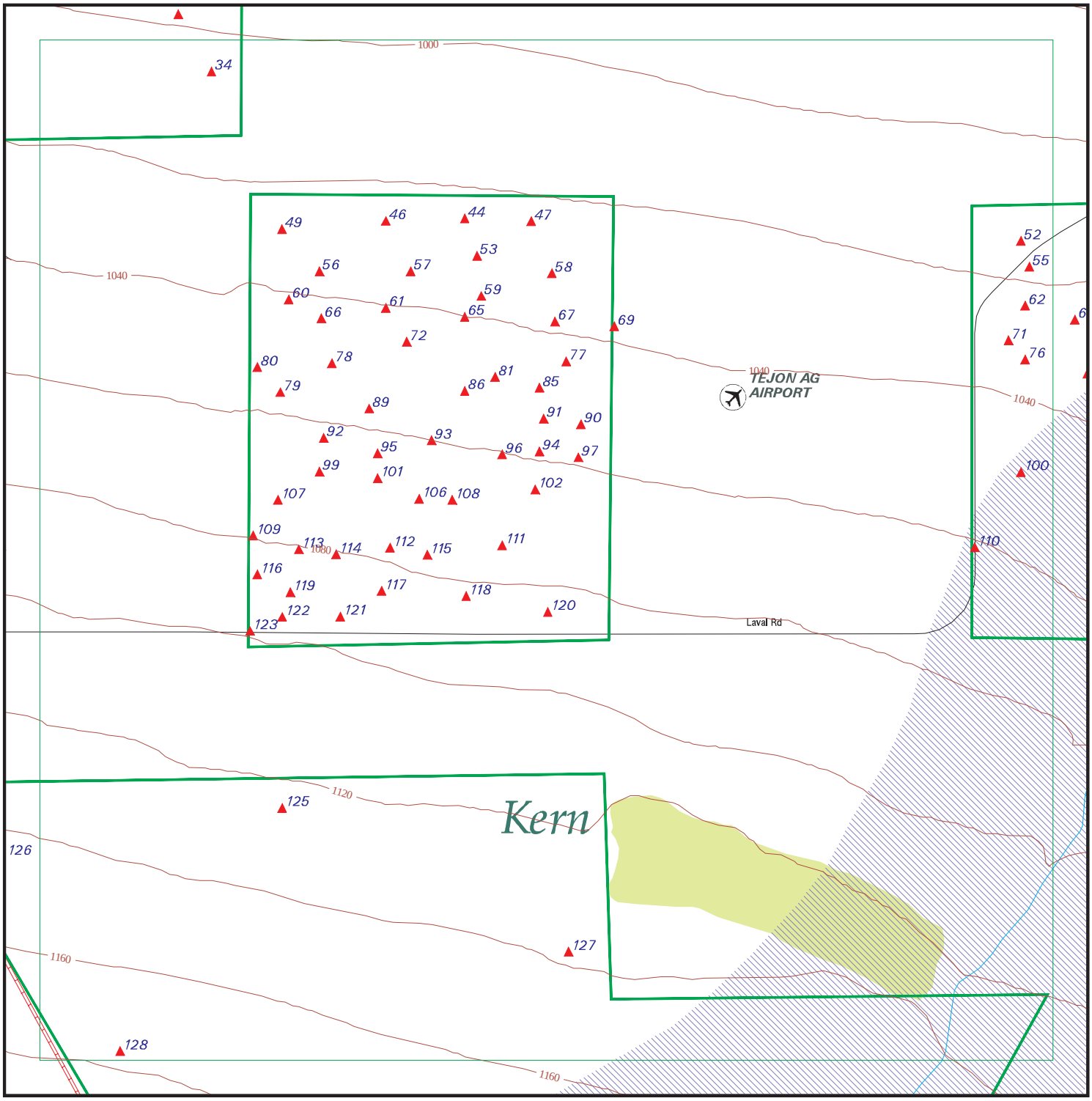
Map ID	Site	Database(s)	EPA ID Number
126	**CHEVRON U.S.A. INC.**	**UIC**	**S111498674** **N/A**

KERN (County), CA

UIC:

API Number:	02918780
Confidential Well:	N
Well Number:	23-5
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1158 KB
Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98002
Longitude:	-118.9321

Focus Map 10



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

Map ID	Site	Database(s)	EPA ID Number
25	**ARCO WESTERN ENERGY**	**UIC**	**S111498519** **N/A**

KERN (County), CA

UIC:

API Number:	02918625
Confidential Well:	N
Well Number:	3
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1012 KB
Location Desc:	Fr SW cor 4426N 2034E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99672
Longitude:	-118.9279

34	**ARCO WESTERN ENERGY**	**UIC**	**S111498517** **N/A**

KERN (County), CA

UIC:

API Number:	02918623
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1010 KB
Location Desc:	Fr SW cor 4017N 2305E
GIS Source Code:	hud
Comments:	FR SW COR 4017N 2305
Latitude:	34.99558
Longitude:	-118.9271

44	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498617** **N/A**

KERN (County), CA

UIC:

API Number:	02918723
Confidential Well:	N
Well Number:	75-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498617**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2880N 1590E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99267
Longitude:	-118.9210

---

46 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498613**
N/A

KERN (County), CA

UIC:

API Number:	02918719
Confidential Well:	N
Well Number:	65-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2881N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99262
Longitude:	-118.9229

---

47 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498623**
N/A

KERN (County), CA

UIC:

API Number:	02918729
Confidential Well:	N
Well Number:	85-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498623**

Location Desc:	Fr SE cor 3000N 450W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99261
Longitude:	-118.9194

---

49 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594692**
N/A

KERN (County), CA

UIC:

API Number:	03031720
Confidential Well:	N
Well Number:	3H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr SW cor 2993N 2333W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99260
Longitude:	-118.9254

---

49 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498606**
N/A

KERN (County), CA

UIC:

API Number:	02918712
Confidential Well:	N
Well Number:	55-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2880N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99228
Longitude:	-118.9255

Map ID	Site	Database(s)	EPA ID Number

52 **ARCO WESTERN ENERGY** **UIC** **S111498734**
N/A

KERN (County), CA

UIC:

API Number:	02918840
Confidential Well:	N
Well Number:	2-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 DF
Location Desc:	Fr ctr 330S 330E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 3
Latitude:	34.99222
Longitude:	-118.9076

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606697**
N/A

KERN (County), CA

UIC:

API Number:	03044317
Confidential Well:	N
Well Number:	48H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1042 KB
Location Desc:	fro SE cor 2837N 876W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99218
Longitude:	-118.9205

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111604456**
N/A

KERN (County), CA

UIC:

API Number:	03042074
Confidential Well:	N
Well Number:	39H-32
Direction:	Unknown
Lease Name:	J.V

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111604456**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1038 KB
Location Desc:	fro SW cor 2690N 4369E
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99189
Longitude:	-118.9207

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498640**
N/A

KERN (County), CA

UIC:

API Number:	02918746
Confidential Well:	N
Well Number:	755-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr SE cor 2649N 810W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99161
Longitude:	-118.9203

---

55 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498748**
N/A

KERN (County), CA

UIC:

API Number:	02918854
Confidential Well:	N
Well Number:	56-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1025 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498748**

Location Desc:	Fr ctr 615S 380E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 615S 3
Latitude:	34.99171
Longitude:	-118.9074

---

56 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498631**
N/A

KERN (County), CA

UIC:

API Number:	02918737
Confidential Well:	N
Well Number:	555-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 KB
Location Desc:	Fr SE cor 2640N 1980W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99162
Longitude:	-118.9245

---

57 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498635**
N/A

KERN (County), CA

UIC:

API Number:	02918741
Confidential Well:	N
Well Number:	655-32
Direction:	Not Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 KB
Location Desc:	Fr SE cor 2640N 1320W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99162
Longitude:	-118.9223

Map ID	Site	Database(s)	EPA ID Number

58 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111604586**
N/A

KERN (County), CA

UIC:

API Number:	03042204
Confidential Well:	N
Well Number:	38H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1032 KB
Location Desc:	Fr SE cor 2615N 401W
GIS Source Code:	sum
Comments:	jdp 8-17-11
Latitude:	34.99158
Longitude:	-118.9189

---

59 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600129**
N/A

KERN (County), CA

UIC:

API Number:	03037650
Confidential Well:	N
Well Number:	22BH-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1050 KB
Location Desc:	Fr SE cor 2450N 909W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99113
Longitude:	-118.9206

---

60 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498607**
N/A

KERN (County), CA

UIC:

API Number:	02918713
Confidential Well:	N
Well Number:	56-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498607**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr S/4 cor 2310N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99111
Longitude:	-118.9252

---

60 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594690**
N/A

KERN (County), CA

UIC:

API Number:	03031718
Confidential Well:	N
Well Number:	4H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1055 KB
Location Desc:	Fr SW cor 2973E 2401S
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99100
Longitude:	-118.9253

---

61 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598952**
N/A

KERN (County), CA

UIC:

API Number:	03036347
Confidential Well:	N
Well Number:	22H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111598952**

Location Desc:	Fr SW cor 2424N 1618W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99103
Longitude:	-118.9229

---

61 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498614**
N/A

KERN (County), CA

UIC:

API Number:	02918720
Confidential Well:	N
Well Number:	66-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 GL
Location Desc:	Fr S/4 cor 2310N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99072
Longitude:	-118.9230

---

62 **RESERVE OIL, INC.** **UIC** **S111498735**
N/A

KERN (County), CA

UIC:

API Number:	02918841
Confidential Well:	N
Well Number:	3-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr ctr 960S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99094
Longitude:	-118.9075

Map ID	Site	Database(s)	EPA ID Number

63 **RESERVE OIL, INC.** **UIC** **S111498756**
N/A

KERN (County), CA

UIC:

API Number:	02918862
Confidential Well:	N
Well Number:	66R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1029 KB
Location Desc:	Fr ctr 950S 620E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99085
Longitude:	-118.9063

---

63 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498749**
N/A

KERN (County), CA

UIC:

API Number:	02918855
Confidential Well:	N
Well Number:	57-V-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1033 KB
Location Desc:	Fr ctr 1100S 660E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1100S
Latitude:	34.99042
Longitude:	-118.9063

---

65 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498618**
N/A

KERN (County), CA

UIC:

API Number:	02918724
Confidential Well:	N
Well Number:	76-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498618**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr S/4 cor 2310N 1590E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99072
Longitude:	-118.9210

---

66 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603888**
N/A

KERN (County), CA

UIC:

API Number:	03041505
Confidential Well:	N
Well Number:	36H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 2297N 2138W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99070
Longitude:	-118.9247

---

66 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603703**
N/A

KERN (County), CA

UIC:

API Number:	03041320
Confidential Well:	N
Well Number:	35H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1062 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111603703**

Location Desc:	Fr SE cor 2288'N 2009'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.99067
Longitude:	-118.9242

---

67 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606525**
N/A

KERN (County), CA

UIC:

API Number:	03044145
Confidential Well:	N
Well Number:	47H-32
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1049 KB
Location Desc:	fro SE cor 2297N 317W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99070
Longitude:	-118.9186

---

67 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111480808**
N/A

KERN (County), CA

UIC:

API Number:	02900902
Confidential Well:	N
Well Number:	86-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr SE cor 2240N 478W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99053
Longitude:	-118.9191

Map ID	Site	Database(s)	EPA ID Number

69 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498654**
N/A

KERN (County), CA

UIC:

API Number:	02918760
Confidential Well:	N
Well Number:	16C-33WI
Direction:	Unknown
Lease Name:	OMB
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr SW cor 2240N 150E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99053
Longitude:	-118.9174

---

71 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112144213**
N/A

KERN (County), CA

UIC:

API Number:	03047145
Confidential Well:	N
Well Number:	57X-33
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.99025
Longitude:	-118.9079

---

72 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498636**
N/A

KERN (County), CA

UIC:

API Number:	02918742
Confidential Well:	N
Well Number:	665-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498636**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1064 KB
Location Desc:	Fr SE cor 2130N 1350W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99022
Longitude:	-118.9224

---

76 **PAULEY PETROLEUM INC.** **UIC** **S111498711**
N/A

KERN (County), CA

UIC:

API Number:	02918817
Confidential Well:	N
Well Number:	57-33
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr ctr 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98987
Longitude:	-118.9075

---

77 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606526**
N/A

KERN (County), CA

UIC:

API Number:	03044146
Confidential Well:	N
Well Number:	50H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1058 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111606526**

Location Desc:	fro SE cor 1990N 314W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.98986
Longitude:	-118.9186

---

77 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498644**
N/A

KERN (County), CA

UIC:

API Number:	02918750
Confidential Well:	N
Well Number:	865-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 KB
Location Desc:	Fr SE cor 1980N 182W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98981
Longitude:	-118.9185

---

78 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498632**
N/A

KERN (County), CA

UIC:

API Number:	02918738
Confidential Well:	N
Well Number:	565-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1054 KB
Location Desc:	Fr SE cor 1980N 1980W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98980
Longitude:	-118.9242

Map ID	Site	Database(s)	EPA ID Number

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498608**
N/A

KERN (County), CA

UIC:

API Number:	02918714
Confidential Well:	N
Well Number:	56R-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1057 KB
Location Desc:	Fr S/4 cor 1951N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98974
Longitude:	-118.9253

---

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111607310**
N/A

KERN (County), CA

UIC:

API Number:	03044930
Confidential Well:	N
Well Number:	2H-32
Direction:	Unknown
Lease Name:	J.V. Reserve
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1071 KB
Location Desc:	fr SE cor 1816'N 2420'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98937
Longitude:	-118.9256

---

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498609**
N/A

KERN (County), CA

UIC:

API Number:	02918715
Confidential Well:	N
Well Number:	57-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498609**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1061 KB
Location Desc:	Fr S/4 cor 1650N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98915
Longitude:	-118.9253

---

80 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584176**
N/A

KERN (County), CA

UIC:

API Number:	03020751
Confidential Well:	N
Well Number:	1H
Direction:	Unknown
Lease Name:	J.V. Valv
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1065 KB
Location Desc:	Fr SE cor 1564N 493W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98972
Longitude:	-118.9260

---

80 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584399**
N/A

KERN (County), CA

UIC:

API Number:	03020984
Confidential Well:	N
Well Number:	1H
Direction:	Unknown
Lease Name:	J.V. Reserve
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1066 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111584399**

Location Desc:	Fr SE cor 2541W 1936N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98971
Longitude:	-118.9260

---

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498627**
N/A

KERN (County), CA

UIC:

API Number:	02918733
Confidential Well:	N
Well Number:	102-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1155 KB
Location Desc:	Fr SE cor 1900N 800W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9205

---

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498626**
N/A

KERN (County), CA

UIC:

API Number:	02918732
Confidential Well:	N
Well Number:	101-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr S/4 cor 1980N 1290E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98954
Longitude:	-118.9202

Map ID	Site	Database(s)	EPA ID Number

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498641**
N/A

KERN (County), CA

UIC:

API Number:	02918747
Confidential Well:	N
Well Number:	765-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1056 KB
Location Desc:	Fr SE cor 1844N 747W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98944
Longitude:	-118.9200

---

82 **RESERVE OIL, INC.** **UIC** **S111498767**
N/A

KERN (County), CA

UIC:

API Number:	02918873
Confidential Well:	N
Well Number:	157-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB
Location Desc:	Fr ctr 1430S 760E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9060

---

85 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112145442**
N/A

KERN (County), CA

UIC:

API Number:	03048400
Confidential Well:	N
Well Number:	87X-32
Direction:	Directionally drilled
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S112145442**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1067 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98931
Longitude:	-118.9192

---

86 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498619**
N/A

KERN (County), CA

UIC:

API Number:	02918725
Confidential Well:	N
Well Number:	77-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1060 KB
Location Desc:	Fr S/4 cor 1650N 1590E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98925
Longitude:	-118.9210

---

89 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498615**
N/A

KERN (County), CA

UIC:

API Number:	02918721
Confidential Well:	N
Well Number:	67-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 GL

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498615**

Location Desc:	Fr S/4 cor 1650N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98890
Longitude:	-118.9233

---

90 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111607546**
N/A

KERN (County), CA

UIC:

API Number:	03045166
Confidential Well:	N
Well Number:	56H-32
Direction:	Horizontally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1070 KB
Location Desc:	fro SE cor 1573N 196W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.98871
Longitude:	-118.9182

---

90 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599687**
N/A

KERN (County), CA

UIC:

API Number:	03037160
Confidential Well:	N
Well Number:	27H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr SW cor 5117E 1406N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98843
Longitude:	-118.9182

Map ID	Site	Database(s)	EPA ID Number

91 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498624**
N/A

KERN (County), CA

UIC:

API Number:	02918730
Confidential Well:	N
Well Number:	87-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1063 KB
Location Desc:	Fr SE cor 1580N 477W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98870
Longitude:	-118.9191

---

92 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498633**
N/A

KERN (County), CA

UIC:

API Number:	02918739
Confidential Well:	N
Well Number:	575-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1068 KB
Location Desc:	Fr SE cor 1430N 2060W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98832
Longitude:	-118.9244

---

93 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498637**
N/A

KERN (County), CA

UIC:

API Number:	02918743
Confidential Well:	N
Well Number:	675-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498637**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1067 KB
Location Desc:	Fr SE cor 1410N 1290W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98827
Longitude:	-118.9218

---

94 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606823**
N/A

KERN (County), CA

UIC:

API Number:	03044443
Confidential Well:	N
Well Number:	53H-32
Direction:	Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	fro SE cor 1328N 460W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98805
Longitude:	-118.9192

---

95 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111566911**
N/A

KERN (County), CA

UIC:

API Number:	03002007
Confidential Well:	N
Well Number:	104-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1076 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111566911**

Location Desc:	Fr SE cor 1318N 1652W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98801
Longitude:	-118.9231

---

96 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498642**
N/A

KERN (County), CA

UIC:

API Number:	02918748
Confidential Well:	N
Well Number:	775-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1069 KB
Location Desc:	Fr SE cor 1320N 770W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98799
Longitude:	-118.9201

---

97 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498645**
N/A

KERN (County), CA

UIC:

API Number:	02918751
Confidential Well:	N
Well Number:	875-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1068 KB
Location Desc:	Fr SE cor 1320N 167W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98799
Longitude:	-118.9184

Map ID	Site	Database(s)	EPA ID Number

97 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600435**
N/A

KERN (County), CA

UIC:

API Number:	03037967
Confidential Well:	N
Well Number:	31H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1076 KB
Location Desc:	Fr SW crn 1226N 5068E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98786
Longitude:	-118.9181

---

99 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598954**
N/A

KERN (County), CA

UIC:

API Number:	03036349
Confidential Well:	N
Well Number:	24H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1083 KB
Location Desc:	Fr SE cor 1198N 2090W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98765
Longitude:	-118.9245

---

100 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498750**
N/A

KERN (County), CA

UIC:

API Number:	02918856
Confidential Well:	N
Well Number:	58-33
Direction:	Not Directionally drilled
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498750**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 GL
Location Desc:	Fr ctr 1980S 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98764
Longitude:	-118.9076

---

101 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111480184**
N/A

KERN (County), CA

UIC:

API Number:	02900272
Confidential Well:	N
Well Number:	68-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 990N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98752
Longitude:	-118.9231

---

102 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584418**
N/A

KERN (County), CA

UIC:

API Number:	03021006
Confidential Well:	N
Well Number:	10H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1080 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111584418**

Location Desc:	Fr SE cor 1125N 500W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98746
Longitude:	-118.9193

---

102 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498625**
N/A

KERN (County), CA

UIC:

API Number:	02918731
Confidential Well:	N
Well Number:	88-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1077 KB
Location Desc:	Fr SE cor 990N 476W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9194

---

106 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498638**
N/A

KERN (County), CA

UIC:

API Number:	02918744
Confidential Well:	N
Well Number:	682-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 998N 1293E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98711
Longitude:	-118.9221

Map ID	Site	Database(s)	EPA ID Number

107 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498610**
N/A

KERN (County), CA

UIC:

API Number:	02918716
Confidential Well:	N
Well Number:	58-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9255

---

108 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498620**
N/A

KERN (County), CA

UIC:

API Number:	02918726
Confidential Well:	N
Well Number:	78-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1065 GL
Location Desc:	Fr S/4 cor 990N 1590E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9213

---

109 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594734**
N/A

KERN (County), CA

UIC:

API Number:	03031771
Confidential Well:	N
Well Number:	13H-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111594734**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1084 KB
Location Desc:	Fr SW cor 2754E 754N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98656
Longitude:	-118.9261

---

109 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498630**
N/A

KERN (County), CA

UIC:

API Number:	02918736
Confidential Well:	N
Well Number:	485-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1095 KB
Location Desc:	Fr S/4 cor 650N 105E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98615
Longitude:	-118.9260

---

110 **LAVAL FARMS LIMITED PARTNERSHIP** **VCP** **S106568202**
4358 LAVAL ROAD **ENVIROSTOR** **N/A**
METTLER, CA 93301

VCP:

Facility ID:	15010006
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Kevin Shaddy
Supervisor:	Kevin Shaddy
Division Branch:	Cleanup San Joaquin
Site Code:	100527

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Assembly:	34
Senate:	16
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	09/22/1997
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	35.01055 / -118.9241
APN:	NONE SPECIFIED
Past Use:	"AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS"
Potential COC:	30244
Confirmed COC:	30244
Potential Description:	SOIL
Alias Name:	LAVAL FARMS LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	110033607620
Alias Type:	EPA (FRS #)
Alias Name:	100527
Alias Type:	Project Code (Site Code)
Alias Name:	15010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	08/05/1996
Comments:	VCONS/RIFS -- Approximately 600 cu yds of contaminated soils excavated from two of four identified "hot spot" areas were thermally treated as part of a treatability study to demon- strate the feasibility of low temperature thermal desorption technology. Based on the findings of the treatability, the RI/FS phase of the project was completed and approved by DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	10/08/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/25/1997
Comments:	RA -- A removal action was completed which consisted of the excavation and thermal treatment (low temperature thermal desorption) of approximately 6150 tons of Dinoseb contaminated soil. The soil was excavated from five separate areas located on the Laval Farms property. The total area involved in the removal action was approximately 10 acres.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/13/1997
Comments:	RAW -- A Removal Action Workplan was approved for the Site. The remedy consisted of the treatment of approximately 4,000 cubic yards of pesticide contaminated soil using thermal desorption.

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/19/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/15/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/06/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/09/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 09/23/1997
Comments: CERT -- A removal action consisting of the excavation and low temperature thermal desorption of approximately 6150 tons of Dinoseb contaminated soil has been certified. The certification applies to five acres located on the Laval Farms property which totals an estimated ten acres in area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/24/1995
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 15010006
Status: Certified
Status Date: 09/22/1997
Site Code: 100527
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Kevin Shaddy
Supervisor:	Kevin Shaddy
Division Branch:	Cleanup San Joaquin
Assembly:	34
Senate:	16
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	35.01055
Longitude:	-118.9241
APN:	NONE SPECIFIED
Past Use:	"AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS"
Potential COC:	Dinoseb
Confirmed COC:	Dinoseb
Potential Description:	SOIL
Alias Name:	LAVAL FARMS LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	110033607620
Alias Type:	EPA (FRS #)
Alias Name:	100527
Alias Type:	Project Code (Site Code)
Alias Name:	15010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	08/05/1996
Comments:	VCONS/RIFS -- Approximately 600 cu yds of contaminated soils excavated from two of four identified "hot spot" areas were thermally treated as part of a treatability study to demon- strate the feasibility of low temperature thermal desorption technology. Based on the findings of the treatability, the RI/FS phase of the project was completed and approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	10/08/1997
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/25/1997
Comments:	RA -- A removal action was completed which consisted of the excavation and thermal treatment (low temperature thermal desorption) of approximately 6150 tons of Dinoseb contaminated soil. The soil was excavated from five separate areas located on the Laval Farms property. The total area involved in the removal action was approximately 10 acres.

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/13/1997
Comments:	RAW -- A Removal Action Workplan was approved for the Site. The remedy consisted of the treatment of approximately 4,000 cubic yards of pesticide contaminated soil using thermal desorption.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/19/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	07/15/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/06/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	02/09/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/23/1997
Comments:	CERT -- A removal action consisting of the excavation and low temperature thermal desorption of approximately 6150 tons of Dinoseb contaminated soil has been certified. The certification applies to five acres located on the Laval Farms property which totals an estimated ten acres in area.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/24/1995
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Map ID	Site	Database(s)	EPA ID Number

110 **LAVAL FARMS LIMITED PARTNERSHIP** **FINDS** **1010728765**
4358 LAVAL ROAD **N/A**
METTLER, CA

FINDS:

Registry ID: 110033607620

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

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110 **TUT BROTHERS & SONS INC** **EMI** **1006824622**
4358 LAVAL ROAD **N/A**
WHEELER RIDGE, CA 93203

EMI:

Year:	1999
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	161
Part. Matter 10 Micrometers & Smllr Tons/Yr:	111

Map ID	Site	Database(s)	EPA ID Number
110	**LAVAL FARMS LIMITED PARTNERSHP** **4358 LAVAL RD** **ARVIN, CA 93203**	**HAZNET**	**S113172866** **N/A**

HAZNET:

Year:	1997
Gepaid:	CAP601252990
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	Not reported
Mailing City,St,Zip:	000000000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Tons:	16.8560
Facility County:	0

110	**TUT BROTHERS** **4358 LAVAL** **ARVIN, CA 93203**	**AST**	**A100337774** **N/A**

AST:

Owner:	TUT BROTHERS FARMS LLC
Total Gallons:	18,220
Certified Unified Program Agencies:	Kern

110	**TUT BROTHERS & SONS INC** **4358 LAVAL ROAD** **ARVIN, CA 93203**	**EMI**	**S103659531** **N/A**

EMI:

Year:	1995
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1996
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD

Map ID	Site	Database(s)	EPA ID Number

TUT BROTHERS & SONS INC (Continued) **S103659531**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

110 **TUT BRO FARM** **HAZNET** **S113095751**
4358 LAVAL RD **N/A**
ARVIN, CA 93203

HAZNET:

Year:	1998
Gepaid:	CAL000180708
Contact:	RANDY TUT
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	4358 LAVAL RD
Mailing City,St,Zip:	ARVIN, CA 932030000
Gen County:	Not reported
TSD EPA ID:	CAD980673842

Map ID	Site	Database(s)	EPA ID Number

TUT BRO FARM (Continued) **S113095751**

TSD County: Not reported
Waste Category: Not reported
Disposal Method: Not reported
Tons: 5.0873
Facility County: Kern

---

110 **TEJON AGRICULTURAL PARTNERS** **HAZNET** **S112859114**
4358 LAVAL ROAD **N/A**
ARVIN, CA 93203

HAZNET:
Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 437.7144
Facility County: Kern

Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Not reported
Disposal Method: Disposal, Land Fill
Tons: 10.1136
Facility County: Kern

Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 30.3408
Facility County: Kern

Year: 1994
Gepaid: CAC001004000

Map ID	Site	Database(s)	EPA ID Number

TEJON AGRICULTURAL PARTNERS (Continued) **S112859114**

Contact:	TEJON AGRICULTURAL PARTNERS
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	P O BOX 1000
Mailing City,St,Zip:	LEBEC, CA 932430000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Not reported
Tons:	15.1704
Facility County:	Kern

---

110 **LAVAL FARM LIMITED PARTNERSHIP** **HAZNET** **S112862539**
4358 LAVAL RD **N/A**
ARVIN, CA 93203

HAZNET:

Year:	1995
Gepaid:	CAC001041848
Contact:	LAVAL FARM LIMITED PARTNERSHIP
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 1000
Mailing City,St,Zip:	LEBEC, CA 932430000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Disposal, Land Fill
Tons:	106.1928
Facility County:	Kern

---

111 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498643**
N/A

KERN (County), CA

UIC:

API Number:	02918749
Confidential Well:	N
Well Number:	785-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1084 KB
Location Desc:	Fr SE cor 660N 751W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98619
Longitude:	-118.9201

Map ID	Site	Database(s)	EPA ID Number

112 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603889**
N/A

KERN (County), CA

UIC:

API Number:	03041506
Confidential Well:	N
Well Number:	37H-32
Direction:	Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 655N 1567W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98614
Longitude:	-118.9228

---

113 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606824**
N/A

KERN (County), CA

UIC:

API Number:	03044444
Confidential Well:	N
Well Number:	54H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1080 KB
Location Desc:	fr SE cor 627'N 2231'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98611
Longitude:	-118.9250

---

114 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498634**
N/A

KERN (County), CA

UIC:

API Number:	02918740
Confidential Well:	N
Well Number:	585-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498634**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1086 KB
Location Desc:	Fr SE cor 590N 1970W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98601
Longitude:	-118.9241

---

115 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498639**
N/A

KERN (County), CA

UIC:

API Number:	02918745
Confidential Well:	N
Well Number:	685-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1086 KB
Location Desc:	Fr SE cor 580N 1300W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98600
Longitude:	-118.9219

---

116 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594689**
N/A

KERN (County), CA

UIC:

API Number:	03031717
Confidential Well:	N
Well Number:	15H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1089 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111594689**

Location Desc:	Fr SW cor 2757E 451N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98561
Longitude:	-118.9260

---

117 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498616**
N/A

KERN (County), CA

UIC:

API Number:	02918722
Confidential Well:	N
Well Number:	69-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1096 DF
Location Desc:	Fr S/4 cor 330N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98530
Longitude:	-118.9231

---

117 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S113889339**
N/A

KERN (County), CA

UIC:

API Number:	03050686
Confidential Well:	N
Well Number:	67H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1108 KB
Location Desc:	Fr SE cor 317 N & 1618 W
GIS Source Code:	noi
Comments:	Not reported
Latitude:	34.98526
Longitude:	-118.9229

Map ID	Site	Database(s)	EPA ID Number

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498621**
N/A

KERN (County), CA

UIC:

API Number:	02918727
Confidential Well:	N
Well Number:	79-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr S/4 cor 330N 1650E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98529
Longitude:	-118.9209

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598955**
N/A

KERN (County), CA

UIC:

API Number:	03036350
Confidential Well:	N
Well Number:	28H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1101 KB
Location Desc:	Fr SE cor 322N 879W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98528
Longitude:	-118.9205

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599617**
N/A

KERN (County), CA

UIC:

API Number:	03037072
Confidential Well:	N
Well Number:	25H-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111599617**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1104 KB
Location Desc:	Fr SE cor 259N 1192W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98505
Longitude:	-118.9215

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600434**
N/A

KERN (County), CA

UIC:

API Number:	03037966
Confidential Well:	N
Well Number:	30H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1115 KB
Location Desc:	Fr SW cor 4186E 176N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98504
Longitude:	-118.9213

---

119 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498611**
N/A

KERN (County), CA

UIC:

API Number:	02918717
Confidential Well:	N
Well Number:	59-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1090 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498611**

Location Desc:	Fr S/4 cor 330N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98526
Longitude:	-118.9252

---

120 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599688**
N/A

KERN (County), CA

UIC:

API Number:	03037161
Confidential Well:	N
Well Number:	29H-32
Direction:	Horizontally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1100 KB
Location Desc:	Fr SW cor 176N 441W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98487
Longitude:	-118.9190

---

121 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111576063**
N/A

KERN (County), CA

UIC:

API Number:	03011842
Confidential Well:	N
Well Number:	HRP 1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1105 KB
Location Desc:	Fr S/4 cor 135N 700E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98478
Longitude:	-118.9240

Map ID	Site	Database(s)	EPA ID Number

122 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599686**
N/A

KERN (County), CA

UIC:

API Number:	03037158
Confidential Well:	N
Well Number:	12H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1105 KB
Location Desc:	Fr SE cor 2409W 159N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98477
Longitude:	-118.9256

---

122 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111587815**
N/A

KERN (County), CA

UIC:

API Number:	03024535
Confidential Well:	N
Well Number:	8H-32
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1104 KB
Location Desc:	Fr SW cor 2292E 149N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98477
Longitude:	-118.9252

---

123 **CHMIRS** **S105886783**
N/A

5236 LAVAL RD
ARVIN, CA

CHMIRS:

OES Incident Number:	02-5551
OES notification:	10/14/2002
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported

Map ID	Site	Database(s)	EPA ID Number

(Continued) **S105886783**

Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Stockton Oil and Gas
Incident Date:	10/14/200212:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water
Quantity Released:	Not reported
BBLS:	500
Cups:	0
CUFT:	0
Gallons:	0.000000
Grams:	0

Map ID	Site	Database(s)	EPA ID Number

(Continued) **S105886783**

Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Per caller, substance was released due to pump failure.

---

125 **CHEVRON U.S.A. INC.** **UIC** **S111498681**
N/A

KERN (County), CA

UIC:

API Number:	02918787
Confidential Well:	N
Well Number:	53A-5
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1133 KB
Location Desc:	Fr N/4 cor 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98098
Longitude:	-118.9254

---

127 **CHEVRON U.S.A. INC.** **UIC** **S111498822**
N/A

KERN (County), CA

UIC:

API Number:	02918928
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon Ranch B
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1148 KB
Location Desc:	Fr NE cor 2310S 330W

Map ID	Site	Database(s)	EPA ID Number

CHEVRON U.S.A. INC. (Continued) **S111498822**

GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97813
Longitude:	-118.9185

---

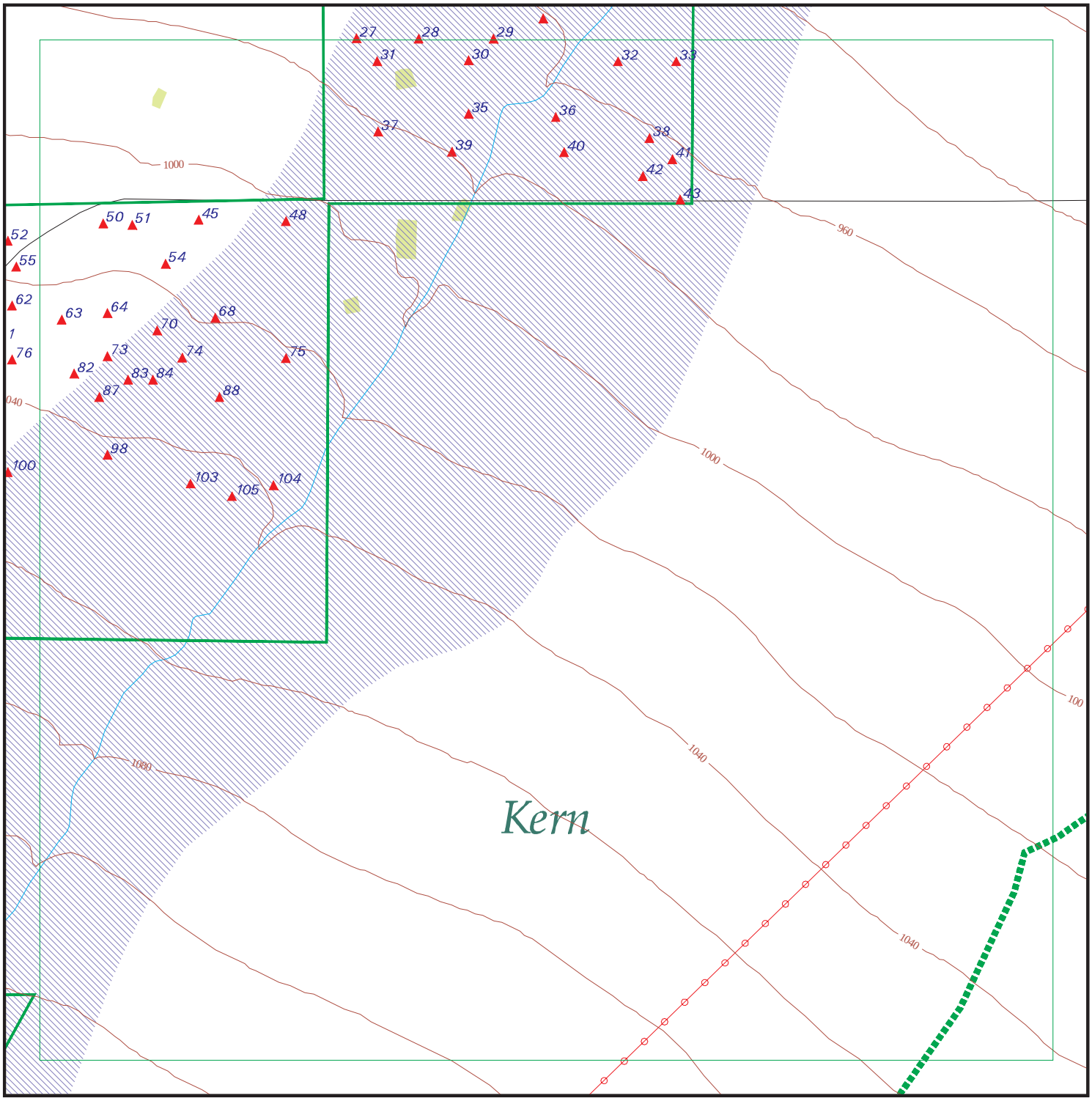
128 **THE DOW CHEMICAL COMPANY** **UIC** **S111535447**
N/A

KERN (County), CA

UIC:

API Number:	02957884
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	DDCP-Tejon Ranch NWRS
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1187 KB
Location Desc:	Fr W/4 cor 400S 1800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97616
Longitude:	-118.9293

Focus Map 11



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Map ID	Site	Database(s)	EPA ID Number

26 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498796**
N/A

KERN (County), CA

UIC:

API Number:	02918902
Confidential Well:	N
Well Number:	34-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 GL
Location Desc:	Fr W/4 cor 1155N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1155N 148
Latitude:	34.99663
Longitude:	-118.8947

---

27 **PENNANT PETROLEUM CORP.** **UIC** **S111498820**
N/A

KERN (County), CA

UIC:

API Number:	02918926
Confidential Well:	N
Well Number:	34-12
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 1155N 165E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99624
Longitude:	-118.8992

---

28 **PENNANT PETROLEUM CORP.** **UIC** **S111498819**
N/A

KERN (County), CA

UIC:

API Number:	02918925
Confidential Well:	N
Well Number:	34-10
Direction:	Unknown
Lease Name:	Schoettler

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498819**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 RT
Location Desc:	Fr NW cor 1485S 560E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8977

---

29 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498809**
N/A

KERN (County), CA

UIC:

API Number:	02918915
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Crane
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 GL
Location Desc:	Fr W/4 cor 1155N 1155E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8959

---

30 **PENNANT PETROLEUM CORP.** **UIC** **S111498815**
N/A

KERN (County), CA

UIC:

API Number:	02918921
Confidential Well:	N
Well Number:	34-6
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 GL

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498815**

Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99580
Longitude:	-118.8965

---

31 **PENNANT PETROLEUM CORP.** **UIC** **S111498814**
N/A

KERN (County), CA

UIC:

API Number:	02918920
Confidential Well:	N
Well Number:	34-5
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	976 GL
Location Desc:	Fr W/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99579
Longitude:	-118.8987

---

32 **ARCO WESTERN ENERGY** **UIC** **S111535499**
N/A

KERN (County), CA

UIC:

API Number:	02957938
Confidential Well:	N
Well Number:	43A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr ctr 870N 600W
GIS Source Code:	hud
Comments:	FR CTR COR 870N 600W
Latitude:	34.99578
Longitude:	-118.8929

Map ID	Site	Database(s)	EPA ID Number

33 **ARCO WESTERN ENERGY** **UIC** **S111530070**
N/A

KERN (County), CA

UIC:

API Number:	02951966
Confidential Well:	N
Well Number:	45A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr ctr 870N 200W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 870N 2
Latitude:	34.99578
Longitude:	-118.8915

---

35 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498810**
N/A

KERN (County), CA

UIC:

API Number:	02918916
Confidential Well:	N
Well Number:	2
Direction:	Directionally drilled
Lease Name:	Crane
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 605N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99474
Longitude:	-118.8965

---

36 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111606700**
N/A

KERN (County), CA

UIC:

API Number:	03044320
Confidential Well:	N
Well Number:	18-34
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111606700**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	fro SW cor 3743N 1600E
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99468
Longitude:	-118.8944

---

37 **PENNANT PETROLEUM CORP.** **UIC** **S111498816**
N/A

KERN (County), CA

UIC:

API Number:	02918922
Confidential Well:	N
Well Number:	34-8
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	986 GL
Location Desc:	Fr W/4 cor 330N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99448
Longitude:	-118.8987

---

37 **PENNANT PETROLEUM CORP.** **UIC** **S111540004**
N/A

KERN (County), CA

UIC:

API Number:	02962777
Confidential Well:	N
Well Number:	15
Direction:	Unknown
Lease Name:	Woodland Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	996 KB

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111540004**

Location Desc:	Fr W/4 cor 430N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99427
Longitude:	-118.8986

---

38 **PENNANT PETROLEUM CORP.** **UIC** **S111498812**
N/A

KERN (County), CA

UIC:

API Number:	02918918
Confidential Well:	N
Well Number:	34-3
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	960 GL
Location Desc:	Fr ctr 330N 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99430
Longitude:	-118.8920

---

38 **PENNANT PETROLEUM CORP.** **UIC** **S111528796**
N/A

KERN (County), CA

UIC:

API Number:	02950588
Confidential Well:	N
Well Number:	34-13
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	959 GL
Location Desc:	Fr ctr 408N 416W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99421
Longitude:	-118.8923

Map ID	Site	Database(s)	EPA ID Number

39 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498817**
N/A

KERN (County), CA

UIC:

API Number:	02918923
Confidential Well:	N
Well Number:	34-9
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 GL
Location Desc:	Fr W/4 cor 330N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99399
Longitude:	-118.8969

---

40 **PENNANT PETROLEUM CORP.** **UIC** **S111498813**
N/A

KERN (County), CA

UIC:

API Number:	02918919
Confidential Well:	N
Well Number:	34-4
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	977 KB
Location Desc:	Fr W/4 cor 330N 1650E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99398
Longitude:	-118.8942

---

41 **PENNANT PETROLEUM CORP.** **UIC** **S111498811**
N/A

KERN (County), CA

UIC:

API Number:	02918917
Confidential Well:	N
Well Number:	34-2
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498811**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	961 GL
Location Desc:	Fr ctr 162N 181W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99390
Longitude:	-118.8914

---

41 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111565841**
N/A

KERN (County), CA

UIC:

API Number:	03000853
Confidential Well:	N
Well Number:	34-44X
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	959 GL
Location Desc:	Fr ctr 247N 256W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99377
Longitude:	-118.8918

---

42 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111529379**
N/A

KERN (County), CA

UIC:

API Number:	02951222
Confidential Well:	N
Well Number:	34-14
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 GL

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111529379**

Location Desc:	Fr ctr 160N 406W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99351
Longitude:	-118.8923

---

43 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498769**
N/A

KERN (County), CA

UIC:

API Number:	02918875
Confidential Well:	N
Well Number:	45-34
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	974 KB
Location Desc:	Fr ctr 165S 165W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 165S 1
Latitude:	34.99304
Longitude:	-118.8914

---

45 **ARCO WESTERN ENERGY** **UIC** **S111498741**
N/A

KERN (County), CA

UIC:

API Number:	02918847
Confidential Well:	N
Well Number:	12-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1009 GL
Location Desc:	Fr E/4 cor 330S 990W
GIS Source Code:	hud
Comments:	FR E/4 COR 330S 990W
Latitude:	34.99264
Longitude:	-118.9030

Map ID	Site	Database(s)	EPA ID Number

48 **RESERVE OIL, INC.** **UIC** **S111498737**
N/A

KERN (County), CA

UIC:

API Number:	02918843
Confidential Well:	N
Well Number:	6-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1009 DF
Location Desc:	Fr E/4 cor 330S 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99261
Longitude:	-118.9009

---

50 **RESERVE OIL, INC.** **UIC** **S111498753**
N/A

KERN (County), CA

UIC:

API Number:	02918859
Confidential Well:	N
Well Number:	65-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1024 KB
Location Desc:	Fr ctr 330S 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99257
Longitude:	-118.9053

---

51 **ARCO WESTERN ENERGY** **UIC** **S111498742**
N/A

KERN (County), CA

UIC:

API Number:	02918848
Confidential Well:	N
Well Number:	13-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111498742**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1017 KB
Location Desc:	Fr ctr 330S 1200E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 1
Latitude:	34.99254
Longitude:	-118.9046

---

52 **ARCO WESTERN ENERGY** **UIC** **S111498734**
N/A

KERN (County), CA

UIC:

API Number:	02918840
Confidential Well:	N
Well Number:	2-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 DF
Location Desc:	Fr ctr 330S 330E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 3
Latitude:	34.99222
Longitude:	-118.9076

---

54 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498754**
N/A

KERN (County), CA

UIC:

API Number:	02918860
Confidential Well:	N
Well Number:	65-R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1018 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498754**

Location Desc:	Fr ctr 700S 1420E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 700S 1
Latitude:	34.99177
Longitude:	-118.9038

---

55 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498748**
N/A

KERN (County), CA

UIC:

API Number:	02918854
Confidential Well:	N
Well Number:	56-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1025 KB
Location Desc:	Fr ctr 615S 380E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 615S 3
Latitude:	34.99171
Longitude:	-118.9074

---

62 **RESERVE OIL, INC.** **UIC** **S111498735**
N/A

KERN (County), CA

UIC:

API Number:	02918841
Confidential Well:	N
Well Number:	3-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr ctr 960S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99094
Longitude:	-118.9075

Map ID	Site	Database(s)	EPA ID Number
63	**RESERVE OIL, INC.**	UIC	S111498756
			N/A

KERN (County), CA

UIC:

API Number:	02918862
Confidential Well:	N
Well Number:	66R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1029 KB
Location Desc:	Fr ctr 950S 620E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99085
Longitude:	-118.9063

63	**VINTAGE PRODUCTION CALIFORNIA LLC**	UIC	S111498749
			N/A

KERN (County), CA

UIC:

API Number:	02918855
Confidential Well:	N
Well Number:	57-V-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1033 KB
Location Desc:	Fr ctr 1100S 660E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1100S
Latitude:	34.99042
Longitude:	-118.9063

64	**VINTAGE PRODUCTION CALIFORNIA LLC**	UIC	S111498755
			N/A

KERN (County), CA

UIC:

API Number:	02918861
Confidential Well:	N
Well Number:	66-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498755**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1021 KB
Location Desc:	Fr ctr 1000S 990E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1000S
Latitude:	34.99079
Longitude:	-118.9052

---

68 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498760**
N/A

KERN (County), CA

UIC:

API Number:	02918866
Confidential Well:	N
Well Number:	76-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 KB
Location Desc:	Fr E/4 cor 990S 850W
GIS Source Code:	hud
Comments:	FR E/4 COR 990S 850W
Latitude:	34.99070
Longitude:	-118.9026

---

70 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498768**
N/A

KERN (County), CA

UIC:

API Number:	02918874
Confidential Well:	N
Well Number:	176-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498768**

Location Desc:	Fr ctr 1055S 1365E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1055S
Latitude:	34.99045
Longitude:	-118.9040

---

73 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112145418**
N/A

KERN (County), CA

UIC:

API Number:	03048376
Confidential Well:	N
Well Number:	66X-33
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98994
Longitude:	-118.9052

---

74 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S113889459**
N/A

KERN (County), CA

UIC:

API Number:	03050806
Confidential Well:	N
Well Number:	76X-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr SE cor 2012 N & 1077 W
GIS Source Code:	noi
Comments:	Not reported
Latitude:	34.98991
Longitude:	-118.9034

Map ID	Site	Database(s)	EPA ID Number

75 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498766**
N/A

KERN (County), CA

UIC:

API Number:	02918872
Confidential Well:	N
Well Number:	87-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1022 KB
Location Desc:	Fr E/4 cor 1300S 300W
GIS Source Code:	hud
Comments:	FR E/4 COR 1300S 300
Latitude:	34.98990
Longitude:	-118.9009

---

76 **PAULEY PETROLEUM INC.** **UIC** **S111498711**
N/A

KERN (County), CA

UIC:

API Number:	02918817
Confidential Well:	N
Well Number:	57-33
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr ctr 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98987
Longitude:	-118.9075

---

82 **RESERVE OIL, INC.** **UIC** **S111498767**
N/A

KERN (County), CA

UIC:

API Number:	02918873
Confidential Well:	N
Well Number:	157-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498767**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB
Location Desc:	Fr ctr 1430S 760E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9060

---

83 **RESERVE OIL, INC.** **UIC** **S111498757**
N/A

KERN (County), CA

UIC:

API Number:	02918863
Confidential Well:	N
Well Number:	67-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1028 GL
Location Desc:	Fr ctr 1460S 1200E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98947
Longitude:	-118.9047

---

84 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498758**
N/A

KERN (County), CA

UIC:

API Number:	02918864
Confidential Well:	N
Well Number:	67-R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498758**

Location Desc:	Fr ctr 1425S 1360E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1425S
Latitude:	34.98947
Longitude:	-118.9041

---

87 **THE PETROL CORP.** **UIC** **S111498714**
N/A

KERN (County), CA

UIC:

API Number:	02918820
Confidential Well:	N
Well Number:	33-5
Direction:	Unknown
Lease Name:	Reserve-Petrol
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 GL
Location Desc:	Fr ctr 1550S 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98913
Longitude:	-118.9054

---

88 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498761**
N/A

KERN (County), CA

UIC:

API Number:	02918867
Confidential Well:	N
Well Number:	77-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr E/4 cor 1600S 825W
GIS Source Code:	hud
Comments:	FR E/4 COR 1600S 825
Latitude:	34.98913
Longitude:	-118.9025

Map ID	Site	Database(s)	EPA ID Number
98	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111607728** **N/A**

KERN (County), CA

UIC:

API Number:	03045349
Confidential Well:	N
Well Number:	1H-33
Direction:	Horizontally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1053 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98798
Longitude:	-118.9052

Map ID	Site	Database(s)	EPA ID Number
100	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498750** **N/A**

KERN (County), CA

UIC:

API Number:	02918856
Confidential Well:	N
Well Number:	58-33
Direction:	Not Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 GL
Location Desc:	Fr ctr 1980S 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98764
Longitude:	-118.9076

Map ID	Site	Database(s)	EPA ID Number
103	**RESERVE OIL, INC.**	**UIC**	**S111498762** **N/A**

KERN (County), CA

UIC:

API Number:	02918868
Confidential Well:	N
Well Number:	78-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498762**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 990N 990W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98741
Longitude:	-118.9032

---

104 **EDWIN W. PAULEY** **UIC** **S111498710**
N/A

KERN (County), CA

UIC:

API Number:	02918816
Confidential Well:	N
Well Number:	33-9
Direction:	Unknown
Lease Name:	E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr SE cor 963N 405W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98738
Longitude:	-118.9012

---

105 **RESERVE OIL, INC.** **UIC** **S111498763**
N/A

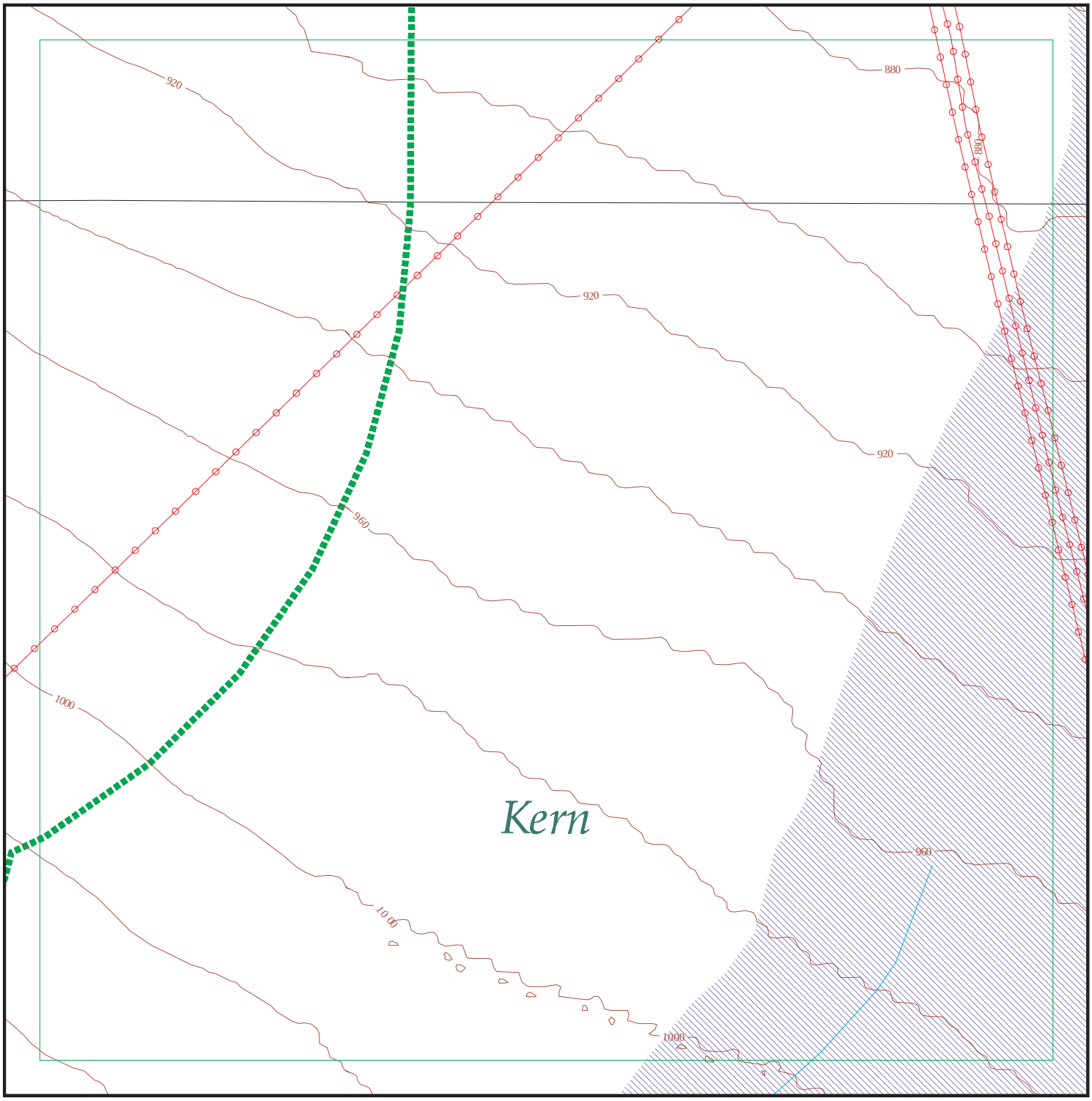
KERN (County), CA

UIC:

API Number:	02918869
Confidential Well:	N
Well Number:	78A-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 GL

Map ID	Site	Database(s)	EPA ID Number
	RESERVE OIL, INC. (Continued)		**S111498763**
	Location Desc: Fr SE cor 980N 700W		
	GIS Source Code: hud		
	Comments: Not reported		
	Latitude: 34.98716		
	Longitude: -118.9022		

Focus Map 12



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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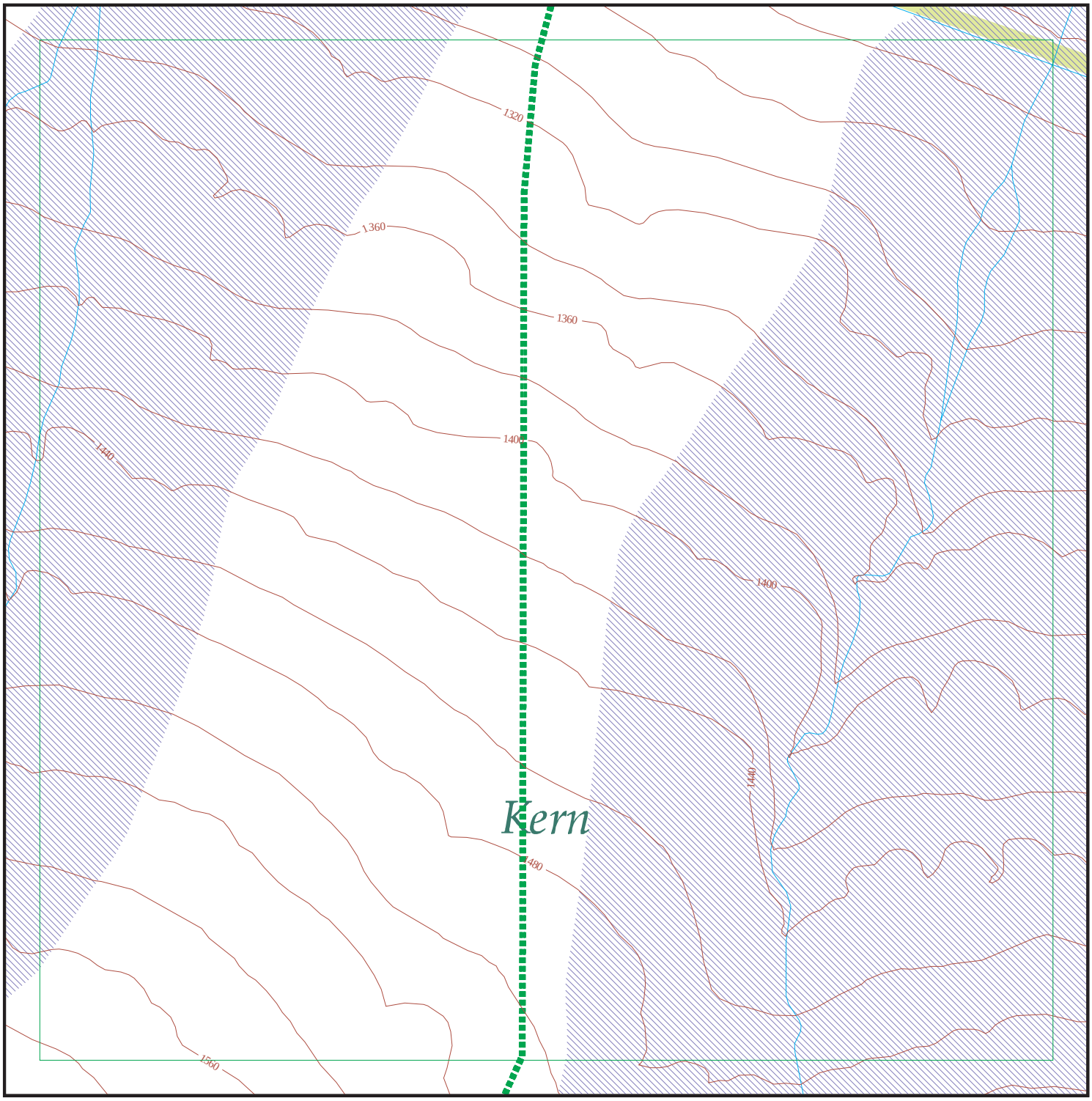
Focus Map 13



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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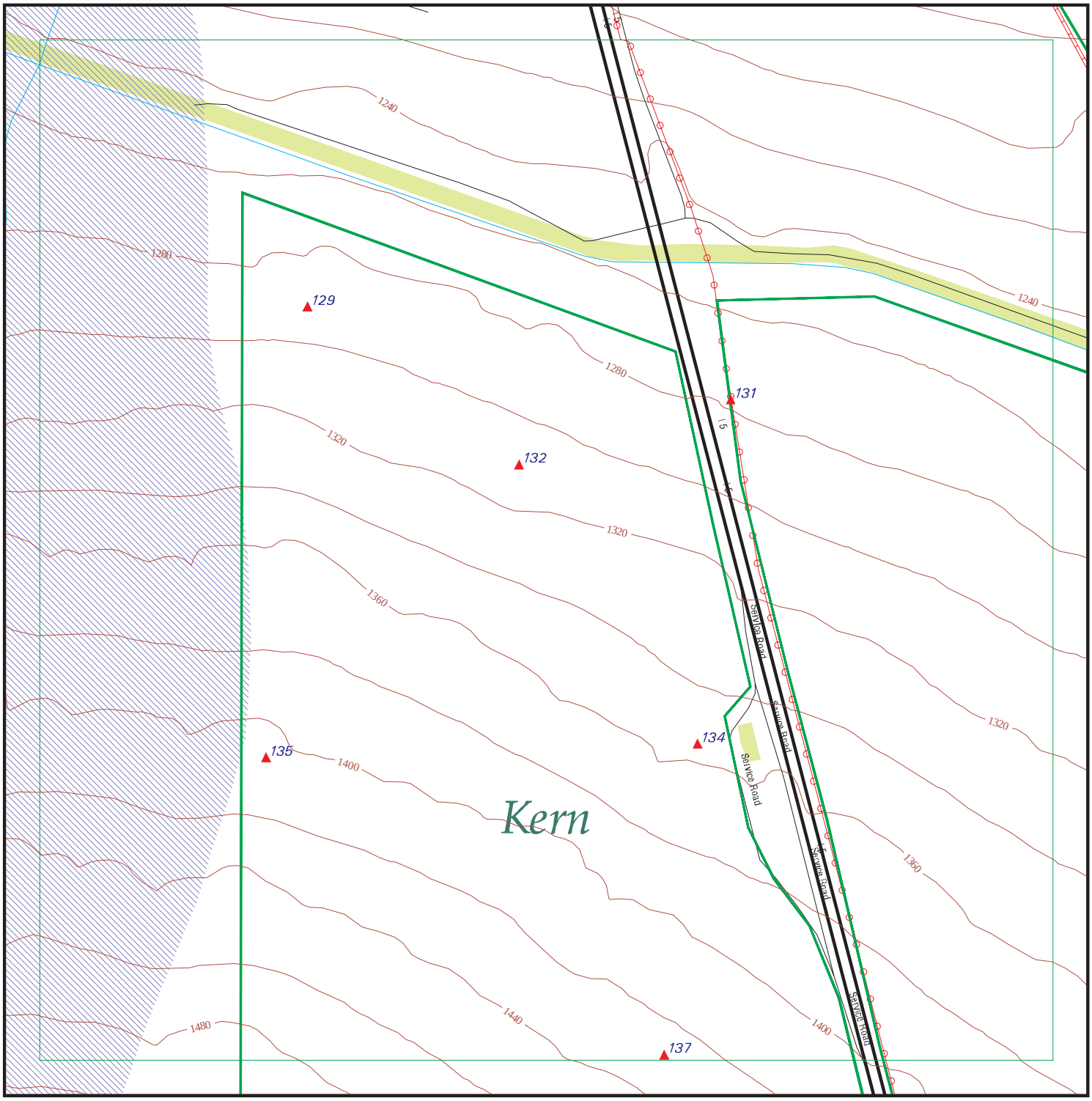
Focus Map 14



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Map ID	Site	Database(s)	EPA ID Number
129	**DRILLING & PRODUCTION CO.**	**UIC**	**S111512414** **N/A**

KERN (County), CA

UIC:

API Number:	02932538
Confidential Well:	N
Well Number:	38-6
Direction:	Not Directionally drilled
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	6
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1300 DF
Location Desc:	Fr SW cor 300N 1300E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97069
Longitude:	-118.9492

Map ID	Site	Database(s)	EPA ID Number
131	**101 OIL CO.**	**UIC**	**S111512420** **N/A**

KERN (County), CA

UIC:

API Number:	02932544
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1300 MAT
Location Desc:	Fr NE cor 400S 1000W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96885
Longitude:	-118.9390

Map ID	Site	Database(s)	EPA ID Number
132	**ARCO WESTERN ENERGY**	**UIC**	**S111512401** **N/A**

KERN (County), CA

UIC:

API Number:	02932525
Confidential Well:	N
Well Number:	9
Direction:	Unknown
Lease Name:	Tejon

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512401**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1310 MAT
Location Desc:	Fr NE cor 877S 2508W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96756
Longitude:	-118.9441

---

134 **ARCO WESTERN ENERGY** **UIC** **S111512400**
N/A

KERN (County), CA

UIC:

API Number:	02932524
Confidential Well:	N
Well Number:	4
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1357 MAT
Location Desc:	Fr SE cor 2416N 1219W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96202
Longitude:	-118.9398

---

135 **ARCO WESTERN ENERGY** **UIC** **S111512402**
N/A

KERN (County), CA

UIC:

API Number:	02932526
Confidential Well:	N
Well Number:	25-7
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1415 MAT

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512402**

Location Desc:	Fr W/4 cor 339S 989E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96175
Longitude:	-118.9502

---

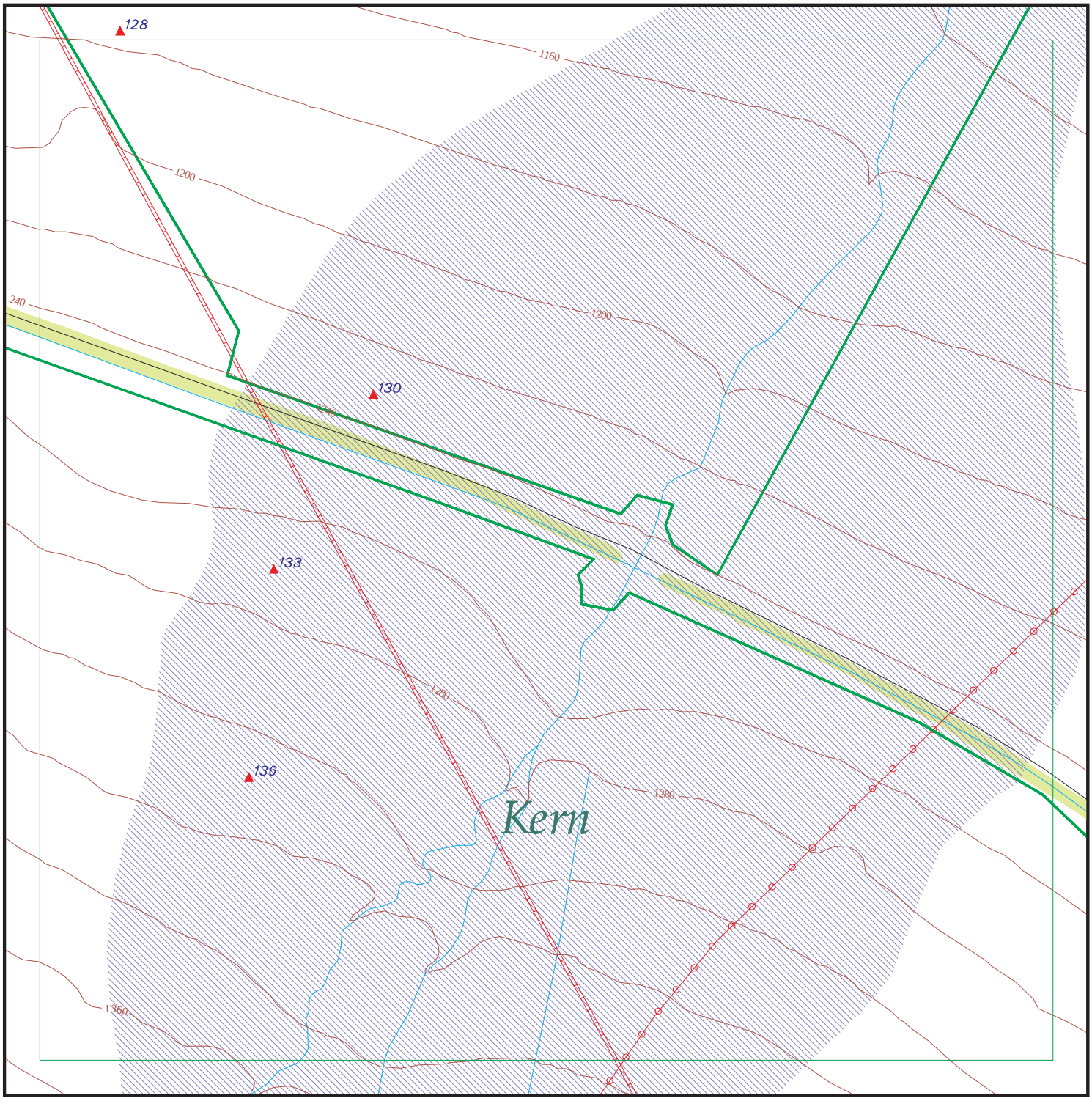
137 **ARCO WESTERN ENERGY** **UIC** **S111512399**
N/A

KERN (County), CA

UIC:

API Number:	02932523
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1429 MAT
Location Desc:	Fr SE cor 144N 1431W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95586
Longitude:	-118.9406

Focus Map 15



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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N

0 1/8 1/4

Scale in Miles

Map ID	Site	Database(s)	EPA ID Number

128 **THE DOW CHEMICAL COMPANY** **UIC** **S111535447**
N/A

KERN (County), CA

UIC:

API Number:	02957884
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	DDCP-Tejon Ranch NWRS
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1187 KB
Location Desc:	Fr W/4 cor 400S 1800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97616
Longitude:	-118.9293

---

130 **ARCO WESTERN ENERGY** **UIC** **S111512407**
N/A

KERN (County), CA

UIC:

API Number:	02932531
Confidential Well:	N
Well Number:	61-8
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1239 KB
Location Desc:	Fr NE cor 342S 1650W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96895
Longitude:	-118.9232

---

133 **ARCO WESTERN ENERGY** **UIC** **S111512406**
N/A

KERN (County), CA

UIC:

API Number:	02932530
Confidential Well:	N
Well Number:	53-8
Direction:	Unknown
Lease Name:	Tejon A

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512406**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1271 KB
Location Desc:	Fr NE cor 1607S 2340W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96549
Longitude:	-118.9256

---

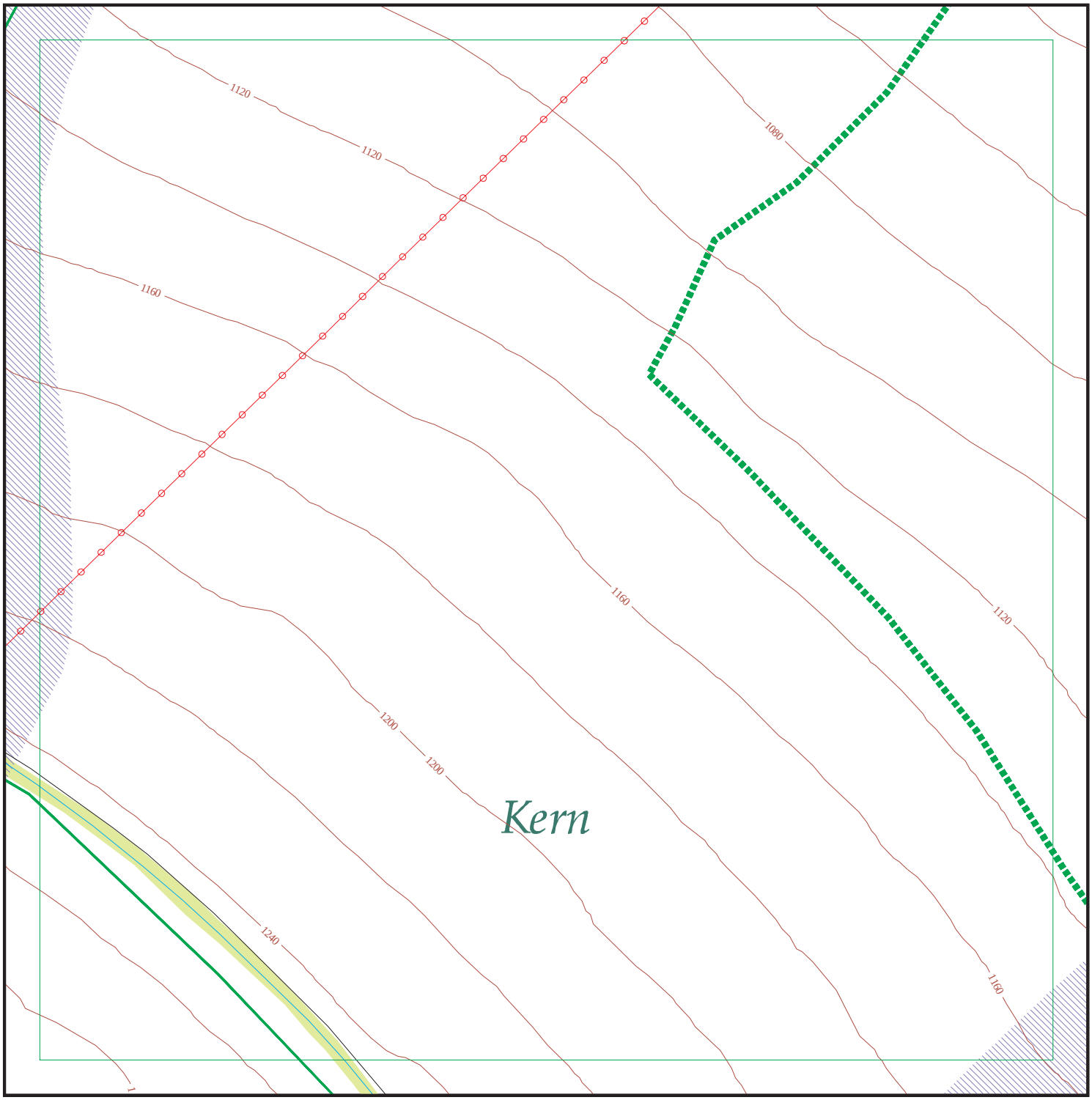
136 **ARCO WESTERN ENERGY** **UIC** **S111512405**
N/A

KERN (County), CA

UIC:

API Number:	02932529
Confidential Well:	N
Well Number:	13
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1304 MAT
Location Desc:	Fr SW cor 2191N 2820E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96136
Longitude:	-118.9262

Focus Map 16



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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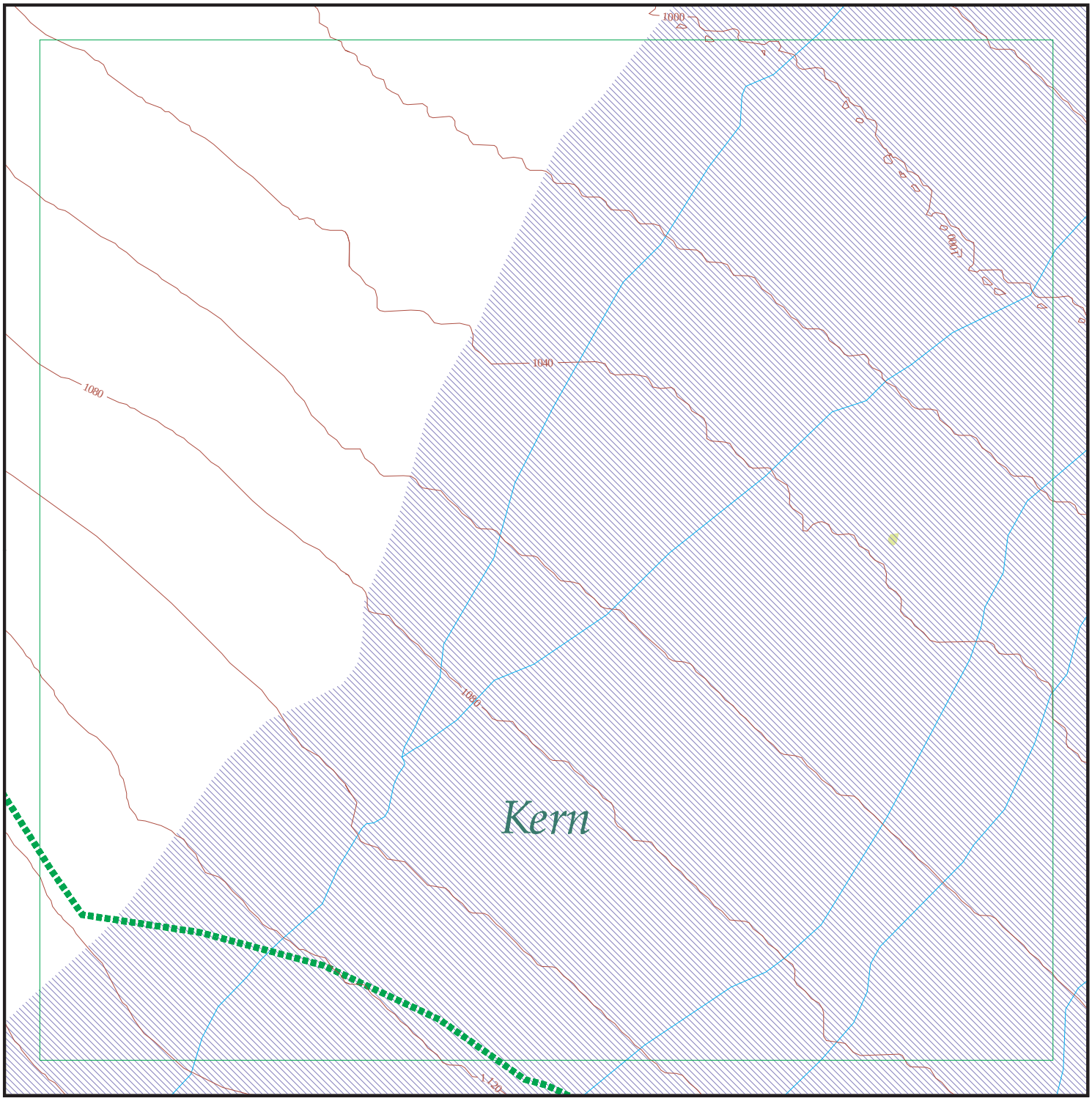
Focus Map 17



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

Roads	Waterways	Powerlines	Water	Listed Sites
Major Roads	Railroads	Pipelines	Superfund Sites	Sensitive Receptors
Contour Lines	Study Boundary	Fault Lines	Federal DOD Sites	
National Wetlands Inventory	100-Yr Flood Zones	Indian Reservations BIA		

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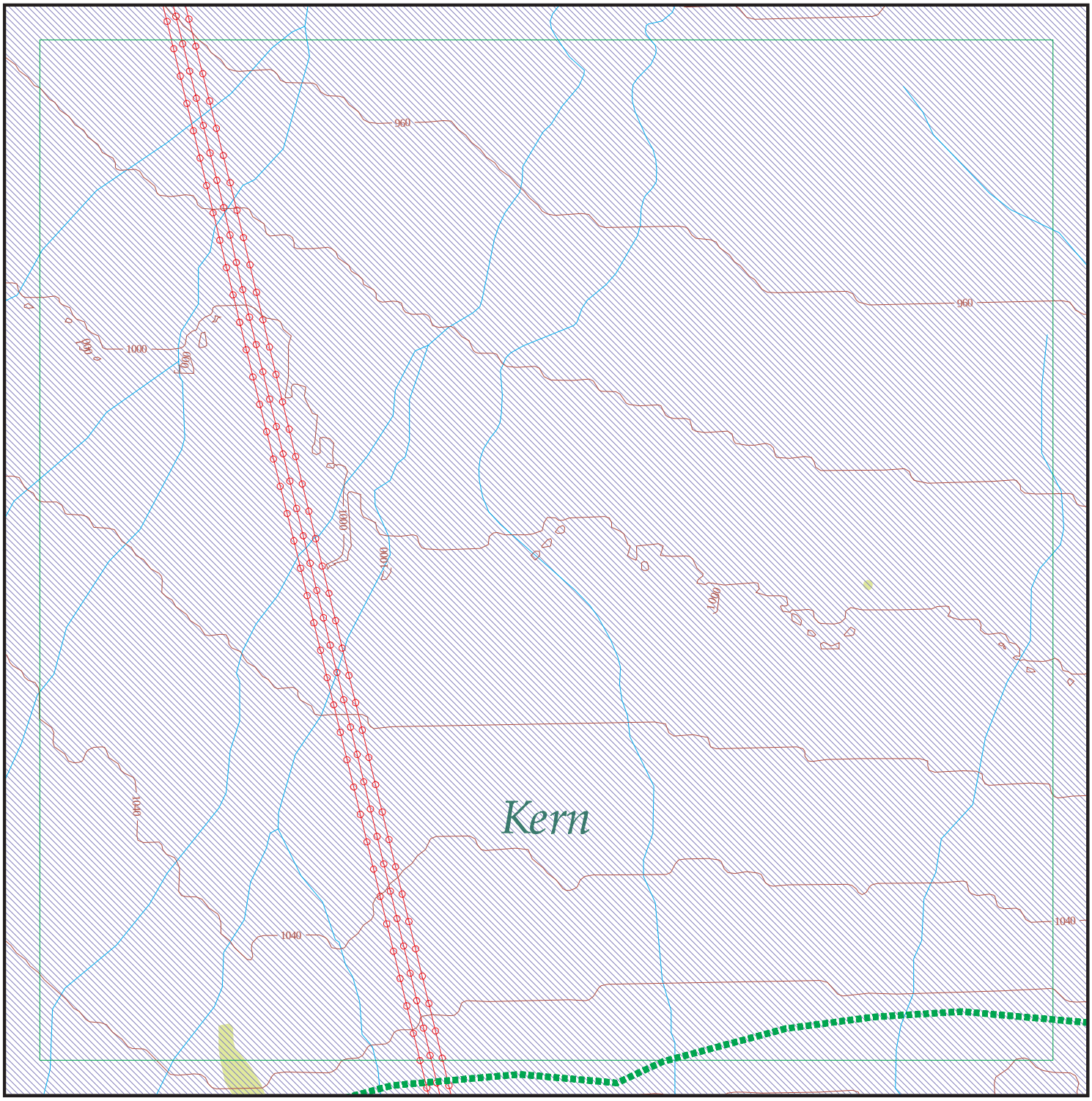
N

0 1/8 1/4

Scale in Miles

Focus Map 18



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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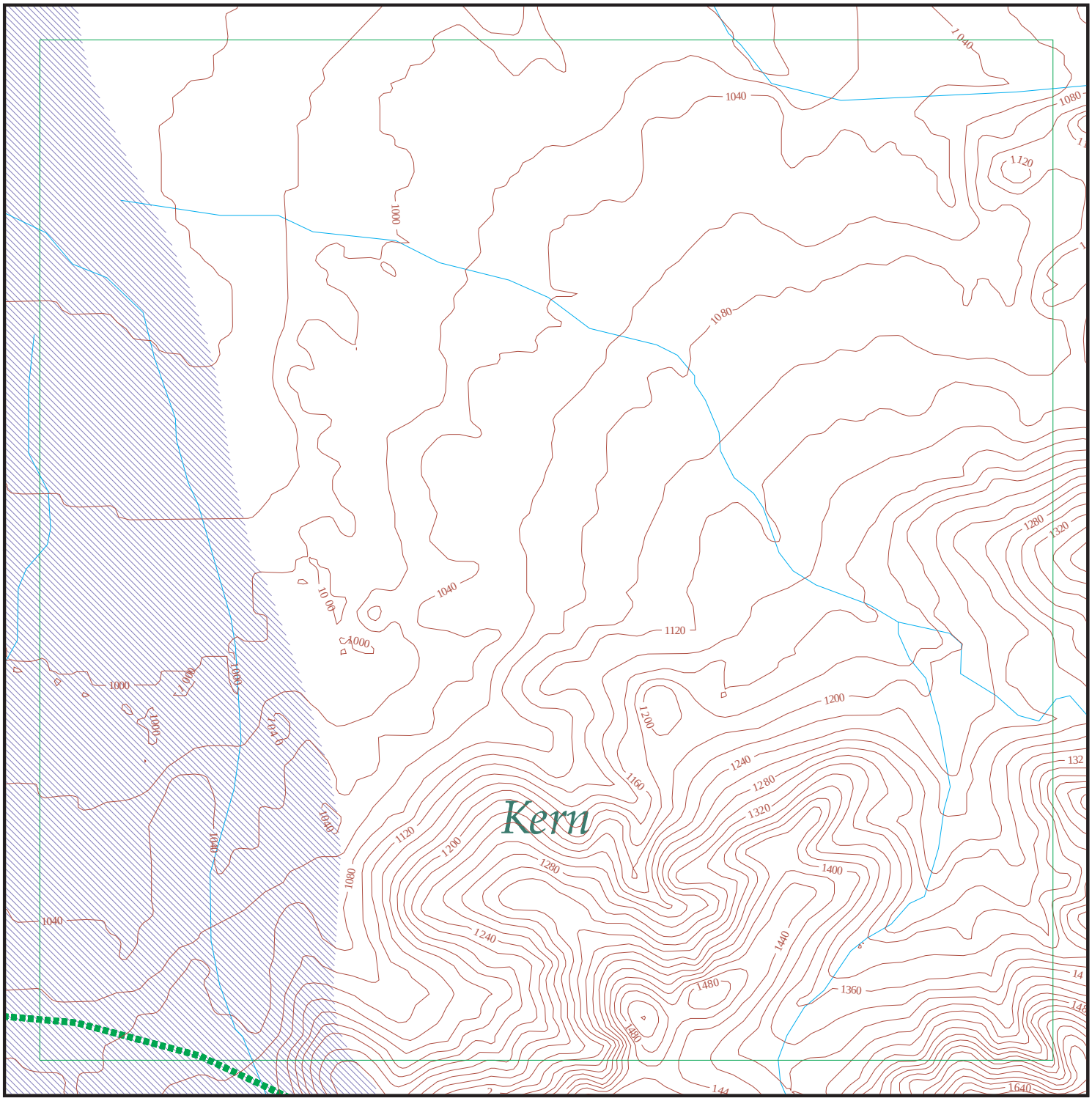
Focus Map 19



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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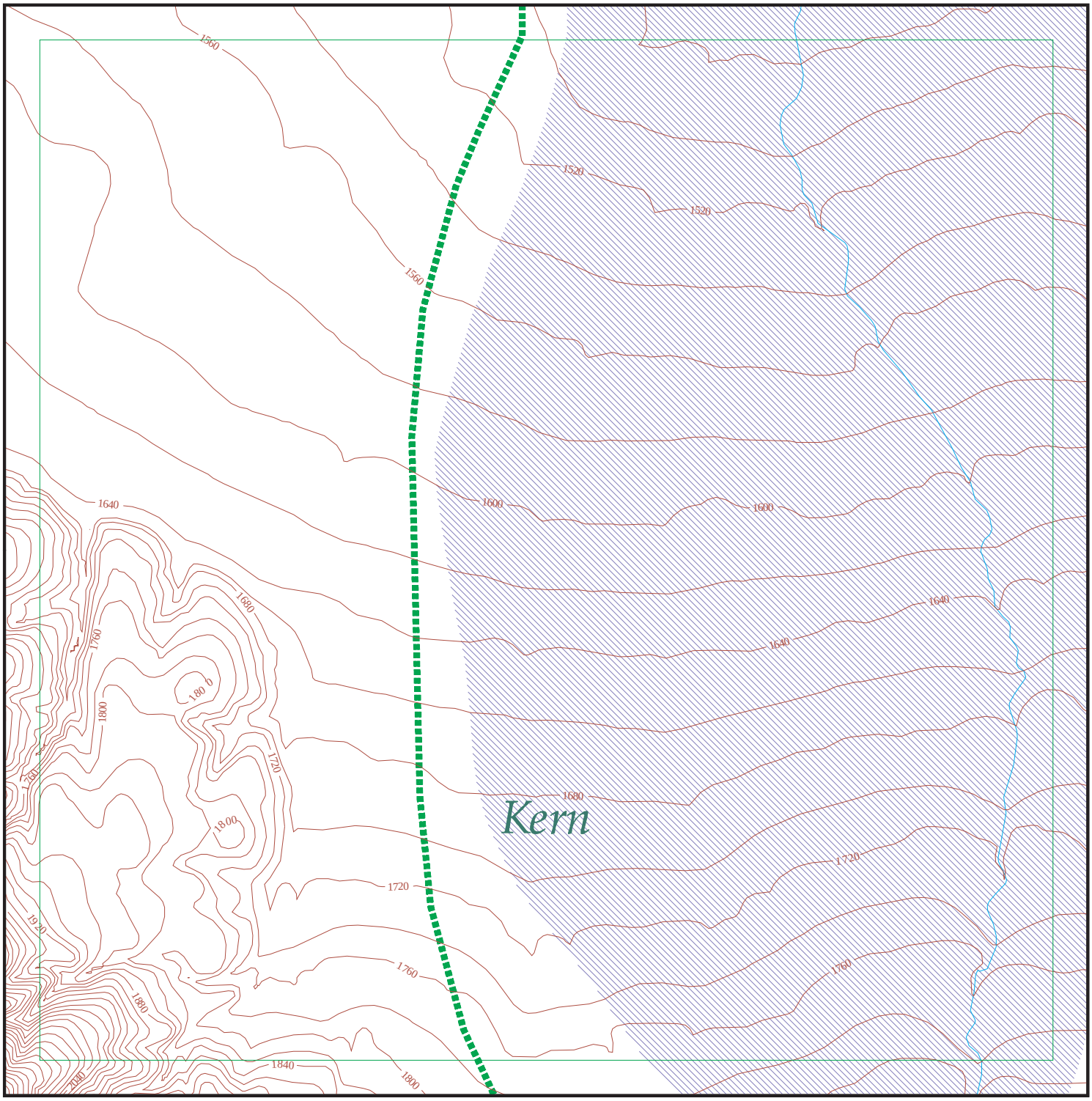
Focus Map 20



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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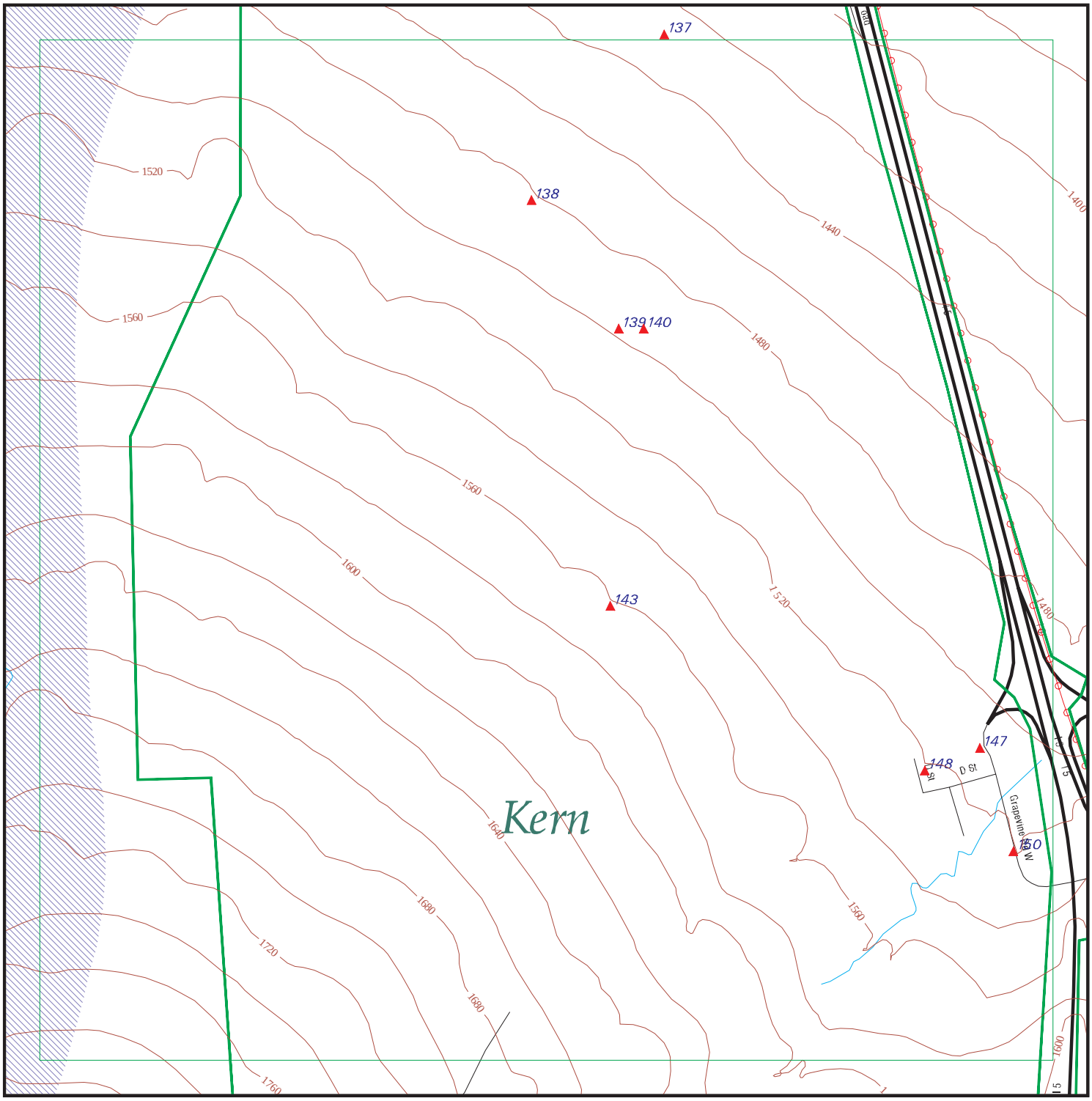
Focus Map 21



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Map ID	Site	Database(s)	EPA ID Number

137 **ARCO WESTERN ENERGY** **UIC** **S111512399**
N/A

KERN (County), CA

UIC:

API Number:	02932523
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1429 MAT
Location Desc:	Fr SE cor 144N 1431W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95586
Longitude:	-118.9406

---

138 **PHILLIPS PETROLEUM COMPANY** **UIC** **S111512423**
N/A

KERN (County), CA

UIC:

API Number:	02932547
Confidential Well:	N
Well Number:	52
Direction:	Unknown
Lease Name:	Richfield-Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1482 KB
Location Desc:	Fr NE cor 990S 2310W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95257
Longitude:	-118.9438

---

139 **ARCO WESTERN ENERGY** **UIC** **S111512413**
N/A

KERN (County), CA

UIC:

API Number:	02932537
Confidential Well:	N
Well Number:	8-A
Direction:	Unknown
Lease Name:	Tejon

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512413**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1492 MAT
Location Desc:	Fr NE cor 1898S 1630W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95002
Longitude:	-118.9417

---

140 **ARCO WESTERN ENERGY** **UIC** **S111512412**
N/A

KERN (County), CA

UIC:

API Number:	02932536
Confidential Well:	N
Well Number:	8
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1490 MAT
Location Desc:	Fr NE cor 1848S 1625W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95002
Longitude:	-118.9411

---

143 **ARCO WESTERN ENERGY** **UIC** **S111512411**
N/A

KERN (County), CA

UIC:

API Number:	02932535
Confidential Well:	N
Well Number:	2
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1557 MAT

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512411**

Location Desc: Fr NE cor 3838S 1825W
GIS Source Code: unk
Comments: Not reported
Latitude: 34.94452
Longitude: -118.9419

---

147 **GRAPEVINE TEXACO** **UST** **U003981590**
9069 W GRAPEVINE RD **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0002317
Latitude: 34.94098
Longitude: -118.93263
Permitting Agency KERN COUNTY

---

147 **ERNS** **92256076**
9068 W. GRAPEVINE RD **N/A**
LABEC, CA

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

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147 **UNOCAL** **SWEEPS UST** **S106933462**
9068 W GRAPEVINE RD **N/A**
LEBEC, CA 93243

SWEEPS UST:
Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: PRM UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

Map ID	Site	Database(s)	EPA ID Number

UNOCAL (Continued) **S106933462**

Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

---

147 **GRAPEVINE SHELL - SHELL OIL PRODUCTS** **EMI** **S107621065**
9069 GRAPEVINE RD **N/A**
LEBEC, CA

EMI:
Year: 2004
County Code: 15
Air Basin: SJV
Facility ID: 1261
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL - SHELL OIL PRODUCTS (Continued) **S107621065**

Total Organic Hydrocarbon Gases Tons/Yr:	0.91725799
Reactive Organic Gases Tons/Yr:	0.91269181
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9172579899436864403
Reactive Organic Gases Tons/Yr:	.91269181
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

147 **EQUILON ENTERPRISES LLC** **EMI** **S106248425**
9069 GRAPEVINE ROAD **N/A**
LEBEC, CA 93203

EMI:

Year:	2002
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1

Map ID	Site	Database(s)	EPA ID Number

EQUILON ENTERPRISES LLC (Continued) **S106248425**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

147 **UNOCAL #4734** **HIST CORTESE** **S102439989**
9068 GRAPEVINE RD W **LUST** **N/A**
LEBEC, CA 93243

HIST CORTESE:

Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	5T15000477

LUST:

Region:	STATE
Global Id:	T0602900464
Latitude:	34.9411276
Longitude:	-118.9327342
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/10/1993
Lead Agency:	KERN COUNTY
Case Worker:	BLA
Local Agency:	KERN COUNTY
RB Case Number:	5T15000477
LOC Case Number:	330097
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0602900464
Contact Type:	Regional Board Caseworker
Contact Name:	JOHN WHITING
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5F)
Address:	1685 E STREET
City:	FRESNO
Email:	jwhiting@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0602900464
Contact Type:	Local Agency Caseworker
Contact Name:	X -BLAIR REDFEARN
Organization Name:	KERN COUNTY
Address:	TO BE CONFIRMED
City:	TO BE CONFIRMED
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0602900464

Map ID	Site	Database(s)	EPA ID Number

UNOCAL #4734 (Continued) **S102439989**

Status: Open - Case Begin Date
Status Date: 01/06/1992

Global Id: T0602900464
Status: Completed - Case Closed
Status Date: 03/10/1993

Regulatory Activities:
Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 03/10/1993
Action: Technical Correspondence / Assistance / Other

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 01/08/1992
Action: Unauthorized Release Form

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 03/10/1993
Action: Closure/No Further Action Letter

Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 5:
Region: 5
Status: Case Closed
Case Number: 5T15000477
Case Type: Soil only
Substance: UNLEAD GASOLINE
Staff Initials: JDW
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Map ID	Site	Database(s)	EPA ID Number
147	**UNOCAL #4734** **9068 GRAPEVINE RD W** **LEBEC, CA**	**RGA LUST**	**S114711238** **N/A**

RGA LUST:

2012	UNOCAL #4734	9068 GRAPEVINE RD W
2011	UNOCAL #4734	9068 GRAPEVINE RD W
2010	UNOCAL #4734	9068 GRAPEVINE RD W
2009	UNOCAL #4734	9068 GRAPEVINE RD W
2008	UNOCAL #4734	9068 GRAPEVINE RD W
2007	UNOCAL #4734	9068 GRAPEVINE RD W
2006	UNOCAL #4734	9068 GRAPEVINE RD W
2005	UNOCAL #4734	9068 GRAPEVINE RD W
2003	UNOCAL #4734	9068 GRAPEVINE RD W
2002	UNOCAL #4734	9068 GRAPEVINE RD W
2001	UNOCAL #4734	9068 GRAPEVINE RD W
2000	UNOCAL #4734	9068 GRAPEVINE RD W
1998	UNOCAL #4734	9068 GRAPEVINE RD W
1997	UNOCAL #4734	9068 GRAPEVINE RD W
1996	UNOCAL #4734	9068 GRAPEVINE RD W
1995	UNOCAL #4734	9068 GRAPEVINE RD W
1994	UNOCAL #4734	9068 GRAPEVINE RD W
1993	UNOCAL #4734	9068 GRAPEVINE RD W

147	**LEBEC SHELL** **9069 GRAPEVINE RD WEST** **LEBEC, CA 93243**	**UST**	**U004120274** **N/A**

147	**TEXACO #610580050** **9069 GRAPEVINE W** **LEBEC, CA 93243**	**LUST**	**S114458578** **N/A**

LUST:

Region:	STATE
Global Id:	T10000005403
Latitude:	0
Longitude:	0
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/03/1992
Lead Agency:	KERN COUNTY
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T10000005403
Status:	Open - Case Begin Date
Status Date:	06/01/1991

Map ID	Site	Database(s)	EPA ID Number

TEXACO #610580050 (Continued) **S114458578**

Regulatory Activities:
Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

---

147 **EDR US Hist Auto Stat** **1015670240**
9069 GRAPEVINE RD W **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: GRAPEVINE TEXACO
Year: 2003
Address: 9069 GRAPEVINE RD W

Name: GRAPEVINE TEXACO
Year: 2004
Address: 9069 GRAPEVINE RD W

Name: GRAPEVINE TEXACO
Year: 2005
Address: 9069 GRAPEVINE RD W

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147 **EDR US Hist Auto Stat** **1015670239**
9069 GRAPEVINE RD W **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: GRAPEVINE TEXACO
Year: 1999
Address: 9069 GRAPEVINE RD W

---

148 **CONOCOPHILLIPS COMPANY - 257580** **FINDS** **1008237524**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA

FINDS:

Registry ID: 110055893993

Environmental Interest/Information System
Registry ID: 110021302641

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **1008237524**

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

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148 **CONOCO PHILLIPS # 257580** **HAZNET** **S113129413**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.042
Facility County:	Kern

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.924
Facility County:	Kern

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.075

Map ID	Site	Database(s)	EPA ID Number

CONOCO PHILLIPS # 257580 (Continued) **S113129413**

Facility County: Kern

Year: 2006
Gepaid: CAL000276973
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD-MO 1001
Mailing City,St,Zip: HOUSTON, TX 77079
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.37
Facility County: Kern

Year: 2004
Gepaid: CAL000276973
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD-MO 1001
Mailing City,St,Zip: HOUSTON, TX 77079
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Recycler
Tons: 0.05
Facility County: Kern

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

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148 **UNOCAL SERVICE STATION #7580** **HAZNET** **S113077281**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:

Year: 1995
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: .7339
Facility County: Kern

Year: 1995
Gepaid: CAL000141229

Map ID	Site	Database(s)	EPA ID Number

UNOCAL SERVICE STATION #7580 (Continued) **S113077281**

Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 9.6951
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 7.3599
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Recycler
Tons: 5.8296
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Recycler
Tons: 4.1741
Facility County: Kern

Map ID	Site	Database(s)	EPA ID Number
	UNOCAL SERVICE STATION #7580 (Continued)		**S113077281**

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

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148 **CONOCOPHILLIPS COMPANY - 257580** **EMI** **S103991762**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

EMI:

Year:	2002
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.717246471
Reactive Organic Gases Tons/Yr:	0.670130325
Carbon Monoxide Emissions Tons/Yr:	0.159505089
NOX - Oxides of Nitrogen Tons/Yr:	0.171869825
SOX - Oxides of Sulphur Tons/Yr:	0.000432766
Particulate Matter Tons/Yr:	0.008831954
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.006182368

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **S103991762**

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4467347457285940551
Reactive Organic Gases Tons/Yr:	.4443718027038581
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4248661780465818512
Reactive Organic Gases Tons/Yr:	.4226189058532716
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2007
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3393265314868015094
Reactive Organic Gases Tons/Yr:	.33753170968627895
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2008
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **S103991762**

Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2431124399628549927
Reactive Organic Gases Tons/Yr:	.24179238757324274
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2009
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.239141136137037
Reactive Organic Gases Tons/Yr:	0.23784264714050299
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2010
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.23919325985620701
Reactive Organic Gases Tons/Yr:	0.237894578
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

148 **EDR US Hist Auto Stat** **1015669940**

9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:

Name:	GAS AMERICA CORP
Year:	2004
Address:	9058 MOUNTAIN BASE RD

Name:	GAS AMERICA CORP
Year:	2005
Address:	9058 MOUNTAIN BASE RD

Map ID	Site	Database(s)	EPA ID Number
	(Continued)		**1015669940**

Name: GAS AMERICA CORP
Year: 2009
Address: 9058 MOUNTAIN BASE RD

---

148 **TOSCO CORP 31383** **HAZNET** **S113060412**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:
Year: 2002
Gepaid: CAL000102547
Contact: HAZMAT SPECIALIST
Telephone: 6027284180
Mailing Name: Not reported
Mailing Address: PO BOX 52085
Mailing City,St,Zip: PHOENIX, AZ 850722085
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.85
Facility County: Kern

Year: 1998
Gepaid: CAL000102547
Contact: TOSCO MARKETING
Telephone: 6027284180
Mailing Name: Not reported
Mailing Address: P O BOX 52085
Mailing City,St,Zip: PHOENIX, AZ 850722085
Gen County: Not reported
TSD EPA ID: CAD982446882
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: .2293
Facility County: Kern

---

148 **GAS AMERICA CORP #7580** **UST** **U004113731**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0000091
Latitude: 34.87405
Longitude: -118.88797
Permitting AgencyKERN COUNTY

KERN CO. UST:
Region: Kern
Owner Id: 330177
Owner Name: CONOCO-PHILLIPS COMPANY

Tank Num: 1
Tank Capacity: 15000

Map ID	Site	Database(s)	EPA ID Number

GAS AMERICA CORP #7580 (Continued) **U004113731**

Common Name: UNLEADED

Tank Num: 2
Tank Capacity: 15000
Common Name: PREMIUM

---

150 **TEJON MOBIL** **FINDS** **1011992552**
9012 GRAPEVINE RD **N/A**
LEBEC, CA

FINDS:

Registry ID: 110038053664

Environmental Interest/Information System
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

---

150 **TEJON MOBIL** **EMI** **S108433423**
9012 GRAPEVINE RD **N/A**
LEBEC, CA 94556

EMI:

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6940518514100721642
Reactive Organic Gases Tons/Yr:	.690380758
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7518647255347270094
Reactive Organic Gases Tons/Yr:	.7478878387451182

Map ID	Site	Database(s)	EPA ID Number

TEJON MOBIL (Continued) **S108433423**

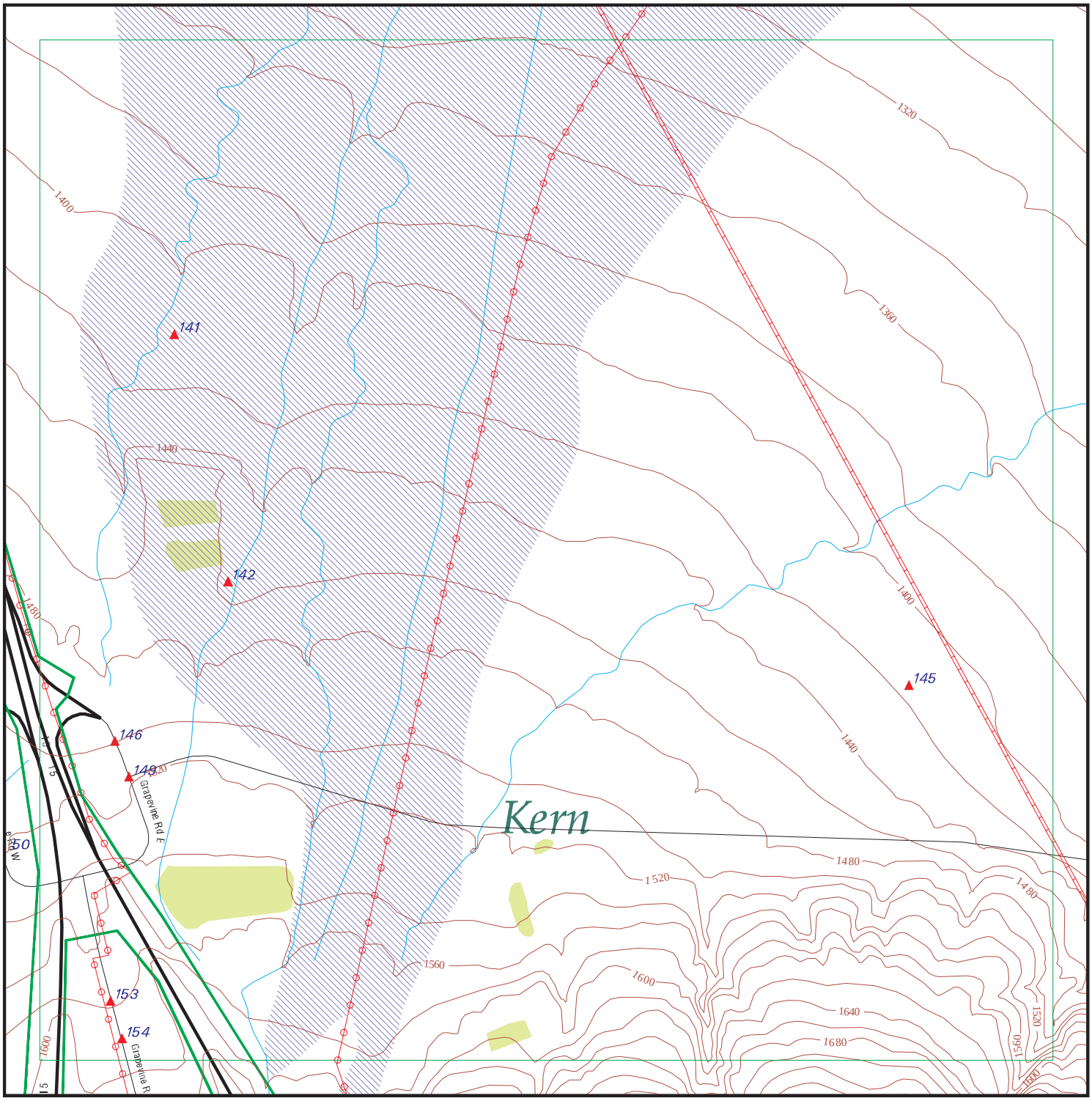
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2007
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6992593901180737028
Reactive Organic Gases Tons/Yr:	.695560752136231
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2008
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4872448996625091006
Reactive Organic Gases Tons/Yr:	.4845992563781747
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2009
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.45667866832501802
Reactive Organic Gases Tons/Yr:	0.45419899362182498
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Map ID	Site	Database(s)	EPA ID Number

TEJON MOBIL (Continued) **S108433423**

Year:	2010
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.54107506248117998
Reactive Organic Gases Tons/Yr:	0.53813711399999997
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Focus Map 22



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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Scale in Miles

Map ID	Site	Database(s)	EPA ID Number

141 **ARCO WESTERN ENERGY** **UIC** **S111512410**
N/A

KERN (County), CA

UIC:

API Number:	02932534
Confidential Well:	N
Well Number:	12
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	17
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1408 MAT
Location Desc:	Fr NW cor 1872S 2347E
GIS Source Code:	unk
Comments:	Not reported
Latitude:	34.94991
Longitude:	-118.9280

---

142 **L. M. HAMPTON** **UIC** **S111520916**
N/A

KERN (County), CA

UIC:

API Number:	02942426
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	17
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1471 KB
Location Desc:	Fr NE cor 3682S 2381W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.94501
Longitude:	-118.9267

---

145 **A. M. VAN FLICK** **UIC** **S111512424**
N/A

KERN (County), CA

UIC:

API Number:	02932548
Confidential Well:	N
Well Number:	47
Direction:	Unknown
Lease Name:	Tejon-Richfield

Map ID	Site	Database(s)	EPA ID Number

A. M. VAN FLICK (Continued) **S111512424**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	16
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1405 KB
Location Desc:	Fr S/4 cor 990N 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.94295
Longitude:	-118.9103

---

146 **GRAPEVINE SHELL** **RGA LUST** **S114628606**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA

RGA LUST:

2012	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2011	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2010	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2009	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2008	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2007	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2006	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2005	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2003	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST

---

146 **GRAPEVINE SHELL** **LUST** **S105557351**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

LUST:

Region:	STATE
Global Id:	T0602910149
Latitude:	34.9391026
Longitude:	-118.9302397
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/11/2009
Lead Agency:	KERN COUNTY
Case Worker:	LAU
Local Agency:	KERN COUNTY
RB Case Number:	5T15000919
LOC Case Number:	600012
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0602910149
Contact Type:	Local Agency Caseworker
Contact Name:	LAUREL FUNK

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL (Continued) **S105557351**

Organization Name: KERN COUNTY
Address: 2700 M STREET, SUITE 300
City: BAKERSFIELD
Email: laurelf@co.kern.ca.us
Phone Number: 6618628763

Global Id: T0602910149
Contact Type: Regional Board Caseworker
Contact Name: JOHN WHITING
Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)
Address: 1685 E STREET
City: FRESNO
Email: jwhiting@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0602910149
Status: Open - Case Begin Date
Status Date: 09/15/1998

Global Id: T0602910149
Status: Open - Site Assessment
Status Date: 04/21/1999

Global Id: T0602910149
Status: Completed - Case Closed
Status Date: 11/11/2009

Regulatory Activities:
Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0602910149
Action Type: ENFORCEMENT
Date: 09/23/2009
Action: LOP Case Closure Summary to RB

Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0602910149
Action Type: ENFORCEMENT
Date: 09/23/2009
Action: Staff Letter

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL (Continued) **S105557351**

LUST REG 5:
Region: 5
Status: Preliminary site assessment underway
Case Number: Not reported
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JDW
Lead Agency: Local
Program: LUST
MTBE Code: N/A

---

146 **TEJON RANCHCORP** **HAZNET** **S112896907**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

HAZNET:
Year: 1998
Gepaid: CAC002100096
Contact: TEJON RANCHCORP
Telephone: 8053278481
Mailing Name: Not reported
Mailing Address: PO BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAL000027741
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 1.6856
Facility County: Kern

---

146 **SHELL STATION** **UST** **U004113463**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

KERN CO. UST:
Region: Kern
Owner Id: 600012
Owner Name: SHELL OIL/ATTN HS&E ADMIN SUPPORT

Tank Num: 1
Tank Capacity: 0
Common Name: Not reported

---

149 **EDR US Hist Auto Stat** **1015668190**
9012 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: TEJON MOBIL
Year: 2005
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL

Map ID	Site	Database(s)	EPA ID Number

(Continued) **1015668190**

Year: 2006
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2007
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2008
Address: 9012 GRAPEVINE RD E

Name: TEJON RANCH MOBIL
Year: 2009
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2010
Address: 9012 GRAPEVINE RD E

---

149 **CHASE INC MOBIL** **UST** **U004113912**
9012 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0003962
Latitude: 34.9409922825126
Longitude: -118.928630321426
Permitting Agency: KERN COUNTY

---

149 **TJON RANCH COMPANY** **HAZNET** **S112943329**
9021 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

HAZNET:
Year: 2005
Gepaid: CAC002586846
Contact: PABLO GONZALEZ
Telephone: 6616634203
Mailing Name: Not reported
Mailing Address: PO BOX 1000
Mailing City,St,Zip: LEBEC, CA 93243
Gen County: Not reported
TSD EPA ID: CAL000190080
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.84
Facility County: Kern

Map ID	Site	Database(s)	EPA ID Number
153	**CHEVRON #8616** **8977 GRAPEVINE RD** **LEBEC, CA 93243**	**SWEEPS UST**	**S106924300** **N/A**

SWEEPS UST:

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000001
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	PRM UNLEADED
Number Of Tanks:	4

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	MID GRADE UN
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	600015
Number:	Not reported

Map ID	Site	Database(s)	EPA ID Number

CHEVRON #8616 (Continued) **S106924300**

Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000004
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

---

153 **CHEVRON** **HAZNET** **S113032908**
8977 GRAPEVINE ST **N/A**
LEBEC, CA 93243

HAZNET:

Year:	1993
Gepaid:	CAL000029864
Contact:	CHERVON PRODUCTS CO
Telephone:	5108425931
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Not reported
TSD EPA ID:	CAD980883177
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	4.16999999999
Facility County:	Kern

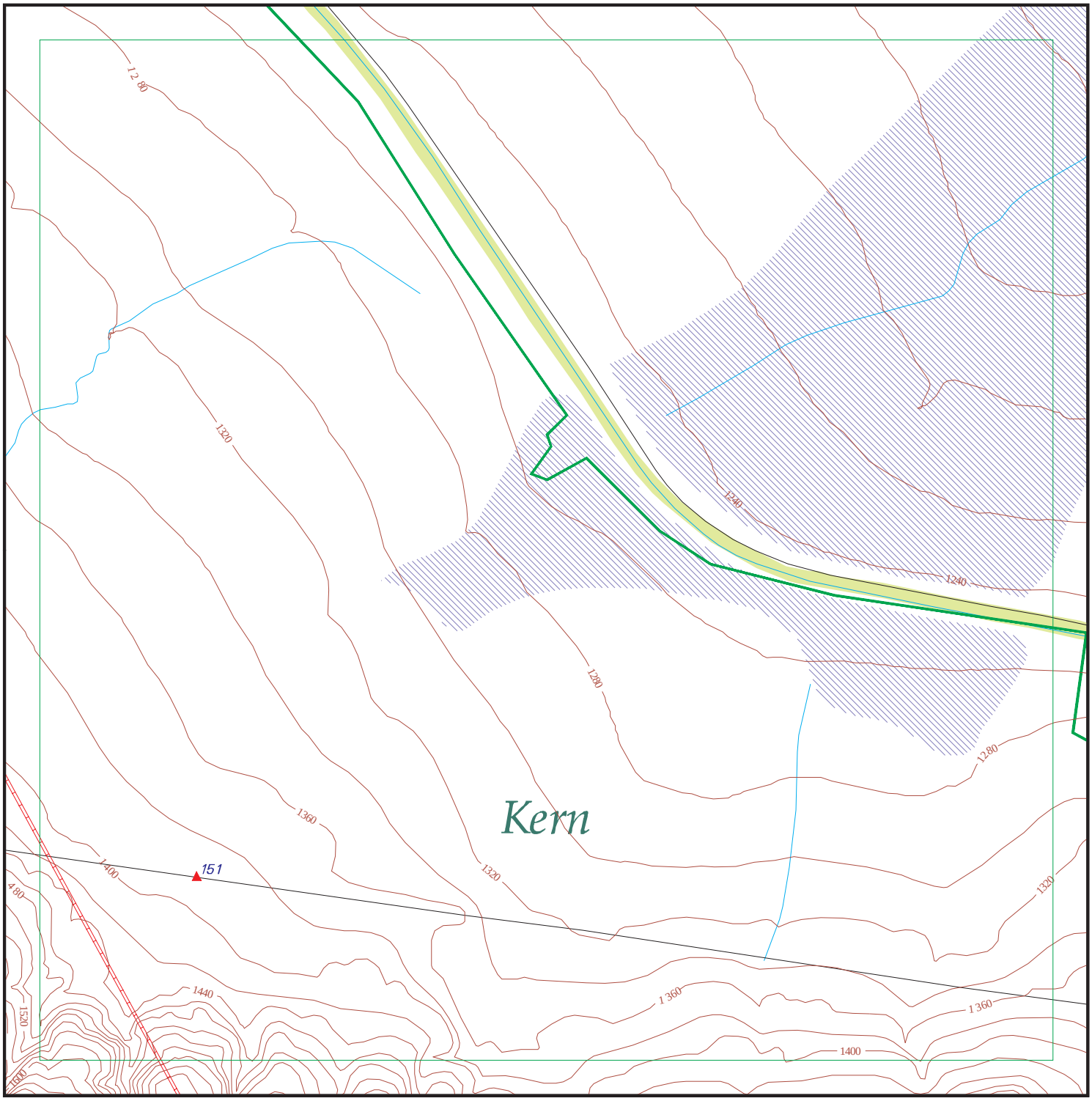
---

154 **EDR US Hist Auto Stat** **1015664989**
8968 GRAPEVINE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:

Name:	TEJON MOBIL
Year:	2003
Address:	8968 GRAPEVINE RD

Focus Map 23



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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Scale in Miles

Map ID	Site	Database(s)	EPA ID Number
151	**GRIFFITH COMPANY**	**US MINES**	**1015971153** **N/A**

LOS ANGELES (County), CA

US MINES:

Mine ID:	0403447
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	EDMONSTON ROCK PLANT
Company:	GRIFFITH COMPANY
State FIPS code:	CA
County FIPS code:	KERN
Status:	1
Status date:	20101102
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	34 56 21
Longitude:	118 54 11

Mine ID:	0405588
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	DISTRICT 9 PLANT 1
Company:	GRIFFITH COMPANY
State FIPS code:	CA
County FIPS code:	LOS ANGELES
Status:	4
Status date:	20040420
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	00 00 00
Longitude:	000 00 00

Violations Details:

Violation Number:	8697678
Date Issued:	12/18/2013
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	12/18/2013
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	Not reported
Paid Penalty:	Not reported
Assessment Status code:	Not reported
Assess. Case Status code:	Not reported
Assessment Amount:	Not reported
Year:	2013

Violation Number:	8697677
Date Issued:	12/17/2013
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	12/18/2013
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	Not reported
Paid Penalty:	Not reported

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Assessment Status code: Not reported
Assess. Case Status code: Not reported
Assessment Amount: Not reported
Year: 2013

Violation Number: 8697676
Date Issued: 12/17/2013
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/18/2013
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: Not reported
Paid Penalty: Not reported
Assessment Status code: Not reported
Assess. Case Status code: Not reported
Assessment Amount: Not reported
Year: 2013

Violation Number: 6369325
Date Issued: 12/13/2005
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/14/2005
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 268.00
Paid Penalty: 268.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 268.00
Year: 2005

Violation Number: 6369326
Date Issued: 12/13/2005
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/13/2005
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 228.00
Paid Penalty: 228.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 228.00
Year: 2005

Violation Number: 6354303
Date Issued: 12/04/2003
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/04/2003
Citation/Order: Citation

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Sig and Sub Designation: N
Proposed Penalty: 60
Paid Penalty: 60
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60
Year: 2003

Violation Number: 8567608
Date Issued: 11/30/2011
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/01/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 285.00
Paid Penalty: 285.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 285.00
Year: 2011

Violation Number: 8567610
Date Issued: 11/30/2011
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/01/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 285.00
Paid Penalty: 285.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 285.00
Year: 2011

Violation Number: 6369041
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369045
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Action Type: 104(a)
Date Abated: 12/20/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369044
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369043
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369040
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369042

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Date Issued:	11/03/2004
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	11/03/2004
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2004

Violation Number:	8560869
Date Issued:	11/02/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	11/02/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2010

Violation Number:	8560866
Date Issued:	10/27/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	10/27/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2010

Violation Number:	8560867
Date Issued:	10/27/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	10/27/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Year: 2010

Violation Number: 8560868
Date Issued: 10/27/2010
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/27/2010
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2010

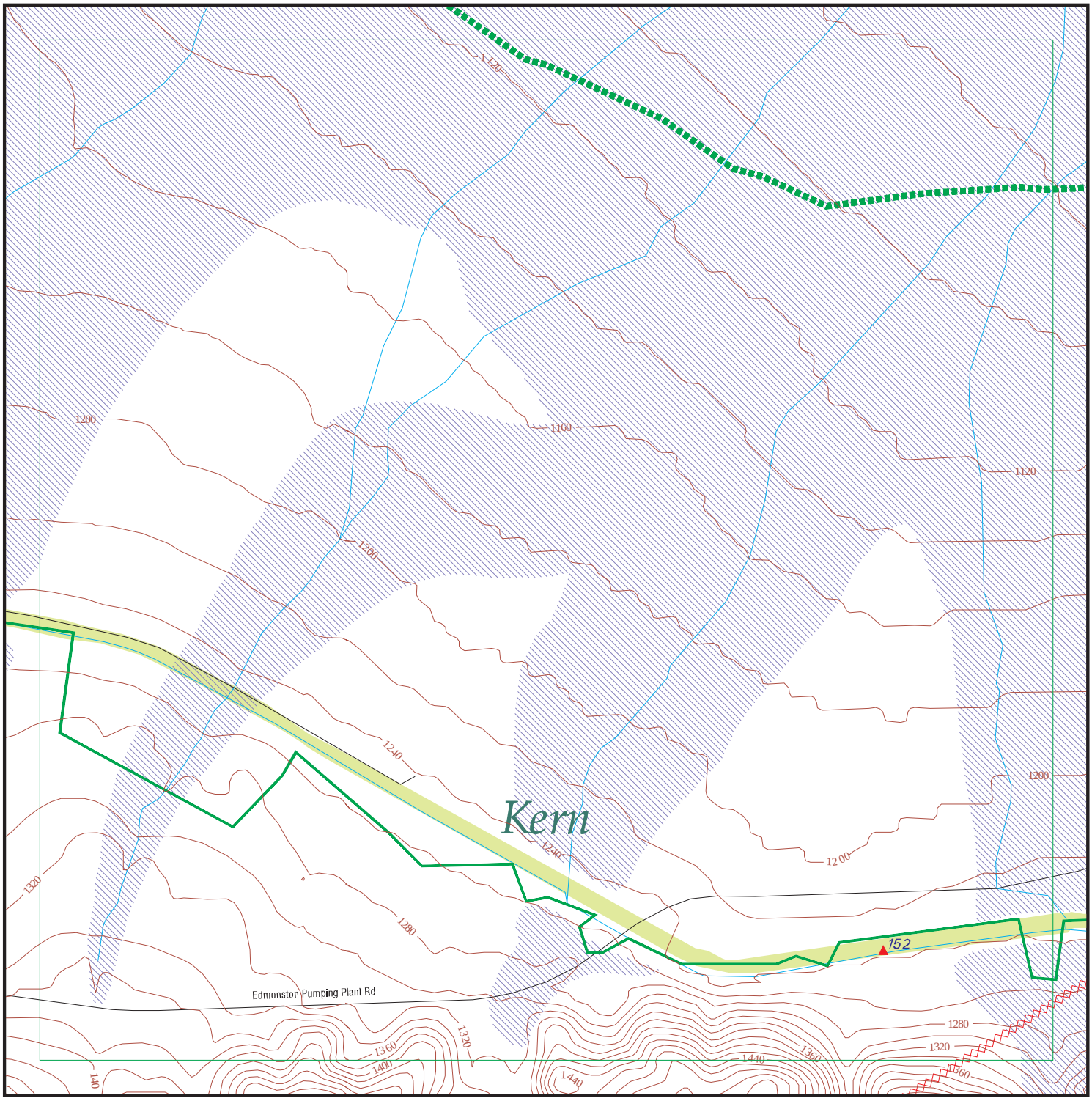
Violation Number: 8689170
Date Issued: 10/17/2012
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/17/2012
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 138
Paid Penalty: 138
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 138
Year: 2012

Violation Number: 8689171
Date Issued: 10/17/2012
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/18/2012
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100
Paid Penalty: 100
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100
Year: 2012

Map ID	Site	Database(s)	EPA ID Number
	GRIFFITH COMPANY (Continued)		**1015971153**

Click this hyperlink while viewing on your computer to access
51 additional US_MINES: record(s) in the EDR Site Report.

Focus Map 24



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Scale in Miles

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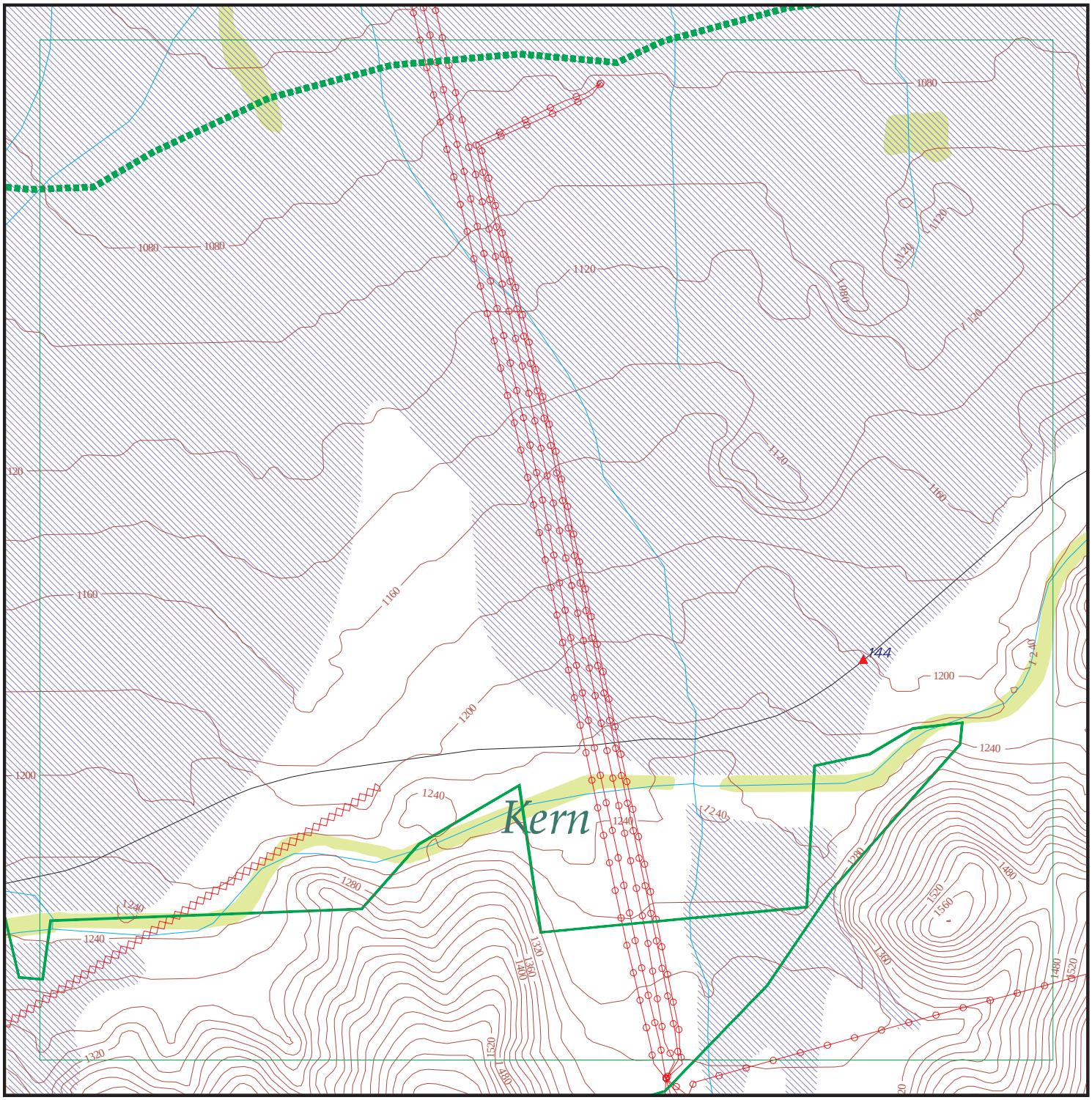
Map ID	Site	Database(s)	EPA ID Number
152	**DRILLING & PRODUCTION CO.**	**UIC**	**S111512417** **N/A**

KERN (County), CA

UIC:

API Number:	02932541
Confidential Well:	N
Well Number:	1
Direction:	Not Directionally drilled
Lease Name:	Jane
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	24
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1230 KB
Location Desc:	Fr NW cor 500S 800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.93769
Longitude:	-118.8621

Focus Map 25



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Map ID	Site	Database(s)	EPA ID Number
144	**DEPT. OF WATER RESOURCES** **39000 EDMONSTON PUMPING PLANT** **METTLER, CA 93313**	**RCRA-LQG**	**1014386936** **CAL000318962**

RCRA-LQG:

Date form received by agency:	08/03/2010
Facility name:	DEPT. OF WATER RESOURCES
Facility address:	39000 EDMONSTON PUMPING PLANT METTLER, CA 93313
EPA ID:	CAL000318962
Mailing address:	SABODAN ST BAKERSFIELD, CA 93313
Contact:	ALLEN L THOMPSON
Contact address:	SABODAN ST BAKERSFIELD, CA 93313
Contact country:	Not reported
Contact telephone:	(661) 858-5509
Contact email:	ALLENT@WATER.CA.GOV
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	DEPT OF WATER RESOURCES
Owner/operator address:	Not reported 93313
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1955
Owner/Op end date:	Not reported

Owner/operator name:	DEPT OF WATER RESOURCES
Owner/operator address:	SABODAN ST BAKERSFIELD, CA 93313
Owner/operator country:	Not reported
Owner/operator telephone:	(661) 858-5509
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1955
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No

Map ID	Site	Database(s)	EPA ID Number

DEPT. OF WATER RESOURCES (Continued) **1014386936**

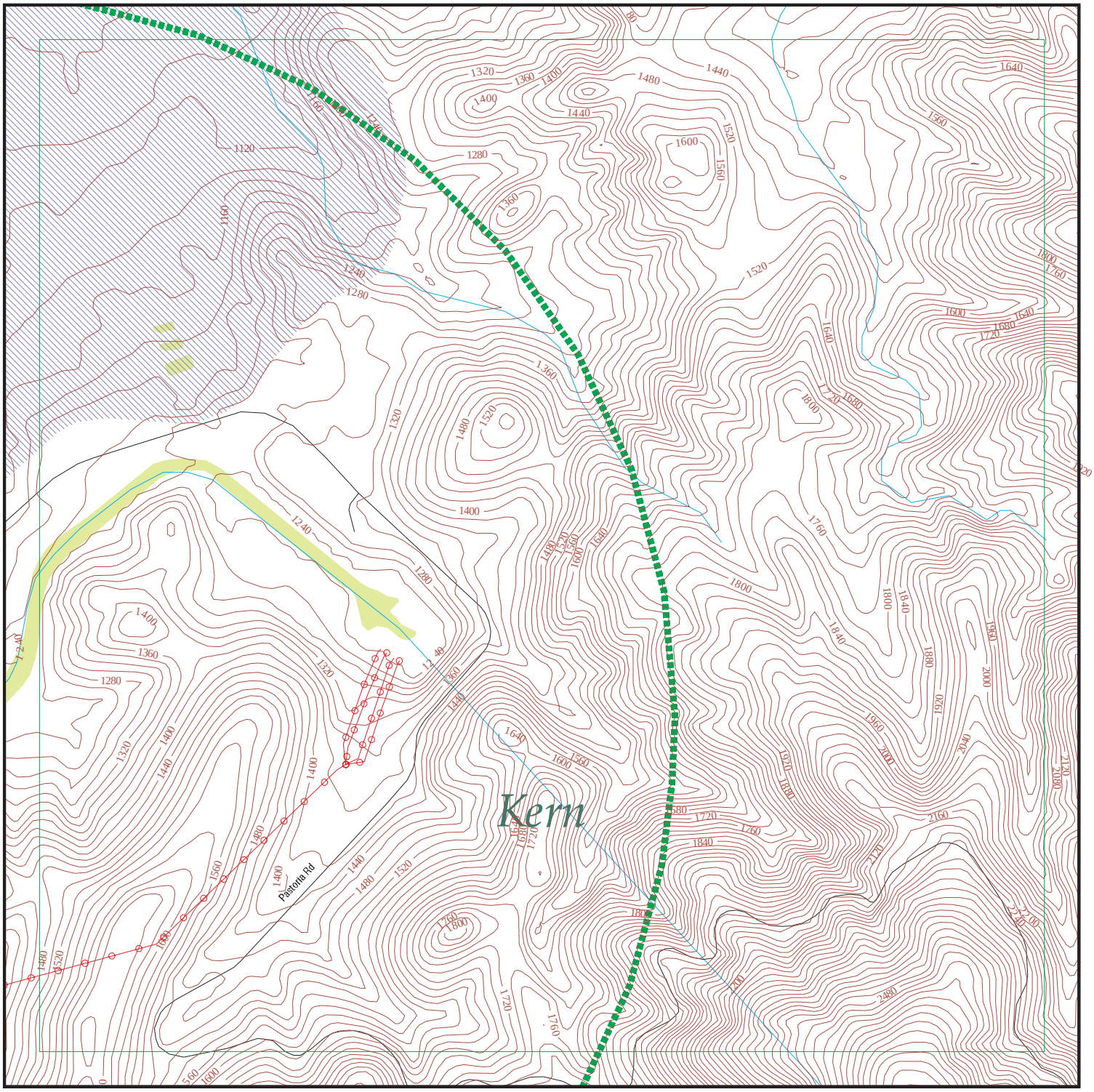
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Violation Status: No violations found

Focus Map 26



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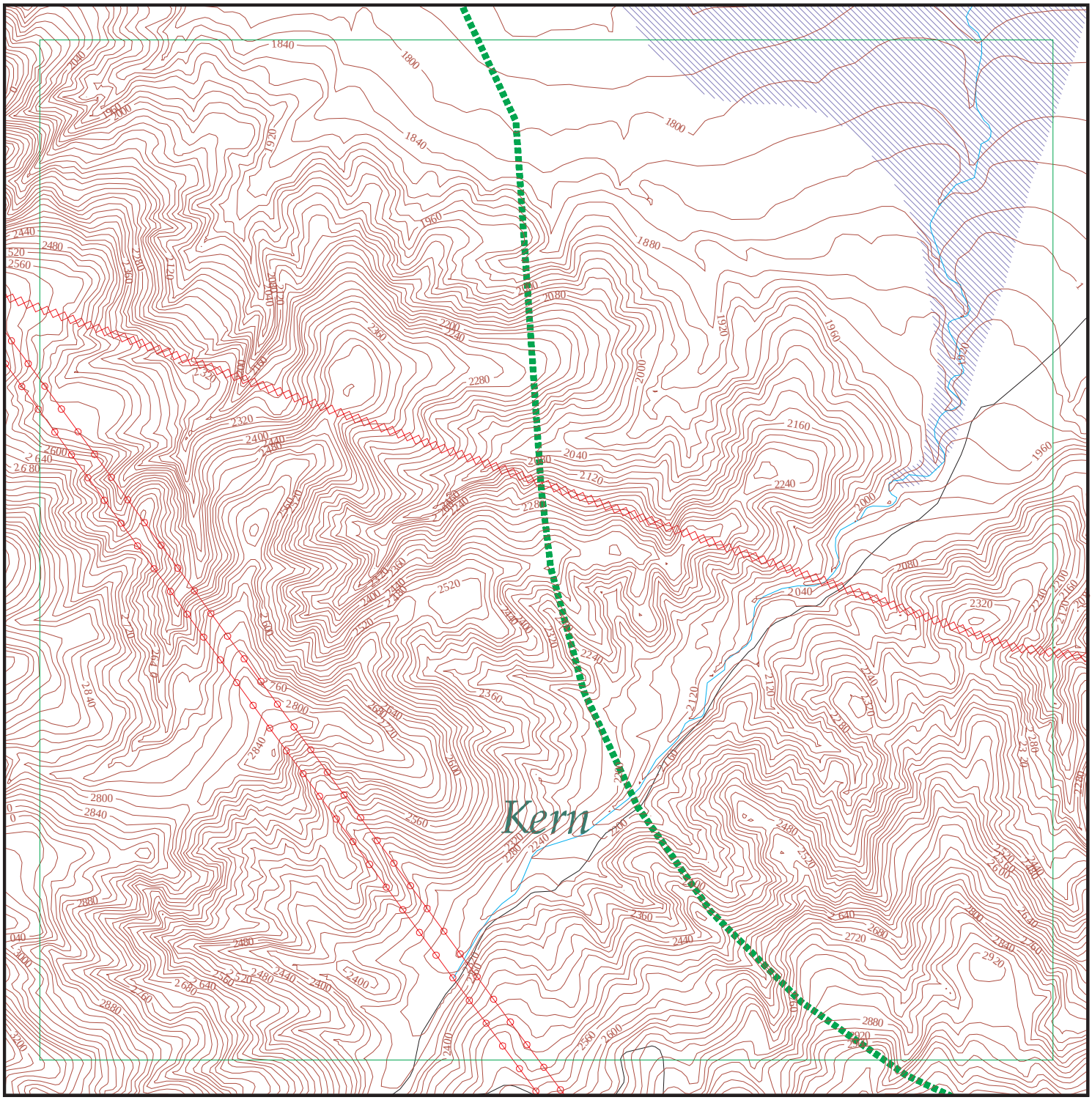
Focus Map 27



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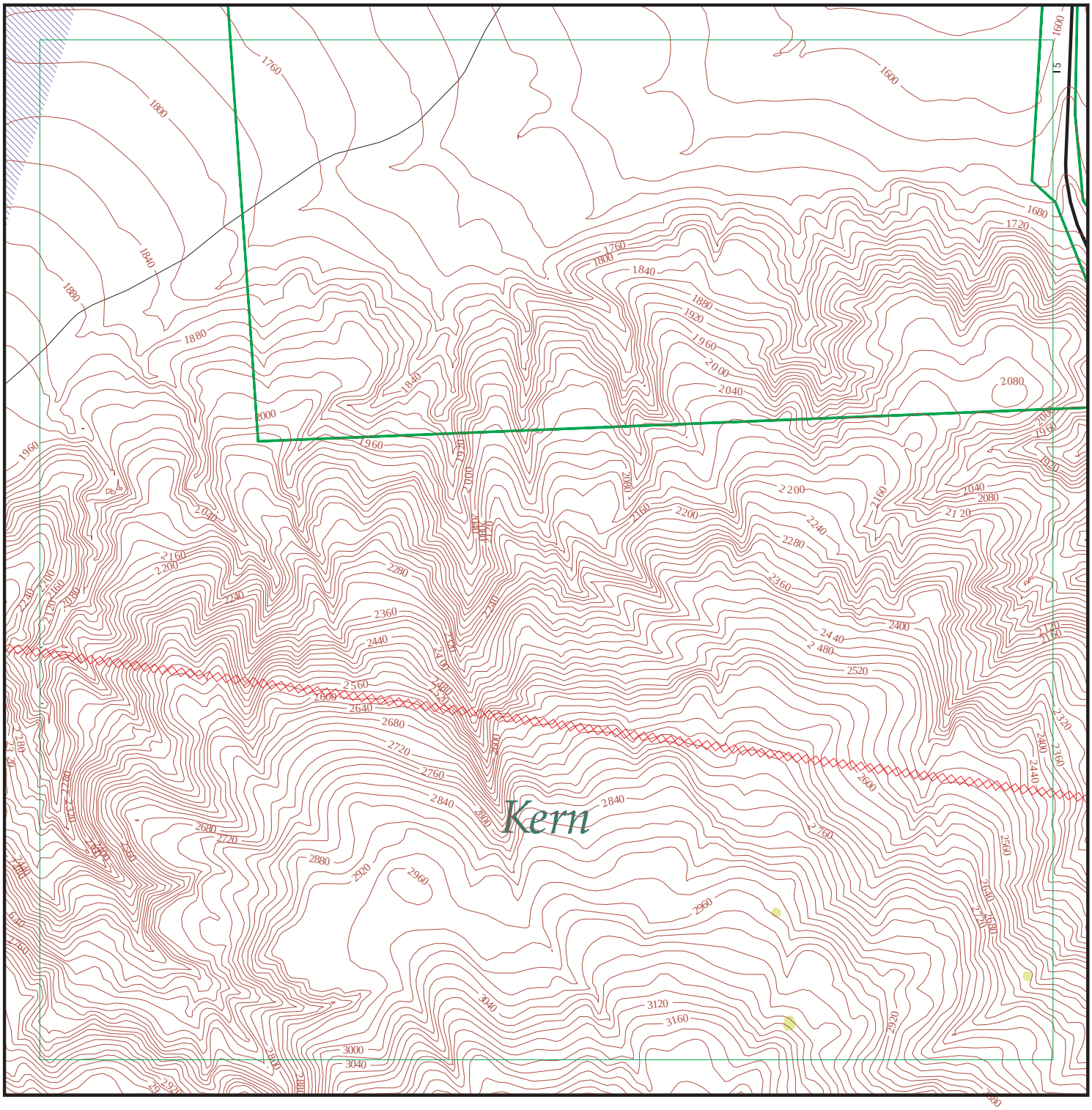
Focus Map 28



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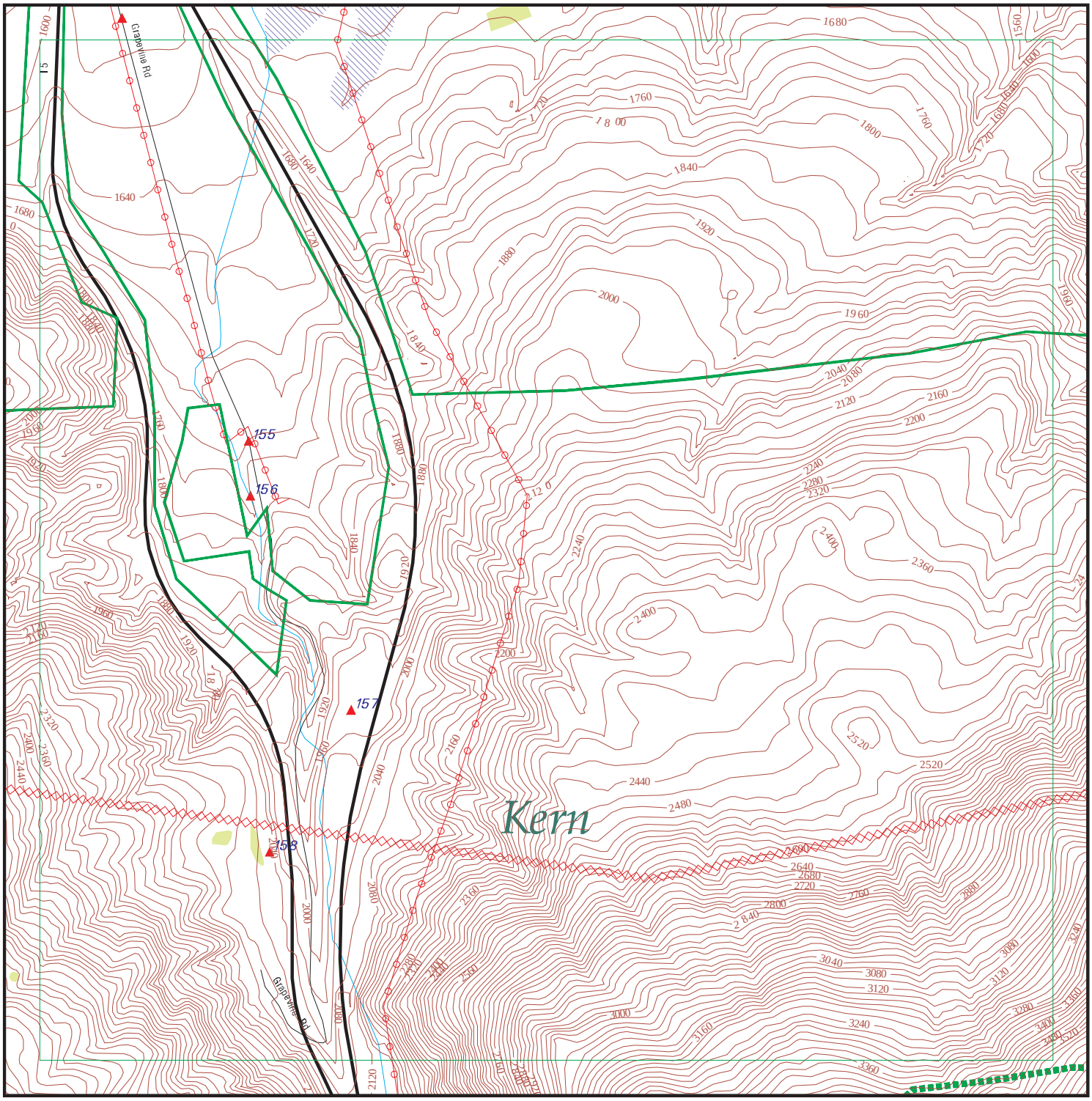
Focus Map 29



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Map ID	Site	Database(s)	EPA ID Number

154 **EDR US Hist Auto Stat** **1015664989**
8968 GRAPEVINE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: TEJON MOBIL
Year: 2003
Address: 8968 GRAPEVINE RD

---

155 **MOBIL GRAPEVINE PUMPING STATION 99-GRV** **SLIC** **S106486101**
8070 GRAPEVINE RD. **N/A**
ARVIN, CA 93203

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	05/28/2009
Global Id:	SLT5FR714638
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5F)
Lead Agency Case Number:	Not reported
Latitude:	34.9181
Longitude:	-118.926
Case Type:	Cleanup Program Site
Case Worker:	JA
Local Agency:	Not reported
RB Case Number:	SLT5FR714638
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Crude Oil
Site History:	Groundwater with a shenn was observed seeping out of highway I-5 embankment. An assessment discovered crude oil impacts to soil and groundwtaer adjacent to the pumping station. Monitoring wells at the site are sampled twice a year and free product is removed monthly as necessary. Additional assessment is currently being conducted to delineate lateral extent of impacts.

Click here to access the California GeoTracker records for this facility:

---

156 **UNION OIL SS #4734** **HIST UST** **U001581873**
HIGHWAY 99 & GRAPEVINE **N/A**
LEBEC, CA 93243

HIST UST:

Region:	STATE
Facility ID:	00000030732
Facility Type:	Gas Station
Other Type:	Not reported
Total Tanks:	0008
Contact Name:	R. J. ROSE & L.W. PERRY
Telephone:	8053272903
Owner Name:	UNION OIL CO.
Owner Address:	1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip:	SAN FRANCISCO, CA 94111
Tank Num:	001
Container Num:	4734-1-1
Year Installed:	1961
Tank Capacity:	00010000

Map ID	Site	Database(s)	EPA ID Number

UNION OIL SS #4734 (Continued) **U001581873**

Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 4734-2-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 4734-3-1
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4734-4-1
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 4734-1-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 4734-2-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: 4734-3-1
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported

Map ID	Site	Database(s)	EPA ID Number

UNION OIL SS #4734 (Continued) **U001581873**

Leak Detection: Stock Inventor

Tank Num: 008
Container Num: 4734-4-1
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

---

157 **EMERGENCY TRUCK ESCAPE RAMP** **SLIC** **S110071879**
GRAPEVINE **N/A**
GRAPEVINE, CA 93243

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	04/20/2010
Global Id:	L10001698895
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5F)
Lead Agency Case Number:	Not reported
Latitude:	34.922217
Longitude:	-118.92374
Case Type:	Cleanup Program Site
Case Worker:	AM
Local Agency:	Not reported
RB Case Number:	5D150801002
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective action is underway as directed by the CVRWQCB. Corrective action may consist of preliminary site investigation, planning and implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. For a complete site history the case file at the CVRWQCB should be consulted.

Click here to access the California GeoTracker records for this facility:

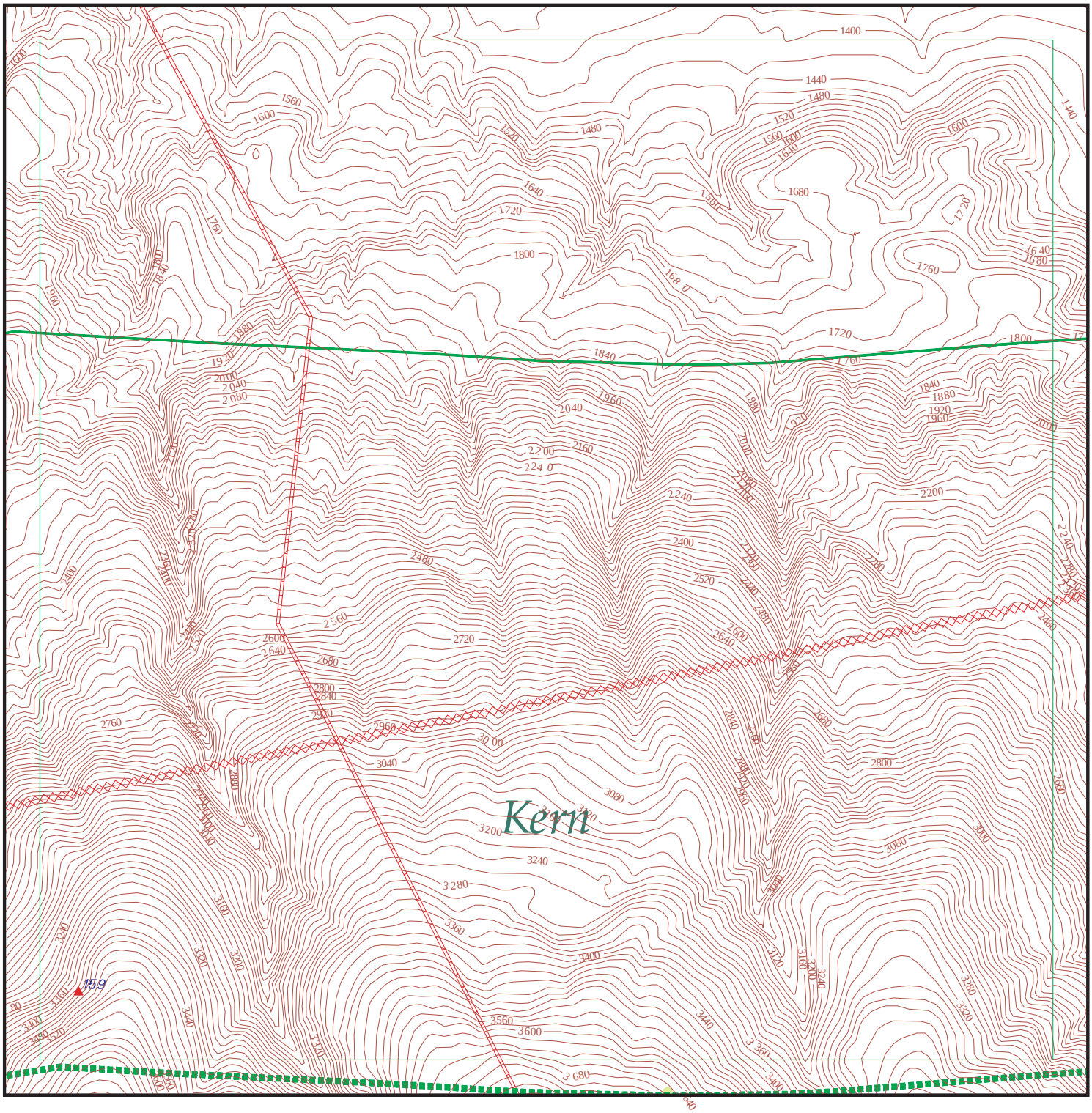
---

158 **EXXONMOBIL OIL CORP - GRAPEVINE** **AST** **A100339264**
7815 GRAPEVINE **N/A**
LEBEC, CA 93243

AST:

Owner:	EXXONMOBIL OIL CORPORATION
Total Gallons:	1,356,864
Certified Unified Program Agencies:	Kern

Focus Map 30



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Map ID	Site	Database(s)	EPA ID Number
159	**NORTHROP CORPORATION** **BLDG 1864 FORBES AVE** **EDWARDS AIR FORCE BA, CA 90250**	**ENVIROSTOR** **HWP**	**S109548319** **N/A**

ENVIROSTOR:

Facility ID:	80001436
Status:	Refer: SMBRP
Status Date:	06/19/2013
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Unknown
Division Branch:	Cleanup Sacramento
Assembly:	34
Senate:	16
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.91664
Longitude:	-118.9059
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD059818120
Alias Type:	EPA Identification Number
Alias Name:	80001436
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	04/30/1990
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

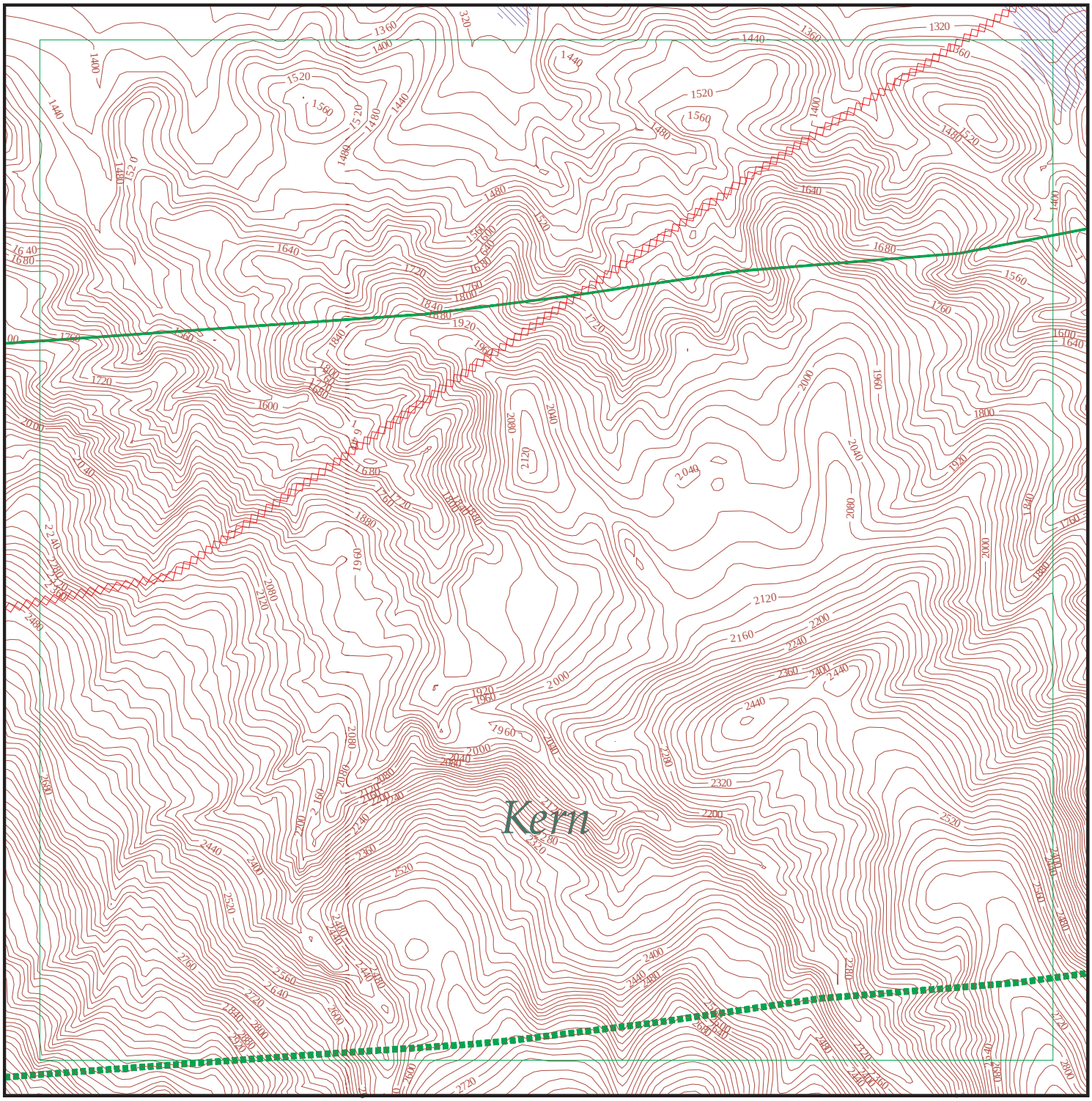
HWP:

EPA Id:	CAD059818120
Cleanup Status:	UNKNOWN
Latitude:	34.91664
Longitude:	-118.9059
Facility Type:	Historical - Non-Operating

Map ID	Site	Database(s)	EPA ID Number
	NORTHROP CORPORATION (Continued)		**S109548319**

Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	34
Senate District:	16
Public Information Officer:	Not reported

Focus Map 31



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- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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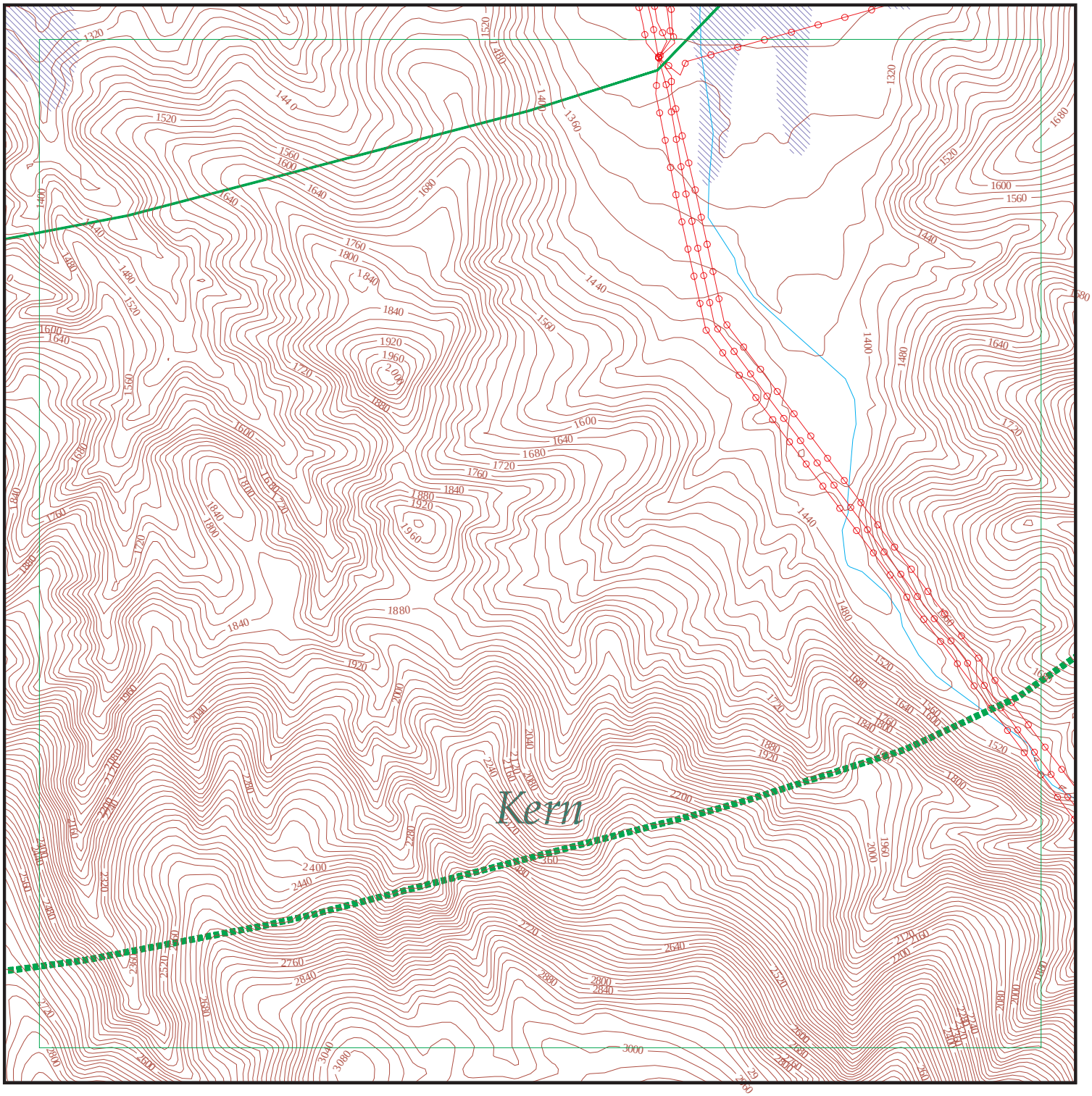
Focus Map 32



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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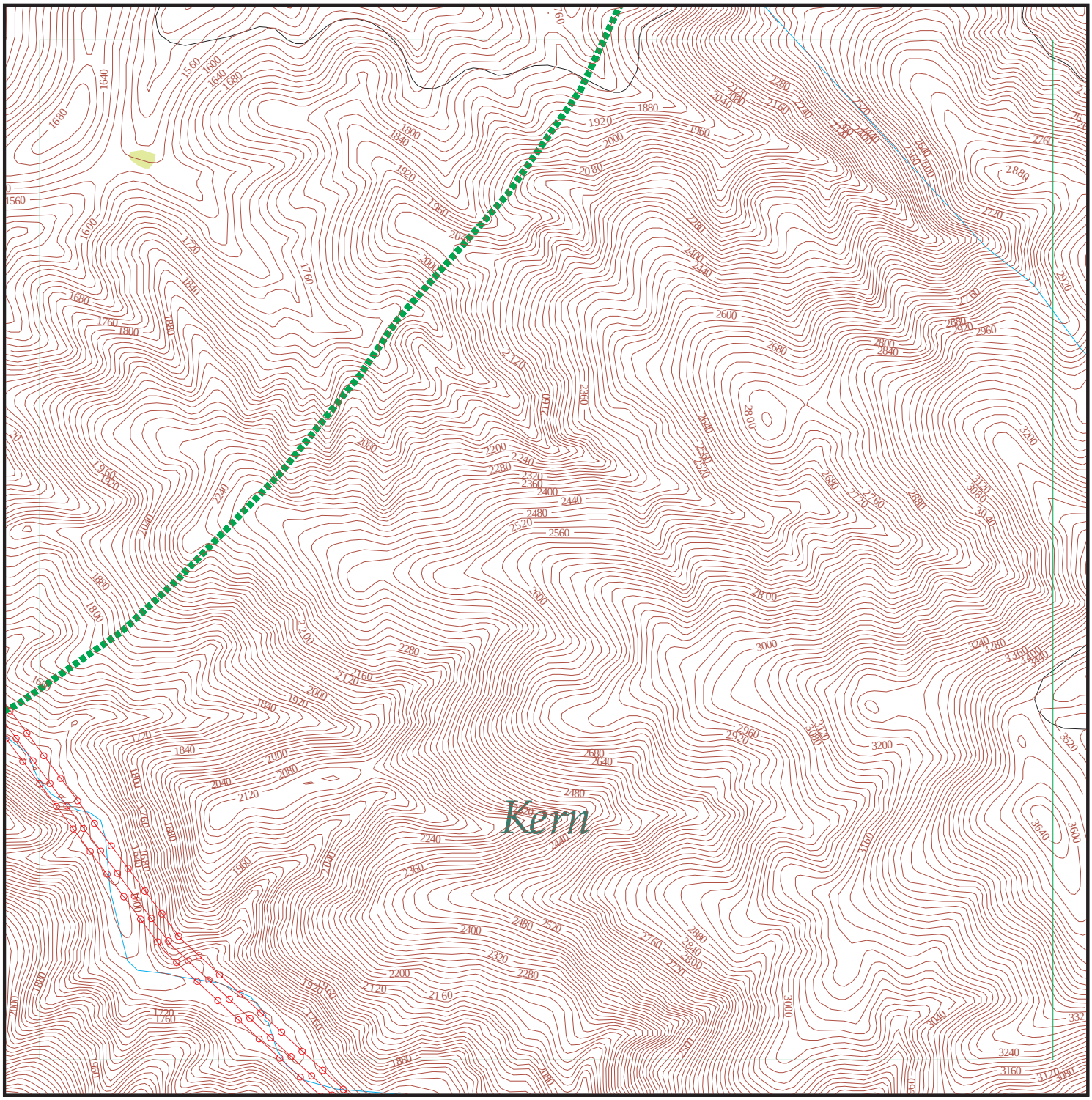
Focus Map 33



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
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- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

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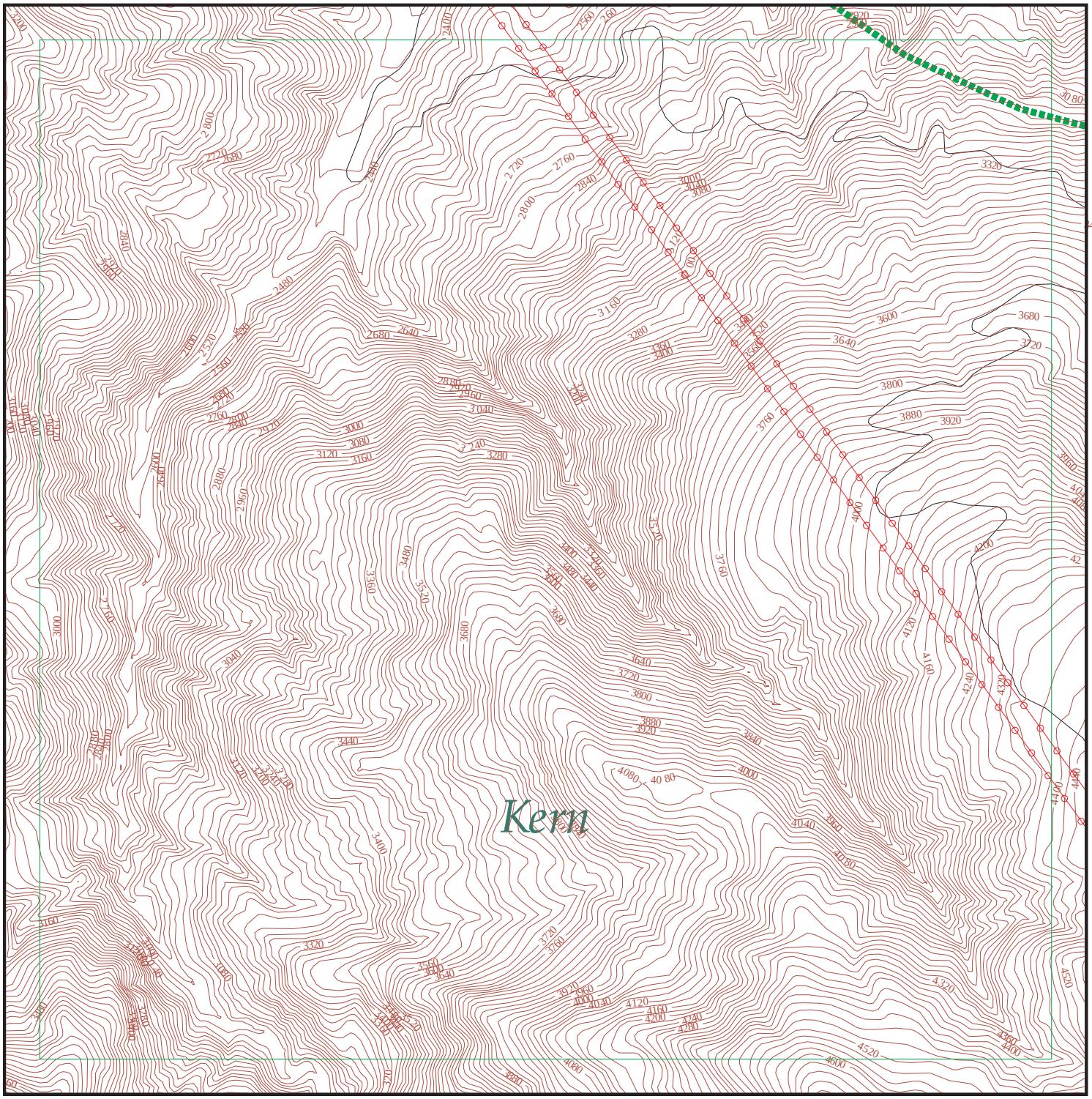
Focus Map 34



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

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- Sensitive Receptors

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Scale in Miles

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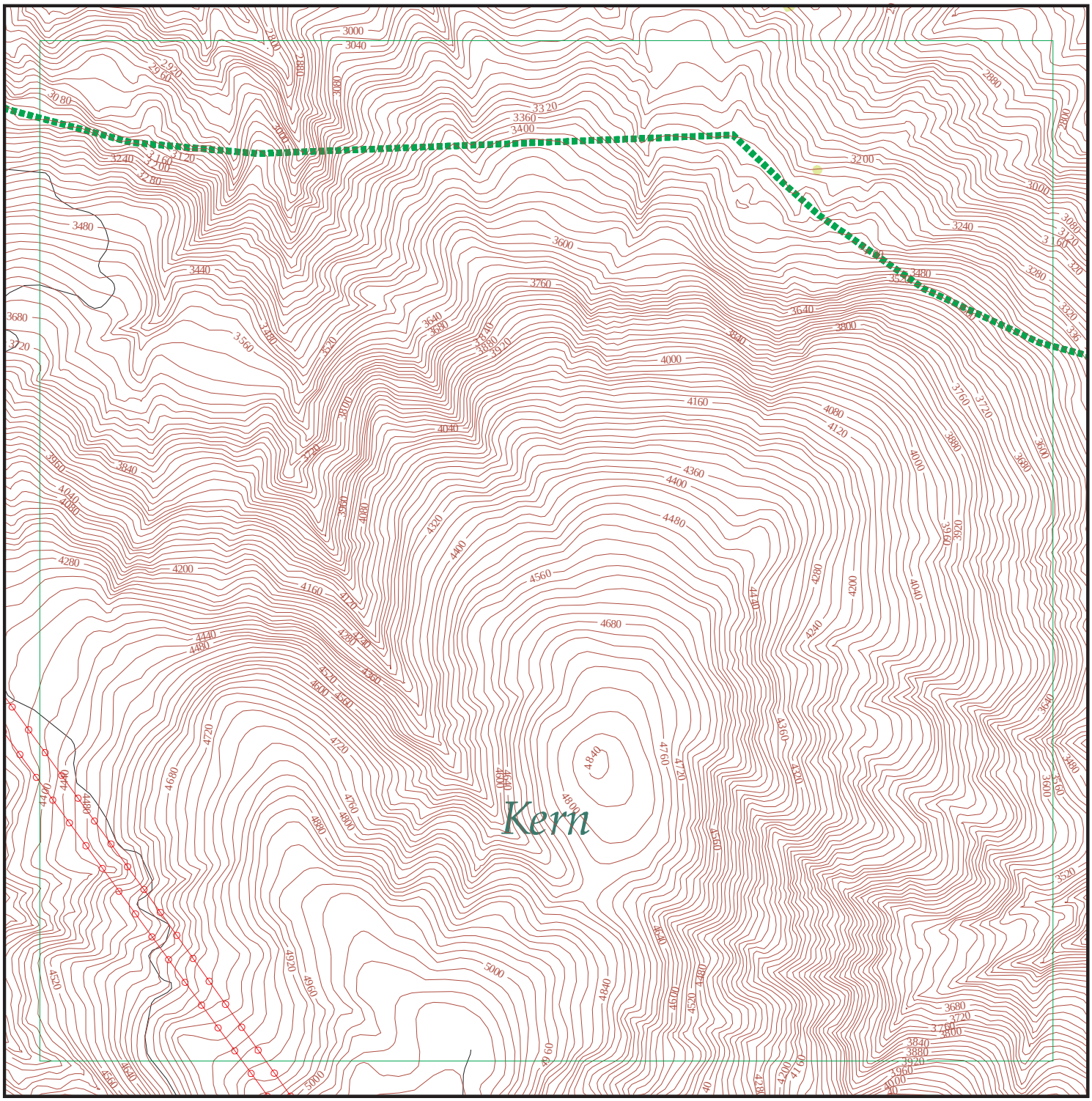
Focus Map 35



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

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- Listed Sites
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Scale in Miles

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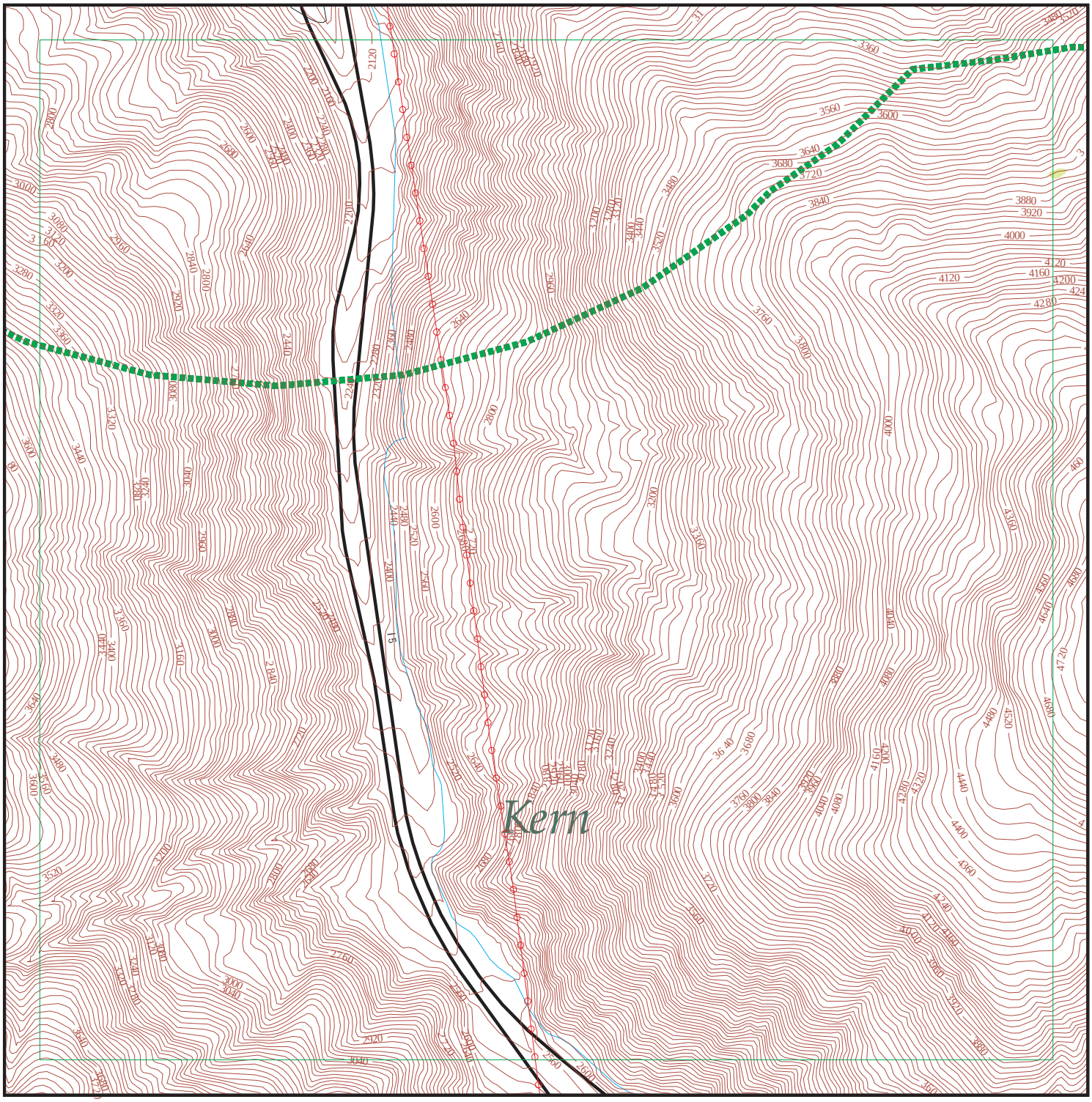
Focus Map 36



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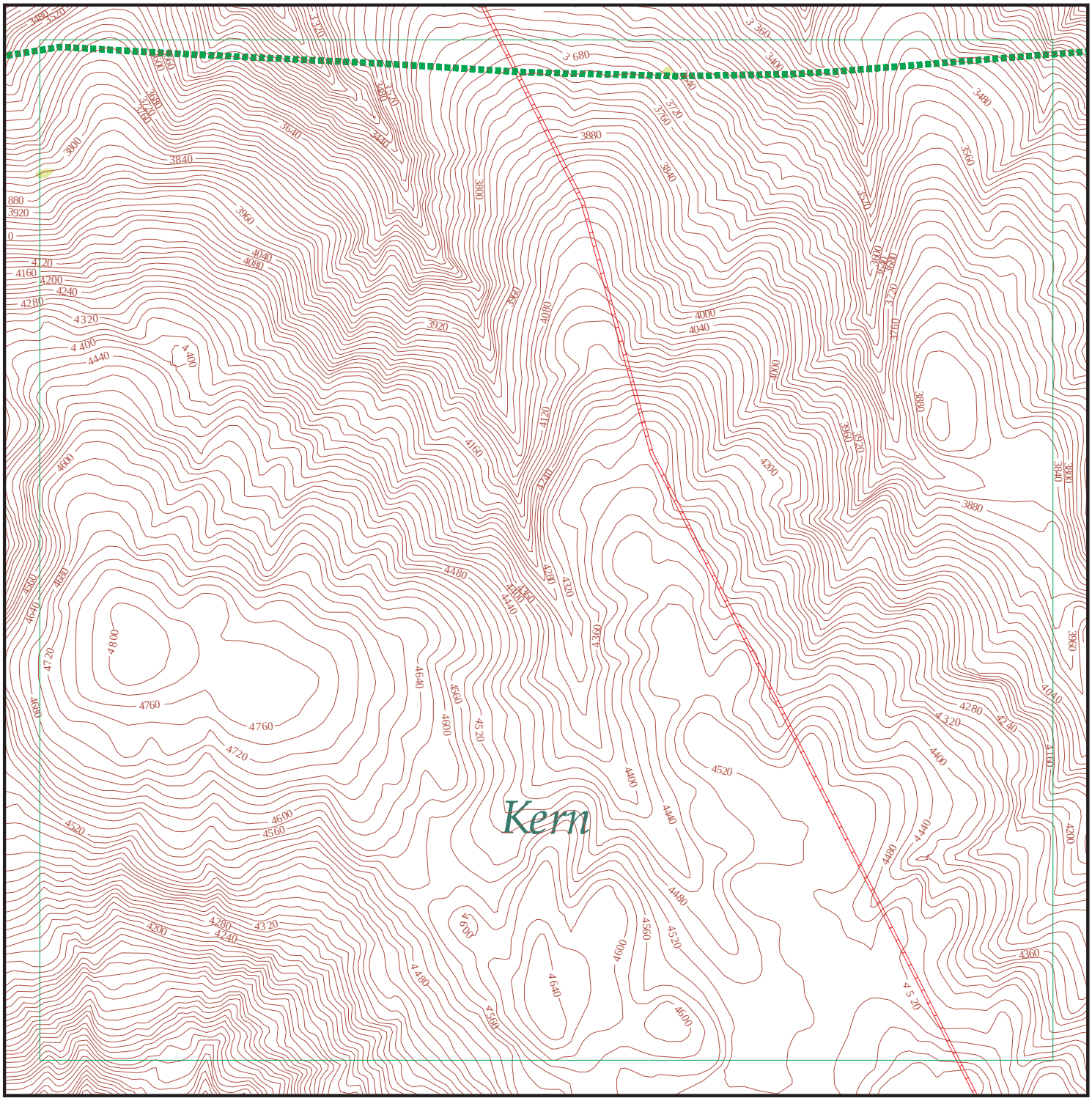
Focus Map 37



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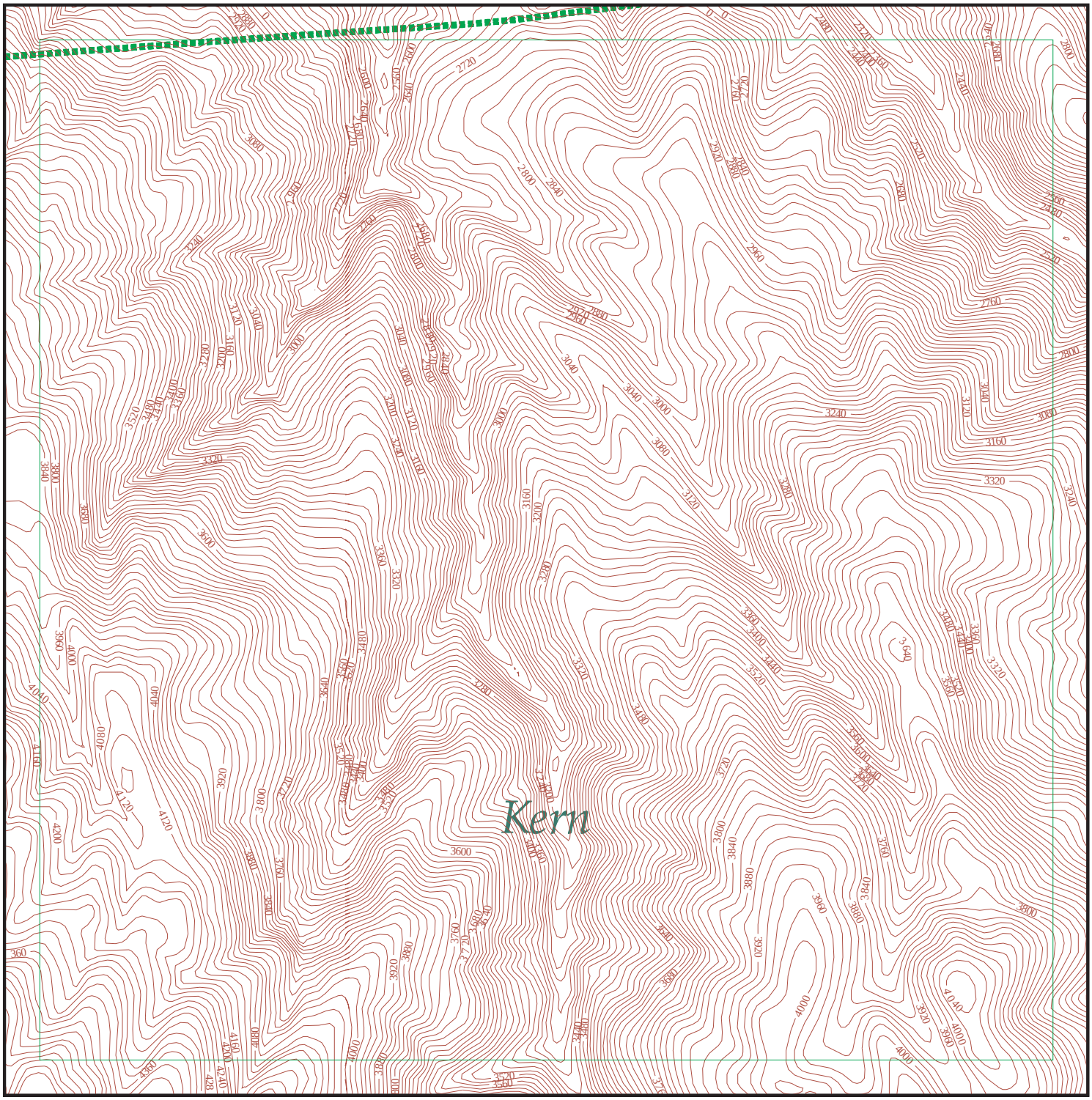
Focus Map 38



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Scale in Miles

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CALIFORNIA DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

GRAPEVINE PROJECT AREA WELL DATABASE

APINumber	DryHole	StatusCode	OperatorName	Section	Township	Range	Latitude	Longitude	WellNumber	SPUDDate	DepthAmount	AbandonedDate	CompletionDate
02900272	N	U	Vintage Production California LLC	32	11N	19W	34.987521	-118.923173	68-32				
02900902	N	I	Vintage Production California LLC	32	11N	19W	34.990539	-118.919159	86-32				
02918623	N	P	ARCO Western Energy	32	11N	19W	34.995581	-118.92715	1				
02918624	N	U	ARCO Western Energy	32	11N	19W	34.998258	-118.927075	2				
02918625	N	U	ARCO Western Energy	32	11N	19W	34.996725	-118.92798	3				
02918712	N	P	Vintage Production California LLC	32	11N	19W	34.99229	-118.925573	55-32				
02918713	N	U	Vintage Production California LLC	32	11N	19W	34.991115	-118.925211	56-32				
02918714	N	P	Vintage Production California LLC	32	11N	19W	34.989747	-118.925331	56R-32			7/26/2013	
02918715	N	U	Vintage Production California LLC	32	11N	19W	34.989153	-118.925303	57-32				
02918716	N	I	Vintage Production California LLC	32	11N	19W	34.987096	-118.925573	58-32				
02918717	N	P	Vintage Production California LLC	32	11N	19W	34.985265	-118.925292	59-32				
02918719	N	U	Vintage Production California LLC	32	11N	19W	34.992628	-118.922956	65-32				
02918720	N	P	Vintage Production California LLC	32	11N	19W	34.990726	-118.923072	66-32				
02918721	N	P	Vintage Production California LLC	32	11N	19W	34.98891	-118.923369	67-32				
02918722	N	P	Vintage Production California LLC	32	11N	19W	34.985308	-118.92312	69-32				
02918723	N	U	Vintage Production California LLC	32	11N	19W	34.992675	-118.921042	75-32				
02918724	N	A	Vintage Production California LLC	32	11N	19W	34.990724	-118.921078	76-32				
02918725	N	U	Vintage Production California LLC	32	11N	19W	34.989251	-118.921063	77-32				
02918726	N	P	Vintage Production California LLC	32	11N	19W	34.987099	-118.921364	78-32				
02918727	N	I	Vintage Production California LLC	32	11N	19W	34.985295	-118.920938	79-32				
02918729	N	P	Vintage Production California LLC	32	11N	19W	34.992618	-118.919403	85-32				
02918731	N	P	Vintage Production California LLC	32	11N	19W	34.987099	-118.919484	88-32				
02918732	N	A	Vintage Production California LLC	32	11N	19W	34.989545	-118.920254	101-32				
02918733	N	A	Vintage Production California LLC	32	11N	19W	34.989596	-118.920571	102-32				
02918736	N	I	Vintage Production California LLC	32	11N	19W	34.986151	-118.926035	485-32			7/25/2013	
02918737	N	P	Vintage Production California LLC	32	11N	19W	34.991629	-118.924504	555-32				
02918738	N	I	Vintage Production California LLC	32	11N	19W	34.98981	-118.92422	565-32				
02918739	N	A	Vintage Production California LLC	32	11N	19W	34.988321	-118.924478	575-32				
02918740	N	P	Vintage Production California LLC	32	11N	19W	34.986012	-118.924171	585-32				
02918741	N	P	Vintage Production California LLC	32	11N	19W	34.991629	-118.922307	655-32	12/22/1953	2610	4/13/2011	1/11/1953
02918742	N	P	Vintage Production California LLC	32	11N	19W	34.990229	-118.922404	665-32				
02918743	N	I	Vintage Production California LLC	32	11N	19W	34.988278	-118.921877	675-32				
02918744	N	I	Vintage Production California LLC	32	11N	19W	34.987119	-118.922132	682-32				
02918745	N	A	Vintage Production California LLC	32	11N	19W	34.986008	-118.92194	685-32				
02918747	N	I	Vintage Production California LLC	32	11N	19W	34.98944	-118.920046	765-32				
02918748	N	P	Vintage Production California LLC	32	11N	19W	34.987997	-118.920188	775-32			7/25/2013	
02918749	N	I	Vintage Production California LLC	32	11N	19W	34.98619	-118.920115	785-32				
02918750	N	P	Vintage Production California LLC	32	11N	19W	34.989819	-118.918504	865-32				
02918751	N	P	Vintage Production California LLC	32	11N	19W	34.987999	-118.918454	875-32				
02918760	N	P	Vintage Production California LLC	33	11N	19W	34.99053	-118.9174	16C-33WI				
02918780	N	U	Chevron U.S.A. Inc.	5	10N	19W	34.980029	-118.932184	23-5				
02918787	N	U	Chevron U.S.A. Inc.	5	10N	19W	34.980985	-118.925452	53A-5				
02918816	N	U	Edwin W. Pauley	33	11N	19W	34.987386	-118.90127	33-9				
02918817	N	U	Pauley Petroleum Inc.	33	11N	19W	34.989873	-118.907548	57-33				

CALIFORNIA DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

GRAPEVINE PROJECT AREA WELL DATABASE

APINumber	DryHole	StatusCode	OperatorName	Section	Township	Range	Latitude	Longitude	WellNumber	SPUDDate	DepthAmount	AbandonedDate	CompletionDate
02918820	N	U	The Petrol Corp.	33	11N	19W	34.989136	-118.905455	33-5				
02918840	N	P	ARCO Western Energy	33	11N	19W	34.992229	-118.907643	2-33				
02918841	N	U	Reserve Oil, Inc.	33	11N	19W	34.990949	-118.907539	3-33				
02918843	N	U	Reserve Oil, Inc.	33	11N	19W	34.992611	-118.900961	6-33				
02918846	N	U	Reserve Oil, Inc.	33	11N	19W	34.994331	-118.903158	11-33				
02918847	N	P	ARCO Western Energy	33	11N	19W	34.992641	-118.903098	12-33				
02918848	N	P	ARCO Western Energy	33	11N	19W	34.992548	-118.904674	13-33				
02918853	N	U	Reserve Oil, Inc.	33	11N	19W	34.997649	-118.907517	53-33				
02918854	N	P	Vintage Production California LLC	33	11N	19W	34.991717	-118.907457	56-33				
02918855	N	P	Vintage Production California LLC	33	11N	19W	34.990427	-118.906306	57-V-33				
02918856	N	P	Vintage Production California LLC	33	11N	19W	34.987645	-118.907631	58-33				
02918859	N	U	Reserve Oil, Inc.	33	11N	19W	34.992578	-118.905387	65-33				
02918860	N	P	Vintage Production California LLC	33	11N	19W	34.99178	-118.903894	65-R-33				
02918861	N	P	Vintage Production California LLC	33	11N	19W	34.990796	-118.905253	66-33				
02918862	N	U	Reserve Oil, Inc.	33	11N	19W	34.990857	-118.90634	66R-33				
02918863	N	U	Reserve Oil, Inc.	33	11N	19W	34.989474	-118.904739	67-33				
02918864	N	P	Vintage Production California LLC	33	11N	19W	34.989475	-118.904139	67-R-33				
02918866	N	P	Vintage Production California LLC	33	11N	19W	34.990705	-118.902666	76-33				
02918867	N	P	Vintage Production California LLC	33	11N	19W	34.989137	-118.902567	77-33				
02918868	N	U	Reserve Oil, Inc.	33	11N	19W	34.987416	-118.903295	78-33				
02918869	N	U	Reserve Oil, Inc.	33	11N	19W	34.98717	-118.902285	78A-33				
02918872	N	P	Vintage Production California LLC	33	11N	19W	34.989906	-118.90091	87-33				
02918873	N	U	Reserve Oil, Inc.	33	11N	19W	34.989597	-118.906051	157-33				
02918874	N	P	Vintage Production California LLC	33	11N	19W	34.990458	-118.904055	176-33				
02918875	N	P	Vintage Production California LLC	34	11N	19W	34.993045	-118.891431	45-34				
02918894	N	U	Reserve Oil, Inc.	34	11N	19W	34.999436	-118.898612	12-34				
02918895	N	P	Vintage Production California LLC	34	11N	19W	35.001219	-118.896421	21-34				
02918896	N	P	Vintage Production California LLC	34	11N	19W	34.997562	-118.896041	23-34				
02918897	N	P	Vintage Production California LLC	34	11N	19W	35.001251	-118.894133	31-34				
02918898	N	P	Vintage Production California LLC	34	11N	19W	35.000359	-118.894216	31B-34				
02918899	N	P	Vintage Production California LLC	34	11N	19W	34.99956	-118.894261	32-34				
02918900	N	P	ARCO Western Energy	34	11N	19W	34.999896	-118.893302	32A-34				
02918901	N	P	Vintage Production California LLC	34	11N	19W	34.99747	-118.894805	33-34				
02918902	N	P	Vintage Production California LLC	34	11N	19W	34.99664	-118.894775	34-34				
02918903	N	P	Vintage Production California LLC	34	11N	19W	35.00061	-118.892067	41-34				
02918904	N	P	ARCO Western Energy	34	11N	19W	35.001498	-118.891731	41A-34				
02918905	N	P	Vintage Production California LLC	34	11N	19W	34.998797	-118.8923	42-34				
02918906	N	P	ARCO Western Energy	34	11N	19W	35.000238	-118.89163	42A-34				
02918907	N	P	Vintage Production California LLC	34	11N	19W	34.997558	-118.893222	43-34				
02918914	N	P	Vintage Production California LLC	34	11N	19W	34.997561	-118.897279	213-34				
02918915	N	A	E & B Natural Resources Management Corporation	34	11N	19W	34.996231	-118.895978	1				
02918916	N	A	E & B Natural Resources Management Corporation	34	11N	19W	34.994749	-118.896562	2				
02918917	N	P	Pennant Petroleum Corp.	34	11N	19W	34.993906	-118.891499	34-2				
02918918	N	P	Pennant Petroleum Corp.	34	11N	19W	34.994305	-118.892058	34-3				

CALIFORNIA DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

GRAPEVINE PROJECT AREA WELL DATABASE

APINumber	DryHole	StatusCode	OperatorName	Section	Township	Range	Latitude	Longitude	WellNumber	SPUDDate	DepthAmount	AbandonedDate	CompletionDate
02918919	N	P	Pennant Petroleum Corp.	34	11N	19W	34.993985	-118.894291	34-4				
02918920	N	P	Pennant Petroleum Corp.	34	11N	19W	34.995793	-118.898731	34-5				
02918921	N	P	Pennant Petroleum Corp.	34	11N	19W	34.995803	-118.896505	34-6				
02918922	N	P	Pennant Petroleum Corp.	34	11N	19W	34.994487	-118.898769	34-8				
02918923	N	A	E & B Natural Resources Management Corporation	34	11N	19W	34.993991	-118.896964	34-9				
02918925	N	P	Pennant Petroleum Corp.	34	11N	19W	34.996239	-118.897726	34-10				
02918926	N	P	Pennant Petroleum Corp.	34	11N	19W	34.996243	-118.899278	34-12				
02918928	N	U	Chevron U.S.A. Inc.	5	10N	19W	34.978135	-118.918596	1				
02920515	N	P	Vintage Production California LLC	29	11N	19W	35.006734	-118.932408	16-29				
02920516	N	U	Reserve Oil, Inc.	29	11N	19W	35.00353	-118.932345	18-29				
02920517	N	U	Reserve Oil, Inc.	29	11N	19W	35.006798	-118.928097	36-29				
02932523	N	U	ARCO Western Energy	7	10N	19W	34.955866	-118.940666	1				
02932524	N	U	ARCO Western Energy	7	10N	19W	34.96203	-118.939816	4				
02932525	Y	P	ARCO Western Energy	7	10N	19W	34.967567	-118.944138	9				
02932526	N	U	ARCO Western Energy	7	10N	19W	34.961751	-118.950279	25-7				
02932529	N	U	ARCO Western Energy	8	10N	19W	34.961368	-118.926211	13				
02932530	N	U	ARCO Western Energy	8	10N	19W	34.965495	-118.925645	53-8				
02932531	N	U	ARCO Western Energy	8	10N	19W	34.968955	-118.923226	61-8				
02932534	N	U	ARCO Western Energy	17	10N	19W	34.94992	-118.928019	12				
02932535	N	U	ARCO Western Energy	18	10N	19W	34.944528	-118.941938	2				
02932536	N	U	ARCO Western Energy	18	10N	19W	34.95002	-118.941178	8				
02932537	N	U	ARCO Western Energy	18	10N	19W	34.950027	-118.941747	8-A				
02932541	Y	P	Drilling & Production Co.	24	10N	19W	34.937695	-118.862131	1	7/7/1965	2390	7/14/1965	
02932544	Y	P	101 Oil Co.	7	10N	19W	34.968851	-118.939011	1	5/10/1935	1352	12/1/1939	
02932547	N	U	Phillips Petroleum Company	18	10N	19W	34.952577	-118.943848	52				
02932548	N	U	A. M. Van Flick	16	10N	19W	34.942959	-118.910323	47				
02942426	N	U	L. M. Hampton	17	10N	19W	34.945017	-118.9267	1				
02950588	N	P	Pennant Petroleum Corp.	34	11N	19W	34.99421	-118.892344	34-13				
02951222	N	A	E & B Natural Resources Management Corporation	34	11N	19W	34.993516	-118.8923	34-14				
02951966	N	P	ARCO Western Energy	34	11N	19W	34.995781	-118.891594	45A-34				
02957884	N	U	The Dow Chemical Company	5	10N	19W	34.976164	-118.929381	1				
02957938	N	P	ARCO Western Energy	34	11N	19W	34.99578	-118.892945	43A-34				
02958857	N	P	Chevron U.S.A. Inc.	5	10N	19W	34.981289	-118.933366	4				
02962777	N	P	Pennant Petroleum Corp.	34	11N	19W	34.994271	-118.898689	15				
02986051	N	P	Vintage Production California LLC	34	11N	19W	34.998331	-118.894609	72-34				
02986052	N	A	Vintage Production California LLC	34	11N	19W	34.9988	-118.896183	22-34				
03000853	N	A	E & B Natural Resources Management Corporation	34	11N	19W	34.993775	-118.891808	34-44X				
03002007	N	A	Vintage Production California LLC	32	11N	19W	34.988018	-118.923112	104-32				
03011842	N	A	Vintage Production California LLC	32	11N	19W	34.984789	-118.924076	HRP 1	5/31/1998	2815		8/10/1998
03020751	N	A	Vintage Production California LLC	32	11N	19W	34.989721	-118.926028	1H				
03020984	N	A	Vintage Production California LLC	32	11N	19W	34.989718	-118.926036	1H				
03021006	N	A	Vintage Production California LLC	32	11N	19W	34.987462	-118.919301	10H-32				
03022876	N	A	Vintage Production California LLC	32	11N	19W	34.999542	-118.930445	31X-32	8/21/2003	8500		
03024535	N	A	Vintage Production California LLC	32	11N	19W	34.984777	-118.925252	8H-32				

CALIFORNIA DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

GRAPEVINE PROJECT AREA WELL DATABASE

APINumber	DryHole	StatusCode	OperatorName	Section	Township	Range	Latitude	Longitude	WellNumber	SPUDDate	DepthAmount	AbandonedDate	CompletionDate
03031235	N	A	Vintage Production California LLC	34	11N	19W	34.999476	-118.894899	22EH-34	11/6/2006	7303		12/3/2006
03031771	N	A	Vintage Production California LLC	32	11N	19W	34.986569	-118.926143	13H-32	12/11/2007	3899		12/25/2009
03031234	N	A	Vintage Production California LLC	34	11N	19W	34.99868452	-118.8912344	52B-34				
03031717	N	A	Vintage Production California LLC	32	11N	19W	34.98561333	-118.926027	15H-32				
03031718	N	A	Vintage Production California LLC	32	11N	19W	34.99100005	-118.925368	4H-32				
03031720	N	A	Vintage Production California LLC	32	11N	19W	34.99260397	-118.925421	3H-32				
03033234	N	A	Vintage Production California LLC	34	11N	19W	34.99910062	-118.895702	32H-34	7/19/2007	4361		7/31/2007
03033235	N	A	Vintage Production California LLC	34	11N	19W	34.99779493	-118.8913084	42X-34				
03036347	N	A	Vintage Production California LLC	32	11N	19W	34.99103005	-118.9229739	22H-32				
03036349	N	A	Vintage Production California LLC	32	11N	19W	34.98765323	-118.9245449	24H-32				
03036350	N	A	Vintage Production California LLC	32	11N	19W	34.98528063	-118.9205213	28H-32				
03037072	N	A	Vintage Production California LLC	32	11N	19W	34.98505536	-118.9215928	25H-32				
03037158	N	A	Vintage Production California LLC	32	11N	19W	34.98477038	-118.9256349	12H-32	9/23/2008	4177		10/1/2008
03037160	N	A	Vintage Production California LLC	32	11N	19W	34.98843218	-118.9182307	27H-32	9/11/2008	4080		9/22/2009
03037161	N	A	Vintage Production California LLC	32	11N	19W	34.9848774	-118.9190562	29H-32	10/4/2008	4185		10/16/2008
03037650	N	A	Vintage Production California LLC	32	11N	19W	34.99113204	-118.9206358	22BH-32	10/25/2008	3999		11/4/2008
03037966	N	A	Vintage Production California LLC	32	11N	19W	34.98504536	-118.9213368	30H-32	12/28/2008	4795		1/9/2009
03037967	N	A	Vintage Production California LLC	32	11N	19W	34.98786883	-118.9181894	31H-32	12/11/2008	4196		12/27/2008
03041320	N	N	Vintage Production California LLC	32	11N	19W	34.99067795	-118.9242958	35H-32	9/4/2010	4422		9/13/2010
03041505	N	N	Vintage Production California LLC	32	11N	19W	34.99070076	-118.9247264	36H-32	8/16/2010	3966		9/8/2010
03041506	N	N	Vintage Production California LLC	32	11N	19W	34.9861483	-118.9228382	37H-32	9/13/2010	4125		3/6/2012
03042074	N	N	Vintage Production California LLC	32	11N	19W	34.991894	-118.920746	39H-32	11/26/2010	4425		12/9/2010
03042204	N	N	Vintage Production California LLC	32	11N	19W	34.99158055	-118.918929	38H-32	1/25/2011	4535		2/11/2011
03044145	N	N	Vintage Production California LLC	32	11N	19W	34.99070475	-118.9186466	47H-32	8/24/2011	4089		
03044317	N	N	Vintage Production California LLC	32	11N	19W	34.992187	-118.920514	48H-32	7/10/2011	4233		7/29/2011
03044320	N	N	E & B Natural Resources Management Corporation	34	11N	19W	34.994688	-118.89442	18-34				
03044443	N	N	Vintage Production California LLC	32	11N	19W	34.98805807	-118.9192126	53H-32	8/16/2011	4421		8/22/2011
03044444	N	N	Vintage Production California LLC	32	11N	19W	34.98611473	-118.9250339	54H-32	7/26/2011			
03044930	N	N	Vintage Production California LLC	32	11N	19W	34.98937999	-118.9256672	2H-32	10/18/2011	6122		11/15/2011
03045166	N	N	Vintage Production California LLC	32	11N	19W	34.988715	-118.918238	56H-32	10/12/2011	4760		10/21/2011
03045349	N	N	Vintage Production California LLC	33	11N	19W	34.98798602	-118.9052567	1H-33	11/21/2011	6739		12/9/2011
03047145	N	N	Vintage Production California LLC	33	11N	19W	34.99025354	-118.9079516	57X-33	3/29/2012	5355		5/3/2012
03048376	N	A	Vintage Production California LLC	33	11N	19W	34.98994056	-118.9052228	66X-33	8/11/2012	5152		9/21/2012
03048400	N	A	Vintage Production California LLC	32	11N	19W	34.98931779	-118.9192173	87X-32	8/23/2012	5205		10/4/2012
03050686	N	N	Vintage Production California LLC	32	11N	19W	34.985266	-118.922984	67H-32				
03050806	N	N	Vintage Production California LLC	33	11N	19W	34.989913	-118.903413	76X-33				

LIST OF AGRICULTURAL CHEMICALS USED
(Provided by Tejon Ranch Company)

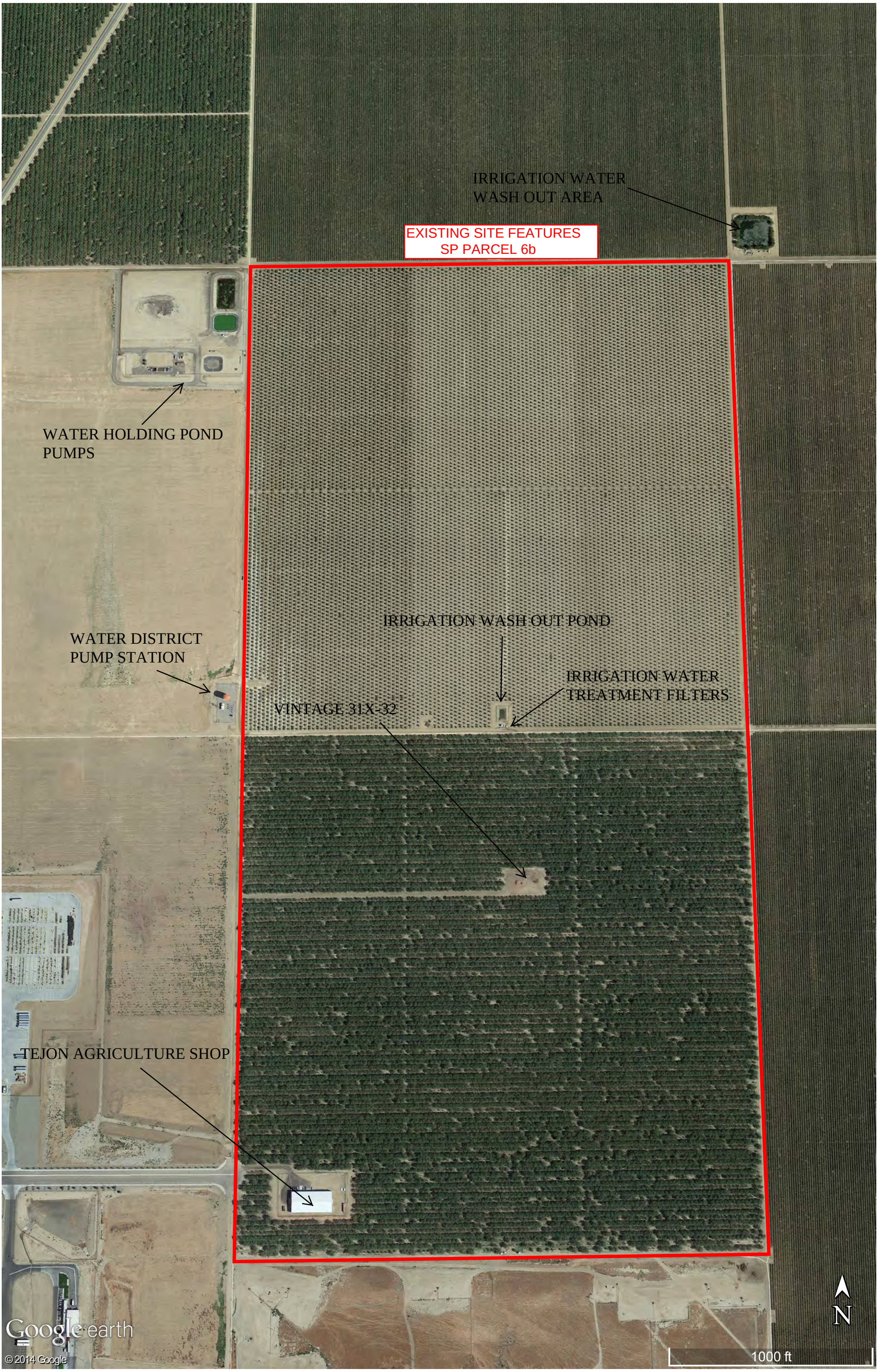
Chemical Name	Classification	Crop
Britz 415 Supreme Spray Oil	surfactant	almonds
Britz Supreme Spray oil	insecticide/surfactant	almonds
Abound	fungicide	almonds/winegrapes
Acramite 50 ws	insecticide	almonds
Agri-mek SC	insecticide	almonds
Altacor	insecticide	almonds/winegrapes
Asana XL	insecticide	almonds
Assail 30 SG	insecticide	winegrapes
Aquamaster	herbicide	for aquatic areas
Brigade WSB	insecticide	almonds
Buctril 4ec	herbicide	pastures
Cayuse Plus	surfactant for herbicides	all crops
Chateau WDG	herbicide	almonds/pistachios
Clarity	herbicide	alfalfa
Clinch ant bait	insecticide	almonds
Clutch 50 WDG	insecticide	winegrapes
Crop Oil Concentrate PHT	surfactant	all crops
Crop oil concentrate (monterey)	surfactant	all crops
Deadline bullets	insecticide	landscaping
Dusting sulfur (wilbur ellis company)	fungicide	winegrapes
Entry PHT	surfactant	all crops
Epi-mek 0.15 ec	insecticide	almonds
Extinguish Plus	insecticide	almonds
FanFare 2ec	insecticide	almonds/pistachios
Faststrike PHT	surfactant	all crops
Flint	fungicide	winegrapes
Fujimite 5ec	insecticide	almonds
Fusilade DX	herbicide	almonds/winegrapes
Galigan 2e	herbicide	all crops
Goal 2xl	herbicide	all crops
wilco Gopher Getter 1.8%	rodenticide	pistachios
Gramoxone SL	herbicide	all crops
Govern 4e	insecticide	almonds/winegrapes
Hi-Wett super spreader	surfactant	all crops
Kaligreen	fungicide	winegrapes
Kocide 3000	fungicide	winegrapes
Latron B-1956	surfactant	all crops
Lorsban Advanced	insecticide	almonds/winegrapes
Matrix sg	herbicide	all crops
Microthiol Disperss	fungicide	winegrapes/pistachios
Montana 2F	insecticide	winegrapes
montana 4F	insecticide	winegrapes
Movento	insecticide	winegrapes
MSO concentrate (loveland)	surfactant	all crops
Nu Film P	surfactant	almonds
Nu film 17	surfactant	almonds
Omite 6E	insecticide	almonds

LIST OF AGRICULTURAL CHEMICALS USED
(Provided by Tejon Ranch Company)

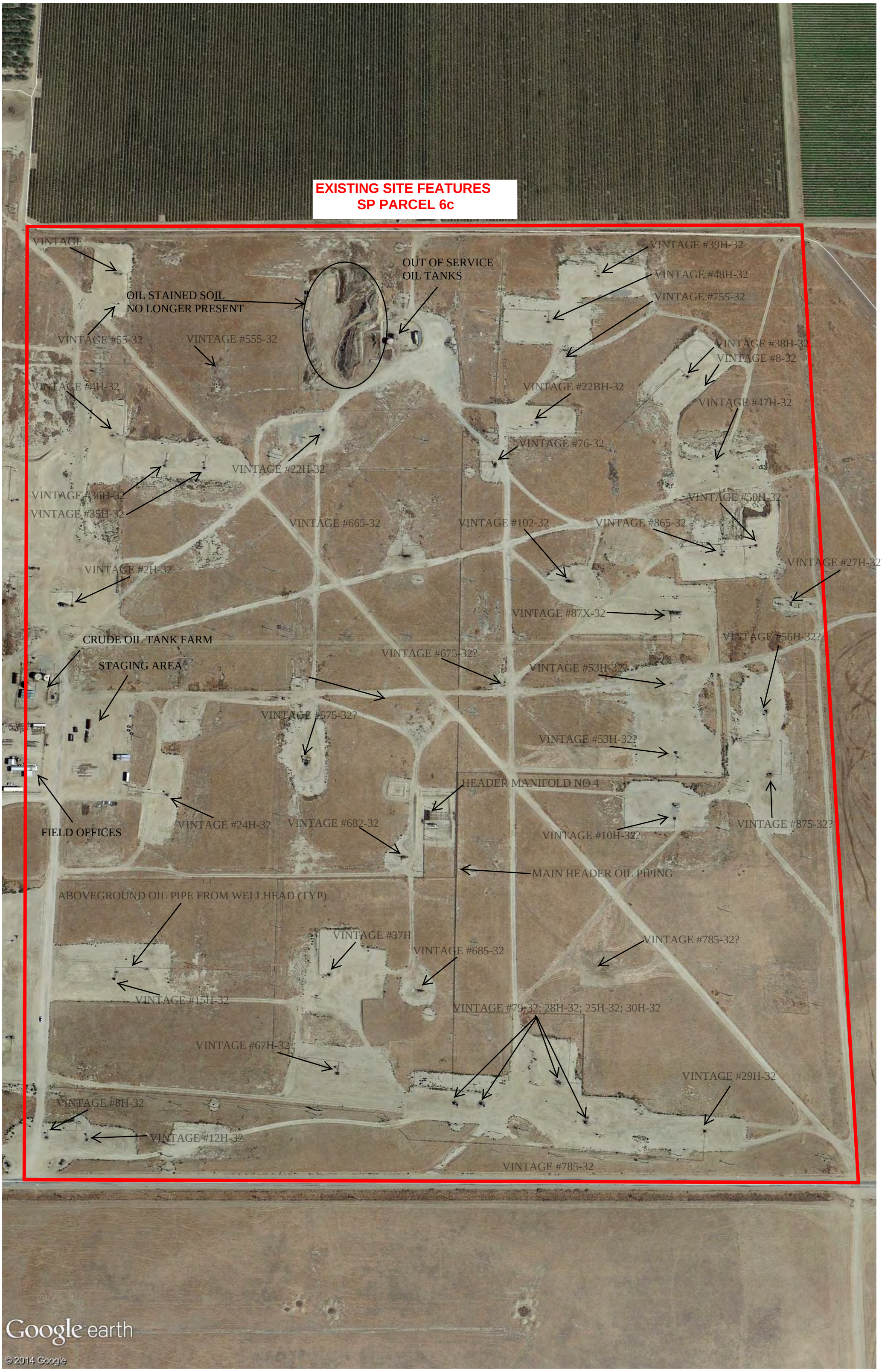
Chemical Name	Classification	Crop
Onager	insecticide	almonds/winegrapes
Orbit	fungicide	almonds
Oryzalin 4 a.s.	herbicide	all crops
PCQ	rodenticide	all crops
Permethrin 3.2 ec (tenkoz)	insecticide	almonds/pistachios
Perm up 3.2 ec (united phosphorus Inc)	insecticide	almonds/pistachios
Pristine	fungicide	almonds/winegrapes
Proclaim	insecticide	almonds
Prowl H2O	herbicide	all crops
Quadris Top	fungicide	almonds/winegrapes
Quash	fungicide	all crops
Quintec	fungicide	winegrapes
Rally 40 wsp	fungicide	winegrapes
Ramik	rodenticide	all crops
Rely 280	herbicide	all crops
Rhomene MCPA	herbicide	alfalfa
Roundup Powermax	herbicide	all crops
Rovral 4 flowable (bayer)	fungicide	almonds
Sevin 5 Bait	insecticide	winegrapes
Shark ew	herbicide	all crops
Success naturalyte	insecticide	almonds/winegrapes
Surflan a.s.	herbicide	all crops
Tebustar 45 wsp	fungicide	winegrapes
Tilt	fungicide	almonds
Touchdown Total	herbicide	all crops
Trimec plus	herbicide	landscaping
Turismo	insecticide	all crops
Vangard wg	fungicide	all crops
Venue	herbicide	all crops
Vintre	surfactant	all crops
Vigilant 4sc	insecticide	almonds
Weevil-cide tablets	rodenticide	all crops
Widespread max	surfactant for herbicides	all crops
Zeal	insecticide	almonds/winegrapes

EXHIBIT #3

EXISTING SITE FEATURES – GRAPEVINE OIL & GAS PARCELS


IRRIGATION WATER
WASH OUT AREA
EXISTING SITE FEATURES
SP PARCEL 6b
WATER HOLDING POND
PUMPS
WATER DISTRICT
PUMP STATION
IRRIGATION WASH OUT POND
IRRIGATION WATER
TREATMENT FILTERS
VINTAGE 31X-32
TEJON AGRICULTURE SHOP
Google earth
© 2014 Google
1000 ft
N

EXISTING SITE FEATURES
SP PARCEL 6c



EXISTING SITE FEATURES
SP PARCEL 6d

WOOD PALLET STORAGE

ABANDONED SHED

FARM OPERATION

VINTAGE 57X-33

5 BAKER TANKS FOR CRUDE OIL

VINTAGE 66X-33

FARM OPERATION

VINATGE 1H-33

FARM OPERATION

LAVAL ROAD

Google earth

© 2014 Google

N

1000 ft

EXISTING SITE FEATURES
SP PARCEL 6e

RECENTLY GRADED AREA

VINTAGE 32H-34

VINTAGE 22EH-34

VINATAGE 22-34

VINTAGE 52B-34

MISSION B HEADER
THREE 1,500 CRUDE OIL TANKS

TWO 1,100 GAL CRUDE OIL TANKS

OLD HEADER

VINATGE 42X-34

TWO 250 BBL CRUDE OIL TANKS

WATER DISTRICT PUMP STATION

THREE 1,500 BBL CRUDE OIL TANKS

SOIL STOCKPILES

E&B #2

E&B 34-9

E&B 34-44X

E&B 34-14

LAVAL ROAD

FARM OPERATION

Google earth

© 2014 Google

N

1000 ft

EXHIBIT #4

EDR RADIUS MAP SEARCH

EDR DataMap® - Environmental Atlas

Tejon Grapevine Project



Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Study Boundary
- Fault Lines
- Pipelines
- Powerlines
- Railroads
- Water
- Superfund Sites
- Federal DOD Sites
- Indian Reservations BIA
- Listed Sites
- Earthquake Epicenters (Richter 5 or greater)

589 1348 2106 2865 3624 4382 5141

Elevation in Feet

0 1/4 1/2 1

Scale in Miles

N

EDR® Environmental Data Resources Inc

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Tejon Grapevine Project
Kern, CA

Inquiry Number: 3915915.2s
April 21, 2014

EDR DataMap™ Environmental Atlas™

Environmental Data Resources Inc

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Shelton, CT 06484
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Please contact EDR at 1-800-352-0050
with any questions or comments.

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FOCUS MAP SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	1
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	1
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	1
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	3
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	170
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	1
SWRCY	0
LUST	3
CA FID UST	0
SLIC	2
UST	5
HIST UST	1
LIENS	0
CUPA Listings	0
SWEEPS UST	2
CHMIRS	1
LDS	0
MCS	0
AST	2
Notify 65	0
DEED	0
VCP	1
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	10
EMI	6
ENVIROSTOR	2
HAULERS	0
RGA LUST	2
RGA LF	0
PROC	0
HWP	1
HWT	0
MWMP	0

FOCUS MAP SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	5
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

KERN, CA
TEHACHAPI, CA 93203

DATABASES WITH NO MAPPED SITES

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

FEDERAL 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
LIENS 2	CERCLA Lien Information
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
RCRA NonGen / NLR	RCRA - Non Generators
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
HMIRS	Hazardous Materials Information Reporting System
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
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)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System

RADINFO - Radiation Information Database
RAATS - RCRA Administrative Action Tracking System
RMP - Risk Management Plans
PRP - Potentially Responsible Parties
US AIRS - Aerometric Information Retrieval System Facility Subsystem
EPA WATCH LIST - EPA WATCH LIST
LEAD SMELTERS - Lead Smelter Sites
2020 COR ACTION - 2020 Corrective Action Program List
COAL ASH DOE - Steam-Electric Plant Operation Data
SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing
FEDERAL FACILITY - Federal Facility Site Information listing
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
US FIN ASSUR - Financial Assurance Information
US HIST CDL - National Clandestine Laboratory Register
PCB TRANSFORMER - PCB Transformer Registration Database
FEMA UST - Underground Storage Tank Listing

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
SWF/LF - Solid Waste Information System
WMUDS/SWAT - Waste Management Unit Database
WDS - Waste Discharge System
NPDES - NPDES Permits Listing
Cortese - "Cortese" Hazardous Waste & Substances Sites List
SWRCY - Recycler Database
CA FID UST - Facility Inventory Database
LIENS - Environmental Liens Listing
CUPA Listings - CUPA Resources List
LDS - Land Disposal Sites Listing
MCS - Military Cleanup Sites Listing
Notify 65 - Proposition 65 Records
DEED - Deed Restriction Listing
DRYCLEANERS - Cleaner Facilities
WIP - Well Investigation Program Case List
CDL - Clandestine Drug Labs
ENF - Enforcement Action Listing
RESPONSE - State Response Sites
HAULERS - Registered Waste Tire Haulers Listing
RGA LF - Recovered Government Archive Solid Waste Facilities List
PROC - Certified Processors Database
HWT - Registered Hazardous Waste Transporter Database
MWMP - Medical Waste Management Program Listing

TRIBAL RECORDS

INDIAN RESERV - Indian Reservations
INDIAN ODI - Report on the Status of Open Dumps on Indian Lands
INDIAN LUST - Leaking Underground Storage Tanks on Indian Land
INDIAN UST - Underground Storage Tanks on Indian Land
INDIAN VCP - Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

EDR MGP - EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

The Map ID column refers to the Map ID-Focus Map(s) of the listed site.

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

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

FEDERAL RECORDS

RCRA-LQG: 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. 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 RCRA-LQG site within the searched area.

Site	Address	Map ID
DEPT. OF WATER RESOURCES	39000 EDMONSTON PUMPING	144-25

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

A review of the ERNS list, as provided by EDR, and dated 09/30/2013 has revealed that there is 1 ERNS site within the searched area.

Site	Address	Map ID
Not reported	9068 W. GRAPEVINE RD	147-21

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, and dated 08/01/2013 has revealed that there is 1 US MINES site within the searched area.

Site	Address	Map ID
GRIFFITH COMPANY		151-23

EXECUTIVE SUMMARY

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

A review of the FINDS list, as provided by EDR, and dated 11/18/2013 has revealed that there are 3 FINDS sites within the searched area.

Site	Address	Map ID
LAVAL FARMS LIMITED PARTNERSHI	4358 LAVAL ROAD	110-10
CONOCOPHILLIPS COMPANY - 25758	9058 MOUNTAIN BASE RD	148-21
TEJON MOBIL	9012 GRAPEVINE RD	150-21

STATE AND LOCAL RECORDS

UIC: A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

A review of the UIC list, as provided by EDR, and dated 09/25/2013 has revealed that there are 170 UIC sites within the searched area.

Site	Address	Map ID
RESERVE OIL, INC.		1-5
VINTAGE PRODUCTION CALIFORNIA		2-4
RESERVE OIL, INC.		3-4
ARCO WESTERN ENERGY		4-6
VINTAGE PRODUCTION CALIFORNIA		5-6
VINTAGE PRODUCTION CALIFORNIA		6-6
VINTAGE PRODUCTION CALIFORNIA		7-6
VINTAGE PRODUCTION CALIFORNIA		8-6
ARCO WESTERN ENERGY		9-6
ARCO WESTERN ENERGY		10-6
VINTAGE PRODUCTION CALIFORNIA		11-6
VINTAGE PRODUCTION CALIFORNIA		12-4,5
VINTAGE PRODUCTION CALIFORNIA		13-6
RESERVE OIL, INC.		14-6
VINTAGE PRODUCTION CALIFORNIA		15-6
VINTAGE PRODUCTION CALIFORNIA		15-6
VINTAGE PRODUCTION CALIFORNIA		16-6
VINTAGE PRODUCTION CALIFORNIA		17-6
VINTAGE PRODUCTION CALIFORNIA		18-6
ARCO WESTERN ENERGY		19-5
VINTAGE PRODUCTION CALIFORNIA		20-6
VINTAGE PRODUCTION CALIFORNIA		21-6
VINTAGE PRODUCTION CALIFORNIA		22-6
VINTAGE PRODUCTION CALIFORNIA		23-6
VINTAGE PRODUCTION CALIFORNIA		24-6
ARCO WESTERN ENERGY		25-5,10
VINTAGE PRODUCTION CALIFORNIA		26-6,11
PENNANT PETROLEUM CORP.		27-6,11

EXECUTIVE SUMMARY

Site	Address	Map ID
PENNANT PETROLEUM CORP.		28-6,11
E & B NATURAL RESOURCES MANAGE		29-6,11
PENNANT PETROLEUM CORP.		30-6,11
PENNANT PETROLEUM CORP.		31-6,11
ARCO WESTERN ENERGY		32-6,11
ARCO WESTERN ENERGY		33-6,11
ARCO WESTERN ENERGY		34-5,10
E & B NATURAL RESOURCES MANAGE		35-11
E & B NATURAL RESOURCES MANAGE		36-11
PENNANT PETROLEUM CORP.		37-11
PENNANT PETROLEUM CORP.		37-11
PENNANT PETROLEUM CORP.		38-11
PENNANT PETROLEUM CORP.		38-11
E & B NATURAL RESOURCES MANAGE		39-11
PENNANT PETROLEUM CORP.		40-11
PENNANT PETROLEUM CORP.		41-11
E & B NATURAL RESOURCES MANAGE		41-11
E & B NATURAL RESOURCES MANAGE		42-11
VINTAGE PRODUCTION CALIFORNIA		43-11
VINTAGE PRODUCTION CALIFORNIA		44-10
ARCO WESTERN ENERGY		45-11
VINTAGE PRODUCTION CALIFORNIA		46-10
VINTAGE PRODUCTION CALIFORNIA		47-10
RESERVE OIL, INC.		48-11
VINTAGE PRODUCTION CALIFORNIA		49-10
VINTAGE PRODUCTION CALIFORNIA		49-10
RESERVE OIL, INC.		50-11
ARCO WESTERN ENERGY		51-11
ARCO WESTERN ENERGY		52-10,11
VINTAGE PRODUCTION CALIFORNIA		53-10
VINTAGE PRODUCTION CALIFORNIA		53-10
VINTAGE PRODUCTION CALIFORNIA		53-10
VINTAGE PRODUCTION CALIFORNIA		54-11
VINTAGE PRODUCTION CALIFORNIA		55-10,11
VINTAGE PRODUCTION CALIFORNIA		56-10
VINTAGE PRODUCTION CALIFORNIA		57-10
VINTAGE PRODUCTION CALIFORNIA		58-10
VINTAGE PRODUCTION CALIFORNIA		59-10
VINTAGE PRODUCTION CALIFORNIA		60-10
VINTAGE PRODUCTION CALIFORNIA		60-10
VINTAGE PRODUCTION CALIFORNIA		61-10
VINTAGE PRODUCTION CALIFORNIA		61-10
RESERVE OIL, INC.		62-10,11
RESERVE OIL, INC.		63-10,11
VINTAGE PRODUCTION CALIFORNIA		63-10,11
VINTAGE PRODUCTION CALIFORNIA		64-11
VINTAGE PRODUCTION CALIFORNIA		65-10
VINTAGE PRODUCTION CALIFORNIA		66-10
VINTAGE PRODUCTION CALIFORNIA		66-10
VINTAGE PRODUCTION CALIFORNIA		67-10
VINTAGE PRODUCTION CALIFORNIA		67-10
VINTAGE PRODUCTION CALIFORNIA		68-11
VINTAGE PRODUCTION CALIFORNIA		69-10
VINTAGE PRODUCTION CALIFORNIA		70-11
VINTAGE PRODUCTION CALIFORNIA		71-10
VINTAGE PRODUCTION CALIFORNIA		72-10

EXECUTIVE SUMMARY

Site	Address	Map ID
VINTAGE PRODUCTION CALIFORNIA		73-11
VINTAGE PRODUCTION CALIFORNIA		74-11
VINTAGE PRODUCTION CALIFORNIA		75-11
PAULEY PETROLEUM INC.		76-10,11
VINTAGE PRODUCTION CALIFORNIA		77-10
VINTAGE PRODUCTION CALIFORNIA		77-10
VINTAGE PRODUCTION CALIFORNIA		78-10
VINTAGE PRODUCTION CALIFORNIA		79-10
VINTAGE PRODUCTION CALIFORNIA		79-10
VINTAGE PRODUCTION CALIFORNIA		79-10
VINTAGE PRODUCTION CALIFORNIA		80-10
VINTAGE PRODUCTION CALIFORNIA		80-10
VINTAGE PRODUCTION CALIFORNIA		81-10
VINTAGE PRODUCTION CALIFORNIA		81-10
VINTAGE PRODUCTION CALIFORNIA		81-10
RESERVE OIL, INC.		82-10,11
RESERVE OIL, INC.		83-11
VINTAGE PRODUCTION CALIFORNIA		84-11
VINTAGE PRODUCTION CALIFORNIA		85-10
VINTAGE PRODUCTION CALIFORNIA		86-10
THE PETROL CORP.		87-11
VINTAGE PRODUCTION CALIFORNIA		88-11
VINTAGE PRODUCTION CALIFORNIA		89-10
VINTAGE PRODUCTION CALIFORNIA		90-10
VINTAGE PRODUCTION CALIFORNIA		90-10
VINTAGE PRODUCTION CALIFORNIA		91-10
VINTAGE PRODUCTION CALIFORNIA		92-10
VINTAGE PRODUCTION CALIFORNIA		93-10
VINTAGE PRODUCTION CALIFORNIA		94-10
VINTAGE PRODUCTION CALIFORNIA		95-10
VINTAGE PRODUCTION CALIFORNIA		96-10
VINTAGE PRODUCTION CALIFORNIA		97-10
VINTAGE PRODUCTION CALIFORNIA		97-10
VINTAGE PRODUCTION CALIFORNIA		98-11
VINTAGE PRODUCTION CALIFORNIA		99-10
VINTAGE PRODUCTION CALIFORNIA		100-10,11
VINTAGE PRODUCTION CALIFORNIA		101-10
VINTAGE PRODUCTION CALIFORNIA		102-10
VINTAGE PRODUCTION CALIFORNIA		102-10
RESERVE OIL, INC.		103-11
EDWIN W. PAULEY		104-11
RESERVE OIL, INC.		105-11
VINTAGE PRODUCTION CALIFORNIA		106-10
VINTAGE PRODUCTION CALIFORNIA		107-10
VINTAGE PRODUCTION CALIFORNIA		108-10
VINTAGE PRODUCTION CALIFORNIA		109-10
VINTAGE PRODUCTION CALIFORNIA		109-10
VINTAGE PRODUCTION CALIFORNIA		111-10
VINTAGE PRODUCTION CALIFORNIA		112-10
VINTAGE PRODUCTION CALIFORNIA		113-10
VINTAGE PRODUCTION CALIFORNIA		114-10
VINTAGE PRODUCTION CALIFORNIA		115-10
VINTAGE PRODUCTION CALIFORNIA		116-10
VINTAGE PRODUCTION CALIFORNIA		117-10
VINTAGE PRODUCTION CALIFORNIA		117-10
VINTAGE PRODUCTION CALIFORNIA		118-10

EXECUTIVE SUMMARY

Site	Address	Map ID
VINTAGE PRODUCTION CALIFORNIA		118-10
VINTAGE PRODUCTION CALIFORNIA		118-10
VINTAGE PRODUCTION CALIFORNIA		118-10
VINTAGE PRODUCTION CALIFORNIA		119-10
VINTAGE PRODUCTION CALIFORNIA		120-10
VINTAGE PRODUCTION CALIFORNIA		121-10
VINTAGE PRODUCTION CALIFORNIA		122-10
VINTAGE PRODUCTION CALIFORNIA		122-10
CHEVRON U.S.A. INC.		124-9
CHEVRON U.S.A. INC.		125-10
CHEVRON U.S.A. INC.		126-9
CHEVRON U.S.A. INC.		127-10
THE DOW CHEMICAL COMPANY		128-10,15
DRILLING & PRODUCTION CO.		129-14
ARCO WESTERN ENERGY		130-15
101 OIL CO.		131-14
ARCO WESTERN ENERGY		132-14
ARCO WESTERN ENERGY		133-15
ARCO WESTERN ENERGY		134-14
ARCO WESTERN ENERGY		135-14
ARCO WESTERN ENERGY		136-15
ARCO WESTERN ENERGY		137-14,21
PHILLIPS PETROLEUM COMPANY		138-21
ARCO WESTERN ENERGY		139-21
ARCO WESTERN ENERGY		140-21
ARCO WESTERN ENERGY		141-22
L. M. HAMPTON		142-22
ARCO WESTERN ENERGY		143-21
A. M. VAN FLICK		145-22
DRILLING & PRODUCTION CO.		152-24

HIST CORTESE: 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 [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within the searched area.

Site	Address	Map ID
UNOCAL #4734	***9068 GRAPEVINE RD W***	***147-21***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/16/2013 has revealed that there are 3 LUST sites within the searched area.

Site	Address	Map ID
GRAPEVINE SHELL Status: Completed - Case Closed	9067 GRAPEVINE RD EAST	146-22

EXECUTIVE SUMMARY

Site	Address	Map ID
UNOCAL #4734	***9068 GRAPEVINE RD W***	***147-21***
Status: Completed - Case Closed		
TEXACO #610580050	9069 GRAPEVINE W	147-21
Status: Completed - Case Closed		

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/16/2013 has revealed that there are 2 SLIC sites within the searched area.

Site	Address	Map ID
MOBIL GRAPEVINE PUMPING STATIO	8070 GRAPEVINE RD.	155-29
Facility Status: Open - Site Assessment		
EMERGENCY TRUCK ESCAPE RAMP	GRAPEVINE	157-29
Facility Status: Open - Site Assessment		

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 12/16/2013 has revealed that there are 5 UST sites within the searched area.

Site	Address	Map ID
SHELL STATION	9067 GRAPEVINE RD EAST	146-22
GRAPEVINE TEXACO	9069 W GRAPEVINE RD	147-21
LEBEC SHELL	9069 GRAPEVINE RD WEST	147-21
GAS AMERICA CORP #7580	9058 MOUNTAIN BASE RD	148-21
CHASE INC MOBIL	9012 GRAPEVINE RD E	149-22

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within the searched area.

Site	Address	Map ID
UNION OIL SS #4734	HIGHWAY 99 & GRAPEVINE	156-29

EXECUTIVE SUMMARY

SWEEPS UST: 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 1990'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.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within the searched area.

Site	Address	Map ID
UNOCAL	9068 W GRAPEVINE RD	147-21
CHEVRON #8616	8977 GRAPEVINE RD	153-22

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 10/14/2013 has revealed that there is 1 CHMIRS site within the searched area.

Site	Address	Map ID
Not reported	5236 LAVAL RD	123-10

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 2 AST sites within the searched area.

Site	Address	Map ID
TUT BROTHERS	4358 LAVAL	110-10
EXXONMOBIL OIL CORP - GRAPEVIN	7815 GRAPEVINE	158-29

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 03/12/2014 has revealed that there is 1 VCP site within the searched area.

Site	Address	Map ID
LAVAL FARMS LIMITED PARTNERSHI	***4358 LAVAL ROAD***	***110-10***

EXECUTIVE SUMMARY

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2012 has revealed that there are 10 HAZNET sites within the searched area.

Site	Address	Map ID
LAVAL FARMS LIMITED PARTNERSHP	4358 LAVAL RD	110-10
TUT BRO FARM	4358 LAVAL RD	110-10
TEJON AGRICULTURAL PARTNERS	4358 LAVAL ROAD	110-10
LAVAL FARM LIMITED PARTNERSHIP	4358 LAVAL RD	110-10
TEJON RANCHCORP	9067 GRAPEVINE RD EAST	146-22
CONOCO PHILLIPS # 257580	9058 MOUNTAIN BASE RD	148-21
UNOCAL SERVICE STATION #7580	9058 MOUNTAIN BASE RD	148-21
TOSCO CORP 31383	9058 MOUNTAIN BASE RD	148-21
TJON RANCH COMPANY	9021 GRAPEVINE RD E	149-22
CHEVRON	8977 GRAPEVINE ST	153-22

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

A review of the EMI list, as provided by EDR, and dated 12/31/2010 has revealed that there are 6 EMI sites within the searched area.

Site	Address	Map ID
TUT BROTHERS & SONS INC	4358 LAVAL ROAD	110-10
TUT BROTHERS & SONS INC	4358 LAVAL ROAD	110-10
GRAPEVINE SHELL - SHELL OIL PR	9069 GRAPEVINE RD	147-21
EQUILON ENTERPRISES LLC	9069 GRAPEVINE ROAD	147-21
CONOCOPHILLIPS COMPANY - 25758	9058 MOUNTAIN BASE RD	148-21
TEJON MOBIL	9012 GRAPEVINE RD	150-21

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes 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.

A review of the ENVIROSTOR list, as provided by EDR, and dated 03/12/2014 has revealed that there are 2 ENVIROSTOR sites within the searched area.

Site	Address	Map ID
LAVAL FARMS LIMITED PARTNERSHI	***4358 LAVAL ROAD***	***110-10***
Status: Certified		

EXECUTIVE SUMMARY

Site	Address	Map ID
NORTHROP CORPORATION	***BLDG 1864 FORBES AVE***	***159-30***
Status: Refer: SMBRP		

RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

A review of the RGA LUST list, as provided by EDR, has revealed that there are 2 RGA LUST sites within the searched area.

Site	Address	Map ID
GRAPEVINE SHELL	9067 GRAPEVINE RD EAST	146-22
UNOCAL #4734	9068 GRAPEVINE RD W	147-21

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/24/2014 has revealed that there is 1 HWP site within the searched area.

Site	Address	Map ID
NORTHROP CORPORATION	***BLDG 1864 FORBES AVE***	***159-30***

EDR PROPRIETARY RECORDS

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Site	Address	Map ID
Not reported	9069 GRAPEVINE RD W	147-21
Not reported	9069 GRAPEVINE RD W	147-21
Not reported	9058 MOUNTAIN BASE RD	148-21
Not reported	9012 GRAPEVINE RD E	149-22
Not reported	8968 GRAPEVINE RD	154-22,29

EXECUTIVE SUMMARY

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

Section 1

Overview and Key Map

Overview Map



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Tejon Grapevine Project

EDR Environmental Data Resources Inc

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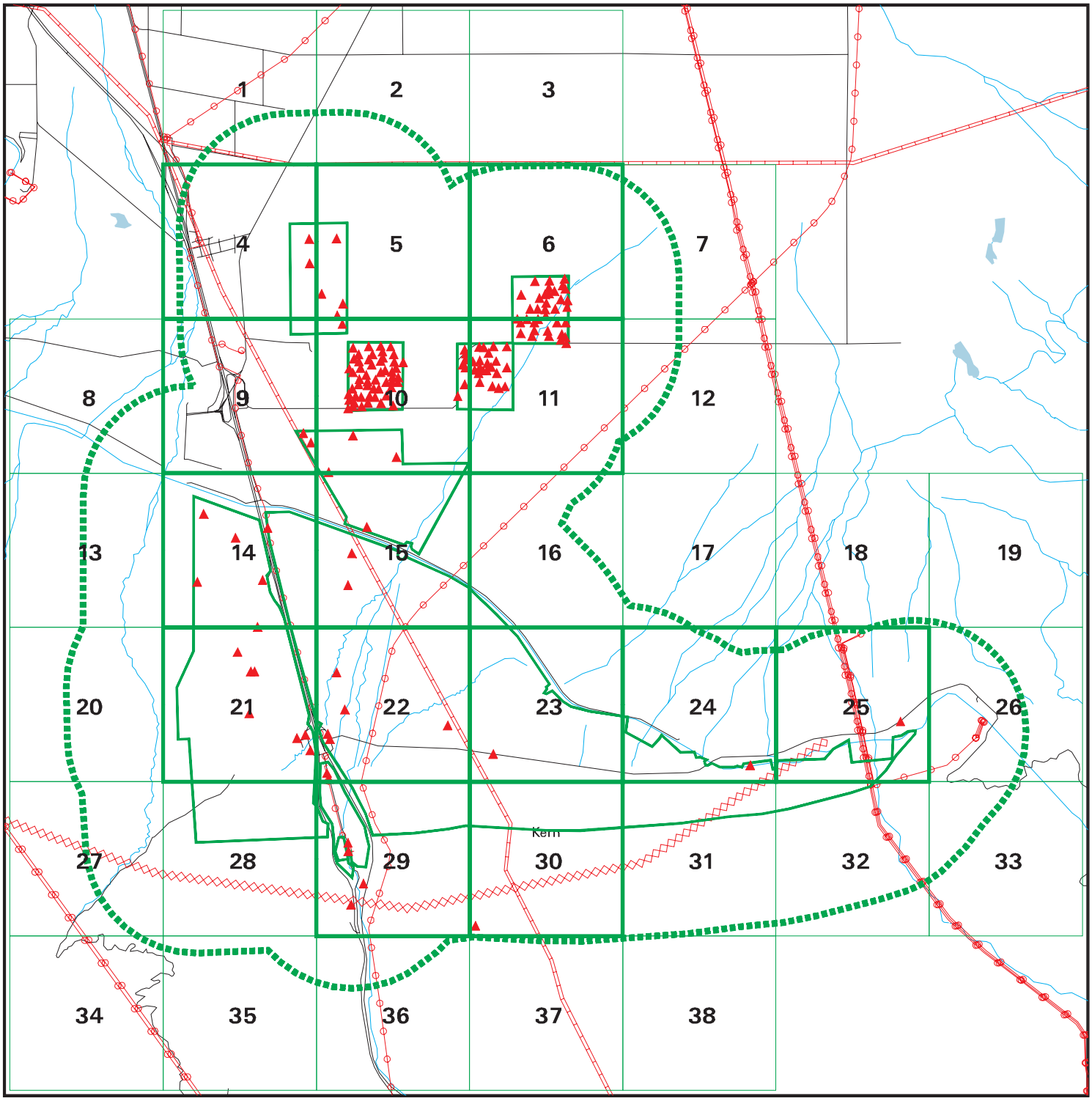
Key Map



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Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites

N

0 1 2

Scale in Miles

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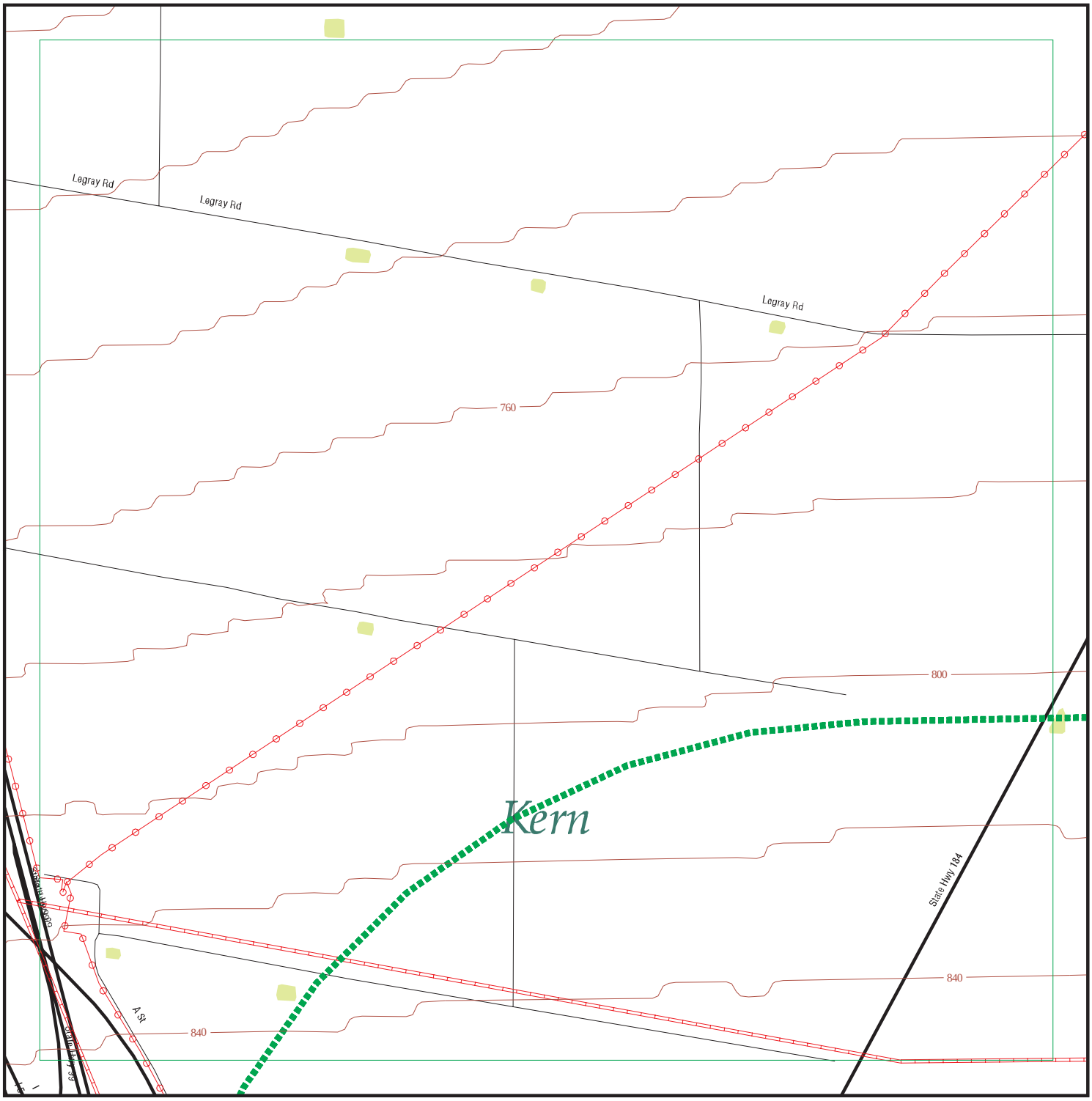
Section 2

Focus Maps and Findings

Focus Map 1



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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N

0 1/8 1/4

Scale in Miles

Count: 44 records

FOCUS MAP 1 ORPHAN SUMMARY

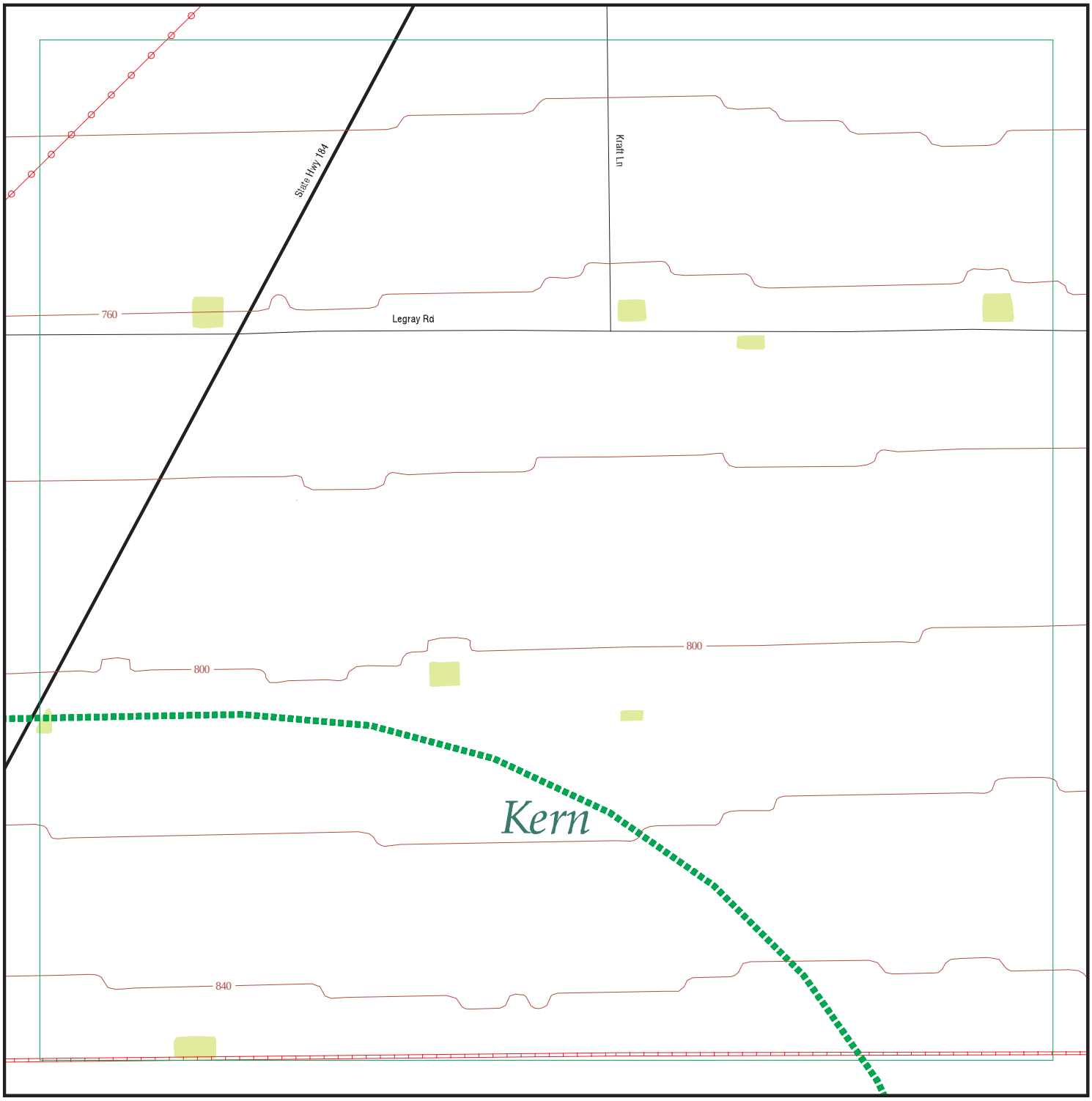
City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	A100337050	THREE CANDLES RANCH	LEGRAY RD.	93203	AST
ARVIN	A100339021	HALL FARMING	4450 LEGRAY RD 1/2 MI E KRAFT	93203	AST
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S101620457	BAKERSFIELD RANCH	RR 4 BOX 442 A	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584407	EDISON FIELD OFFICE	RR 5 BOX 474	93307	HIST UST, SWEEPS UST
BAKERSFIELD	U001584488	ROD MCLELLAN CO.	RR 5 BOX 548	93307	HIST UST
BAKERSFIELD	U001584442	K F LYTLE PRODUCTION SERVICE	RR 5 BOX 330	93307	HIST UST, SWEEPS UST
BAKERSFIELD	S106927830	JOANNA REED	RR 5 BOX 502	93307	SWEEPS UST
BAKERSFIELD	U001584477	RALPH H. MOSESIAN INCORPORATED	RR 5 BOX 369	93307	HIST UST
BAKERSFIELD	U001584399	CLENDENEN CHRISTMAS TREE FARM,	RR 5 BOX 351	93307	HIST UST
BAKERSFIELD	S106924716	CLENDENEN CHRISTMAS TREE FARM	RR 5 BOX 351	93307	SWEEPS UST
BAKERSFIELD	U001584440	JOANNA REED	RR 5 BOX 502	93307	HIST UST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584503	STEMDERUP AG PARTNERS	RR 6 BOX 249-A	93307	HIST UST
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	1000155626	MCFARLAND ENERGY TEN SECTION FLD	2 MI E HWY 5 PANAMA LN	93313	RCRA-SQG, FINDS
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST

Count: 44 records

FOCUS MAP 1 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE

Focus Map 2



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Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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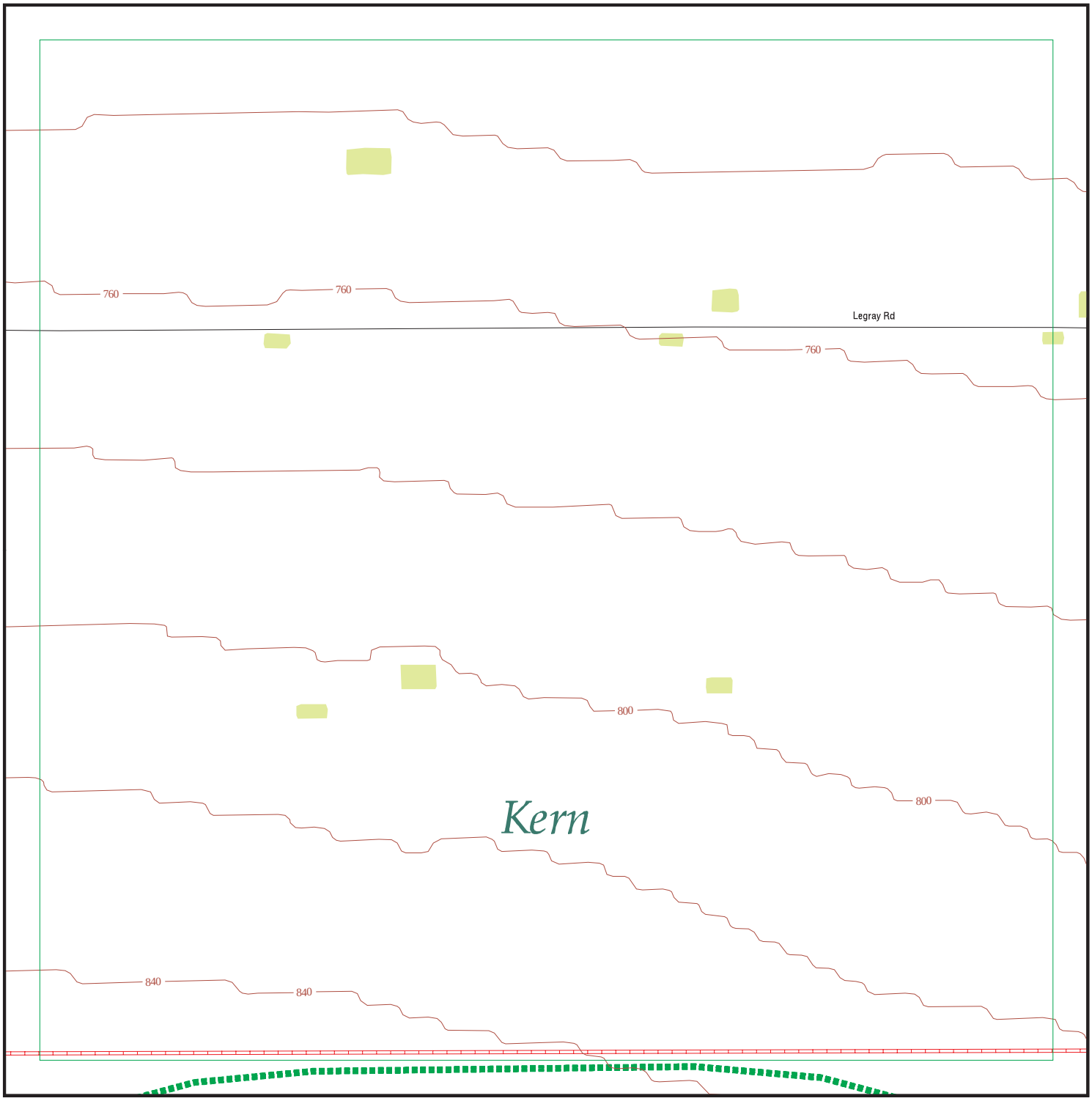
Count: 33 records

FOCUS MAP 2 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	A100337050	THREE CANDLES RANCH	LEGRAY RD.	93203	AST
ARVIN	A100339021	HALL FARMING	4450 LEGRAY RD 1/2 MI E KRAFT	93203	AST
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 3



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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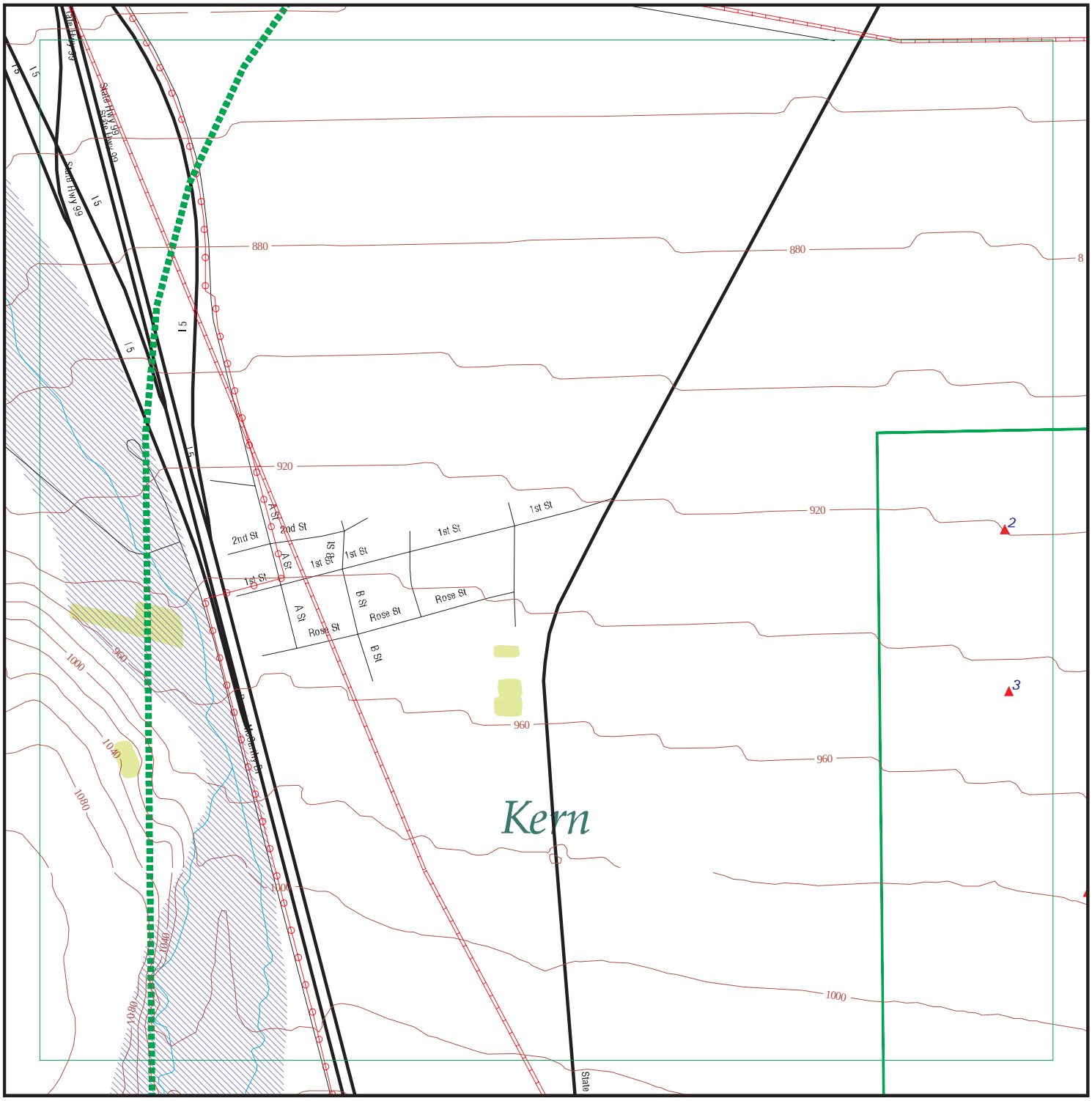
Count: 10 records

FOCUS MAP 3 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	A100337050	THREE CANDLES RANCH	LEGRAY RD.	93203	AST
ARVIN	A100339021	HALL FARMING	4450 LEGRAY RD 1/2 MI E KRAFT	93203	AST
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 4



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

FOCUS MAP 4 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 4 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	3
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 4 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
2	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111500409** **N/A**

KERN (County), CA

UIC:

API Number:	02920515
Confidential Well:	N
Well Number:	16-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	931 KB
Location Desc:	Fr SW cor 1810N 660E
GIS Source Code:	hud
Comments:	FR SW COR 1810N 660E
Latitude:	35.00673
Longitude:	-118.9324

3	**RESERVE OIL, INC.**	**UIC**	**S111500410** **N/A**

KERN (County), CA

UIC:

API Number:	02920516
Confidential Well:	N
Well Number:	18-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	957 KB
Location Desc:	Fr SW cor 660N 660E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	35.00352
Longitude:	-118.9323

12	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111586212** **N/A**

KERN (County), CA

UIC:

API Number:	03022876
Confidential Well:	N
Well Number:	31X-32
Direction:	Unknown
Lease Name:	Tejon Ranch

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111586212**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	987 KB
Location Desc:	Fr NW cor 798S 1460E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99954
Longitude:	-118.9304

Count: 44 records

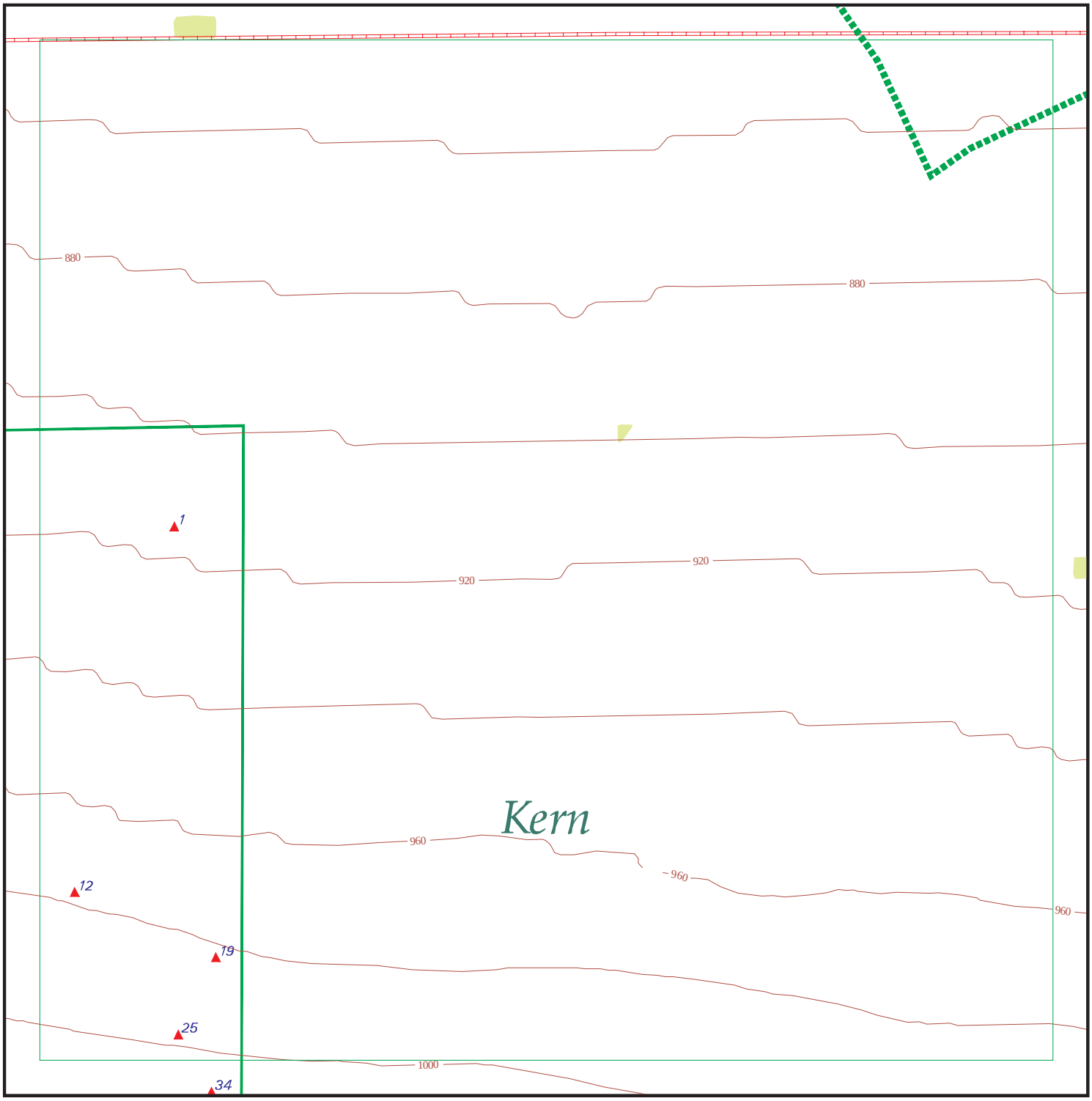
FOCUS MAP 4 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S101620457	BAKERSFIELD RANCH	RR 4 BOX 442 A	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584407	EDISON FIELD OFFICE	RR 5 BOX 474	93307	HIST UST, SWEEPS UST
BAKERSFIELD	U001584488	ROD MCLELLAN CO.	RR 5 BOX 548	93307	HIST UST
BAKERSFIELD	U001584442	K F LYTLE PRODUCTION SERVICE	RR 5 BOX 330	93307	HIST UST, SWEEPS UST
BAKERSFIELD	S106927830	JOANNA REED	RR 5 BOX 502	93307	SWEEPS UST
BAKERSFIELD	U001584477	RALPH H. MOSESIAN INCORPORATED	RR 5 BOX 369	93307	HIST UST
BAKERSFIELD	U001584399	CLENDENEN CHRISTMAS TREE FARM,	RR 5 BOX 351	93307	HIST UST
BAKERSFIELD	S106924716	CLENDENEN CHRISTMAS TREE FARM	RR 5 BOX 351	93307	SWEEPS UST
BAKERSFIELD	U001584440	JOANNA REED	RR 5 BOX 502	93307	HIST UST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584503	STEMDERUP AG PARTNERS	RR 6 BOX 249-A	93307	HIST UST
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	1000155626	MCFARLAND ENERGY TEN SECTION FLD	2 MI E HWY 5 PANAMA LN	93313	RCRA-SQG, FINDS
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100323311	CALMAT - WHEELER RIDGE PLNT	4501 SABODAN ST	93313	AST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST

Count: 44 records FOCUS MAP 4 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
METTLER	S105024950	CALMAT-WHEELER RIDGE PLAN	4501 SABODAN	93313	WDS, HIST CORTESE

Focus Map 5



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 5 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 5 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	5
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 5 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

1 **RESERVE OIL, INC.** **UIC** **S111500411**
N/A

KERN (County), CA

UIC:

API Number:	02920517
Confidential Well:	N
Well Number:	36-29
Direction:	Unknown
Lease Name:	R-S-T
Well Located On A BLW Lease:	N
Field Name:	Tejon, North
Area Name:	Any Area
Section:	29
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	926 KB
Location Desc:	Fr SW cor 1810N 1980E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	35.00679
Longitude:	-118.9280

---

12 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111586212**
N/A

KERN (County), CA

UIC:

API Number:	03022876
Confidential Well:	N
Well Number:	31X-32
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	987 KB
Location Desc:	Fr NW cor 798S 1460E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99954
Longitude:	-118.9304

---

19 **ARCO WESTERN ENERGY** **UIC** **S111498518**
N/A

KERN (County), CA

UIC:

API Number:	02918624
Confidential Well:	N
Well Number:	2
Direction:	Unknown
Lease Name:	Tejon A

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111498518**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	989 KB
Location Desc:	Fr SW cor 5007N 2302E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99825
Longitude:	-118.9270

---

25 **ARCO WESTERN ENERGY** **UIC** **S111498519**
N/A

KERN (County), CA

UIC:

API Number:	02918625
Confidential Well:	N
Well Number:	3
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1012 KB
Location Desc:	Fr SW cor 4426N 2034E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99672
Longitude:	-118.9279

---

34 **ARCO WESTERN ENERGY** **UIC** **S111498517**
N/A

KERN (County), CA

UIC:

API Number:	02918623
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1010 KB

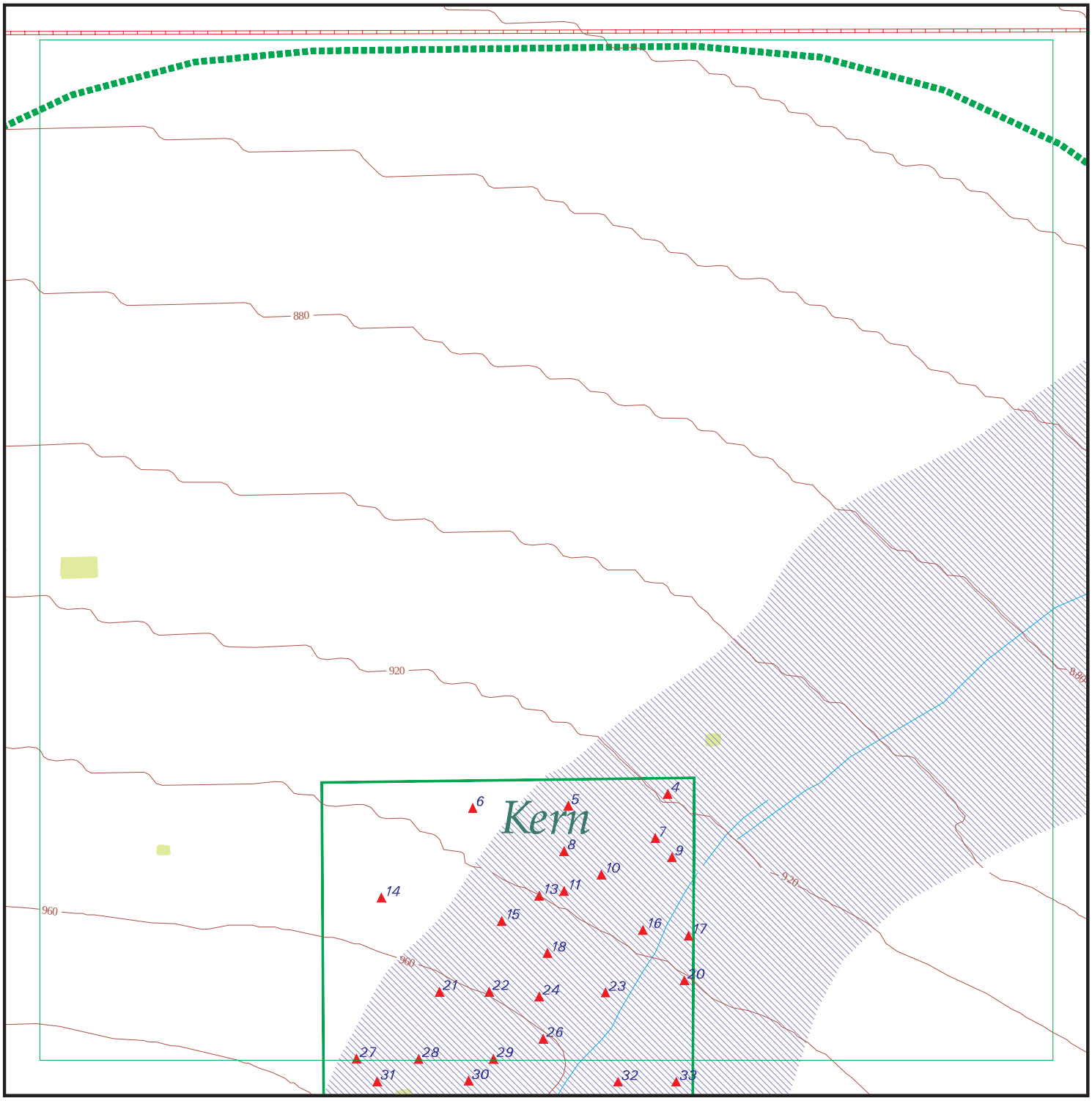
Map ID	Site	Database(s)	EPA ID Number
	ARCO WESTERN ENERGY (Continued)		**S111498517**
	Location Desc: Fr SW cor 4017N 2305E		
	GIS Source Code: hud		
	Comments: FR SW COR 4017N 2305		
	Latitude: 34.99558		
	Longitude: -118.9271		

Count: 31 records

FOCUS MAP 5 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 6



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 6 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 6 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	28
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 6 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
4	**ARCO WESTERN ENERGY**	**UIC**	**S111498798** **N/A**

KERN (County), CA

UIC:

API Number:	02918904
Confidential Well:	N
Well Number:	41A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	930 KB
Location Desc:	Fr N/4 cor 224S 224W
GIS Source Code:	hud
Comments:	FR N/4 COR 224S 224W
Latitude:	35.00149
Longitude:	-118.8917

5	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498791** **N/A**

KERN (County), CA

UIC:

API Number:	02918897
Confidential Well:	N
Well Number:	31-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	941 KB
Location Desc:	Fr N/4 cor 330S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 330S 990W
Latitude:	35.00125
Longitude:	-118.8941

6	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498789** **N/A**

KERN (County), CA

UIC:

API Number:	02918895
Confidential Well:	N
Well Number:	21-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498789**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 KB
Location Desc:	Fr N/4 cor 330S 1650W
GIS Source Code:	hud
Comments:	FR N/4 COR 330S 1650
Latitude:	35.00121
Longitude:	-118.8964

---

7 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498797**
N/A

KERN (County), CA

UIC:

API Number:	02918903
Confidential Well:	N
Well Number:	41-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	934 KB
Location Desc:	Fr N/4 cor 440S 330W
GIS Source Code:	hud
Comments:	FR N/4 COR 440S 330W
Latitude:	35.00061
Longitude:	-118.8920

---

8 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498792**
N/A

KERN (County), CA

UIC:

API Number:	02918898
Confidential Well:	N
Well Number:	31B-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498792**

Location Desc:	Fr N/4 cor 660S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 660S 990W
Latitude:	35.00035
Longitude:	-118.8942

---

9 **ARCO WESTERN ENERGY** **UIC** **S111498800**
N/A

KERN (County), CA

UIC:

API Number:	02918906
Confidential Well:	N
Well Number:	42A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr N/4 cor 700S 233W
GIS Source Code:	hud
Comments:	FR N/4 COR 700S 233W
Latitude:	35.00023
Longitude:	-118.8916

---

10 **ARCO WESTERN ENERGY** **UIC** **S111498794**
N/A

KERN (County), CA

UIC:

API Number:	02918900
Confidential Well:	N
Well Number:	32A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	943 KB
Location Desc:	Fr N/4 cor 700S 700W
GIS Source Code:	hud
Comments:	FR N/4 COR 700S 700W
Latitude:	34.99989
Longitude:	-118.8933

Map ID	Site	Database(s)	EPA ID Number

11 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498793**
N/A

KERN (County), CA

UIC:

API Number:	02918899
Confidential Well:	N
Well Number:	32-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	951 GL
Location Desc:	Fr N/4 cor 990S 990W
GIS Source Code:	hud
Comments:	FR N/4 COR 990S 990W
Latitude:	34.99956
Longitude:	-118.8942

---

13 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594233**
N/A

KERN (County), CA

UIC:

API Number:	03031235
Confidential Well:	N
Well Number:	22EH-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 KB
Location Desc:	Fr NW cor 1443E 935S
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99947
Longitude:	-118.8948

---

14 **RESERVE OIL, INC.** **UIC** **S111498788**
N/A

KERN (County), CA

UIC:

API Number:	02918894
Confidential Well:	N
Well Number:	12-34
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498788**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	960 KB
Location Desc:	Fr NW cor 990S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99943
Longitude:	-118.8986

---

15 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111596089**
N/A

KERN (County), CA

UIC:

API Number:	03033234
Confidential Well:	N
Well Number:	32H-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	964 KB
Location Desc:	Fr SW cor 1226E 5378N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99910
Longitude:	-118.8957

---

15 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111561483**
N/A

KERN (County), CA

UIC:

API Number:	02986052
Confidential Well:	N
Well Number:	22-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	958 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111561483**

Location Desc:	Fr SW cor 5250N 1100E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99880
Longitude:	-118.8961

---

16 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498799**
N/A

KERN (County), CA

UIC:

API Number:	02918905
Confidential Well:	N
Well Number:	42-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	948 KB
Location Desc:	Fr N/4 cor 1100S 400W
GIS Source Code:	hud
Comments:	FR N/4 COR 1100S 400
Latitude:	34.99879
Longitude:	-118.8923

---

17 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594232**
N/A

KERN (County), CA

UIC:

API Number:	03031234
Confidential Well:	N
Well Number:	52B-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	949 KB
Location Desc:	Fr SW cor 5203N 2567E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99868
Longitude:	-118.8912

Map ID	Site	Database(s)	EPA ID Number

18 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111561482**
N/A

KERN (County), CA

UIC:

API Number:	02986051
Confidential Well:	N
Well Number:	72-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	950 KB
Location Desc:	Fr SE cor 5160N 1515W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99833
Longitude:	-118.8946

---

20 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111596090**
N/A

KERN (County), CA

UIC:

API Number:	03033235
Confidential Well:	N
Well Number:	42X-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	949 KB
Location Desc:	Fr SW cor 2566E 4892N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99779
Longitude:	-118.8913

---

21 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498808**
N/A

KERN (County), CA

UIC:

API Number:	02918914
Confidential Well:	N
Well Number:	213-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498808**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 KB
Location Desc:	Fr W/4 cor 1485N 715E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 715
Latitude:	34.99756
Longitude:	-118.8972

---

22 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498790**
N/A

KERN (County), CA

UIC:

API Number:	02918896
Confidential Well:	N
Well Number:	23-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	966 KB
Location Desc:	Fr W/4 cor 1485N 1100E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 110
Latitude:	34.99756
Longitude:	-118.8960

---

23 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498801**
N/A

KERN (County), CA

UIC:

API Number:	02918907
Confidential Well:	N
Well Number:	43-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	953 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498801**

Location Desc:	Fr W/4 cor 1635N 1985E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99755
Longitude:	-118.8932

---

24 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498795**
N/A

KERN (County), CA

UIC:

API Number:	02918901
Confidential Well:	N
Well Number:	33-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr W/4 cor 1485N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1485N 148
Latitude:	34.99747
Longitude:	-118.8948

---

26 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498796**
N/A

KERN (County), CA

UIC:

API Number:	02918902
Confidential Well:	N
Well Number:	34-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 GL
Location Desc:	Fr W/4 cor 1155N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1155N 148
Latitude:	34.99663
Longitude:	-118.8947

Map ID	Site	Database(s)	EPA ID Number

27 **PENNANT PETROLEUM CORP.** **UIC** **S111498820**
N/A

KERN (County), CA

UIC:

API Number:	02918926
Confidential Well:	N
Well Number:	34-12
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 1155N 165E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99624
Longitude:	-118.8992

---

28 **PENNANT PETROLEUM CORP.** **UIC** **S111498819**
N/A

KERN (County), CA

UIC:

API Number:	02918925
Confidential Well:	N
Well Number:	34-10
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 RT
Location Desc:	Fr NW cor 1485S 560E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8977

---

29 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498809**
N/A

KERN (County), CA

UIC:

API Number:	02918915
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Crane

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111498809**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 GL
Location Desc:	Fr W/4 cor 1155N 1155E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8959

---

30 **PENNANT PETROLEUM CORP.** **UIC** **S111498815**
N/A

KERN (County), CA

UIC:

API Number:	02918921
Confidential Well:	N
Well Number:	34-6
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 GL
Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99580
Longitude:	-118.8965

---

31 **PENNANT PETROLEUM CORP.** **UIC** **S111498814**
N/A

KERN (County), CA

UIC:

API Number:	02918920
Confidential Well:	N
Well Number:	34-5
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	976 GL

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498814**

Location Desc:	Fr W/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99579
Longitude:	-118.8987

---

32 **ARCO WESTERN ENERGY** **UIC** **S111535499**
N/A

KERN (County), CA

UIC:

API Number:	02957938
Confidential Well:	N
Well Number:	43A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr ctr 870N 600W
GIS Source Code:	hud
Comments:	FR CTR COR 870N 600W
Latitude:	34.99578
Longitude:	-118.8929

---

33 **ARCO WESTERN ENERGY** **UIC** **S111530070**
N/A

KERN (County), CA

UIC:

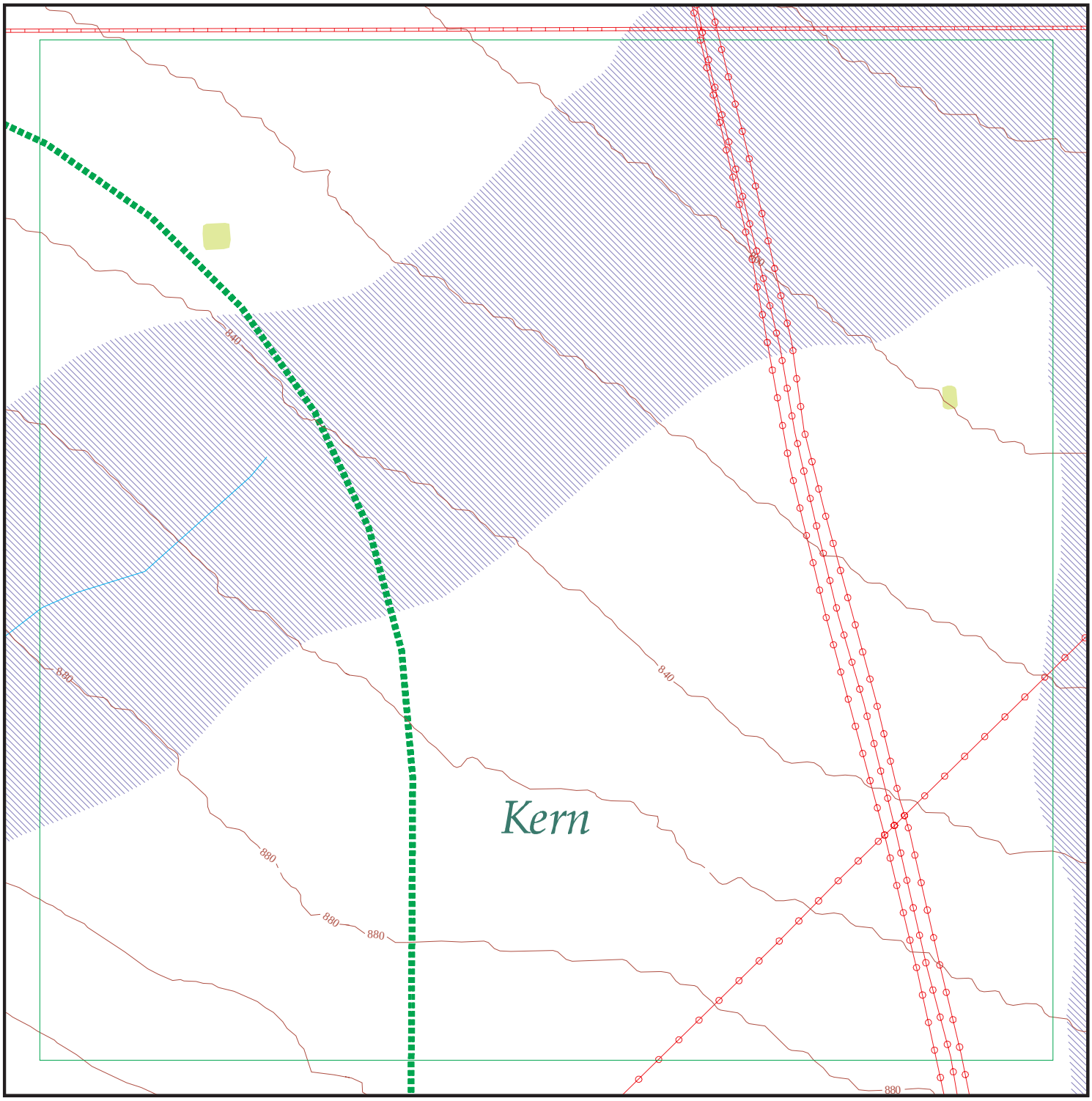
API Number:	02951966
Confidential Well:	N
Well Number:	45A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr ctr 870N 200W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 870N 2
Latitude:	34.99578
Longitude:	-118.8915

Count: 8 records

FOCUS MAP 6 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 7



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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N

0 1/8 1/4

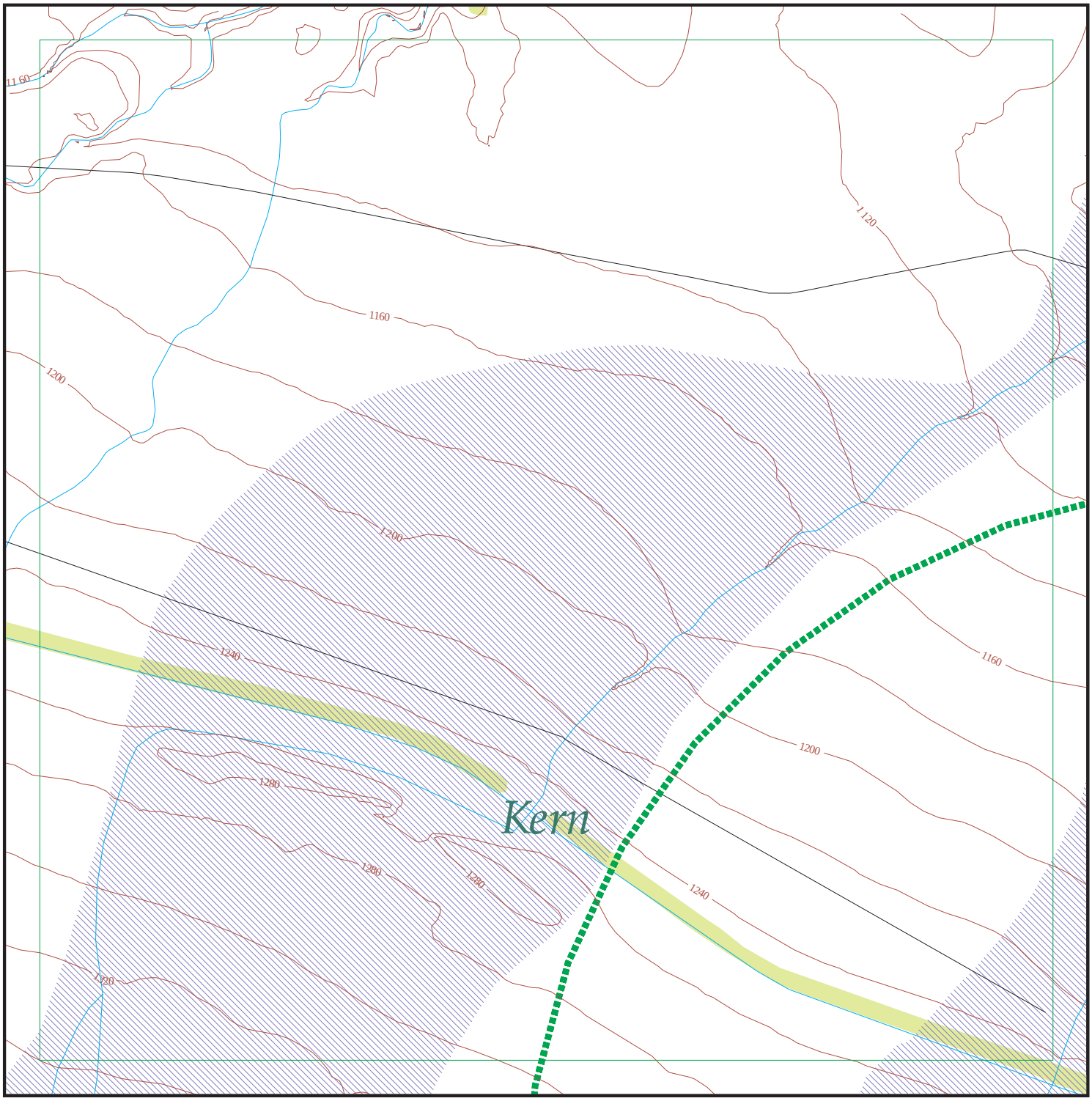
Scale in Miles

Count: 8 records

FOCUS MAP 7 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 8



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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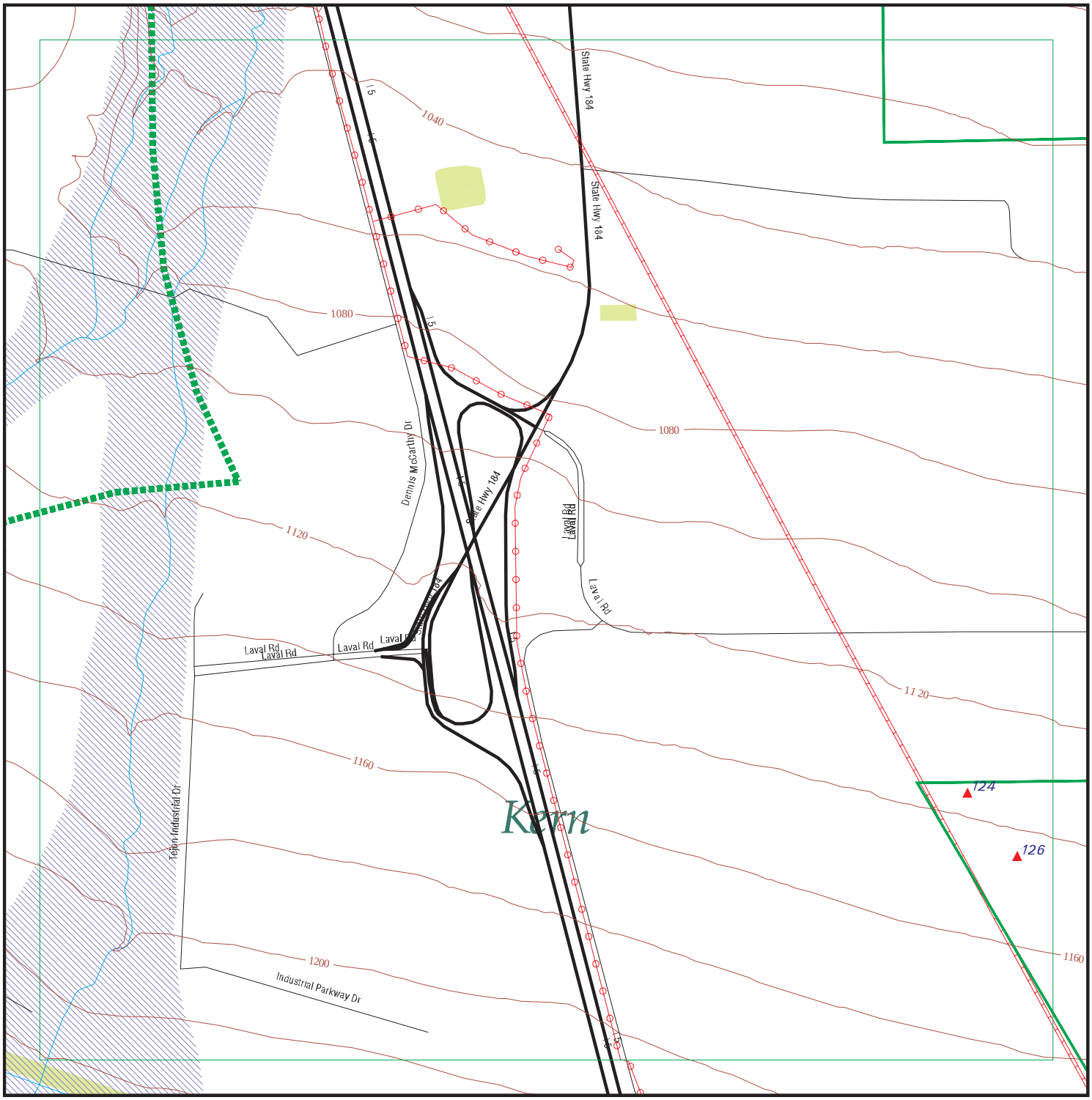
Count: 32 records

FOCUS MAP 8 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	1000155626	MCFARLAND ENERGY TEN SECTION FLD	2 MI E HWY 5 PANAMA LN	93313	RCRA-SQG, FINDS
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 9



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

FOCUS MAP 9 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 9 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	2
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 9 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
124	**CHEVRON U.S.A. INC.**	**UIC**	**S111536333** **N/A**

KERN (County), CA

UIC:

API Number:	02958857
Confidential Well:	N
Well Number:	4
Direction:	Unknown
Lease Name:	Tejon T
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1140 KB
Location Desc:	Fr NW cor 1124S 624E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98128
Longitude:	-118.9333

Map ID	Site	Database(s)	EPA ID Number
126	**CHEVRON U.S.A. INC.**	**UIC**	**S111498674** **N/A**

KERN (County), CA

UIC:

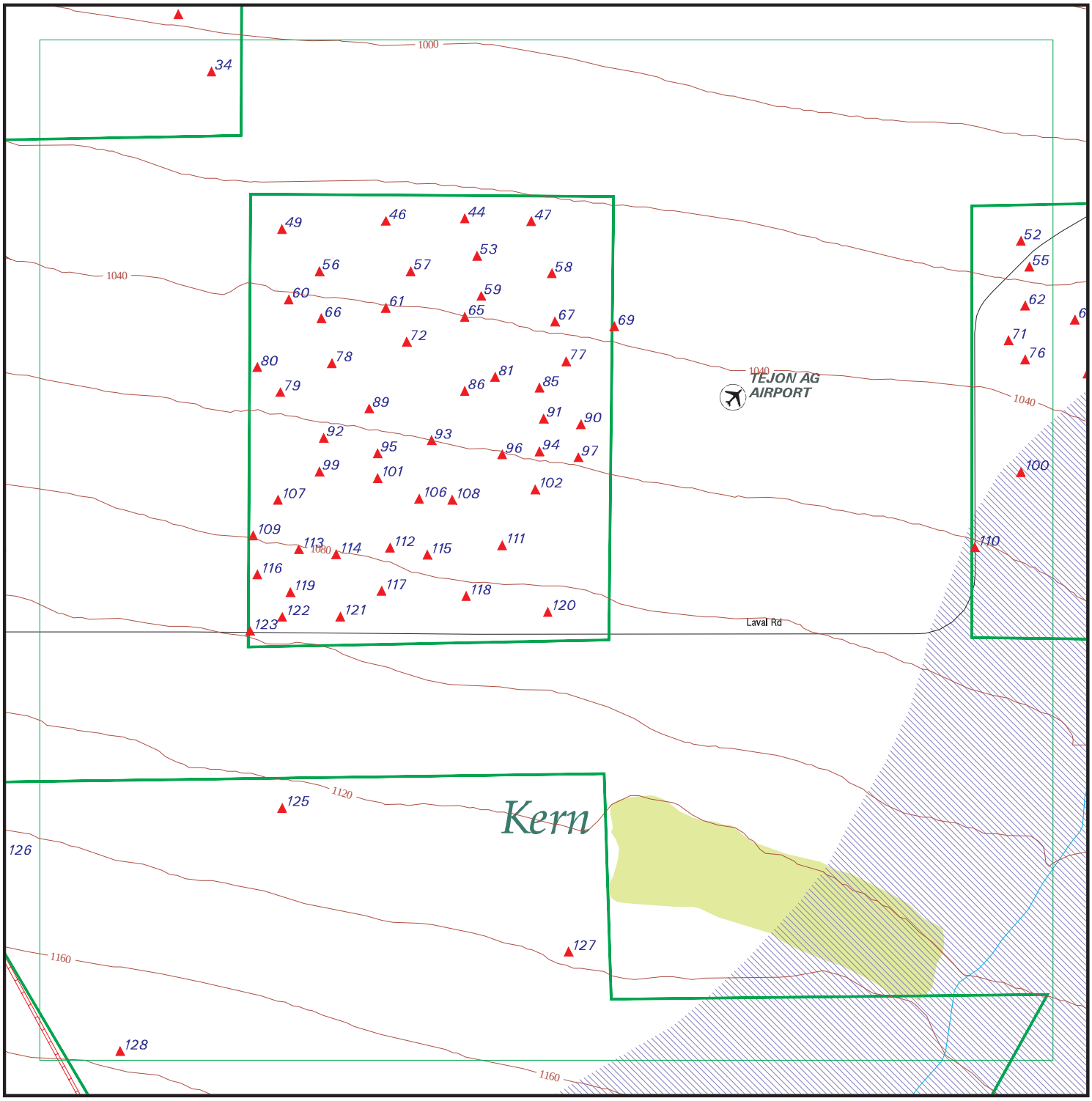
API Number:	02918780
Confidential Well:	N
Well Number:	23-5
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1158 KB
Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98002
Longitude:	-118.9321

Count: 39 records

FOCUS MAP 9 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	U001584407	EDISON FIELD OFFICE	RR 5 BOX 474	93307	HIST UST, SWEEPS UST
BAKERSFIELD	U001584488	ROD MCLELLAN CO.	RR 5 BOX 548	93307	HIST UST
BAKERSFIELD	U001584442	K F LYTLE PRODUCTION SERVICE	RR 5 BOX 330	93307	HIST UST, SWEEPS UST
BAKERSFIELD	S106927830	JOANNA REED	RR 5 BOX 502	93307	SWEEPS UST
BAKERSFIELD	U001584477	RALPH H. MOSESIAN INCORPORATED	RR 5 BOX 369	93307	HIST UST
BAKERSFIELD	U001584399	CLENDENEN CHRISTMAS TREE FARM,	RR 5 BOX 351	93307	HIST UST
BAKERSFIELD	S106924716	CLENDENEN CHRISTMAS TREE FARM	RR 5 BOX 351	93307	SWEEPS UST
BAKERSFIELD	U001584440	JOANNA REED	RR 5 BOX 502	93307	HIST UST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE

Focus Map 10



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

FOCUS MAP 10 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	1
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 10 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	87
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	1
LDS	0
MCS	0
AST	1
Notify 65	0
DEED	0
VCP	1
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	4
EMI	2
ENVIROSTOR	1
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 10 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
25	**ARCO WESTERN ENERGY**	**UIC**	**S111498519** **N/A**

KERN (County), CA

UIC:

API Number:	02918625
Confidential Well:	N
Well Number:	3
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1012 KB
Location Desc:	Fr SW cor 4426N 2034E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99672
Longitude:	-118.9279

34	**ARCO WESTERN ENERGY**	**UIC**	**S111498517** **N/A**

KERN (County), CA

UIC:

API Number:	02918623
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1010 KB
Location Desc:	Fr SW cor 4017N 2305E
GIS Source Code:	hud
Comments:	FR SW COR 4017N 2305
Latitude:	34.99558
Longitude:	-118.9271

44	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498617** **N/A**

KERN (County), CA

UIC:

API Number:	02918723
Confidential Well:	N
Well Number:	75-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498617**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2880N 1590E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99267
Longitude:	-118.9210

---

46 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498613**
N/A

KERN (County), CA

UIC:

API Number:	02918719
Confidential Well:	N
Well Number:	65-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2881N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99262
Longitude:	-118.9229

---

47 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498623**
N/A

KERN (County), CA

UIC:

API Number:	02918729
Confidential Well:	N
Well Number:	85-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498623**

Location Desc:	Fr SE cor 3000N 450W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99261
Longitude:	-118.9194

---

49 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594692**
N/A

KERN (County), CA

UIC:

API Number:	03031720
Confidential Well:	N
Well Number:	3H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr SW cor 2993N 2333W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99260
Longitude:	-118.9254

---

49 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498606**
N/A

KERN (County), CA

UIC:

API Number:	02918712
Confidential Well:	N
Well Number:	55-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1031 KB
Location Desc:	Fr S/4 cor 2880N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99228
Longitude:	-118.9255

Map ID	Site	Database(s)	EPA ID Number

52 **ARCO WESTERN ENERGY** **UIC** **S111498734**
N/A

KERN (County), CA

UIC:

API Number:	02918840
Confidential Well:	N
Well Number:	2-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 DF
Location Desc:	Fr ctr 330S 330E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 3
Latitude:	34.99222
Longitude:	-118.9076

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606697**
N/A

KERN (County), CA

UIC:

API Number:	03044317
Confidential Well:	N
Well Number:	48H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1042 KB
Location Desc:	fro SE cor 2837N 876W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99218
Longitude:	-118.9205

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111604456**
N/A

KERN (County), CA

UIC:

API Number:	03042074
Confidential Well:	N
Well Number:	39H-32
Direction:	Unknown
Lease Name:	J.V

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111604456**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1038 KB
Location Desc:	fro SW cor 2690N 4369E
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99189
Longitude:	-118.9207

---

53 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498640**
N/A

KERN (County), CA

UIC:

API Number:	02918746
Confidential Well:	N
Well Number:	755-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr SE cor 2649N 810W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99161
Longitude:	-118.9203

---

55 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498748**
N/A

KERN (County), CA

UIC:

API Number:	02918854
Confidential Well:	N
Well Number:	56-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1025 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498748**

Location Desc:	Fr ctr 615S 380E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 615S 3
Latitude:	34.99171
Longitude:	-118.9074

---

56 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498631**
N/A

KERN (County), CA

UIC:

API Number:	02918737
Confidential Well:	N
Well Number:	555-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 KB
Location Desc:	Fr SE cor 2640N 1980W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99162
Longitude:	-118.9245

---

57 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498635**
N/A

KERN (County), CA

UIC:

API Number:	02918741
Confidential Well:	N
Well Number:	655-32
Direction:	Not Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 KB
Location Desc:	Fr SE cor 2640N 1320W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99162
Longitude:	-118.9223

Map ID	Site	Database(s)	EPA ID Number

58 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111604586**
N/A

KERN (County), CA

UIC:

API Number:	03042204
Confidential Well:	N
Well Number:	38H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1032 KB
Location Desc:	Fr SE cor 2615N 401W
GIS Source Code:	sum
Comments:	jdp 8-17-11
Latitude:	34.99158
Longitude:	-118.9189

---

59 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600129**
N/A

KERN (County), CA

UIC:

API Number:	03037650
Confidential Well:	N
Well Number:	22BH-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1050 KB
Location Desc:	Fr SE cor 2450N 909W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99113
Longitude:	-118.9206

---

60 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498607**
N/A

KERN (County), CA

UIC:

API Number:	02918713
Confidential Well:	N
Well Number:	56-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498607**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr S/4 cor 2310N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99111
Longitude:	-118.9252

---

60 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594690**
N/A

KERN (County), CA

UIC:

API Number:	03031718
Confidential Well:	N
Well Number:	4H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1055 KB
Location Desc:	Fr SW cor 2973E 2401S
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99100
Longitude:	-118.9253

---

61 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598952**
N/A

KERN (County), CA

UIC:

API Number:	03036347
Confidential Well:	N
Well Number:	22H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111598952**

Location Desc:	Fr SW cor 2424N 1618W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99103
Longitude:	-118.9229

---

61 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498614**
N/A

KERN (County), CA

UIC:

API Number:	02918720
Confidential Well:	N
Well Number:	66-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 GL
Location Desc:	Fr S/4 cor 2310N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99072
Longitude:	-118.9230

---

62 **RESERVE OIL, INC.** **UIC** **S111498735**
N/A

KERN (County), CA

UIC:

API Number:	02918841
Confidential Well:	N
Well Number:	3-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr ctr 960S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99094
Longitude:	-118.9075

Map ID	Site	Database(s)	EPA ID Number

63 **RESERVE OIL, INC.** **UIC** **S111498756**
N/A

KERN (County), CA

UIC:

API Number:	02918862
Confidential Well:	N
Well Number:	66R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1029 KB
Location Desc:	Fr ctr 950S 620E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99085
Longitude:	-118.9063

---

63 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498749**
N/A

KERN (County), CA

UIC:

API Number:	02918855
Confidential Well:	N
Well Number:	57-V-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1033 KB
Location Desc:	Fr ctr 1100S 660E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1100S
Latitude:	34.99042
Longitude:	-118.9063

---

65 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498618**
N/A

KERN (County), CA

UIC:

API Number:	02918724
Confidential Well:	N
Well Number:	76-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498618**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr S/4 cor 2310N 1590E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99072
Longitude:	-118.9210

---

66 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603888**
N/A

KERN (County), CA

UIC:

API Number:	03041505
Confidential Well:	N
Well Number:	36H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 2297N 2138W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99070
Longitude:	-118.9247

---

66 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603703**
N/A

KERN (County), CA

UIC:

API Number:	03041320
Confidential Well:	N
Well Number:	35H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1062 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111603703**

Location Desc:	Fr SE cor 2288'N 2009'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.99067
Longitude:	-118.9242

---

67 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606525**
N/A

KERN (County), CA

UIC:

API Number:	03044145
Confidential Well:	N
Well Number:	47H-32
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1049 KB
Location Desc:	fro SE cor 2297N 317W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99070
Longitude:	-118.9186

---

67 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111480808**
N/A

KERN (County), CA

UIC:

API Number:	02900902
Confidential Well:	N
Well Number:	86-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr SE cor 2240N 478W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99053
Longitude:	-118.9191

Map ID	Site	Database(s)	EPA ID Number

69 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498654**
N/A

KERN (County), CA

UIC:

API Number:	02918760
Confidential Well:	N
Well Number:	16C-33WI
Direction:	Unknown
Lease Name:	OMB
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr SW cor 2240N 150E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99053
Longitude:	-118.9174

---

71 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112144213**
N/A

KERN (County), CA

UIC:

API Number:	03047145
Confidential Well:	N
Well Number:	57X-33
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.99025
Longitude:	-118.9079

---

72 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498636**
N/A

KERN (County), CA

UIC:

API Number:	02918742
Confidential Well:	N
Well Number:	665-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498636**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1064 KB
Location Desc:	Fr SE cor 2130N 1350W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99022
Longitude:	-118.9224

---

76 **PAULEY PETROLEUM INC.** **UIC** **S111498711**
N/A

KERN (County), CA

UIC:

API Number:	02918817
Confidential Well:	N
Well Number:	57-33
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr ctr 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98987
Longitude:	-118.9075

---

77 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606526**
N/A

KERN (County), CA

UIC:

API Number:	03044146
Confidential Well:	N
Well Number:	50H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1058 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111606526**

Location Desc:	fro SE cor 1990N 314W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.98986
Longitude:	-118.9186

---

77 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498644**
N/A

KERN (County), CA

UIC:

API Number:	02918750
Confidential Well:	N
Well Number:	865-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 KB
Location Desc:	Fr SE cor 1980N 182W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98981
Longitude:	-118.9185

---

78 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498632**
N/A

KERN (County), CA

UIC:

API Number:	02918738
Confidential Well:	N
Well Number:	565-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1054 KB
Location Desc:	Fr SE cor 1980N 1980W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98980
Longitude:	-118.9242

Map ID	Site	Database(s)	EPA ID Number

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498608**
N/A

KERN (County), CA

UIC:

API Number:	02918714
Confidential Well:	N
Well Number:	56R-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1057 KB
Location Desc:	Fr S/4 cor 1951N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98974
Longitude:	-118.9253

---

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111607310**
N/A

KERN (County), CA

UIC:

API Number:	03044930
Confidential Well:	N
Well Number:	2H-32
Direction:	Unknown
Lease Name:	J.V. Reserve
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1071 KB
Location Desc:	fr SE cor 1816'N 2420'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98937
Longitude:	-118.9256

---

79 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498609**
N/A

KERN (County), CA

UIC:

API Number:	02918715
Confidential Well:	N
Well Number:	57-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498609**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1061 KB
Location Desc:	Fr S/4 cor 1650N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98915
Longitude:	-118.9253

---

80 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584176**
N/A

KERN (County), CA

UIC:

API Number:	03020751
Confidential Well:	N
Well Number:	1H
Direction:	Unknown
Lease Name:	J.V. Valv
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1065 KB
Location Desc:	Fr SE cor 1564N 493W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98972
Longitude:	-118.9260

---

80 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584399**
N/A

KERN (County), CA

UIC:

API Number:	03020984
Confidential Well:	N
Well Number:	1H
Direction:	Unknown
Lease Name:	J.V. Reserve
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1066 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111584399**

Location Desc:	Fr SE cor 2541W 1936N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98971
Longitude:	-118.9260

---

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498627**
N/A

KERN (County), CA

UIC:

API Number:	02918733
Confidential Well:	N
Well Number:	102-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1155 KB
Location Desc:	Fr SE cor 1900N 800W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9205

---

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498626**
N/A

KERN (County), CA

UIC:

API Number:	02918732
Confidential Well:	N
Well Number:	101-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 KB
Location Desc:	Fr S/4 cor 1980N 1290E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98954
Longitude:	-118.9202

Map ID	Site	Database(s)	EPA ID Number

81 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498641**
N/A

KERN (County), CA

UIC:

API Number:	02918747
Confidential Well:	N
Well Number:	765-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1056 KB
Location Desc:	Fr SE cor 1844N 747W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98944
Longitude:	-118.9200

---

82 **RESERVE OIL, INC.** **UIC** **S111498767**
N/A

KERN (County), CA

UIC:

API Number:	02918873
Confidential Well:	N
Well Number:	157-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB
Location Desc:	Fr ctr 1430S 760E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9060

---

85 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112145442**
N/A

KERN (County), CA

UIC:

API Number:	03048400
Confidential Well:	N
Well Number:	87X-32
Direction:	Directionally drilled
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S112145442**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1067 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98931
Longitude:	-118.9192

---

86 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498619**
N/A

KERN (County), CA

UIC:

API Number:	02918725
Confidential Well:	N
Well Number:	77-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1060 KB
Location Desc:	Fr S/4 cor 1650N 1590E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98925
Longitude:	-118.9210

---

89 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498615**
N/A

KERN (County), CA

UIC:

API Number:	02918721
Confidential Well:	N
Well Number:	67-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1052 GL

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498615**

Location Desc:	Fr S/4 cor 1650N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98890
Longitude:	-118.9233

---

90 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111607546**
N/A

KERN (County), CA

UIC:

API Number:	03045166
Confidential Well:	N
Well Number:	56H-32
Direction:	Horizontally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1070 KB
Location Desc:	fro SE cor 1573N 196W
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.98871
Longitude:	-118.9182

---

90 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599687**
N/A

KERN (County), CA

UIC:

API Number:	03037160
Confidential Well:	N
Well Number:	27H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr SW cor 5117E 1406N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98843
Longitude:	-118.9182

Map ID	Site	Database(s)	EPA ID Number

91 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498624**
N/A

KERN (County), CA

UIC:

API Number:	02918730
Confidential Well:	N
Well Number:	87-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1063 KB
Location Desc:	Fr SE cor 1580N 477W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98870
Longitude:	-118.9191

---

92 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498633**
N/A

KERN (County), CA

UIC:

API Number:	02918739
Confidential Well:	N
Well Number:	575-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1068 KB
Location Desc:	Fr SE cor 1430N 2060W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98832
Longitude:	-118.9244

---

93 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498637**
N/A

KERN (County), CA

UIC:

API Number:	02918743
Confidential Well:	N
Well Number:	675-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498637**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1067 KB
Location Desc:	Fr SE cor 1410N 1290W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98827
Longitude:	-118.9218

---

94 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606823**
N/A

KERN (County), CA

UIC:

API Number:	03044443
Confidential Well:	N
Well Number:	53H-32
Direction:	Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	fro SE cor 1328N 460W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98805
Longitude:	-118.9192

---

95 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111566911**
N/A

KERN (County), CA

UIC:

API Number:	03002007
Confidential Well:	N
Well Number:	104-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1076 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111566911**

Location Desc:	Fr SE cor 1318N 1652W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98801
Longitude:	-118.9231

---

96 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498642**
N/A

KERN (County), CA

UIC:

API Number:	02918748
Confidential Well:	N
Well Number:	775-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1069 KB
Location Desc:	Fr SE cor 1320N 770W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98799
Longitude:	-118.9201

---

97 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498645**
N/A

KERN (County), CA

UIC:

API Number:	02918751
Confidential Well:	N
Well Number:	875-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1068 KB
Location Desc:	Fr SE cor 1320N 167W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98799
Longitude:	-118.9184

Map ID	Site	Database(s)	EPA ID Number

97 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600435**
N/A

KERN (County), CA

UIC:

API Number:	03037967
Confidential Well:	N
Well Number:	31H-32
Direction:	Unknown
Lease Name:	J.V
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1076 KB
Location Desc:	Fr SW crn 1226N 5068E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98786
Longitude:	-118.9181

---

99 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598954**
N/A

KERN (County), CA

UIC:

API Number:	03036349
Confidential Well:	N
Well Number:	24H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1083 KB
Location Desc:	Fr SE cor 1198N 2090W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98765
Longitude:	-118.9245

---

100 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498750**
N/A

KERN (County), CA

UIC:

API Number:	02918856
Confidential Well:	N
Well Number:	58-33
Direction:	Not Directionally drilled
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498750**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 GL
Location Desc:	Fr ctr 1980S 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98764
Longitude:	-118.9076

---

101 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111480184**
N/A

KERN (County), CA

UIC:

API Number:	02900272
Confidential Well:	N
Well Number:	68-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 990N 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98752
Longitude:	-118.9231

---

102 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111584418**
N/A

KERN (County), CA

UIC:

API Number:	03021006
Confidential Well:	N
Well Number:	10H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1080 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111584418**

Location Desc:	Fr SE cor 1125N 500W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98746
Longitude:	-118.9193

---

102 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498625**
N/A

KERN (County), CA

UIC:

API Number:	02918731
Confidential Well:	N
Well Number:	88-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1077 KB
Location Desc:	Fr SE cor 990N 476W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9194

---

106 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498638**
N/A

KERN (County), CA

UIC:

API Number:	02918744
Confidential Well:	N
Well Number:	682-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 998N 1293E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98711
Longitude:	-118.9221

Map ID	Site	Database(s)	EPA ID Number

107 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498610**
N/A

KERN (County), CA

UIC:

API Number:	02918716
Confidential Well:	N
Well Number:	58-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1075 KB
Location Desc:	Fr S/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9255

---

108 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498620**
N/A

KERN (County), CA

UIC:

API Number:	02918726
Confidential Well:	N
Well Number:	78-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1065 GL
Location Desc:	Fr S/4 cor 990N 1590E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98709
Longitude:	-118.9213

---

109 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594734**
N/A

KERN (County), CA

UIC:

API Number:	03031771
Confidential Well:	N
Well Number:	13H-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111594734**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1084 KB
Location Desc:	Fr SW cor 2754E 754N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98656
Longitude:	-118.9261

---

109 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498630**
N/A

KERN (County), CA

UIC:

API Number:	02918736
Confidential Well:	N
Well Number:	485-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1095 KB
Location Desc:	Fr S/4 cor 650N 105E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98615
Longitude:	-118.9260

---

110 **LAVAL FARMS LIMITED PARTNERSHIP** **VCP** **S106568202**
4358 LAVAL ROAD **ENVIROSTOR** **N/A**
METTLER, CA 93301

VCP:

Facility ID:	15010006
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Kevin Shaddy
Supervisor:	Kevin Shaddy
Division Branch:	Cleanup San Joaquin
Site Code:	100527

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Assembly:	34
Senate:	16
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified
Status Date:	09/22/1997
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	35.01055 / -118.9241
APN:	NONE SPECIFIED
Past Use:	"AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS"
Potential COC:	30244
Confirmed COC:	30244
Potential Description:	SOIL
Alias Name:	LAVAL FARMS LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	110033607620
Alias Type:	EPA (FRS #)
Alias Name:	100527
Alias Type:	Project Code (Site Code)
Alias Name:	15010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	08/05/1996
Comments:	VCONS/RIFS -- Approximately 600 cu yds of contaminated soils excavated from two of four identified "hot spot" areas were thermally treated as part of a treatability study to demon- strate the feasibility of low temperature thermal desorption technology. Based on the findings of the treatability, the RI/FS phase of the project was completed and approved by DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	10/08/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/25/1997
Comments:	RA -- A removal action was completed which consisted of the excavation and thermal treatment (low temperature thermal desorption) of approximately 6150 tons of Dinoseb contaminated soil. The soil was excavated from five separate areas located on the Laval Farms property. The total area involved in the removal action was approximately 10 acres.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/13/1997
Comments:	RAW -- A Removal Action Workplan was approved for the Site. The remedy consisted of the treatment of approximately 4,000 cubic yards of pesticide contaminated soil using thermal desorption.

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/19/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/15/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/06/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/09/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 09/23/1997
Comments: CERT -- A removal action consisting of the excavation and low temperature thermal desorption of approximately 6150 tons of Dinoseb contaminated soil has been certified. The certification applies to five acres located on the Laval Farms property which totals an estimated ten acres in area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/24/1995
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 15010006
Status: Certified
Status Date: 09/22/1997
Site Code: 100527
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Kevin Shaddy
Supervisor:	Kevin Shaddy
Division Branch:	Cleanup San Joaquin
Assembly:	34
Senate:	16
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	35.01055
Longitude:	-118.9241
APN:	NONE SPECIFIED
Past Use:	"AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS"
Potential COC:	Dinoseb
Confirmed COC:	Dinoseb
Potential Description:	SOIL
Alias Name:	LAVAL FARMS LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	110033607620
Alias Type:	EPA (FRS #)
Alias Name:	100527
Alias Type:	Project Code (Site Code)
Alias Name:	15010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation
Completed Date:	08/05/1996
Comments:	VCONS/RIFS -- Approximately 600 cu yds of contaminated soils excavated from two of four identified "hot spot" areas were thermally treated as part of a treatability study to demon- strate the feasibility of low temperature thermal desorption technology. Based on the findings of the treatability, the RI/FS phase of the project was completed and approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Voluntary Cleanup Agreement Completion
Completed Date:	10/08/1997
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/25/1997
Comments:	RA -- A removal action was completed which consisted of the excavation and thermal treatment (low temperature thermal desorption) of approximately 6150 tons of Dinoseb contaminated soil. The soil was excavated from five separate areas located on the Laval Farms property. The total area involved in the removal action was approximately 10 acres.

Map ID	Site	Database(s)	EPA ID Number

LAVAL FARMS LIMITED PARTNERSHIP (Continued) **S106568202**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/13/1997
Comments:	RAW -- A Removal Action Workplan was approved for the Site. The remedy consisted of the treatment of approximately 4,000 cubic yards of pesticide contaminated soil using thermal desorption.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/19/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	07/15/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/06/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	02/09/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	09/23/1997
Comments:	CERT -- A removal action consisting of the excavation and low temperature thermal desorption of approximately 6150 tons of Dinoseb contaminated soil has been certified. The certification applies to five acres located on the Laval Farms property which totals an estimated ten acres in area.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/24/1995
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Map ID	Site	Database(s)	EPA ID Number
110	**LAVAL FARMS LIMITED PARTNERSHIP** **4358 LAVAL ROAD** **METTLER, CA**	**FINDS**	**1010728765** **N/A**

FINDS:

Registry ID: 110033607620

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

Map ID	Site	Database(s)	EPA ID Number
110	**TUT BROTHERS & SONS INC** **4358 LAVAL ROAD** **WHEELER RIDGE, CA 93203**	**EMI**	**1006824622** **N/A**

EMI:

Year:	1999
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	161
Part. Matter 10 Micrometers & Smllr Tons/Yr:	111

Map ID	Site	Database(s)	EPA ID Number
110	**LAVAL FARMS LIMITED PARTNERSHP** **4358 LAVAL RD** **ARVIN, CA 93203**	**HAZNET**	**S113172866** **N/A**

HAZNET:

Year:	1997
Gepaid:	CAP601252990
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	Not reported
Mailing City,St,Zip:	000000000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Tons:	16.8560
Facility County:	0

110	**TUT BROTHERS** **4358 LAVAL** **ARVIN, CA 93203**	**AST**	**A100337774** **N/A**

AST:

Owner:	TUT BROTHERS FARMS LLC
Total Gallons:	18,220
Certified Unified Program Agencies:	Kern

110	**TUT BROTHERS & SONS INC** **4358 LAVAL ROAD** **ARVIN, CA 93203**	**EMI**	**S103659531** **N/A**

EMI:

Year:	1995
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1996
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD

Map ID	Site	Database(s)	EPA ID Number

TUT BROTHERS & SONS INC (Continued) **S103659531**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	15
Air Basin:	SJV
Facility ID:	540
Air District Name:	SJU
SIC Code:	173
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

110 **TUT BRO FARM** **HAZNET** **S113095751**
4358 LAVAL RD **N/A**
ARVIN, CA 93203

HAZNET:

Year:	1998
Gepaid:	CAL000180708
Contact:	RANDY TUT
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	4358 LAVAL RD
Mailing City,St,Zip:	ARVIN, CA 932030000
Gen County:	Not reported
TSD EPA ID:	CAD980673842

Map ID	Site	Database(s)	EPA ID Number

TUT BRO FARM (Continued) **S113095751**

TSD County: Not reported
Waste Category: Not reported
Disposal Method: Not reported
Tons: 5.0873
Facility County: Kern

---

110 **TEJON AGRICULTURAL PARTNERS** **HAZNET** **S112859114**
4358 LAVAL ROAD **N/A**
ARVIN, CA 93203

HAZNET:
Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 437.7144
Facility County: Kern

Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Not reported
Disposal Method: Disposal, Land Fill
Tons: 10.1136
Facility County: Kern

Year: 1994
Gepaid: CAC001004000
Contact: TEJON AGRICULTURAL PARTNERS
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: P O BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 30.3408
Facility County: Kern

Year: 1994
Gepaid: CAC001004000

Map ID	Site	Database(s)	EPA ID Number

TEJON AGRICULTURAL PARTNERS (Continued) **S112859114**

Contact:	TEJON AGRICULTURAL PARTNERS
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	P O BOX 1000
Mailing City,St,Zip:	LEBEC, CA 932430000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Not reported
Tons:	15.1704
Facility County:	Kern

---

110 **LAVAL FARM LIMITED PARTNERSHIP** **HAZNET** **S112862539**
4358 LAVAL RD **N/A**
ARVIN, CA 93203

HAZNET:

Year:	1995
Gepaid:	CAC001041848
Contact:	LAVAL FARM LIMITED PARTNERSHIP
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 1000
Mailing City,St,Zip:	LEBEC, CA 932430000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Disposal, Land Fill
Tons:	106.1928
Facility County:	Kern

---

111 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498643**
N/A

KERN (County), CA

UIC:

API Number:	02918749
Confidential Well:	N
Well Number:	785-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1084 KB
Location Desc:	Fr SE cor 660N 751W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98619
Longitude:	-118.9201

Map ID	Site	Database(s)	EPA ID Number

112 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111603889**
N/A

KERN (County), CA

UIC:

API Number:	03041506
Confidential Well:	N
Well Number:	37H-32
Direction:	Directionally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 655N 1567W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98614
Longitude:	-118.9228

---

113 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111606824**
N/A

KERN (County), CA

UIC:

API Number:	03044444
Confidential Well:	N
Well Number:	54H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1080 KB
Location Desc:	fr SE cor 627'N 2231'W
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98611
Longitude:	-118.9250

---

114 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498634**
N/A

KERN (County), CA

UIC:

API Number:	02918740
Confidential Well:	N
Well Number:	585-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498634**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1086 KB
Location Desc:	Fr SE cor 590N 1970W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98601
Longitude:	-118.9241

---

115 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498639**
N/A

KERN (County), CA

UIC:

API Number:	02918745
Confidential Well:	N
Well Number:	685-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1086 KB
Location Desc:	Fr SE cor 580N 1300W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98600
Longitude:	-118.9219

---

116 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111594689**
N/A

KERN (County), CA

UIC:

API Number:	03031717
Confidential Well:	N
Well Number:	15H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1089 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111594689**

Location Desc:	Fr SW cor 2757E 451N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98561
Longitude:	-118.9260

---

117 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498616**
N/A

KERN (County), CA

UIC:

API Number:	02918722
Confidential Well:	N
Well Number:	69-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1096 DF
Location Desc:	Fr S/4 cor 330N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98530
Longitude:	-118.9231

---

117 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S113889339**
N/A

KERN (County), CA

UIC:

API Number:	03050686
Confidential Well:	N
Well Number:	67H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1108 KB
Location Desc:	Fr SE cor 317 N & 1618 W
GIS Source Code:	noi
Comments:	Not reported
Latitude:	34.98526
Longitude:	-118.9229

Map ID	Site	Database(s)	EPA ID Number

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498621**
N/A

KERN (County), CA

UIC:

API Number:	02918727
Confidential Well:	N
Well Number:	79-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr S/4 cor 330N 1650E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98529
Longitude:	-118.9209

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111598955**
N/A

KERN (County), CA

UIC:

API Number:	03036350
Confidential Well:	N
Well Number:	28H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1101 KB
Location Desc:	Fr SE cor 322N 879W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98528
Longitude:	-118.9205

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599617**
N/A

KERN (County), CA

UIC:

API Number:	03037072
Confidential Well:	N
Well Number:	25H-32
Direction:	Unknown
Lease Name:	J.V.

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111599617**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1104 KB
Location Desc:	Fr SE cor 259N 1192W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98505
Longitude:	-118.9215

---

118 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111600434**
N/A

KERN (County), CA

UIC:

API Number:	03037966
Confidential Well:	N
Well Number:	30H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1115 KB
Location Desc:	Fr SW cor 4186E 176N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98504
Longitude:	-118.9213

---

119 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498611**
N/A

KERN (County), CA

UIC:

API Number:	02918717
Confidential Well:	N
Well Number:	59-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1090 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498611**

Location Desc:	Fr S/4 cor 330N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98526
Longitude:	-118.9252

---

120 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599688**
N/A

KERN (County), CA

UIC:

API Number:	03037161
Confidential Well:	N
Well Number:	29H-32
Direction:	Horizontally drilled
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1100 KB
Location Desc:	Fr SW cor 176N 441W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98487
Longitude:	-118.9190

---

121 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111576063**
N/A

KERN (County), CA

UIC:

API Number:	03011842
Confidential Well:	N
Well Number:	HRP 1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1105 KB
Location Desc:	Fr S/4 cor 135N 700E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98478
Longitude:	-118.9240

Map ID	Site	Database(s)	EPA ID Number

122 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111599686**
N/A

KERN (County), CA

UIC:

API Number:	03037158
Confidential Well:	N
Well Number:	12H-32
Direction:	Unknown
Lease Name:	J.V.
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1105 KB
Location Desc:	Fr SE cor 2409W 159N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98477
Longitude:	-118.9256

---

122 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111587815**
N/A

KERN (County), CA

UIC:

API Number:	03024535
Confidential Well:	N
Well Number:	8H-32
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	32
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1104 KB
Location Desc:	Fr SW cor 2292E 149N
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98477
Longitude:	-118.9252

---

123 **CHMIRS** **S105886783**
N/A

5236 LAVAL RD
ARVIN, CA

CHMIRS:

OES Incident Number:	02-5551
OES notification:	10/14/2002
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported

Map ID	Site	Database(s)	EPA ID Number

(Continued) **S105886783**

Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
Special Studies 1:	Not reported
Special Studies 2:	Not reported
Special Studies 3:	Not reported
Special Studies 4:	Not reported
Special Studies 5:	Not reported
Special Studies 6:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Stockton Oil and Gas
Incident Date:	10/14/200212:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water
Quantity Released:	Not reported
BBLS:	500
Cups:	0
CUFT:	0
Gallons:	0.000000
Grams:	0

Map ID	Site	Database(s)	EPA ID Number

(Continued) **S105886783**

Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Per caller, substance was released due to pump failure.

---

125 **CHEVRON U.S.A. INC.** **UIC** **S111498681**
N/A

KERN (County), CA

UIC:

API Number:	02918787
Confidential Well:	N
Well Number:	53A-5
Direction:	Unknown
Lease Name:	Tejon Ranch
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1133 KB
Location Desc:	Fr N/4 cor 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98098
Longitude:	-118.9254

---

127 **CHEVRON U.S.A. INC.** **UIC** **S111498822**
N/A

KERN (County), CA

UIC:

API Number:	02918928
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon Ranch B
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Western
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1148 KB
Location Desc:	Fr NE cor 2310S 330W

Map ID	Site	Database(s)	EPA ID Number

CHEVRON U.S.A. INC. (Continued) **S111498822**

GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97813
Longitude:	-118.9185

---

128 **THE DOW CHEMICAL COMPANY** **UIC** **S111535447**
N/A

KERN (County), CA

UIC:

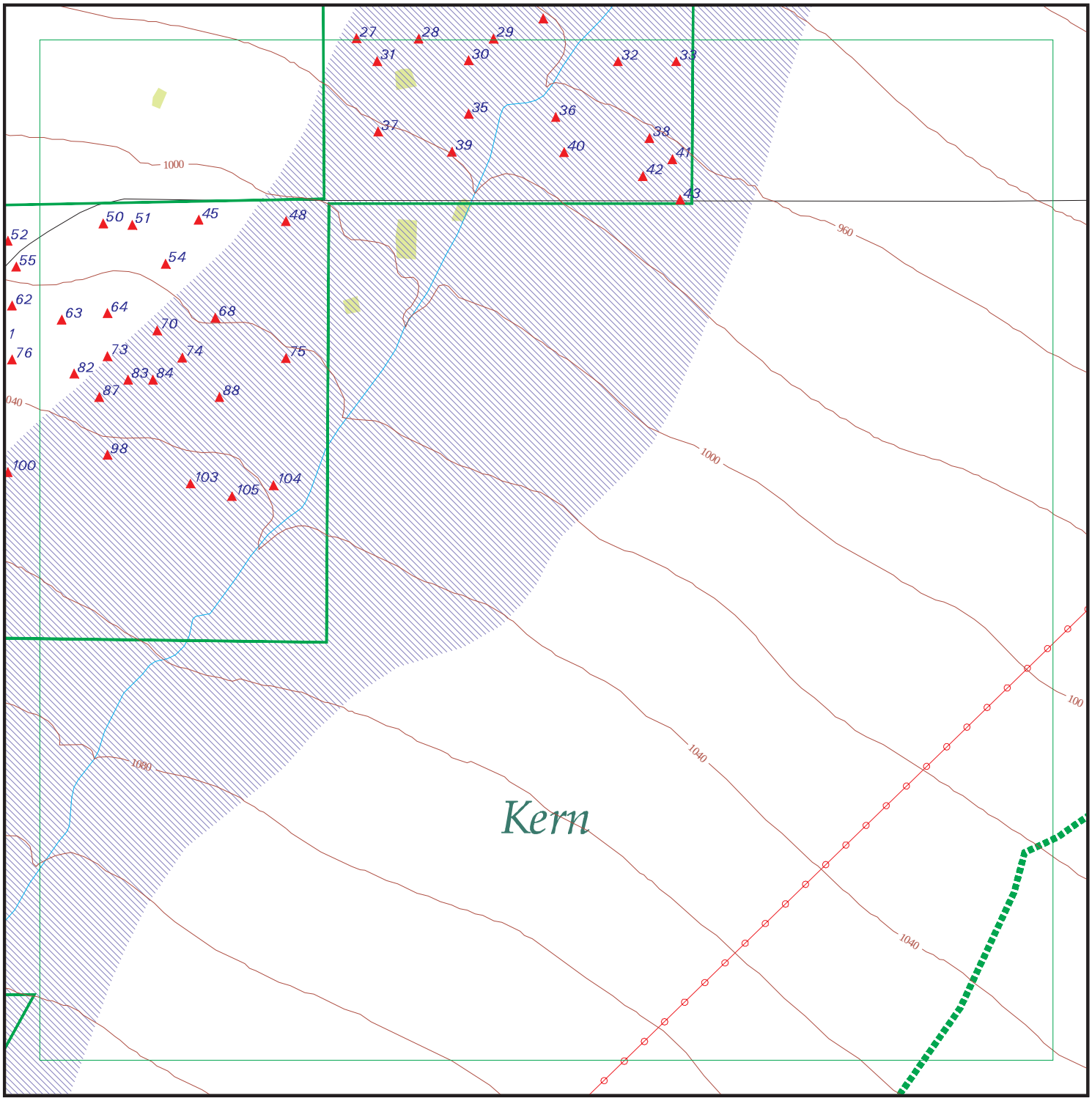
API Number:	02957884
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	DDCP-Tejon Ranch NWRS
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1187 KB
Location Desc:	Fr W/4 cor 400S 1800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97616
Longitude:	-118.9293

Count: 8 records

FOCUS MAP 10 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 11



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 11 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 11 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	47
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 11 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

26 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498796**
N/A

KERN (County), CA

UIC:

API Number:	02918902
Confidential Well:	N
Well Number:	34-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	954 GL
Location Desc:	Fr W/4 cor 1155N 1485E
GIS Source Code:	hud
Comments:	FR W/4 COR 1155N 148
Latitude:	34.99663
Longitude:	-118.8947

---

27 **PENNANT PETROLEUM CORP.** **UIC** **S111498820**
N/A

KERN (County), CA

UIC:

API Number:	02918926
Confidential Well:	N
Well Number:	34-12
Direction:	Unknown
Lease Name:	Schoettler
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 1155N 165E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99624
Longitude:	-118.8992

---

28 **PENNANT PETROLEUM CORP.** **UIC** **S111498819**
N/A

KERN (County), CA

UIC:

API Number:	02918925
Confidential Well:	N
Well Number:	34-10
Direction:	Unknown
Lease Name:	Schoettler

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498819**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 RT
Location Desc:	Fr NW cor 1485S 560E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8977

---

29 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498809**
N/A

KERN (County), CA

UIC:

API Number:	02918915
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Crane
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	945 GL
Location Desc:	Fr W/4 cor 1155N 1155E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99623
Longitude:	-118.8959

---

30 **PENNANT PETROLEUM CORP.** **UIC** **S111498815**
N/A

KERN (County), CA

UIC:

API Number:	02918921
Confidential Well:	N
Well Number:	34-6
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	970 GL

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498815**

Location Desc:	Fr W/4 cor 990N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99580
Longitude:	-118.8965

---

31 **PENNANT PETROLEUM CORP.** **UIC** **S111498814**
N/A

KERN (County), CA

UIC:

API Number:	02918920
Confidential Well:	N
Well Number:	34-5
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	976 GL
Location Desc:	Fr W/4 cor 990N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99579
Longitude:	-118.8987

---

32 **ARCO WESTERN ENERGY** **UIC** **S111535499**
N/A

KERN (County), CA

UIC:

API Number:	02957938
Confidential Well:	N
Well Number:	43A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	Not reported
Location Desc:	Fr ctr 870N 600W
GIS Source Code:	hud
Comments:	FR CTR COR 870N 600W
Latitude:	34.99578
Longitude:	-118.8929

Map ID	Site	Database(s)	EPA ID Number

33 **ARCO WESTERN ENERGY** **UIC** **S111530070**
N/A

KERN (County), CA

UIC:

API Number:	02951966
Confidential Well:	N
Well Number:	45A-34
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 KB
Location Desc:	Fr ctr 870N 200W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 870N 2
Latitude:	34.99578
Longitude:	-118.8915

---

35 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498810**
N/A

KERN (County), CA

UIC:

API Number:	02918916
Confidential Well:	N
Well Number:	2
Direction:	Directionally drilled
Lease Name:	Crane
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	Fr W/4 cor 605N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99474
Longitude:	-118.8965

---

36 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111606700**
N/A

KERN (County), CA

UIC:

API Number:	03044320
Confidential Well:	N
Well Number:	18-34
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111606700**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 KB
Location Desc:	fro SW cor 3743N 1600E
GIS Source Code:	opr
Comments:	Not reported
Latitude:	34.99468
Longitude:	-118.8944

---

37 **PENNANT PETROLEUM CORP.** **UIC** **S111498816**
N/A

KERN (County), CA

UIC:

API Number:	02918922
Confidential Well:	N
Well Number:	34-8
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	986 GL
Location Desc:	Fr W/4 cor 330N 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99448
Longitude:	-118.8987

---

37 **PENNANT PETROLEUM CORP.** **UIC** **S111540004**
N/A

KERN (County), CA

UIC:

API Number:	02962777
Confidential Well:	N
Well Number:	15
Direction:	Unknown
Lease Name:	Woodland Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	996 KB

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111540004**

Location Desc:	Fr W/4 cor 430N 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99427
Longitude:	-118.8986

---

38 **PENNANT PETROLEUM CORP.** **UIC** **S111498812**
N/A

KERN (County), CA

UIC:

API Number:	02918918
Confidential Well:	N
Well Number:	34-3
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	960 GL
Location Desc:	Fr ctr 330N 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99430
Longitude:	-118.8920

---

38 **PENNANT PETROLEUM CORP.** **UIC** **S111528796**
N/A

KERN (County), CA

UIC:

API Number:	02950588
Confidential Well:	N
Well Number:	34-13
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	959 GL
Location Desc:	Fr ctr 408N 416W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99421
Longitude:	-118.8923

Map ID	Site	Database(s)	EPA ID Number

39 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111498817**
N/A

KERN (County), CA

UIC:

API Number:	02918923
Confidential Well:	N
Well Number:	34-9
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	980 GL
Location Desc:	Fr W/4 cor 330N 990E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99399
Longitude:	-118.8969

---

40 **PENNANT PETROLEUM CORP.** **UIC** **S111498813**
N/A

KERN (County), CA

UIC:

API Number:	02918919
Confidential Well:	N
Well Number:	34-4
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	977 KB
Location Desc:	Fr W/4 cor 330N 1650E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99398
Longitude:	-118.8942

---

41 **PENNANT PETROLEUM CORP.** **UIC** **S111498811**
N/A

KERN (County), CA

UIC:

API Number:	02918917
Confidential Well:	N
Well Number:	34-2
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon

Map ID	Site	Database(s)	EPA ID Number

PENNANT PETROLEUM CORP. (Continued) **S111498811**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	961 GL
Location Desc:	Fr ctr 162N 181W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99390
Longitude:	-118.8914

---

41 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111565841**
N/A

KERN (County), CA

UIC:

API Number:	03000853
Confidential Well:	N
Well Number:	34-44X
Direction:	Unknown
Lease Name:	Ridge Hill-Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	959 GL
Location Desc:	Fr ctr 247N 256W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99377
Longitude:	-118.8918

---

42 **E & B NATURAL RESOURCES MANAGEMENT CORPORATION** **UIC** **S111529379**
N/A

KERN (County), CA

UIC:

API Number:	02951222
Confidential Well:	N
Well Number:	34-14
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	962 GL

Map ID	Site	Database(s)	EPA ID Number

E & B NATURAL RESOURCES MANAGEMENT CORPORATION (Continued) **S111529379**

Location Desc:	Fr ctr 160N 406W
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.99351
Longitude:	-118.8923

---

43 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498769**
N/A

KERN (County), CA

UIC:

API Number:	02918875
Confidential Well:	N
Well Number:	45-34
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	34
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	974 KB
Location Desc:	Fr ctr 165S 165W
GIS Source Code:	hud
Comments:	FR CTR OF SEC 165S 1
Latitude:	34.99304
Longitude:	-118.8914

---

45 **ARCO WESTERN ENERGY** **UIC** **S111498741**
N/A

KERN (County), CA

UIC:

API Number:	02918847
Confidential Well:	N
Well Number:	12-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1009 GL
Location Desc:	Fr E/4 cor 330S 990W
GIS Source Code:	hud
Comments:	FR E/4 COR 330S 990W
Latitude:	34.99264
Longitude:	-118.9030

Map ID	Site	Database(s)	EPA ID Number

48 **RESERVE OIL, INC.** **UIC** **S111498737**
N/A

KERN (County), CA

UIC:

API Number:	02918843
Confidential Well:	N
Well Number:	6-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1009 DF
Location Desc:	Fr E/4 cor 330S 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99261
Longitude:	-118.9009

---

50 **RESERVE OIL, INC.** **UIC** **S111498753**
N/A

KERN (County), CA

UIC:

API Number:	02918859
Confidential Well:	N
Well Number:	65-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1024 KB
Location Desc:	Fr ctr 330S 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99257
Longitude:	-118.9053

---

51 **ARCO WESTERN ENERGY** **UIC** **S111498742**
N/A

KERN (County), CA

UIC:

API Number:	02918848
Confidential Well:	N
Well Number:	13-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111498742**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1017 KB
Location Desc:	Fr ctr 330S 1200E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 1
Latitude:	34.99254
Longitude:	-118.9046

---

52 **ARCO WESTERN ENERGY** **UIC** **S111498734**
N/A

KERN (County), CA

UIC:

API Number:	02918840
Confidential Well:	N
Well Number:	2-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 DF
Location Desc:	Fr ctr 330S 330E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 330S 3
Latitude:	34.99222
Longitude:	-118.9076

---

54 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498754**
N/A

KERN (County), CA

UIC:

API Number:	02918860
Confidential Well:	N
Well Number:	65-R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1018 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498754**

Location Desc:	Fr ctr 700S 1420E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 700S 1
Latitude:	34.99177
Longitude:	-118.9038

---

55 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498748**
N/A

KERN (County), CA

UIC:

API Number:	02918854
Confidential Well:	N
Well Number:	56-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1025 KB
Location Desc:	Fr ctr 615S 380E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 615S 3
Latitude:	34.99171
Longitude:	-118.9074

---

62 **RESERVE OIL, INC.** **UIC** **S111498735**
N/A

KERN (County), CA

UIC:

API Number:	02918841
Confidential Well:	N
Well Number:	3-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr ctr 960S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99094
Longitude:	-118.9075

Map ID	Site	Database(s)	EPA ID Number
63	**RESERVE OIL, INC.**	UIC	S111498756
			N/A

KERN (County), CA

UIC:

API Number:	02918862
Confidential Well:	N
Well Number:	66R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1029 KB
Location Desc:	Fr ctr 950S 620E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.99085
Longitude:	-118.9063

63	**VINTAGE PRODUCTION CALIFORNIA LLC**	UIC	S111498749
			N/A

KERN (County), CA

UIC:

API Number:	02918855
Confidential Well:	N
Well Number:	57-V-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1033 KB
Location Desc:	Fr ctr 1100S 660E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1100S
Latitude:	34.99042
Longitude:	-118.9063

64	**VINTAGE PRODUCTION CALIFORNIA LLC**	UIC	S111498755
			N/A

KERN (County), CA

UIC:

API Number:	02918861
Confidential Well:	N
Well Number:	66-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498755**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1021 KB
Location Desc:	Fr ctr 1000S 990E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1000S
Latitude:	34.99079
Longitude:	-118.9052

---

68 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498760**
N/A

KERN (County), CA

UIC:

API Number:	02918866
Confidential Well:	N
Well Number:	76-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1020 KB
Location Desc:	Fr E/4 cor 990S 850W
GIS Source Code:	hud
Comments:	FR E/4 COR 990S 850W
Latitude:	34.99070
Longitude:	-118.9026

---

70 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498768**
N/A

KERN (County), CA

UIC:

API Number:	02918874
Confidential Well:	N
Well Number:	176-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498768**

Location Desc:	Fr ctr 1055S 1365E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1055S
Latitude:	34.99045
Longitude:	-118.9040

---

73 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S112145418**
N/A

KERN (County), CA

UIC:

API Number:	03048376
Confidential Well:	N
Well Number:	66X-33
Direction:	Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98994
Longitude:	-118.9052

---

74 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S113889459**
N/A

KERN (County), CA

UIC:

API Number:	03050806
Confidential Well:	N
Well Number:	76X-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1045 KB
Location Desc:	Fr SE cor 2012 N & 1077 W
GIS Source Code:	noi
Comments:	Not reported
Latitude:	34.98991
Longitude:	-118.9034

Map ID	Site	Database(s)	EPA ID Number

75 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498766**
N/A

KERN (County), CA

UIC:

API Number:	02918872
Confidential Well:	N
Well Number:	87-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1022 KB
Location Desc:	Fr E/4 cor 1300S 300W
GIS Source Code:	hud
Comments:	FR E/4 COR 1300S 300
Latitude:	34.98990
Longitude:	-118.9009

---

76 **PAULEY PETROLEUM INC.** **UIC** **S111498711**
N/A

KERN (County), CA

UIC:

API Number:	02918817
Confidential Well:	N
Well Number:	57-33
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr ctr 1320S 330E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98987
Longitude:	-118.9075

---

82 **RESERVE OIL, INC.** **UIC** **S111498767**
N/A

KERN (County), CA

UIC:

API Number:	02918873
Confidential Well:	N
Well Number:	157-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498767**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB
Location Desc:	Fr ctr 1430S 760E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98959
Longitude:	-118.9060

---

83 **RESERVE OIL, INC.** **UIC** **S111498757**
N/A

KERN (County), CA

UIC:

API Number:	02918863
Confidential Well:	N
Well Number:	67-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1028 GL
Location Desc:	Fr ctr 1460S 1200E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98947
Longitude:	-118.9047

---

84 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498758**
N/A

KERN (County), CA

UIC:

API Number:	02918864
Confidential Well:	N
Well Number:	67-R-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1035 KB

Map ID	Site	Database(s)	EPA ID Number

VINTAGE PRODUCTION CALIFORNIA LLC (Continued) **S111498758**

Location Desc:	Fr ctr 1425S 1360E
GIS Source Code:	hud
Comments:	FR CTR OF SEC 1425S
Latitude:	34.98947
Longitude:	-118.9041

---

87 **THE PETROL CORP.** **UIC** **S111498714**
N/A

KERN (County), CA

UIC:

API Number:	02918820
Confidential Well:	N
Well Number:	33-5
Direction:	Unknown
Lease Name:	Reserve-Petrol
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1039 GL
Location Desc:	Fr ctr 1550S 990E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98913
Longitude:	-118.9054

---

88 **VINTAGE PRODUCTION CALIFORNIA LLC** **UIC** **S111498761**
N/A

KERN (County), CA

UIC:

API Number:	02918867
Confidential Well:	N
Well Number:	77-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1037 KB
Location Desc:	Fr E/4 cor 1600S 825W
GIS Source Code:	hud
Comments:	FR E/4 COR 1600S 825
Latitude:	34.98913
Longitude:	-118.9025

Map ID	Site	Database(s)	EPA ID Number
98	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111607728** **N/A**

KERN (County), CA

UIC:

API Number:	03045349
Confidential Well:	N
Well Number:	1H-33
Direction:	Horizontally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1053 KB
Location Desc:	Not reported
GIS Source Code:	sum
Comments:	Not reported
Latitude:	34.98798
Longitude:	-118.9052

Map ID	Site	Database(s)	EPA ID Number
100	**VINTAGE PRODUCTION CALIFORNIA LLC**	**UIC**	**S111498750** **N/A**

KERN (County), CA

UIC:

API Number:	02918856
Confidential Well:	N
Well Number:	58-33
Direction:	Not Directionally drilled
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1040 GL
Location Desc:	Fr ctr 1980S 330E
GIS Source Code:	gps
Comments:	Not reported
Latitude:	34.98764
Longitude:	-118.9076

Map ID	Site	Database(s)	EPA ID Number
103	**RESERVE OIL, INC.**	**UIC**	**S111498762** **N/A**

KERN (County), CA

UIC:

API Number:	02918868
Confidential Well:	N
Well Number:	78-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley

Map ID	Site	Database(s)	EPA ID Number

RESERVE OIL, INC. (Continued) **S111498762**

Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1046 KB
Location Desc:	Fr SE cor 990N 990W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98741
Longitude:	-118.9032

---

104 **EDWIN W. PAULEY** **UIC** **S111498710**
N/A

KERN (County), CA

UIC:

API Number:	02918816
Confidential Well:	N
Well Number:	33-9
Direction:	Unknown
Lease Name:	E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1027 DF
Location Desc:	Fr SE cor 963N 405W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.98738
Longitude:	-118.9012

---

105 **RESERVE OIL, INC.** **UIC** **S111498763**
N/A

KERN (County), CA

UIC:

API Number:	02918869
Confidential Well:	N
Well Number:	78A-33
Direction:	Unknown
Lease Name:	Reserve-E. W. Pauley
Well Located On A BLW Lease:	N
Field Name:	Tejon
Area Name:	Central
Section:	33
Township:	11N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1030 GL

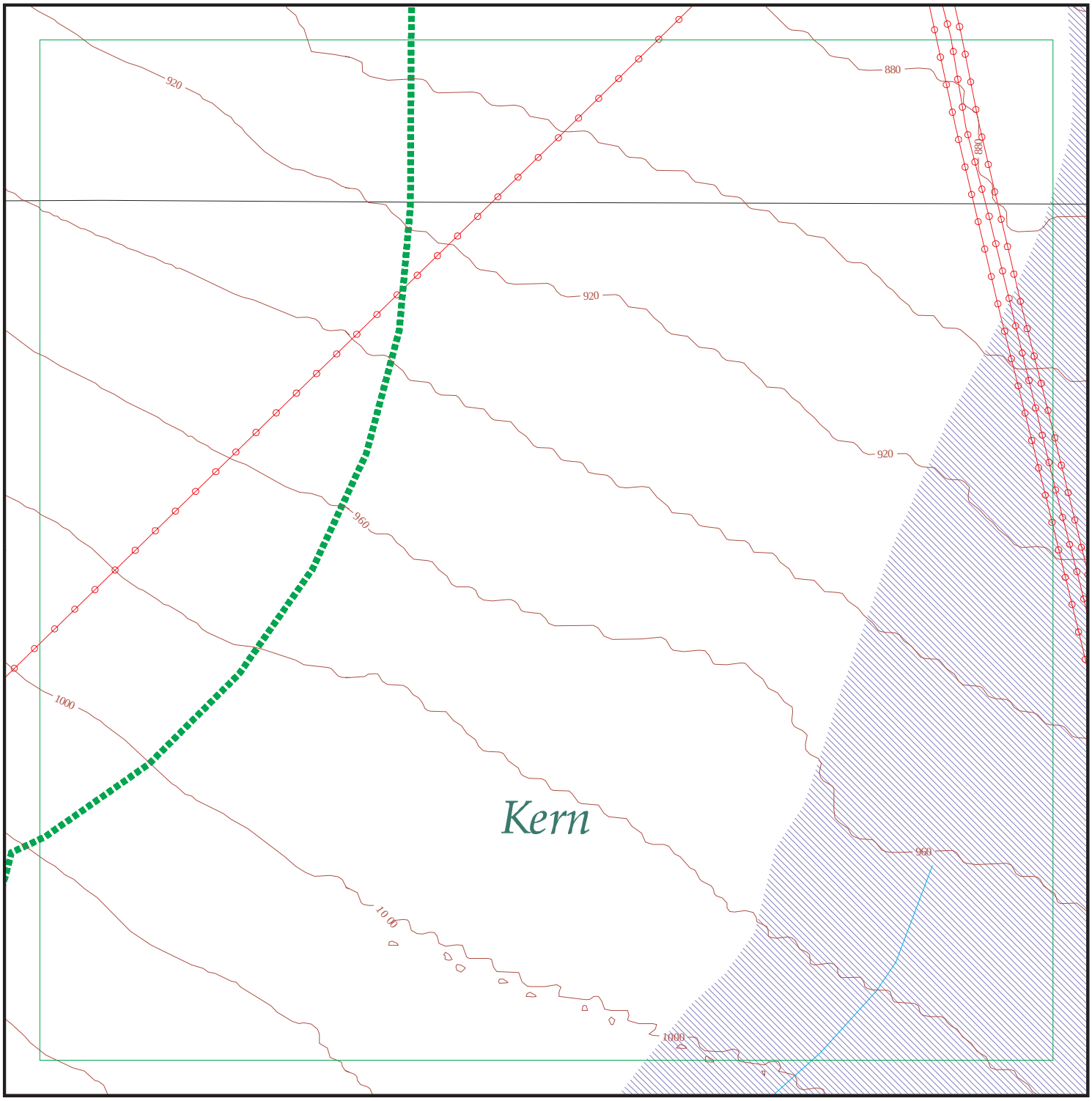
Map ID	Site	Database(s)	EPA ID Number
	RESERVE OIL, INC. (Continued)		**S111498763**
	Location Desc: Fr SE cor 980N 700W		
	GIS Source Code: hud		
	Comments: Not reported		
	Latitude: 34.98716		
	Longitude: -118.9022		

Count: 8 records

FOCUS MAP 11 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 12



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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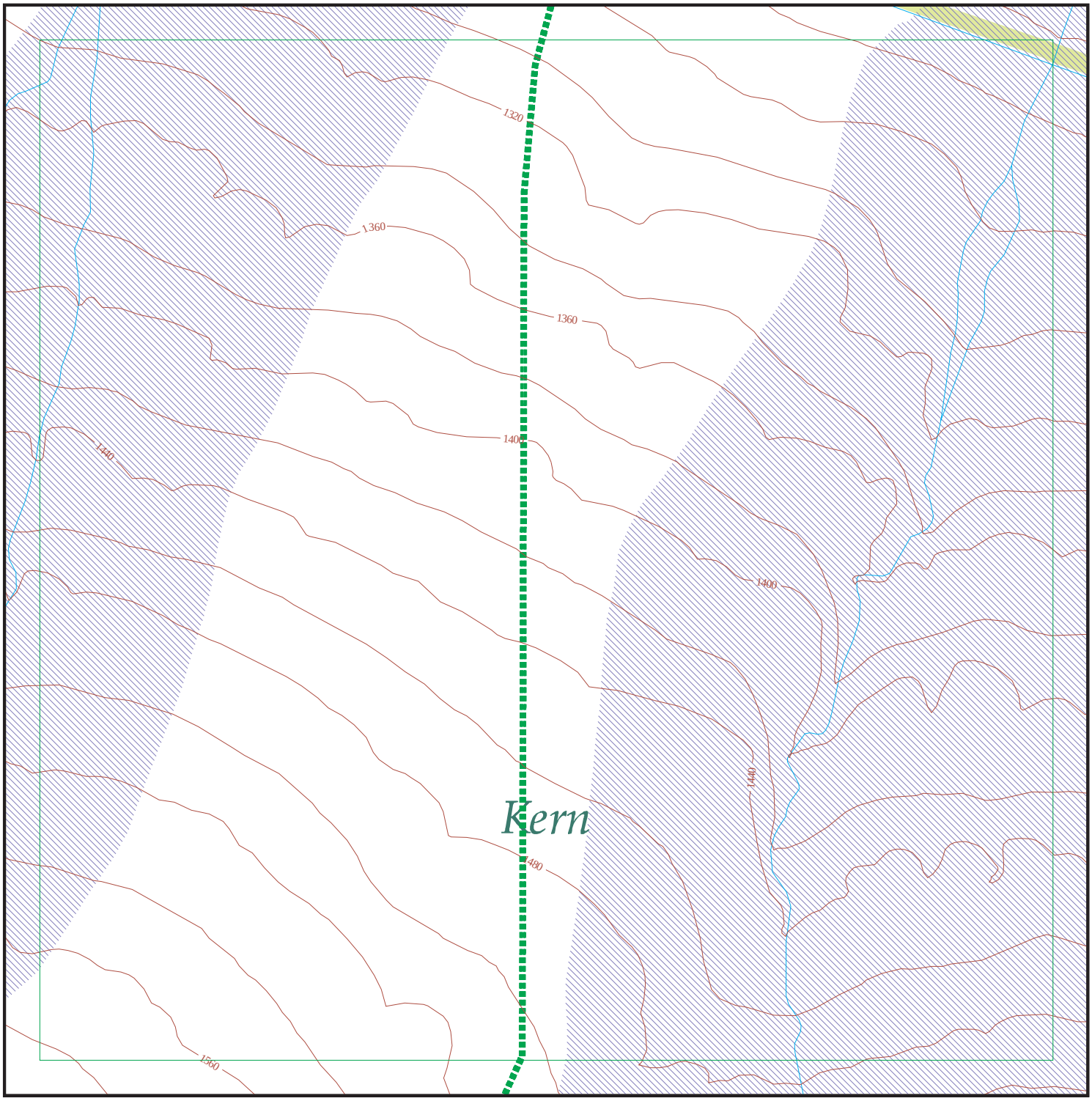
Count: 8 records

FOCUS MAP 12 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 13



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

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- Railroads
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- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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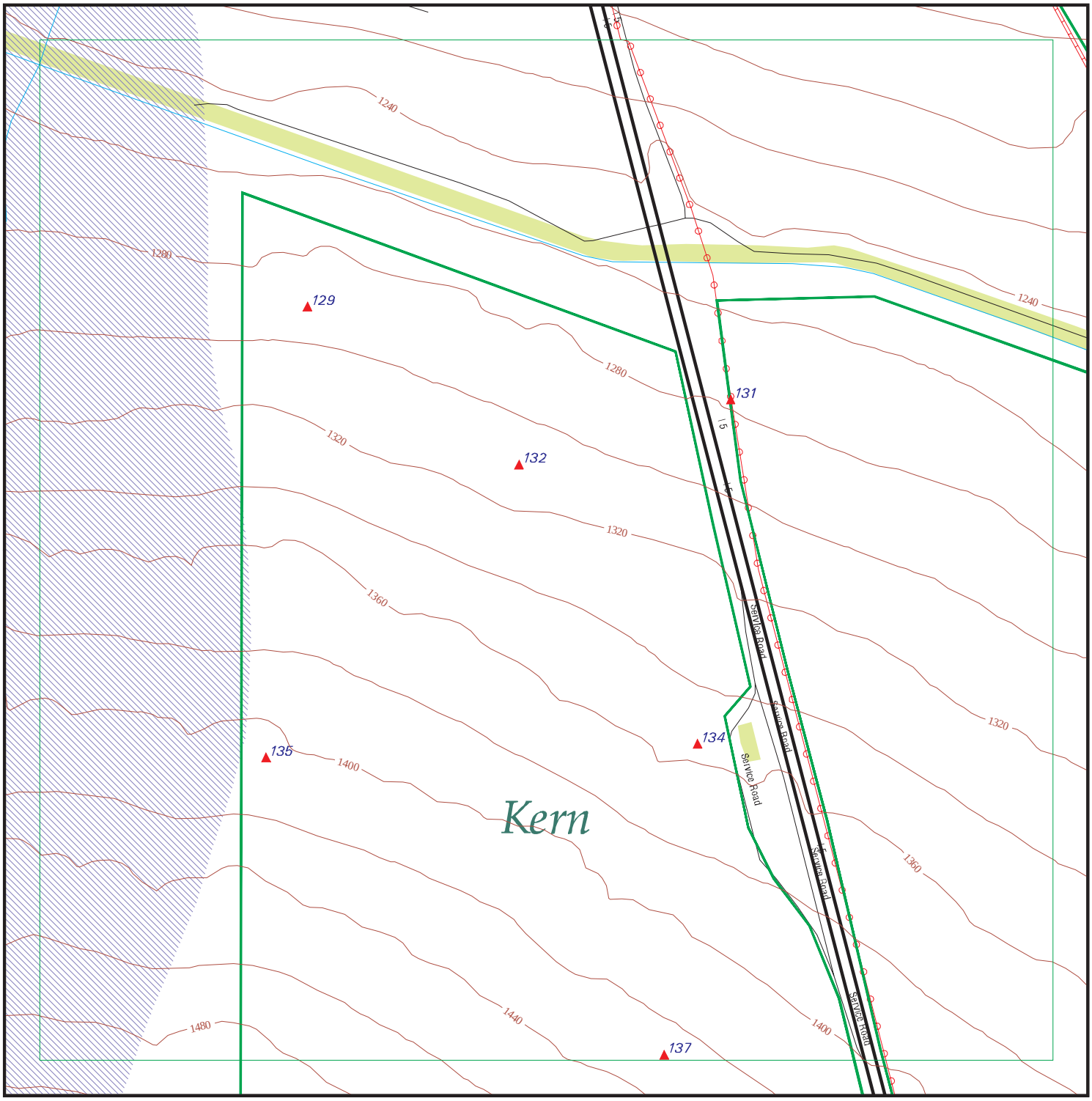
Count: 31 records

FOCUS MAP 13 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 14



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Tejon Grapevine Project

Legend

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- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 14 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 14 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	6
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 14 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
129	**DRILLING & PRODUCTION CO.**	**UIC**	**S111512414** **N/A**

KERN (County), CA

UIC:

API Number:	02932538
Confidential Well:	N
Well Number:	38-6
Direction:	Not Directionally drilled
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	6
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1300 DF
Location Desc:	Fr SW cor 300N 1300E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97069
Longitude:	-118.9492

Map ID	Site	Database(s)	EPA ID Number
131	**101 OIL CO.**	**UIC**	**S111512420** **N/A**

KERN (County), CA

UIC:

API Number:	02932544
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1300 MAT
Location Desc:	Fr NE cor 400S 1000W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96885
Longitude:	-118.9390

Map ID	Site	Database(s)	EPA ID Number
132	**ARCO WESTERN ENERGY**	**UIC**	**S111512401** **N/A**

KERN (County), CA

UIC:

API Number:	02932525
Confidential Well:	N
Well Number:	9
Direction:	Unknown
Lease Name:	Tejon

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512401**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1310 MAT
Location Desc:	Fr NE cor 877S 2508W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96756
Longitude:	-118.9441

---

134 **ARCO WESTERN ENERGY** **UIC** **S111512400**
N/A

KERN (County), CA

UIC:

API Number:	02932524
Confidential Well:	N
Well Number:	4
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1357 MAT
Location Desc:	Fr SE cor 2416N 1219W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96202
Longitude:	-118.9398

---

135 **ARCO WESTERN ENERGY** **UIC** **S111512402**
N/A

KERN (County), CA

UIC:

API Number:	02932526
Confidential Well:	N
Well Number:	25-7
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1415 MAT

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512402**

Location Desc:	Fr W/4 cor 339S 989E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96175
Longitude:	-118.9502

---

137 **ARCO WESTERN ENERGY** **UIC** **S111512399**
N/A

KERN (County), CA

UIC:

API Number:	02932523
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1429 MAT
Location Desc:	Fr SE cor 144N 1431W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95586
Longitude:	-118.9406

Count: 49 records

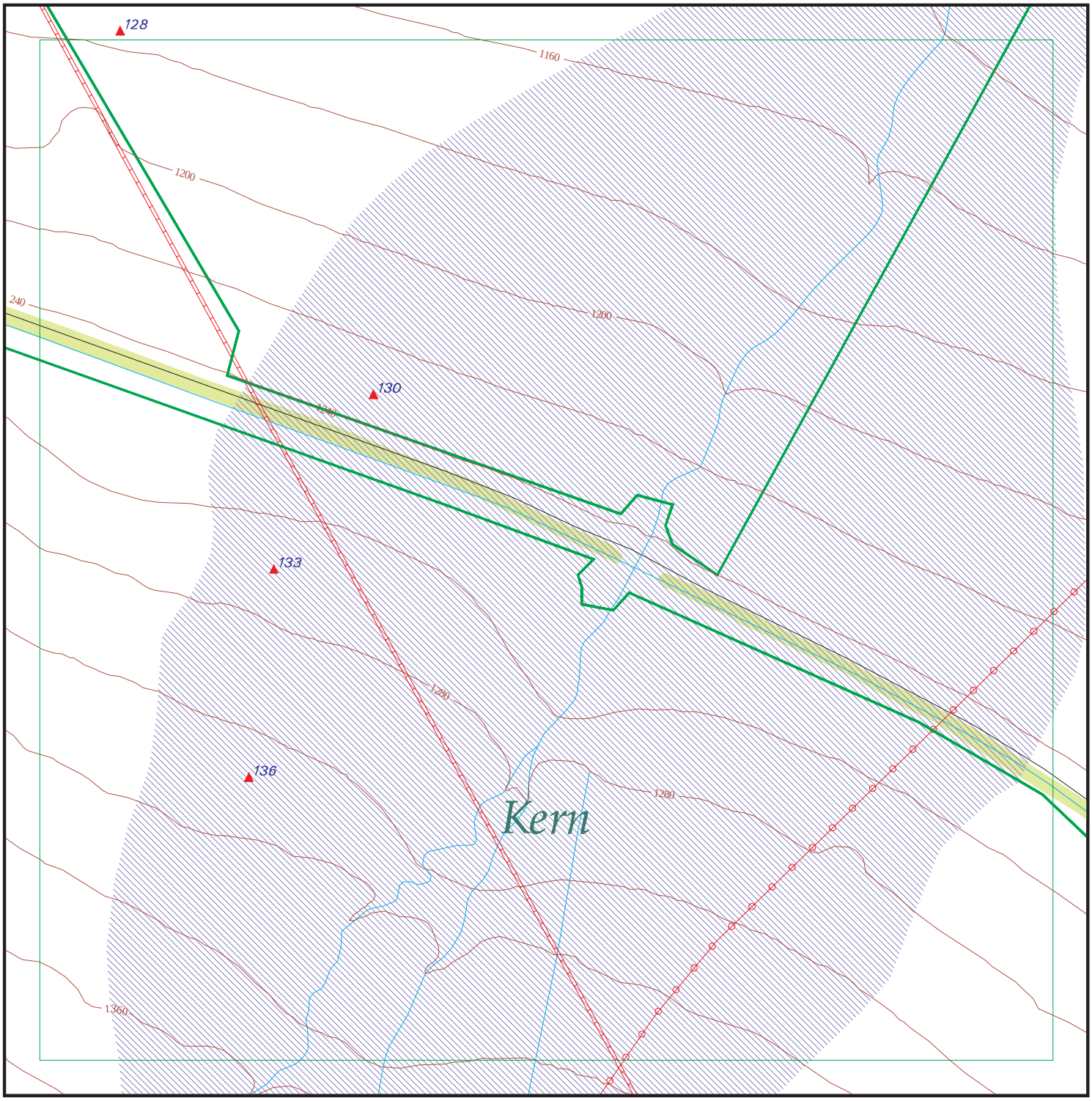
FOCUS MAP 14 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERFIELD	S106931111	RANCH #50	2 MILES E OF HWY 99 ON	93307	SWEEPS UST
BAKERSFIELD	A100337000	SUN PACIFIC FARMING COOP INC- DULCE	14321 HWY 166	93307	AST
BAKERSFIELD	U001584407	EDISON FIELD OFFICE	RR 5 BOX 474	93307	HIST UST, SWEEPS UST
BAKERSFIELD	U001584488	ROD MCLELLAN CO.	RR 5 BOX 548	93307	HIST UST
BAKERSFIELD	U001584442	K F LYTLE PRODUCTION SERVICE	RR 5 BOX 330	93307	HIST UST, SWEEPS UST
BAKERSFIELD	S106927830	JOANNA REED	RR 5 BOX 502	93307	SWEEPS UST
BAKERSFIELD	U001584477	RALPH H. MOSESIAN INCORPORATED	RR 5 BOX 369	93307	HIST UST
BAKERSFIELD	U001584399	CLENDENEN CHRISTMAS TREE FARM,	RR 5 BOX 351	93307	HIST UST
BAKERSFIELD	S106924716	CLENDENEN CHRISTMAS TREE FARM	RR 5 BOX 351	93307	SWEEPS UST
BAKERSFIELD	U001584440	JOANNA REED	RR 5 BOX 502	93307	HIST UST
BAKERSFIELD	S105022637	BAKERSFIELD WWTP #2	HWY 58 & MT VERNON	93307	HIST CORTESE
BAKERSFIELD	U001584509	THE WILLIAM MOSESIAN CORP.	RT. 6 (PANAMA RD)	93307	HIST UST
BAKERSFIELD	S101620475	KEN'S CHEVRON	HWY 99 & 166 METTLER	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	S102003497	RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	WDS
BAKERSFIELD	S111211733	BAKERSFIELD RECYCLING PROJECT	ADJ TO CITY PLANT #2	93307	ENF
BAKERSFIELD	S105022631	CHEVRON TRUCK STOP #9-259	BUNDAGE & HWY 58	93307	HIST CORTESE
BAKERSFIELD	U004111760	STEPHENS PROPERTY	N/W COR TAFT HWY & STINE	93307	UST
BAKERSFIELD	U004113551	GIUMARRA VINEYARDS CORP	EDISON HWY	93307	UST
BAKERSFIELD	U004111768	EDISON CITRUS (LEHR BROS)	EDISON HWY	93307	UST
BAKERSFIELD	S101620487	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HWY	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584474	PRODUCERS COTTON OIL COMPANY W	29873 GOLDEN STATE HIGHWAY	93307	HIST UST
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
BAKERSFIELD	1000250313	PACIFIC BELL	MARICOPA HIGHWAY & HIGHWAY 99	93307	RCRA-SQG
BAKERSFIELD	S106923601	BRUNO SANDRINI	1 1-2 MI SO OF TAFT HWY ON	93307	SWEEPS UST
BAKERSFIELD	U001584393	BRUNO SANDRINI	1 1/2 MI. SO. OF TAFT HWY ON W	93307	HIST UST
BAKERSFIELD	S101620490	RANCH #8	9 MILES E OF HWY 99 ON	93307	CA FID UST, SWEEPS UST
BAKERSFIELD	U001584479	RANCH #8	9 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	U001584478	RANCH #50	2 MILES EAST OF HIGHWAY 99 ON	93307	HIST UST
BAKERSFIELD	A100340542		2MI W/BV 1.75MI S/STOCKDALE HWY STOCKDALE HWY	93307	AST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST

Count: 49 records FOCUS MAP 14 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
METTLER	U001584481	RENEGADE TRUCK STOP	ROUTE #2 BOX 446-C	93307	HIST UST
METTLER	S106931374	RIDGE GINNING COMPANY, INC.	HWY 99 & COPUS RD FR	93307	SWEEPS UST
METTLER	S103065384	RENEGADE TEXACO TRUCK STO	30049 GOLDEN STATE	93307	HIST CORTESE
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 15



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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N

0 1/8 1/4

Scale in Miles

FOCUS MAP 15 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 15 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	4
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 15 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

128 **THE DOW CHEMICAL COMPANY** **UIC** **S111535447**
N/A

KERN (County), CA

UIC:

API Number:	02957884
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	DDCP-Tejon Ranch NWRS
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	5
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1187 KB
Location Desc:	Fr W/4 cor 400S 1800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.97616
Longitude:	-118.9293

---

130 **ARCO WESTERN ENERGY** **UIC** **S111512407**
N/A

KERN (County), CA

UIC:

API Number:	02932531
Confidential Well:	N
Well Number:	61-8
Direction:	Unknown
Lease Name:	Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1239 KB
Location Desc:	Fr NE cor 342S 1650W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96895
Longitude:	-118.9232

---

133 **ARCO WESTERN ENERGY** **UIC** **S111512406**
N/A

KERN (County), CA

UIC:

API Number:	02932530
Confidential Well:	N
Well Number:	53-8
Direction:	Unknown
Lease Name:	Tejon A

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512406**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1271 KB
Location Desc:	Fr NE cor 1607S 2340W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96549
Longitude:	-118.9256

---

136 **ARCO WESTERN ENERGY** **UIC** **S111512405**
N/A

KERN (County), CA

UIC:

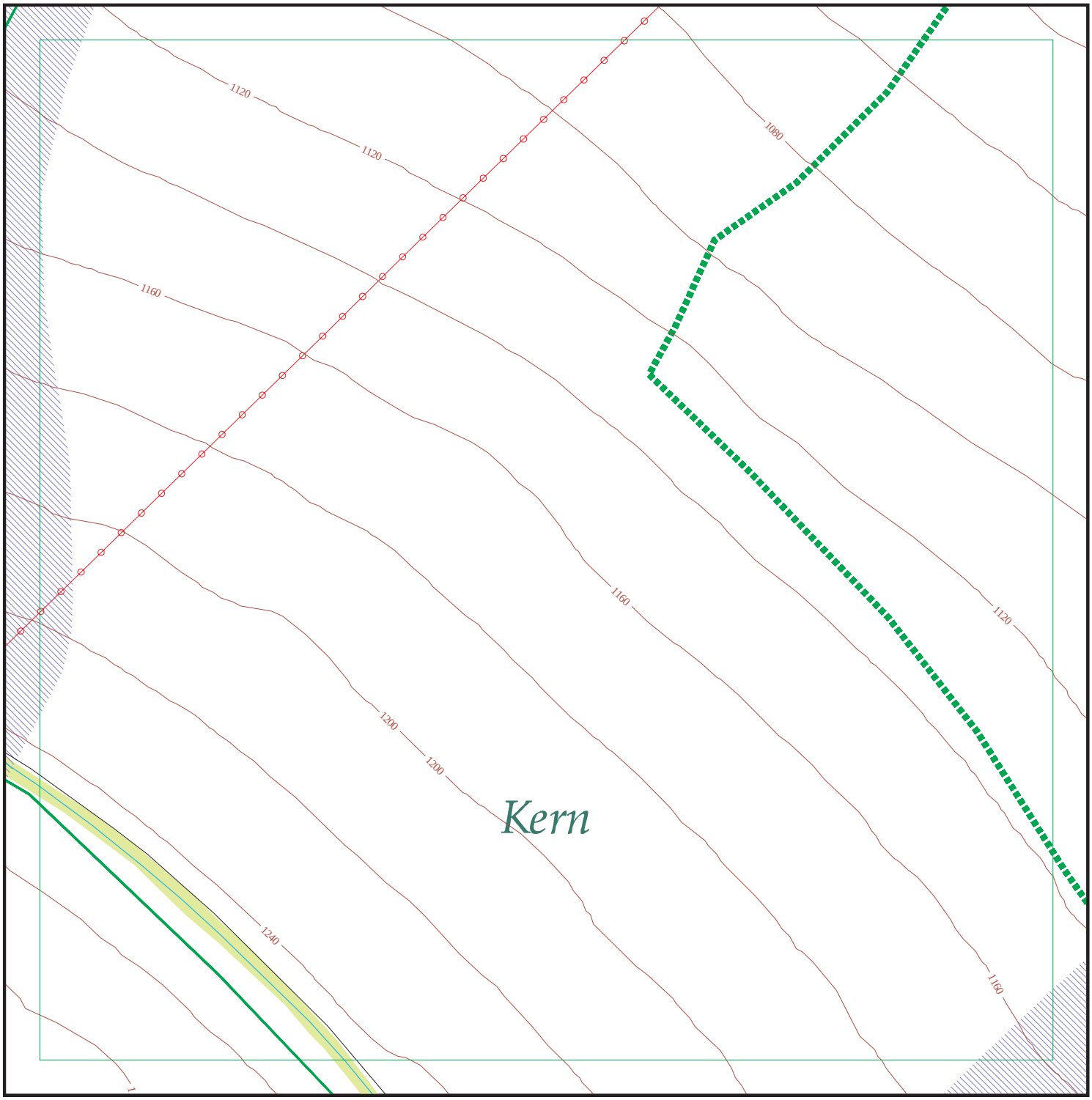
API Number:	02932529
Confidential Well:	N
Well Number:	13
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	8
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1304 MAT
Location Desc:	Fr SW cor 2191N 2820E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.96136
Longitude:	-118.9262

Count: 8 records

FOCUS MAP 15 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 16



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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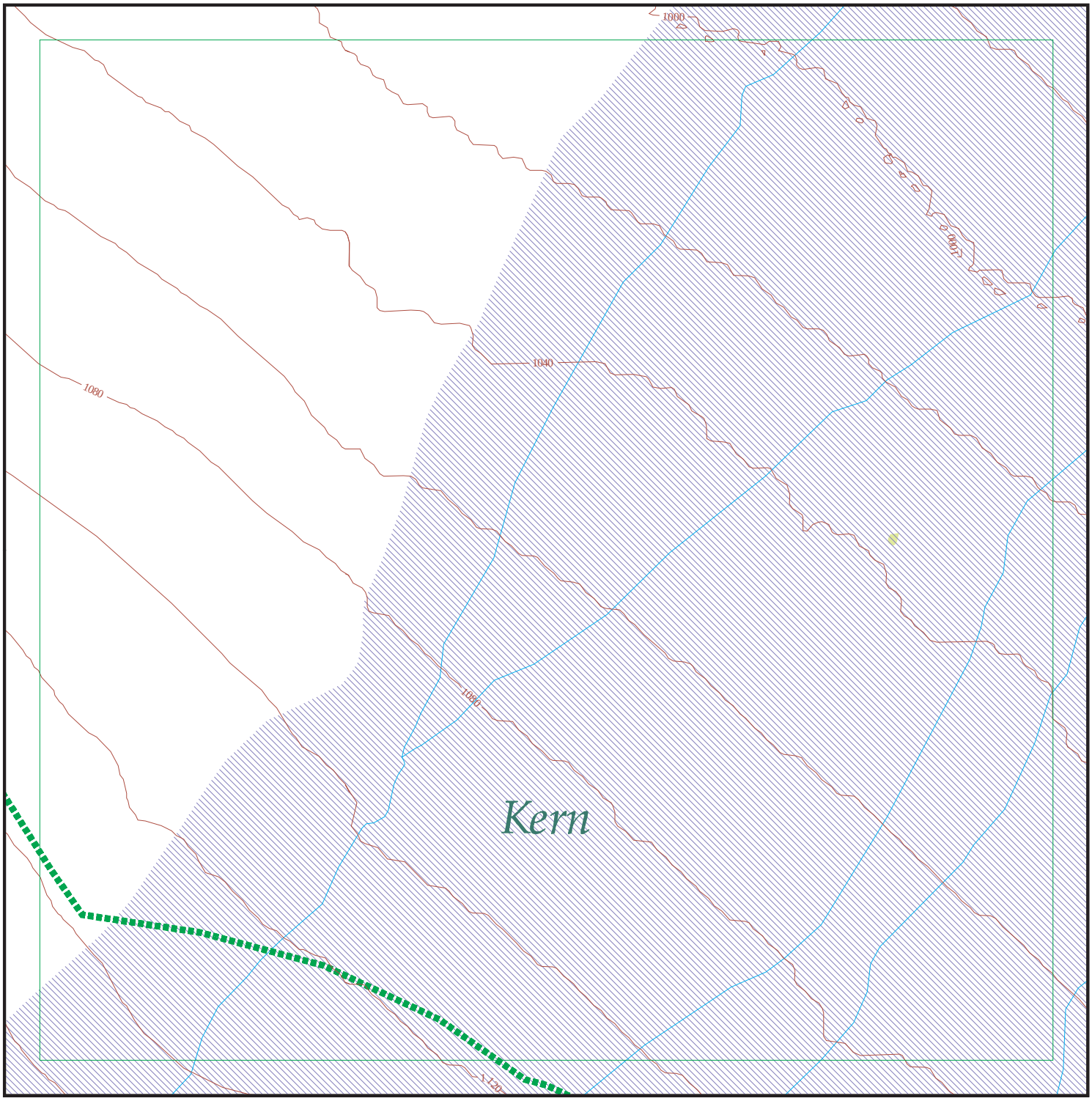
Count: 8 records

FOCUS MAP 16 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 17



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

Roads	Waterways	Powerlines	Water	Listed Sites
Major Roads	Railroads	Pipelines	Superfund Sites	Sensitive Receptors
Contour Lines	Study Boundary	Fault Lines	Federal DOD Sites	
National Wetlands Inventory	100-Yr Flood Zones	Indian Reservations BIA		

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N

0 1/8 1/4

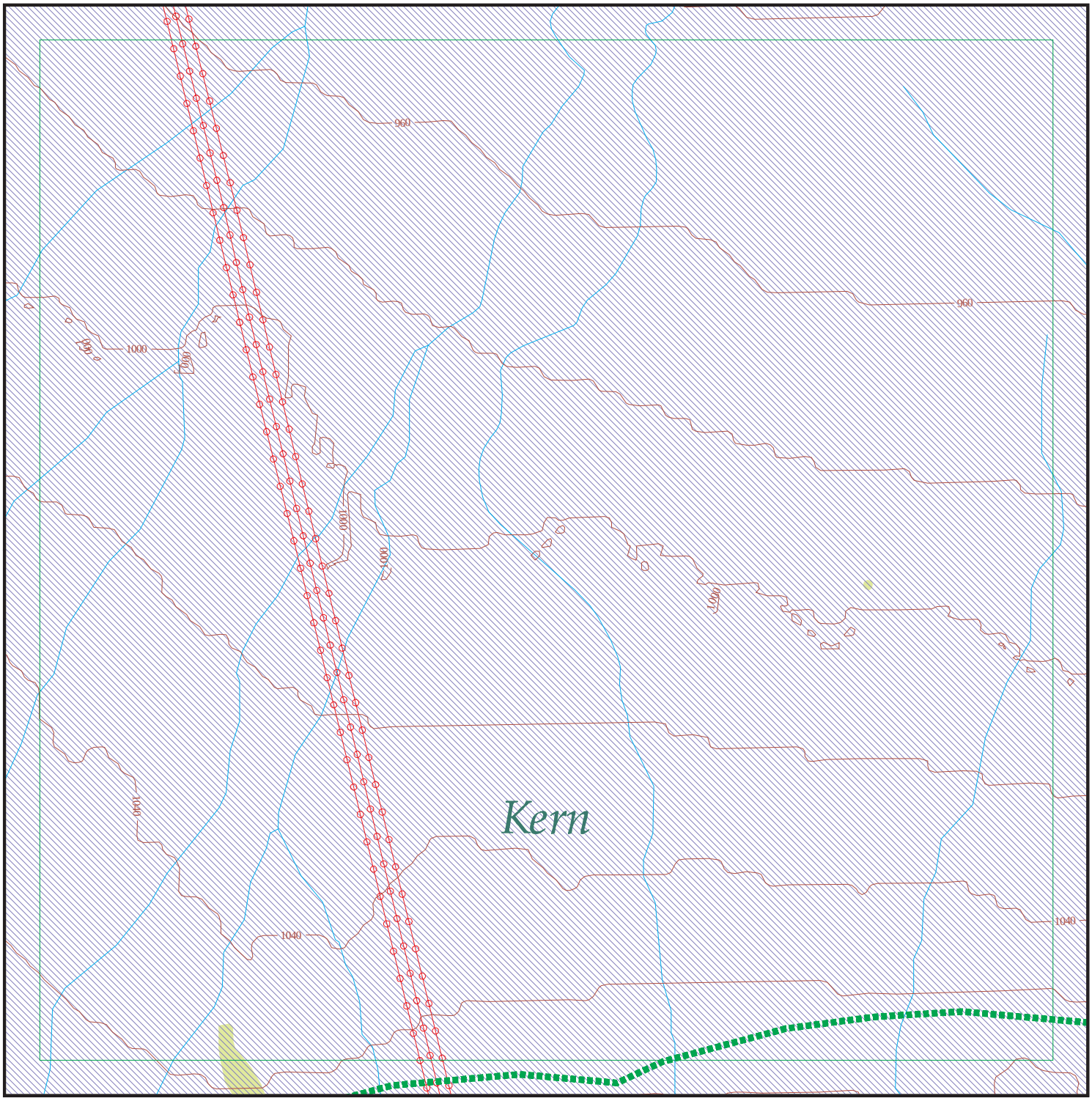
Scale in Miles

Count: 8 records

FOCUS MAP 17 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 18



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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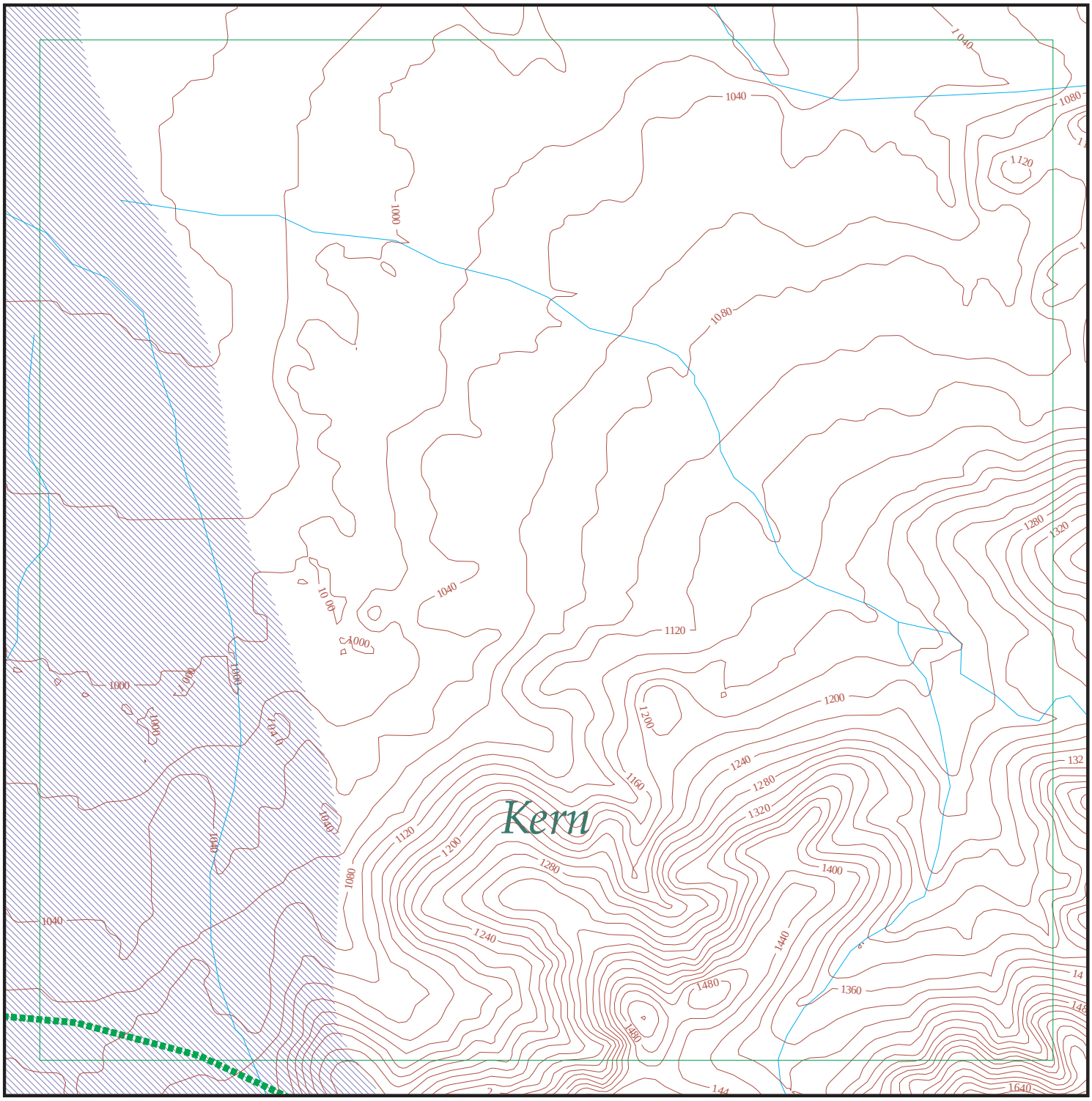
Count: 13 records

FOCUS MAP 18 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 19



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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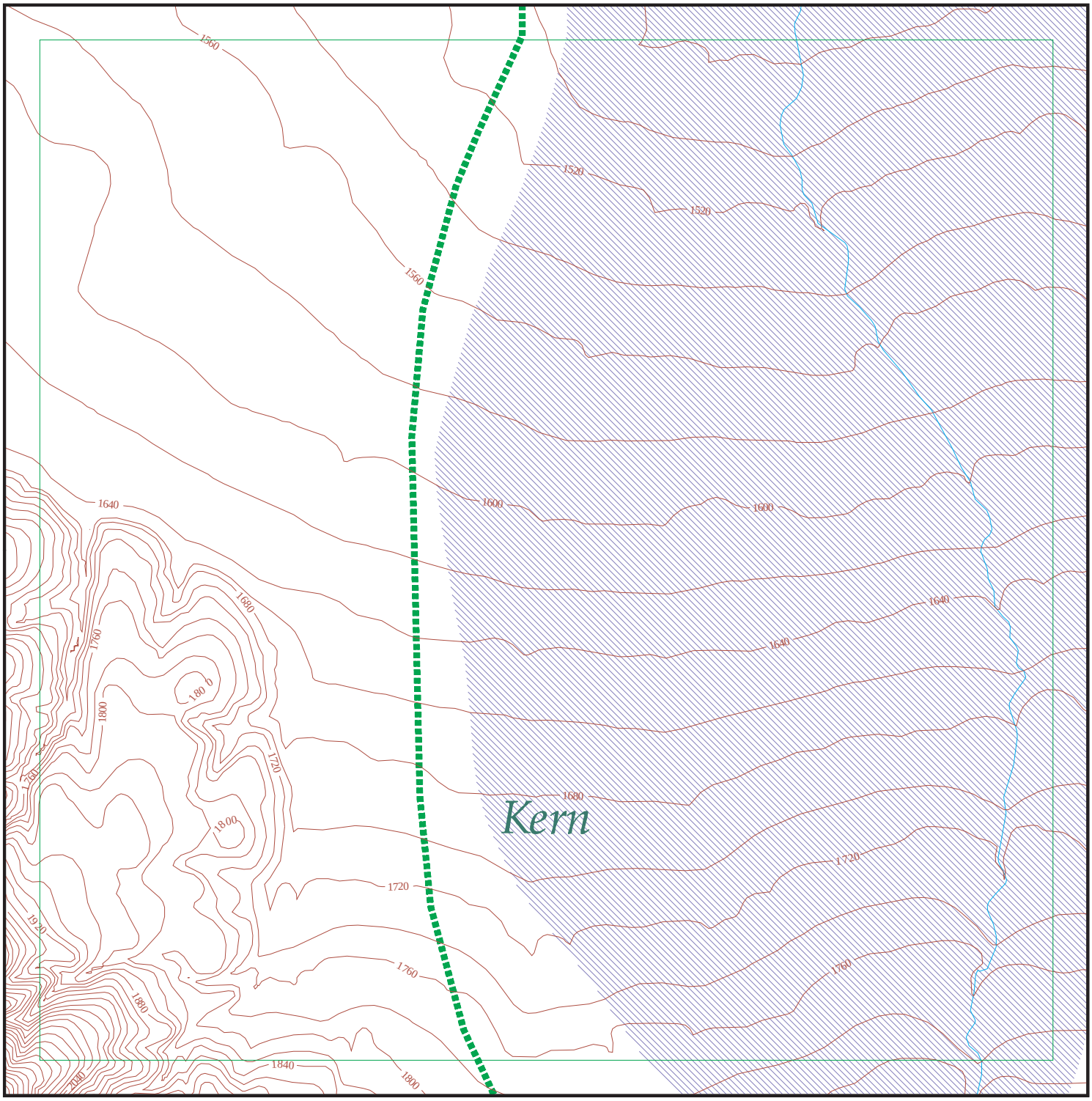
Count: 6 records

FOCUS MAP 19 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 20



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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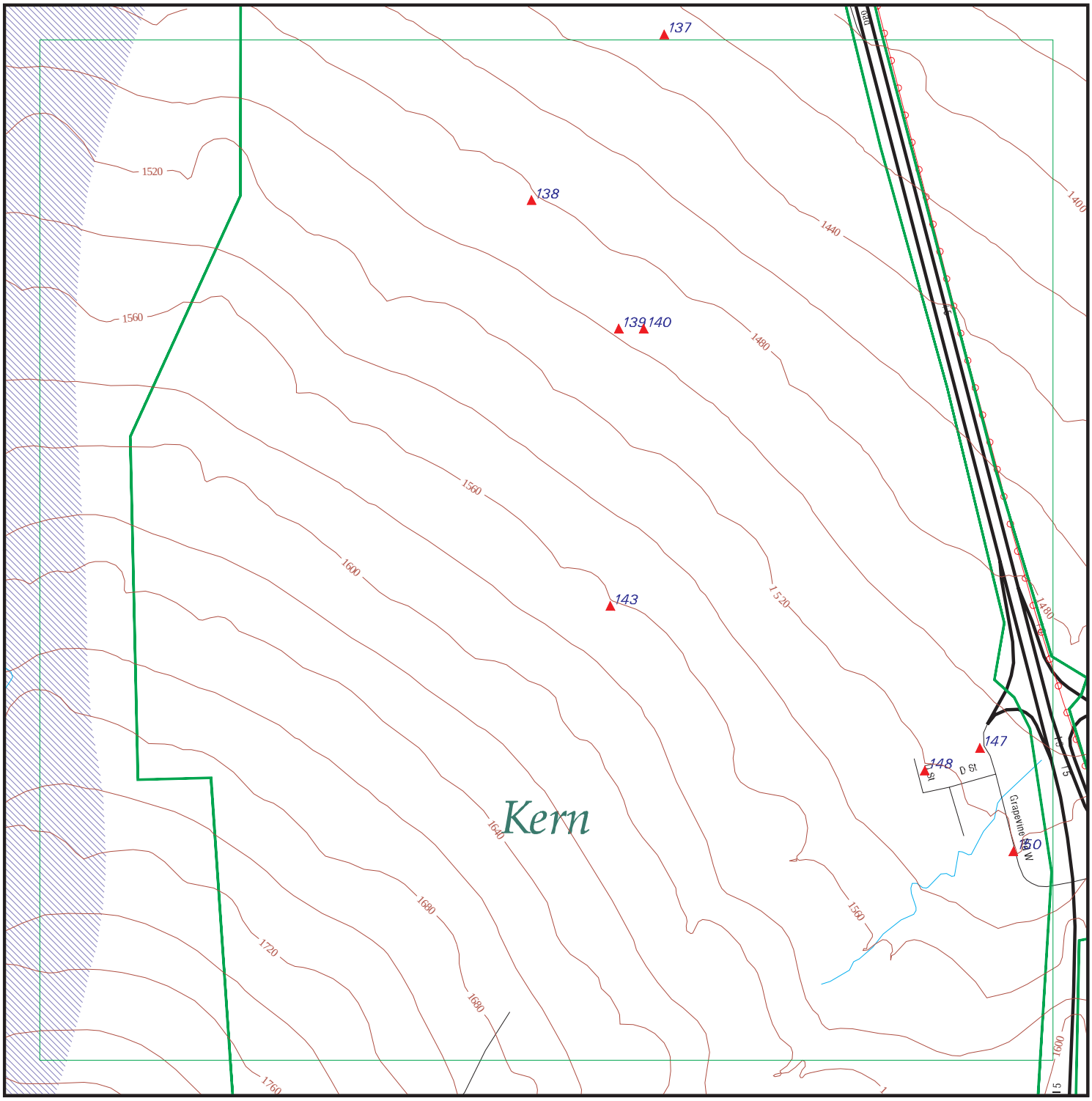
Count: 8 records

FOCUS MAP 20 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 21



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 21 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	1
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	2
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 21 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	5
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	1
SWRCY	0
LUST	2
CA FID UST	0
SLIC	0
UST	3
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	1
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	3
EMI	4
ENVIROSTOR	0
HAULERS	0
RGA LUST	1
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 21 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	3
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

137 **ARCO WESTERN ENERGY** **UIC** **S111512399**
N/A

KERN (County), CA

UIC:

API Number:	02932523
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	7
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1429 MAT
Location Desc:	Fr SE cor 144N 1431W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95586
Longitude:	-118.9406

---

138 **PHILLIPS PETROLEUM COMPANY** **UIC** **S111512423**
N/A

KERN (County), CA

UIC:

API Number:	02932547
Confidential Well:	N
Well Number:	52
Direction:	Unknown
Lease Name:	Richfield-Tejon A
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1482 KB
Location Desc:	Fr NE cor 990S 2310W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95257
Longitude:	-118.9438

---

139 **ARCO WESTERN ENERGY** **UIC** **S111512413**
N/A

KERN (County), CA

UIC:

API Number:	02932537
Confidential Well:	N
Well Number:	8-A
Direction:	Unknown
Lease Name:	Tejon

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512413**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1492 MAT
Location Desc:	Fr NE cor 1898S 1630W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95002
Longitude:	-118.9417

---

140 **ARCO WESTERN ENERGY** **UIC** **S111512412**
N/A

KERN (County), CA

UIC:

API Number:	02932536
Confidential Well:	N
Well Number:	8
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1490 MAT
Location Desc:	Fr NE cor 1848S 1625W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.95002
Longitude:	-118.9411

---

143 **ARCO WESTERN ENERGY** **UIC** **S111512411**
N/A

KERN (County), CA

UIC:

API Number:	02932535
Confidential Well:	N
Well Number:	2
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	18
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1557 MAT

Map ID	Site	Database(s)	EPA ID Number

ARCO WESTERN ENERGY (Continued) **S111512411**

Location Desc: Fr NE cor 3838S 1825W
GIS Source Code: unk
Comments: Not reported
Latitude: 34.94452
Longitude: -118.9419

---

147 **GRAPEVINE TEXACO** **UST** **U003981590**
9069 W GRAPEVINE RD **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0002317
Latitude: 34.94098
Longitude: -118.93263
Permitting Agency KERN COUNTY

---

147 **ERNS** **92256076**
9068 W. GRAPEVINE RD **N/A**
LABEC, CA

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

---

147 **UNOCAL** **SWEEPS UST** **S106933462**
9068 W GRAPEVINE RD **N/A**
LEBEC, CA 93243

SWEEPS UST:
Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: PRM UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

Map ID	Site	Database(s)	EPA ID Number

UNOCAL (Continued) **S106933462**

Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 30732
Number: Not reported
Board Of Equalization: 44-000051
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-030732-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

---

147 **GRAPEVINE SHELL - SHELL OIL PRODUCTS** **EMI** **S107621065**
9069 GRAPEVINE RD **N/A**
LEBEC, CA

EMI:
Year: 2004
County Code: 15
Air Basin: SJV
Facility ID: 1261
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL - SHELL OIL PRODUCTS (Continued) **S107621065**

Total Organic Hydrocarbon Gases Tons/Yr:	0.91725799
Reactive Organic Gases Tons/Yr:	0.91269181
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9172579899436864403
Reactive Organic Gases Tons/Yr:	.91269181
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

147 **EQUILON ENTERPRISES LLC** **EMI** **S106248425**
9069 GRAPEVINE ROAD **N/A**
LEBEC, CA 93203

EMI:

Year:	2002
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	15
Air Basin:	SJV
Facility ID:	1261
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1

Map ID	Site	Database(s)	EPA ID Number

EQUILON ENTERPRISES LLC (Continued) **S106248425**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

---

147 **UNOCAL #4734** **HIST CORTESE** **S102439989**
9068 GRAPEVINE RD W **LUST** **N/A**
LEBEC, CA 93243

HIST CORTESE:

Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	5T15000477

LUST:

Region:	STATE
Global Id:	T0602900464
Latitude:	34.9411276
Longitude:	-118.9327342
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/10/1993
Lead Agency:	KERN COUNTY
Case Worker:	BLA
Local Agency:	KERN COUNTY
RB Case Number:	5T15000477
LOC Case Number:	330097
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0602900464
Contact Type:	Regional Board Caseworker
Contact Name:	JOHN WHITING
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5F)
Address:	1685 E STREET
City:	FRESNO
Email:	jwhiting@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0602900464
Contact Type:	Local Agency Caseworker
Contact Name:	X -BLAIR REDFEARN
Organization Name:	KERN COUNTY
Address:	TO BE CONFIRMED
City:	TO BE CONFIRMED
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0602900464

Map ID	Site	Database(s)	EPA ID Number

UNOCAL #4734 (Continued) **S102439989**

Status: Open - Case Begin Date
Status Date: 01/06/1992

Global Id: T0602900464
Status: Completed - Case Closed
Status Date: 03/10/1993

Regulatory Activities:
Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 03/10/1993
Action: Technical Correspondence / Assistance / Other

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 01/08/1992
Action: Unauthorized Release Form

Global Id: T0602900464
Action Type: ENFORCEMENT
Date: 03/10/1993
Action: Closure/No Further Action Letter

Global Id: T0602900464
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 5:
Region: 5
Status: Case Closed
Case Number: 5T15000477
Case Type: Soil only
Substance: UNLEAD GASOLINE
Staff Initials: JDW
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Map ID	Site	Database(s)	EPA ID Number
147	**UNOCAL #4734** **9068 GRAPEVINE RD W** **LEBEC, CA**	**RGA LUST**	**S114711238** **N/A**

RGA LUST:

2012	UNOCAL #4734	9068 GRAPEVINE RD W
2011	UNOCAL #4734	9068 GRAPEVINE RD W
2010	UNOCAL #4734	9068 GRAPEVINE RD W
2009	UNOCAL #4734	9068 GRAPEVINE RD W
2008	UNOCAL #4734	9068 GRAPEVINE RD W
2007	UNOCAL #4734	9068 GRAPEVINE RD W
2006	UNOCAL #4734	9068 GRAPEVINE RD W
2005	UNOCAL #4734	9068 GRAPEVINE RD W
2003	UNOCAL #4734	9068 GRAPEVINE RD W
2002	UNOCAL #4734	9068 GRAPEVINE RD W
2001	UNOCAL #4734	9068 GRAPEVINE RD W
2000	UNOCAL #4734	9068 GRAPEVINE RD W
1998	UNOCAL #4734	9068 GRAPEVINE RD W
1997	UNOCAL #4734	9068 GRAPEVINE RD W
1996	UNOCAL #4734	9068 GRAPEVINE RD W
1995	UNOCAL #4734	9068 GRAPEVINE RD W
1994	UNOCAL #4734	9068 GRAPEVINE RD W
1993	UNOCAL #4734	9068 GRAPEVINE RD W

147	**LEBEC SHELL** **9069 GRAPEVINE RD WEST** **LEBEC, CA 93243**	**UST**	**U004120274** **N/A**

147	**TEXACO #610580050** **9069 GRAPEVINE W** **LEBEC, CA 93243**	**LUST**	**S114458578** **N/A**

LUST:

Region:	STATE
Global Id:	T10000005403
Latitude:	0
Longitude:	0
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/03/1992
Lead Agency:	KERN COUNTY
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T10000005403
Status:	Open - Case Begin Date
Status Date:	06/01/1991

Map ID	Site	Database(s)	EPA ID Number

TEXACO #610580050 (Continued) **S114458578**

Regulatory Activities:
Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T10000005403
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

---

147 **EDR US Hist Auto Stat** **1015670240**
9069 GRAPEVINE RD W **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: GRAPEVINE TEXACO
Year: 2003
Address: 9069 GRAPEVINE RD W

Name: GRAPEVINE TEXACO
Year: 2004
Address: 9069 GRAPEVINE RD W

Name: GRAPEVINE TEXACO
Year: 2005
Address: 9069 GRAPEVINE RD W

---

147 **EDR US Hist Auto Stat** **1015670239**
9069 GRAPEVINE RD W **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: GRAPEVINE TEXACO
Year: 1999
Address: 9069 GRAPEVINE RD W

---

148 **CONOCOPHILLIPS COMPANY - 257580** **FINDS** **1008237524**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA

FINDS:

Registry ID: 110055893993

Environmental Interest/Information System
Registry ID: 110021302641

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **1008237524**

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

---

148 **CONOCO PHILLIPS # 257580** **HAZNET** **S113129413**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.042
Facility County:	Kern

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.924
Facility County:	Kern

Year:	2009
Gepaid:	CAL000276973
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.075

Map ID	Site	Database(s)	EPA ID Number

CONOCO PHILLIPS # 257580 (Continued) **S113129413**

Facility County: Kern

Year: 2006
Gepaid: CAL000276973
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD-MO 1001
Mailing City,St,Zip: HOUSTON, TX 77079
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.37
Facility County: Kern

Year: 2004
Gepaid: CAL000276973
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD-MO 1001
Mailing City,St,Zip: HOUSTON, TX 77079
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Recycler
Tons: 0.05
Facility County: Kern

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

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148 **UNOCAL SERVICE STATION #7580** **HAZNET** **S113077281**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:

Year: 1995
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: .7339
Facility County: Kern

Year: 1995
Gepaid: CAL000141229

Map ID	Site	Database(s)	EPA ID Number

UNOCAL SERVICE STATION #7580 (Continued) **S113077281**

Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 9.6951
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 7.3599
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Recycler
Tons: 5.8296
Facility County: Kern

Year: 1994
Gepaid: CAL000141229
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Recycler
Tons: 4.1741
Facility County: Kern

Map ID	Site	Database(s)	EPA ID Number
	UNOCAL SERVICE STATION #7580 (Continued)		**S113077281**

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

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148 **CONOCOPHILLIPS COMPANY - 257580** **EMI** **S103991762**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

EMI:

Year:	2002
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.717246471
Reactive Organic Gases Tons/Yr:	0.670130325
Carbon Monoxide Emissions Tons/Yr:	0.159505089
NOX - Oxides of Nitrogen Tons/Yr:	0.171869825
SOX - Oxides of Sulphur Tons/Yr:	0.000432766
Particulate Matter Tons/Yr:	0.008831954
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.006182368

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **S103991762**

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4467347457285940551
Reactive Organic Gases Tons/Yr:	.4443718027038581
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4248661780465818512
Reactive Organic Gases Tons/Yr:	.4226189058532716
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2007
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3393265314868015094
Reactive Organic Gases Tons/Yr:	.33753170968627895
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2008
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541

Map ID	Site	Database(s)	EPA ID Number

CONOCOPHILLIPS COMPANY - 257580 (Continued) **S103991762**

Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2431124399628549927
Reactive Organic Gases Tons/Yr:	.24179238757324274
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2009
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.239141136137037
Reactive Organic Gases Tons/Yr:	0.23784264714050299
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2010
County Code:	15
Air Basin:	SJV
Facility ID:	2196
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.23919325985620701
Reactive Organic Gases Tons/Yr:	0.237894578
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

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148 **EDR US Hist Auto Stat** **1015669940**

9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:

Name:	GAS AMERICA CORP
Year:	2004
Address:	9058 MOUNTAIN BASE RD

Name:	GAS AMERICA CORP
Year:	2005
Address:	9058 MOUNTAIN BASE RD

Map ID	Site	Database(s)	EPA ID Number
	(Continued)		**1015669940**

Name: GAS AMERICA CORP
Year: 2009
Address: 9058 MOUNTAIN BASE RD

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148 **TOSCO CORP 31383** **HAZNET** **S113060412**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

HAZNET:
Year: 2002
Gepaid: CAL000102547
Contact: HAZMAT SPECIALIST
Telephone: 6027284180
Mailing Name: Not reported
Mailing Address: PO BOX 52085
Mailing City,St,Zip: PHOENIX, AZ 850722085
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.85
Facility County: Kern

Year: 1998
Gepaid: CAL000102547
Contact: TOSCO MARKETING
Telephone: 6027284180
Mailing Name: Not reported
Mailing Address: P O BOX 52085
Mailing City,St,Zip: PHOENIX, AZ 850722085
Gen County: Not reported
TSD EPA ID: CAD982446882
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Tons: .2293
Facility County: Kern

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148 **GAS AMERICA CORP #7580** **UST** **U004113731**
9058 MOUNTAIN BASE RD **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0000091
Latitude: 34.87405
Longitude: -118.88797
Permitting AgencyKERN COUNTY

KERN CO. UST:
Region: Kern
Owner Id: 330177
Owner Name: CONOCO-PHILLIPS COMPANY

Tank Num: 1
Tank Capacity: 15000

Map ID	Site	Database(s)	EPA ID Number

GAS AMERICA CORP #7580 (Continued) **U004113731**

Common Name: UNLEADED

Tank Num: 2
Tank Capacity: 15000
Common Name: PREMIUM

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150 **TEJON MOBIL** **FINDS** **1011992552**
9012 GRAPEVINE RD **N/A**
LEBEC, CA

FINDS:

Registry ID: 110038053664

Environmental Interest/Information System
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

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150 **TEJON MOBIL** **EMI** **S108433423**
9012 GRAPEVINE RD **N/A**
LEBEC, CA 94556

EMI:

Year:	2005
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6940518514100721642
Reactive Organic Gases Tons/Yr:	.690380758
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7518647255347270094
Reactive Organic Gases Tons/Yr:	.7478878387451182

Map ID	Site	Database(s)	EPA ID Number

TEJON MOBIL (Continued) **S108433423**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2007
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6992593901180737028
Reactive Organic Gases Tons/Yr:	.695560752136231
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2008
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4872448996625091006
Reactive Organic Gases Tons/Yr:	.4845992563781747
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2009
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.45667866832501802
Reactive Organic Gases Tons/Yr:	0.45419899362182498
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Map ID	Site	Database(s)	EPA ID Number

TEJON MOBIL (Continued) **S108433423**

Year:	2010
County Code:	15
Air Basin:	SJV
Facility ID:	3750
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.54107506248117998
Reactive Organic Gases Tons/Yr:	0.53813711399999997
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Count: 67 records

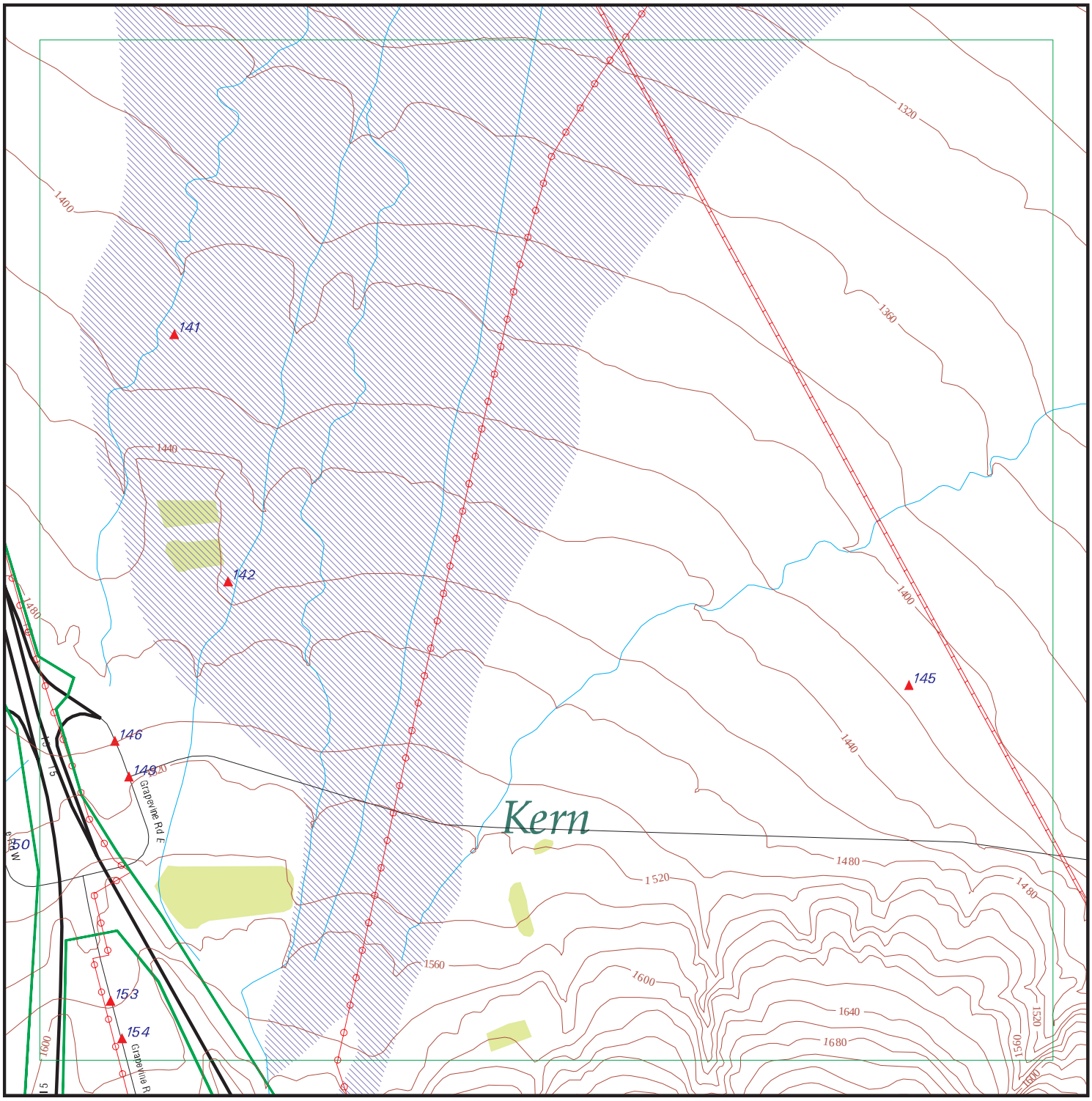
FOCUS MAP 21 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	U004113465	CHEVRON U S A, INC	I-5 & GRAPEVINE/LEBEC	93243	UST
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S106928584	LEBEC ROAD YARD	INTERSTATE 5	93243	SWEEPS UST
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP

Count: 67 records FOCUS MAP 21 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	1005904504	SHELL SERVICE STATION	9069 GRAPEVINE RD		RCRA-SQG, FINDS, SWEEPS UST, HAZNET, EMI
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S106923184	BEAN ANGUS FARM	3 MILES W OF I-5 ON DI	93243	SWEEPS UST
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 22



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

FOCUS MAP 22 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 22 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	3
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	1
CA FID UST	0
SLIC	0
UST	2
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	1
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	3
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	1
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 22 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	2
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

141 **ARCO WESTERN ENERGY** **UIC** **S111512410**
N/A

KERN (County), CA

UIC:

API Number:	02932534
Confidential Well:	N
Well Number:	12
Direction:	Unknown
Lease Name:	Tejon
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	17
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1408 MAT
Location Desc:	Fr NW cor 1872S 2347E
GIS Source Code:	unk
Comments:	Not reported
Latitude:	34.94991
Longitude:	-118.9280

---

142 **L. M. HAMPTON** **UIC** **S111520916**
N/A

KERN (County), CA

UIC:

API Number:	02942426
Confidential Well:	N
Well Number:	1
Direction:	Unknown
Lease Name:	Not reported
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	17
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1471 KB
Location Desc:	Fr NE cor 3682S 2381W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.94501
Longitude:	-118.9267

---

145 **A. M. VAN FLICK** **UIC** **S111512424**
N/A

KERN (County), CA

UIC:

API Number:	02932548
Confidential Well:	N
Well Number:	47
Direction:	Unknown
Lease Name:	Tejon-Richfield

Map ID	Site	Database(s)	EPA ID Number

A. M. VAN FLICK (Continued) **S111512424**

Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	16
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1405 KB
Location Desc:	Fr S/4 cor 990N 330W
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.94295
Longitude:	-118.9103

---

146 **GRAPEVINE SHELL** **RGA LUST** **S114628606**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA

RGA LUST:

2012	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2011	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2010	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2009	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2008	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2007	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2006	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2005	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST
2003	GRAPEVINE SHELL	9067 GRAPEVINE RD EAST

---

146 **GRAPEVINE SHELL** **LUST** **S105557351**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

LUST:

Region:	STATE
Global Id:	T0602910149
Latitude:	34.9391026
Longitude:	-118.9302397
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/11/2009
Lead Agency:	KERN COUNTY
Case Worker:	LAU
Local Agency:	KERN COUNTY
RB Case Number:	5T15000919
LOC Case Number:	600012
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0602910149
Contact Type:	Local Agency Caseworker
Contact Name:	LAUREL FUNK

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL (Continued) **S105557351**

Organization Name: KERN COUNTY
Address: 2700 M STREET, SUITE 300
City: BAKERSFIELD
Email: laurelf@co.kern.ca.us
Phone Number: 6618628763

Global Id: T0602910149
Contact Type: Regional Board Caseworker
Contact Name: JOHN WHITING
Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)
Address: 1685 E STREET
City: FRESNO
Email: jwhiting@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0602910149
Status: Open - Case Begin Date
Status Date: 09/15/1998

Global Id: T0602910149
Status: Open - Site Assessment
Status Date: 04/21/1999

Global Id: T0602910149
Status: Completed - Case Closed
Status Date: 11/11/2009

Regulatory Activities:
Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0602910149
Action Type: ENFORCEMENT
Date: 09/23/2009
Action: LOP Case Closure Summary to RB

Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0602910149
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0602910149
Action Type: ENFORCEMENT
Date: 09/23/2009
Action: Staff Letter

Map ID	Site	Database(s)	EPA ID Number

GRAPEVINE SHELL (Continued) **S105557351**

LUST REG 5:
Region: 5
Status: Preliminary site assessment underway
Case Number: Not reported
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JDW
Lead Agency: Local
Program: LUST
MTBE Code: N/A

---

146 **TEJON RANCHCORP** **HAZNET** **S112896907**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

HAZNET:
Year: 1998
Gepaid: CAC002100096
Contact: TEJON RANCHCORP
Telephone: 8053278481
Mailing Name: Not reported
Mailing Address: PO BOX 1000
Mailing City,St,Zip: LEBEC, CA 932430000
Gen County: Not reported
TSD EPA ID: CAL000027741
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 1.6856
Facility County: Kern

---

146 **SHELL STATION** **UST** **U004113463**
9067 GRAPEVINE RD EAST **N/A**
LEBEC, CA 93243

KERN CO. UST:
Region: Kern
Owner Id: 600012
Owner Name: SHELL OIL/ATTN HS&E ADMIN SUPPORT

Tank Num: 1
Tank Capacity: 0
Common Name: Not reported

---

149 **EDR US Hist Auto Stat** **1015668190**
9012 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: TEJON MOBIL
Year: 2005
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL

Map ID	Site	Database(s)	EPA ID Number

(Continued) **1015668190**

Year: 2006
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2007
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2008
Address: 9012 GRAPEVINE RD E

Name: TEJON RANCH MOBIL
Year: 2009
Address: 9012 GRAPEVINE RD E

Name: TEJON MOBIL
Year: 2010
Address: 9012 GRAPEVINE RD E

---

149 **CHASE INC MOBIL** **UST** **U004113912**
9012 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

UST:
Facility ID: FA0003962
Latitude: 34.9409922825126
Longitude: -118.928630321426
Permitting Agency: KERN COUNTY

---

149 **TJON RANCH COMPANY** **HAZNET** **S112943329**
9021 GRAPEVINE RD E **N/A**
LEBEC, CA 93243

HAZNET:
Year: 2005
Gepaid: CAC002586846
Contact: PABLO GONZALEZ
Telephone: 6616634203
Mailing Name: Not reported
Mailing Address: PO BOX 1000
Mailing City,St,Zip: LEBEC, CA 93243
Gen County: Not reported
TSD EPA ID: CAL000190080
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.84
Facility County: Kern

Map ID	Site	Database(s)	EPA ID Number
153	**CHEVRON #8616** **8977 GRAPEVINE RD** **LEBEC, CA 93243**	**SWEEPS UST**	**S106924300** **N/A**

SWEEPS UST:

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000001
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	PRM UNLEADED
Number Of Tanks:	4

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	MID GRADE UN
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	600015
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	600015
Number:	Not reported

Map ID	Site	Database(s)	EPA ID Number

CHEVRON #8616 (Continued) **S106924300**

Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-600015-000004
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

---

153 **CHEVRON** **HAZNET** **S113032908**
8977 GRAPEVINE ST **N/A**
LEBEC, CA 93243

HAZNET:

Year:	1993
Gepaid:	CAL000029864
Contact:	CHERVON PRODUCTS CO
Telephone:	5108425931
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Not reported
TSD EPA ID:	CAD980883177
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	4.16999999999
Facility County:	Kern

---

154 **EDR US Hist Auto Stat** **1015664989**
8968 GRAPEVINE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:

Name:	TEJON MOBIL
Year:	2003
Address:	8968 GRAPEVINE RD

Count: 69 records

FOCUS MAP 22 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
ARVIN	A100338099	NEFF FARMS	18603 SUNSET BLVD 5 E/TOWERLINE	93203	AST
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
LEBEC	U004113465	CHEVRON U S A, INC	I-5 & GRAPEVINE/LEBEC	93243	UST
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S106928584	LEBEC ROAD YARD	INTERSTATE 5	93243	SWEEPS UST
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST

Count: 69 records FOCUS MAP 22 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	A100339672	DEPT OF WATER RES-EDMONSTON	EDMONSTON PUMP STATION	93243	AST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
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LEBEC	1005904504	SHELL SERVICE STATION	9069 GRAPEVINE RD		RCRA-SQG, FINDS, SWEEPS UST, HAZNET, EMI
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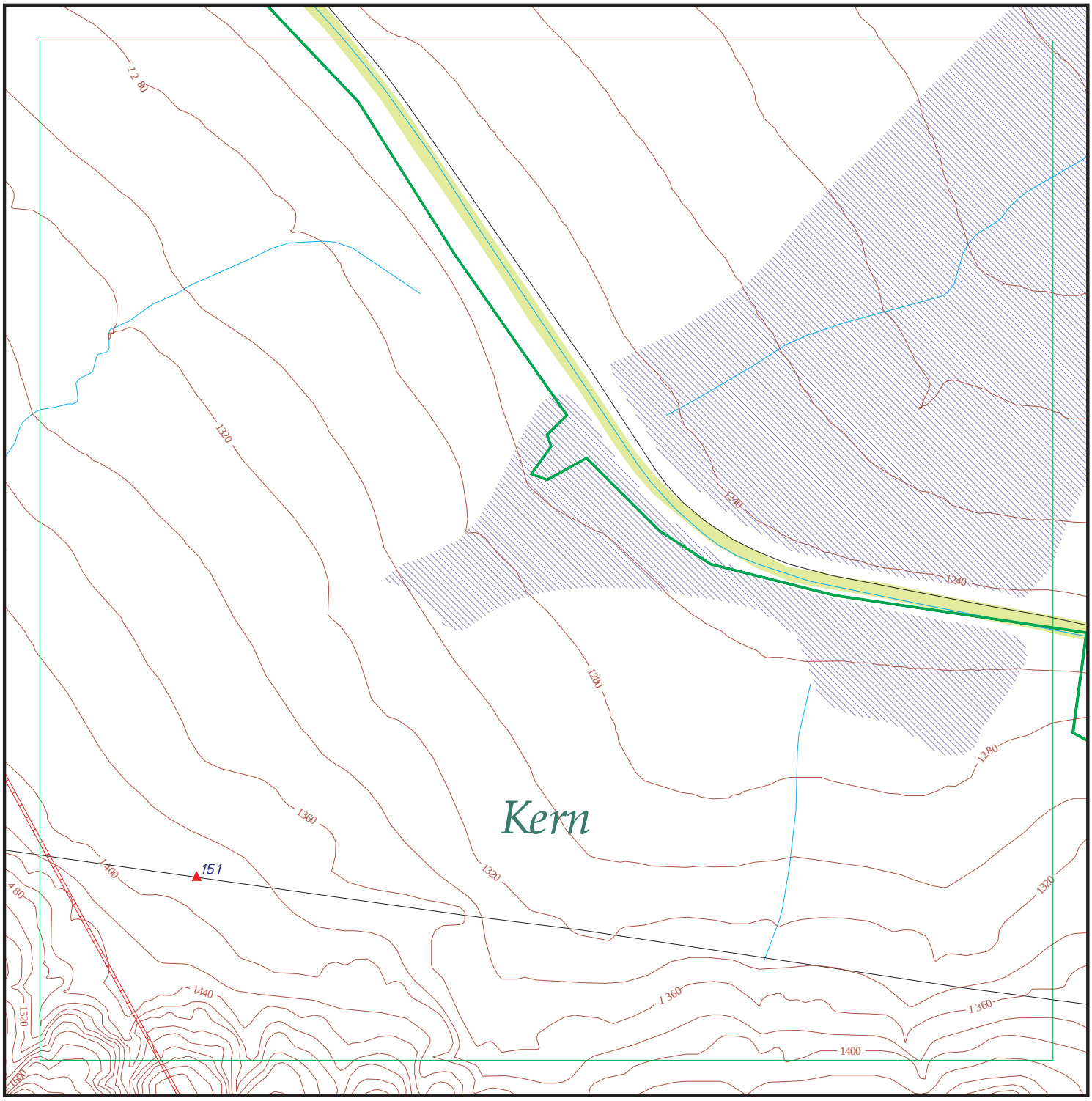
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S106923184	BEAN ANGUS FARM	3 MILES W OF I-5 ON DI	93243	SWEEPS UST
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 23



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

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0 1/8 1/4

Scale in Miles

FOCUS MAP 23 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	1
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 23 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	0
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 23 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
151	**GRIFFITH COMPANY**	**US MINES**	**1015971153** **N/A**

LOS ANGELES (County), CA

US MINES:

Mine ID:	0403447
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	EDMONSTON ROCK PLANT
Company:	GRIFFITH COMPANY
State FIPS code:	CA
County FIPS code:	KERN
Status:	1
Status date:	20101102
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	34 56 21
Longitude:	118 54 11

Mine ID:	0405588
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	DISTRICT 9 PLANT 1
Company:	GRIFFITH COMPANY
State FIPS code:	CA
County FIPS code:	LOS ANGELES
Status:	4
Status date:	20040420
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	00 00 00
Longitude:	000 00 00

Violations Details:

Violation Number:	8697678
Date Issued:	12/18/2013
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	12/18/2013
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	Not reported
Paid Penalty:	Not reported
Assessment Status code:	Not reported
Assess. Case Status code:	Not reported
Assessment Amount:	Not reported
Year:	2013

Violation Number:	8697677
Date Issued:	12/17/2013
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	12/18/2013
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	Not reported
Paid Penalty:	Not reported

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Assessment Status code: Not reported
Assess. Case Status code: Not reported
Assessment Amount: Not reported
Year: 2013

Violation Number: 8697676
Date Issued: 12/17/2013
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/18/2013
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: Not reported
Paid Penalty: Not reported
Assessment Status code: Not reported
Assess. Case Status code: Not reported
Assessment Amount: Not reported
Year: 2013

Violation Number: 6369325
Date Issued: 12/13/2005
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/14/2005
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 268.00
Paid Penalty: 268.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 268.00
Year: 2005

Violation Number: 6369326
Date Issued: 12/13/2005
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/13/2005
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 228.00
Paid Penalty: 228.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 228.00
Year: 2005

Violation Number: 6354303
Date Issued: 12/04/2003
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/04/2003
Citation/Order: Citation

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Sig and Sub Designation: N
Proposed Penalty: 60
Paid Penalty: 60
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60
Year: 2003

Violation Number: 8567608
Date Issued: 11/30/2011
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/01/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 285.00
Paid Penalty: 285.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 285.00
Year: 2011

Violation Number: 8567610
Date Issued: 11/30/2011
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 12/01/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 285.00
Paid Penalty: 285.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 285.00
Year: 2011

Violation Number: 6369041
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369045
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Action Type: 104(a)
Date Abated: 12/20/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369044
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369043
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369040
Date Issued: 11/03/2004
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 11/04/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 6369042

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Date Issued:	11/03/2004
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	11/03/2004
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2004

Violation Number:	8560869
Date Issued:	11/02/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	11/02/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2010

Violation Number:	8560866
Date Issued:	10/27/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	10/27/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2010

Violation Number:	8560867
Date Issued:	10/27/2010
Mine Status:	Active
Status Date:	11/02/2010
Action Type:	104(a)
Date Abated:	10/27/2010
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00

Map ID	Site	Database(s)	EPA ID Number

GRIFFITH COMPANY (Continued) **1015971153**

Year: 2010

Violation Number: 8560868
Date Issued: 10/27/2010
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/27/2010
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2010

Violation Number: 8689170
Date Issued: 10/17/2012
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/17/2012
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 138
Paid Penalty: 138
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 138
Year: 2012

Violation Number: 8689171
Date Issued: 10/17/2012
Mine Status: Active
Status Date: 11/02/2010
Action Type: 104(a)
Date Abated: 10/18/2012
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100
Paid Penalty: 100
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100
Year: 2012

Map ID	Site	Database(s)	EPA ID Number
	GRIFFITH COMPANY (Continued)		**1015971153**

Click this hyperlink while viewing on your computer to access
51 additional US_MINES: record(s) in the EDR Site Report.

Count: 55 records

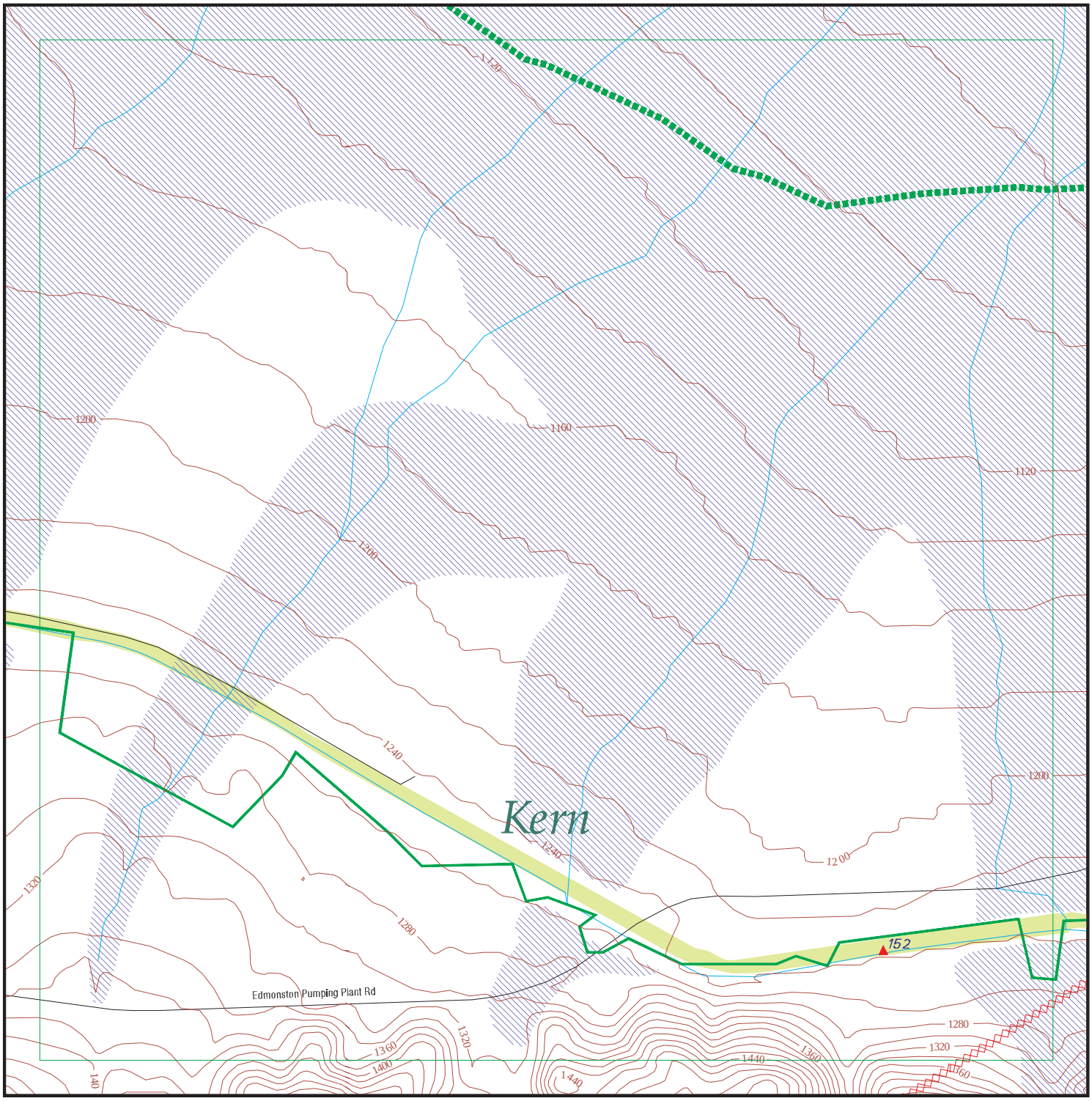
FOCUS MAP 23 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	A100339672	DEPT OF WATER RES-EDMONSTON	EDMONSTON PUMP STATION	93243	AST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST

Count: 55 records FOCUS MAP 23 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 24



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 24 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 24 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	1
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 24 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
152	**DRILLING & PRODUCTION CO.**	**UIC**	**S111512417** **N/A**

KERN (County), CA

UIC:

API Number:	02932541
Confidential Well:	N
Well Number:	1
Direction:	Not Directionally drilled
Lease Name:	Jane
Well Located On A BLW Lease:	N
Field Name:	Any Field
Area Name:	Any Area
Section:	24
Township:	10N
Range:	19W
Base And Meridian; Part Of The PLSS:	SB
Elevation:	1230 KB
Location Desc:	Fr NW cor 500S 800E
GIS Source Code:	hud
Comments:	Not reported
Latitude:	34.93769
Longitude:	-118.8621

Count: 55 records

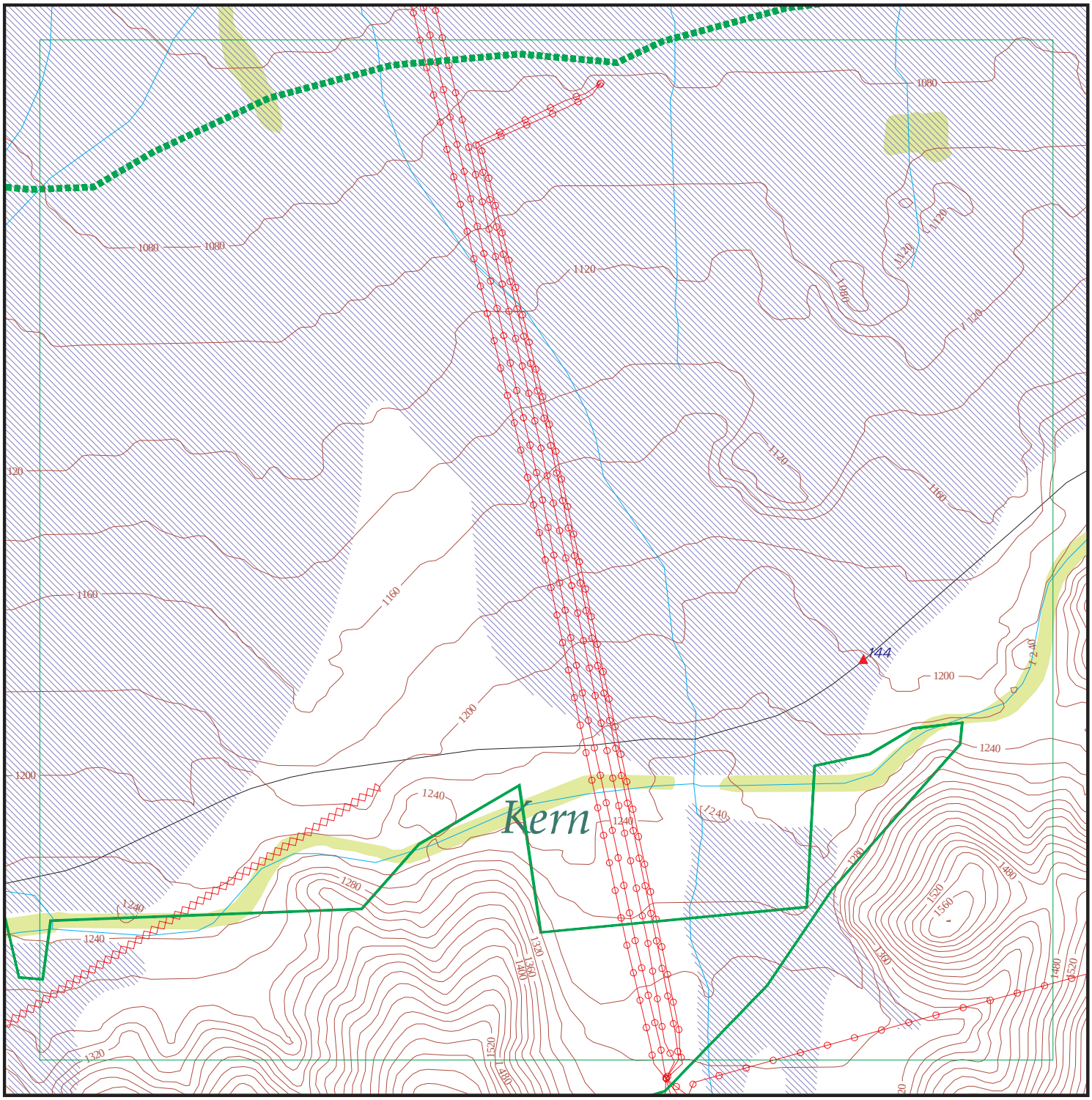
FOCUS MAP 24 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	A100339672	DEPT OF WATER RES-EDMONSTON	EDMONSTON PUMP STATION	93243	AST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST

Count: 55 records FOCUS MAP 24 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 25



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 25 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	1
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 25 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	0
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 25 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
144	**DEPT. OF WATER RESOURCES** **39000 EDMONSTON PUMPING PLANT** **METTLER, CA 93313**	**RCRA-LQG**	**1014386936** **CAL000318962**

RCRA-LQG:

Date form received by agency:	08/03/2010
Facility name:	DEPT. OF WATER RESOURCES
Facility address:	39000 EDMONSTON PUMPING PLANT METTLER, CA 93313
EPA ID:	CAL000318962
Mailing address:	SABODAN ST BAKERSFIELD, CA 93313
Contact:	ALLEN L THOMPSON
Contact address:	SABODAN ST BAKERSFIELD, CA 93313
Contact country:	Not reported
Contact telephone:	(661) 858-5509
Contact email:	ALLENT@WATER.CA.GOV
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	DEPT OF WATER RESOURCES
Owner/operator address:	Not reported 93313
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1955
Owner/Op end date:	Not reported

Owner/operator name:	DEPT OF WATER RESOURCES
Owner/operator address:	SABODAN ST BAKERSFIELD, CA 93313
Owner/operator country:	Not reported
Owner/operator telephone:	(661) 858-5509
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1955
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No

Map ID	Site	Database(s)	EPA ID Number

DEPT. OF WATER RESOURCES (Continued) **1014386936**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Violation Status: No violations found

Count: 60 records

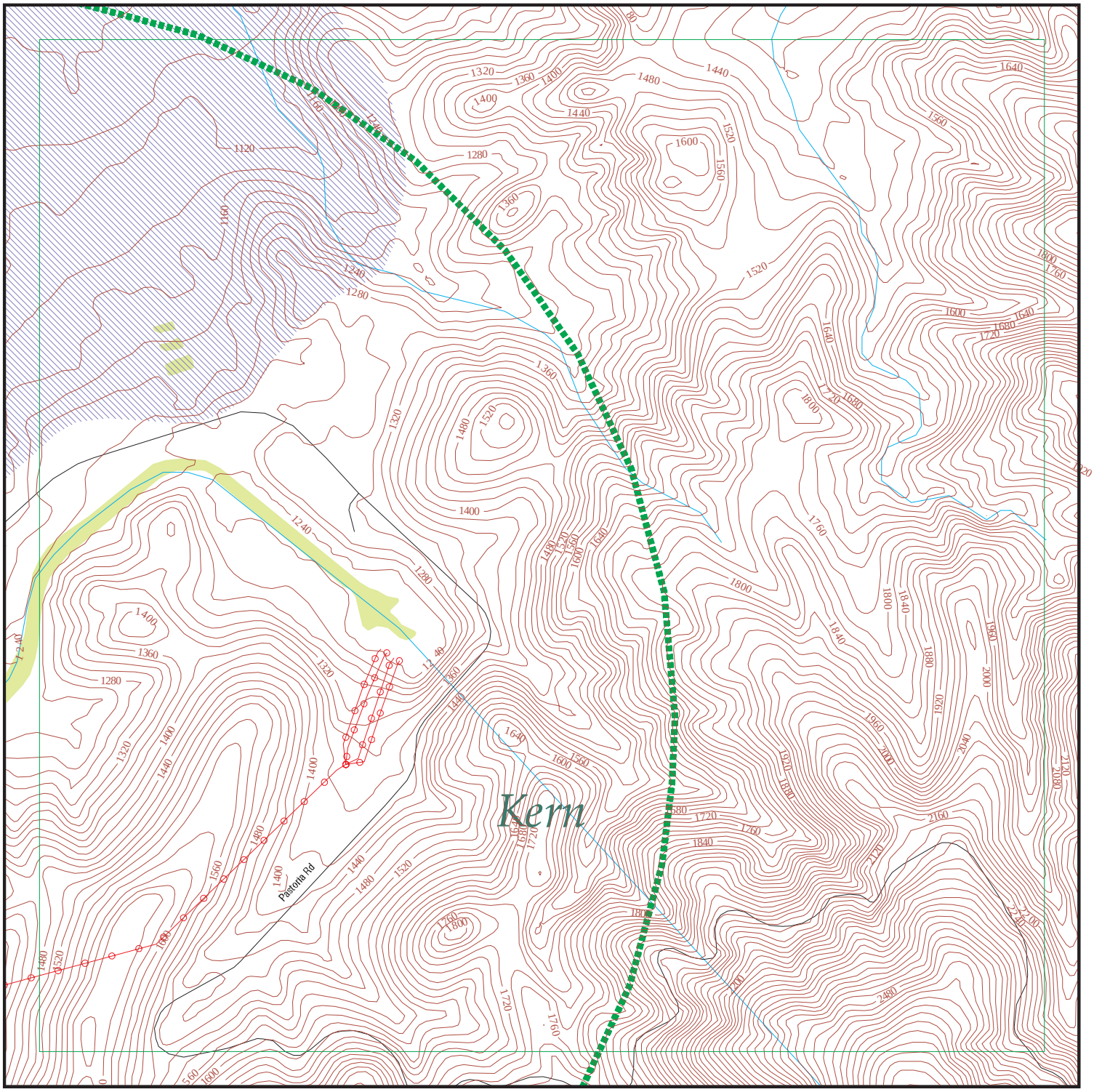
FOCUS MAP 25 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ARVIN	A100323896	GRANITE CONSTRUCTION ARVIN FACILITY	21541 HWY 223 2 MI E OF ARVIN	93203	AST
ARVIN	S112832866	TEJON SUB BANK 2 AND YARD EXPANSION PROJECT	ARVIN	93203	NPDES
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S112832880	THE OUTLETS AT TEJON RANCH	DEL SOL DRIVE	93203	NPDES
ARVIN	S114406280	THE OUTLETS AT TEJON PARKWAY	LAVAL ROAD AND WHEELER RIDGE ROAD	93203	NPDES
ARVIN	S106925776	EL RANCHO FARMS	P O BOX 202 TEJON HWY	93203	SWEEPS UST
ARVIN	U004113479	TEJON RANCH	SEBASTIAN RD	93203	UST
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	A100339672	DEPT OF WATER RES-EDMONSTON	EDMONSTON PUMP STATION	93243	AST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST

Count: 60 records FOCUS MAP 25 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 26



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

0 1/8 1/4

Scale in Miles

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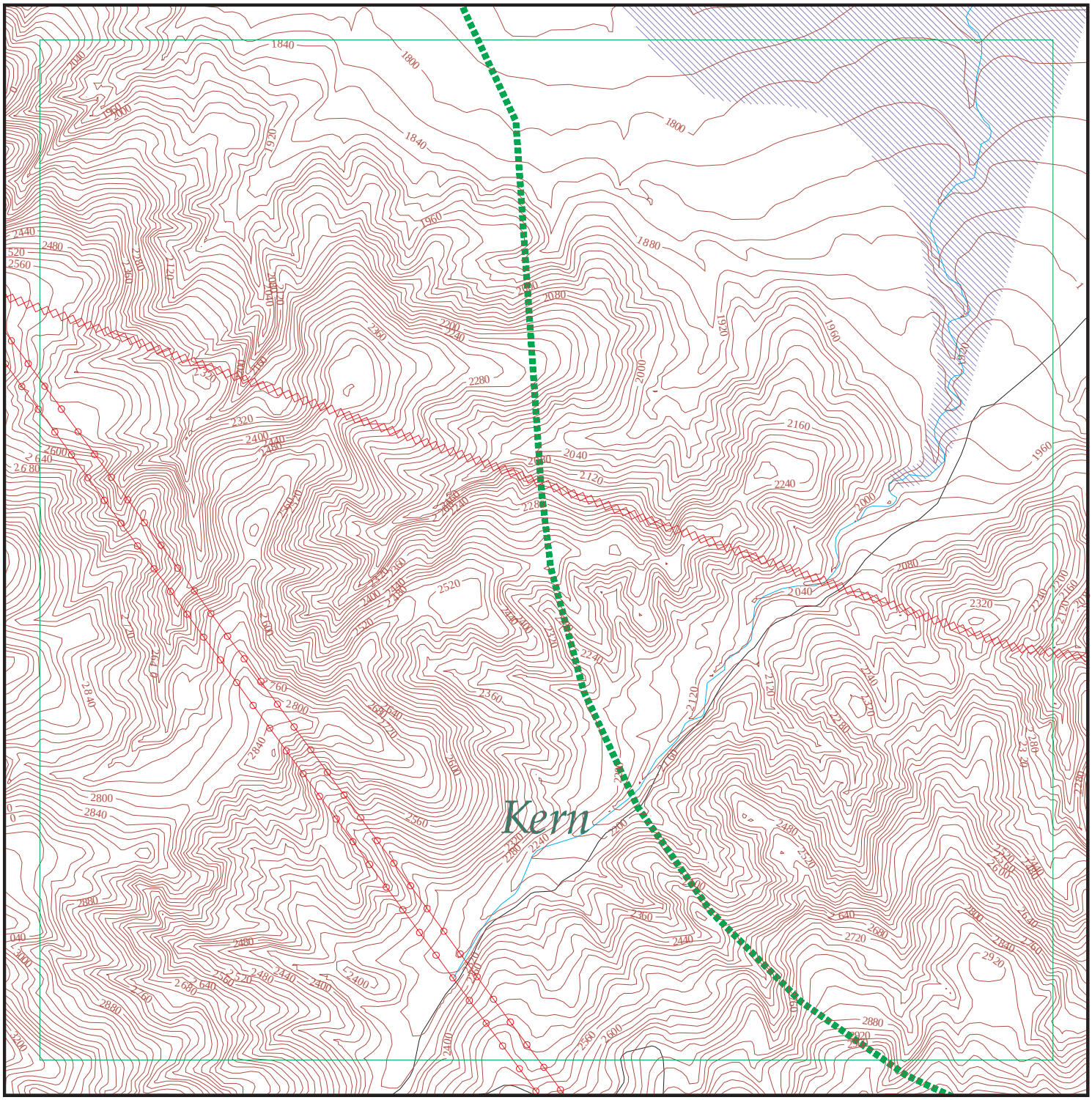
Count: 7 records

FOCUS MAP 26 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 27



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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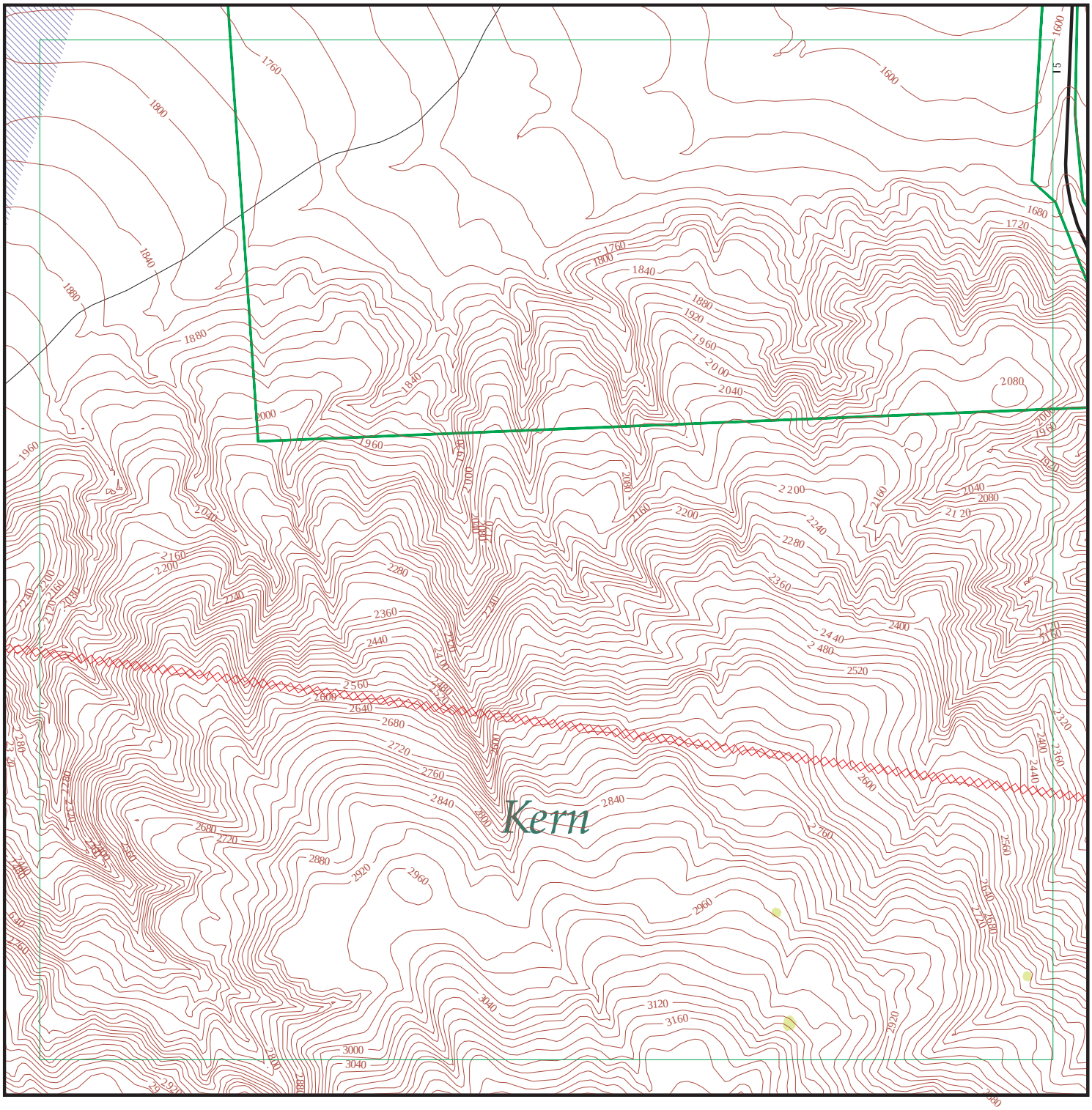
Count: 8 records

FOCUS MAP 27 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 28



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 58 records

FOCUS MAP 28 ORPHAN SUMMARY

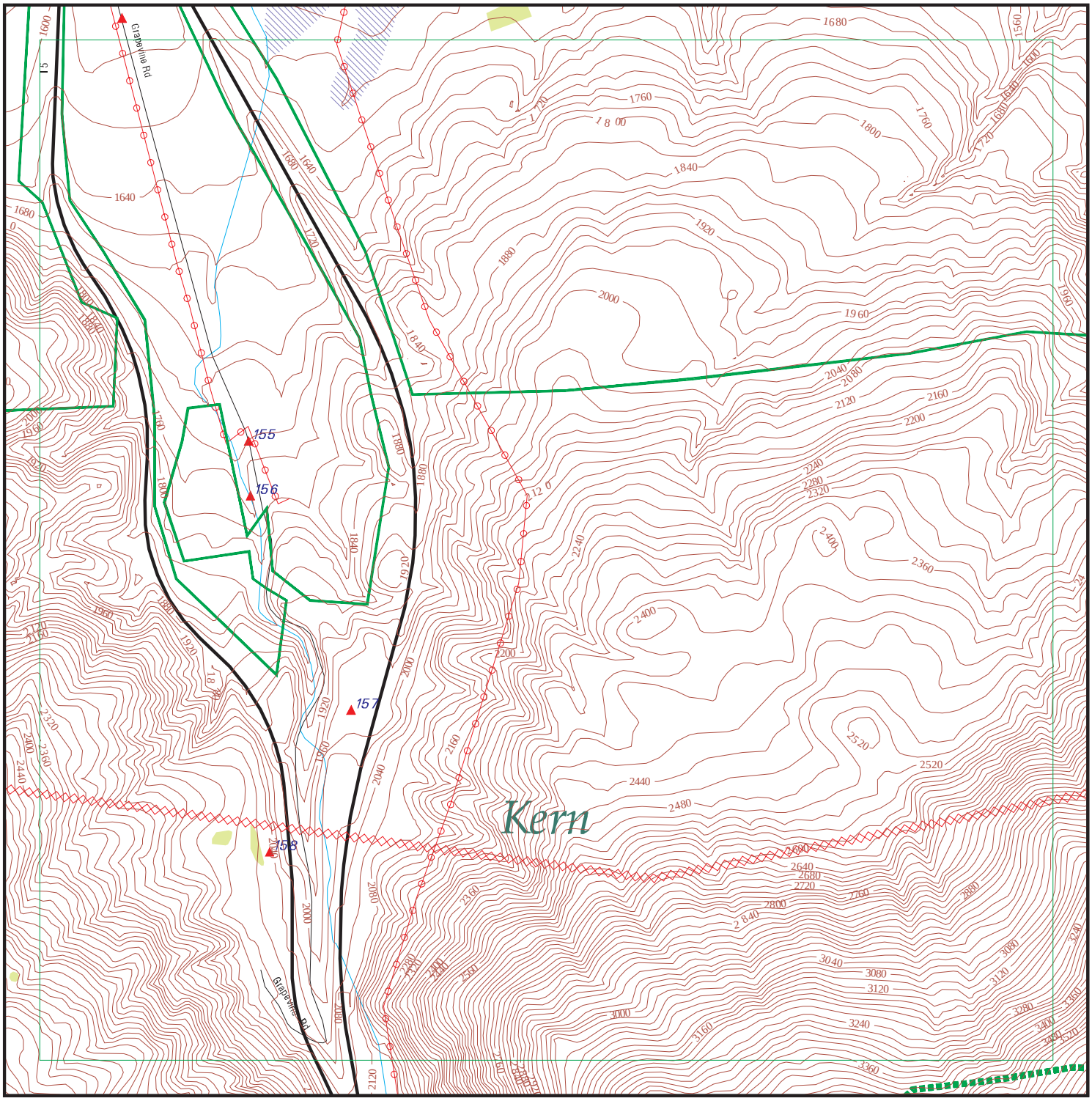
City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	U004113465	CHEVRON U S A, INC	I-5 & GRAPEVINE/LEBEC	93243	UST
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S106928584	LEBEC ROAD YARD	INTERSTATE 5	93243	SWEEPS UST
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST

Count: 58 records

FOCUS MAP 28 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S106923184	BEAN ANGUS FARM	3 MILES W OF I-5 ON DI	93243	SWEEPS UST
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 29



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Tejon Grapevine Project

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- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

0 1/8 1/4

Scale in Miles

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FOCUS MAP 29 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 29 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	0
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	2
UST	0
HIST UST	1
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	1
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	0
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	0
HWT	0
MWMP	0

FOCUS MAP 29 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	1
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number

154 **EDR US Hist Auto Stat** **1015664989**
8968 GRAPEVINE RD **N/A**
LEBEC, CA 93243

EDR Historical Auto Stations:
Name: TEJON MOBIL
Year: 2003
Address: 8968 GRAPEVINE RD

---

155 **MOBIL GRAPEVINE PUMPING STATION 99-GRV** **SLIC** **S106486101**
8070 GRAPEVINE RD. **N/A**
ARVIN, CA 93203

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	05/28/2009
Global Id:	SLT5FR714638
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5F)
Lead Agency Case Number:	Not reported
Latitude:	34.9181
Longitude:	-118.926
Case Type:	Cleanup Program Site
Case Worker:	JA
Local Agency:	Not reported
RB Case Number:	SLT5FR714638
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Crude Oil
Site History:	Groundwater with a shenn was observed seeping out of highway I-5 embankment. An assessment discovered crude oil impacts to soil and groundwtaer adjacent to the pumping station. Monitoring wells at the site are sampled twice a year and free product is removed monthly as necessary. Additional assessment is currently being conducted to delineate lateral extent of impacts.

Click here to access the California GeoTracker records for this facility:

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156 **UNION OIL SS #4734** **HIST UST** **U001581873**
HIGHWAY 99 & GRAPEVINE **N/A**
LEBEC, CA 93243

HIST UST:

Region:	STATE
Facility ID:	00000030732
Facility Type:	Gas Station
Other Type:	Not reported
Total Tanks:	0008
Contact Name:	R. J. ROSE & L.W. PERRY
Telephone:	8053272903
Owner Name:	UNION OIL CO.
Owner Address:	1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip:	SAN FRANCISCO, CA 94111
Tank Num:	001
Container Num:	4734-1-1
Year Installed:	1961
Tank Capacity:	00010000

Map ID	Site	Database(s)	EPA ID Number

UNION OIL SS #4734 (Continued) **U001581873**

Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 4734-2-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 4734-3-1
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4734-4-1
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 4734-1-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 4734-2-1
Year Installed: 1961
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: 4734-3-1
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported

Map ID	Site	Database(s)	EPA ID Number

UNION OIL SS #4734 (Continued) **U001581873**

Leak Detection: Stock Inventor

Tank Num: 008
Container Num: 4734-4-1
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

---

157 **EMERGENCY TRUCK ESCAPE RAMP** **SLIC** **S110071879**
GRAPEVINE **N/A**
GRAPEVINE, CA 93243

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	04/20/2010
Global Id:	L10001698895
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5F)
Lead Agency Case Number:	Not reported
Latitude:	34.922217
Longitude:	-118.92374
Case Type:	Cleanup Program Site
Case Worker:	AM
Local Agency:	Not reported
RB Case Number:	5D150801002
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective action is underway as directed by the CVRWQCB. Corrective action may consist of preliminary site investigation, planning and implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. For a complete site history the case file at the CVRWQCB should be consulted.

Click here to access the California GeoTracker records for this facility:

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158 **EXXONMOBIL OIL CORP - GRAPEVINE** **AST** **A100339264**
7815 GRAPEVINE **N/A**
LEBEC, CA 93243

AST:

Owner:	EXXONMOBIL OIL CORPORATION
Total Gallons:	1,356,864
Certified Unified Program Agencies:	Kern

Count: 59 records

FOCUS MAP 29 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	U004113465	CHEVRON U S A, INC	I-5 & GRAPEVINE/LEBEC	93243	UST
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S106928584	LEBEC ROAD YARD	INTERSTATE 5	93243	SWEEPS UST
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
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LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
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LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	1005904504	SHELL SERVICE STATION	9069 GRAPEVINE RD		RCRA-SQG, FINDS, SWEEPS UST, HAZNET, EMI

Count: 59 records FOCUS MAP 29 ORPHAN SUMMARY

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LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
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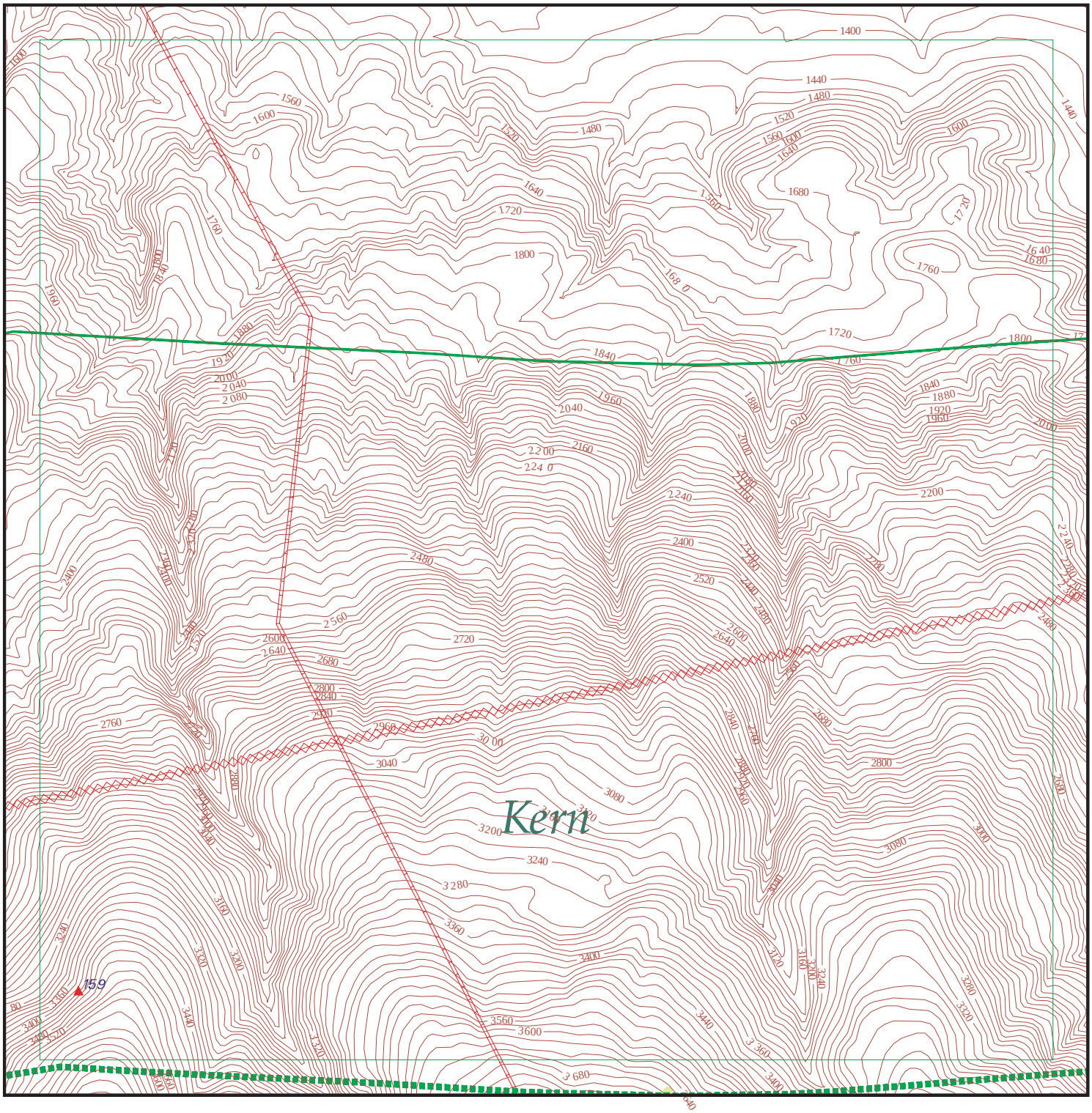
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S106923184	BEAN ANGUS FARM	3 MILES W OF I-5 ON DI	93243	SWEEPS UST
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 30



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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FOCUS MAP 30 SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PRP	0
US AIRS	0
EPA WATCH LIST	0
LEAD SMELTERS	0
2020 COR ACTION	0
COAL ASH DOE	0
SCRD DRYCLEANERS	0

FOCUS MAP 30 SUMMARY

Database	Total Plotted
FEDERAL FACILITY	0
COAL ASH EPA	0
US FIN ASSUR	0
US HIST CDL	0
PCB TRANSFORMER	0
FEMA UST	0

STATE AND LOCAL RECORDS

HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0
SWF/LF	0
UIC	0
WMUDS/SWAT	0
WDS	0
NPDES	0
Cortese	0
HIST CORTESE	0
SWRCY	0
LUST	0
CA FID UST	0
SLIC	0
UST	0
HIST UST	0
LIENS	0
CUPA Listings	0
SWEEPS UST	0
CHMIRS	0
LDS	0
MCS	0
AST	0
Notify 65	0
DEED	0
VCP	0
DRYCLEANERS	0
WIP	0
CDL	0
ENF	0
RESPONSE	0
HAZNET	0
EMI	0
ENVIROSTOR	1
HAULERS	0
RGA LUST	0
RGA LF	0
PROC	0
HWP	1
HWT	0
MWMP	0

FOCUS MAP 30 SUMMARY

Database	Total Plotted
TRIBAL RECORDS	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
EDR PROPRIETARY RECORDS	
EDR MGP	0
EDR US Hist Auto Stat	0
EDR US Hist Cleaners	0

NOTES:

Sites may be listed in more than one database

Map ID	Site	Database(s)	EPA ID Number
159	**NORTHROP CORPORATION** **BLDG 1864 FORBES AVE** **EDWARDS AIR FORCE BA, CA 90250**	**ENVIROSTOR** **HWP**	**S109548319** **N/A**

ENVIROSTOR:

Facility ID:	80001436
Status:	Refer: SMBRP
Status Date:	06/19/2013
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Unknown
Division Branch:	Cleanup Sacramento
Assembly:	34
Senate:	16
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.91664
Longitude:	-118.9059
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD059818120
Alias Type:	EPA Identification Number
Alias Name:	80001436
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	04/30/1990
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HWP:

EPA Id:	CAD059818120
Cleanup Status:	UNKNOWN
Latitude:	34.91664
Longitude:	-118.9059
Facility Type:	Historical - Non-Operating

Map ID	Site	Database(s)	EPA ID Number
	NORTHROP CORPORATION (Continued)		**S109548319**

Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	34
Senate District:	16
Public Information Officer:	Not reported

Count: 46 records

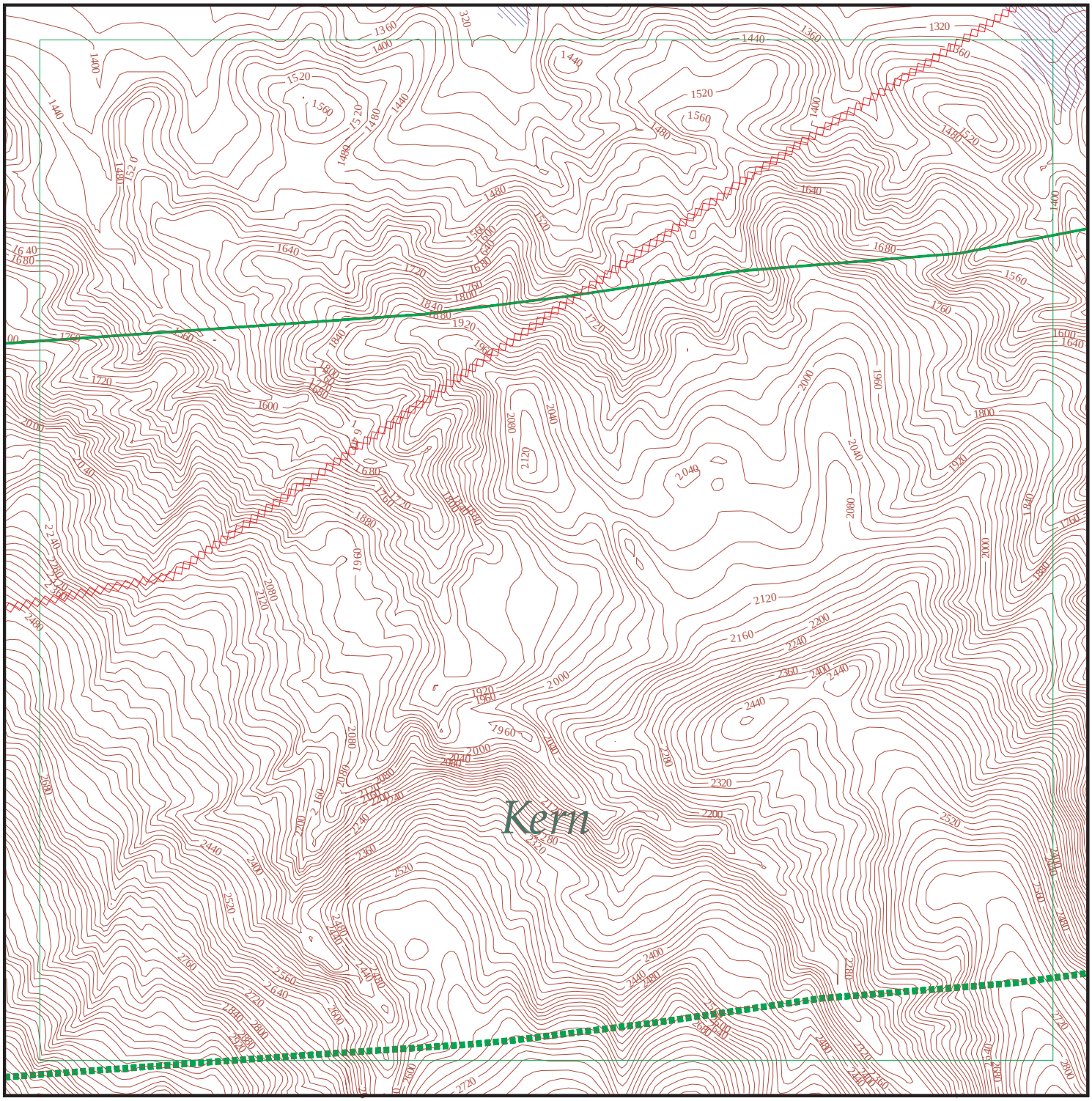
FOCUS MAP 30 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 46 records FOCUS MAP 30 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 31



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 46 records

FOCUS MAP 31 ORPHAN SUMMARY

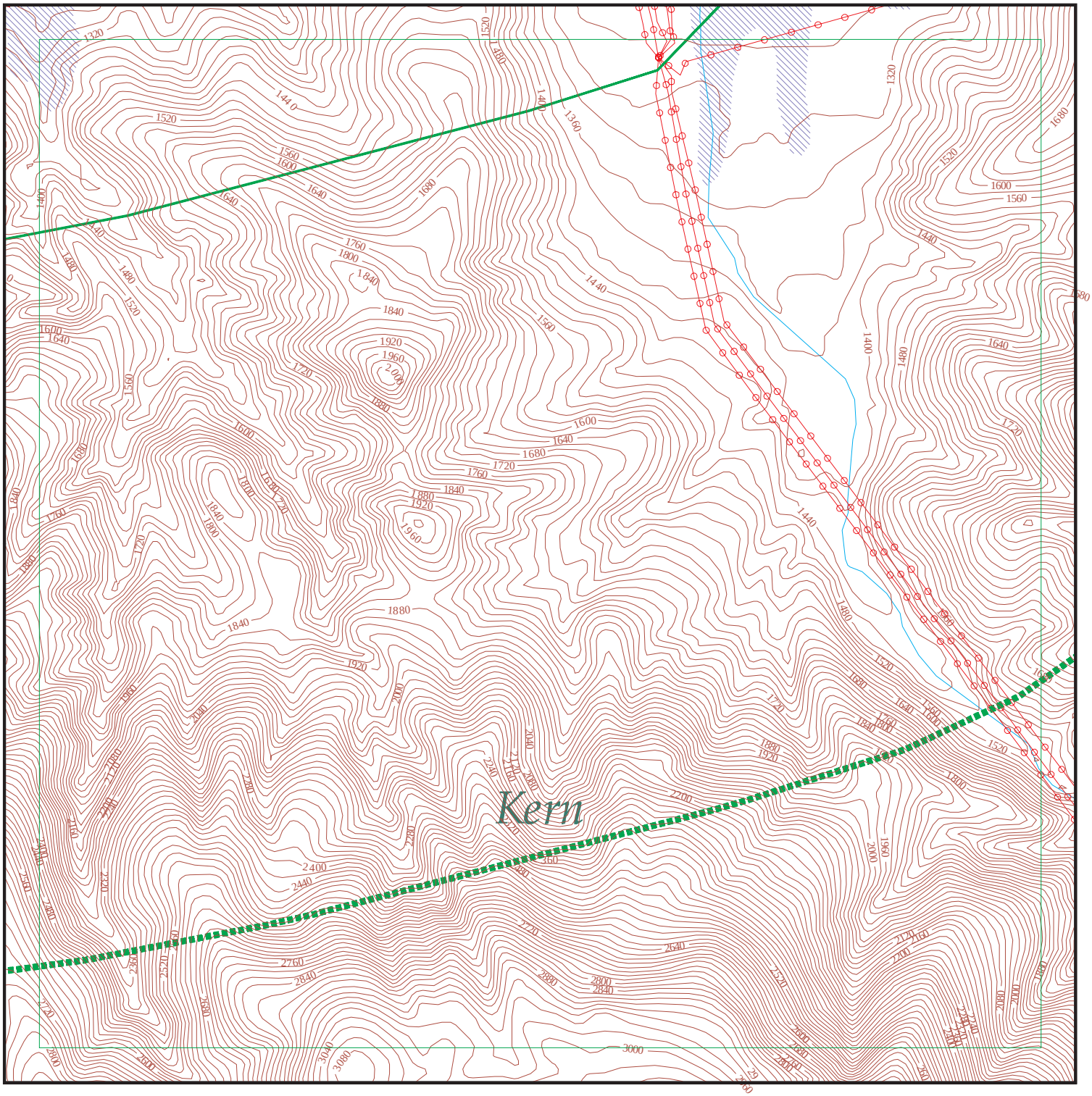
City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 46 records

FOCUS MAP 31 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 32



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 51 records

FOCUS MAP 32 ORPHAN SUMMARY

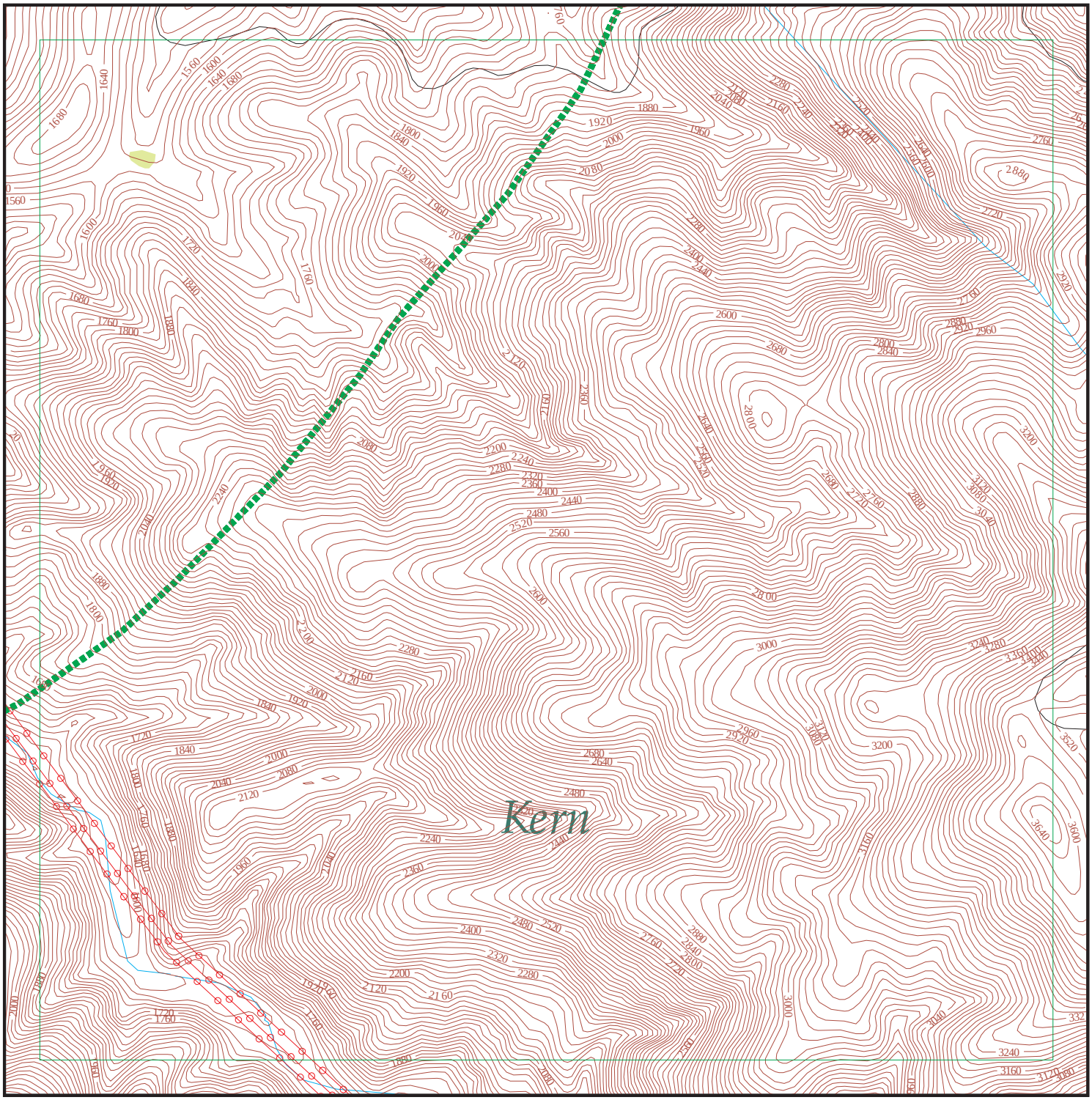
City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 51 records

FOCUS MAP 32 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 33



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 51 records

FOCUS MAP 33 ORPHAN SUMMARY

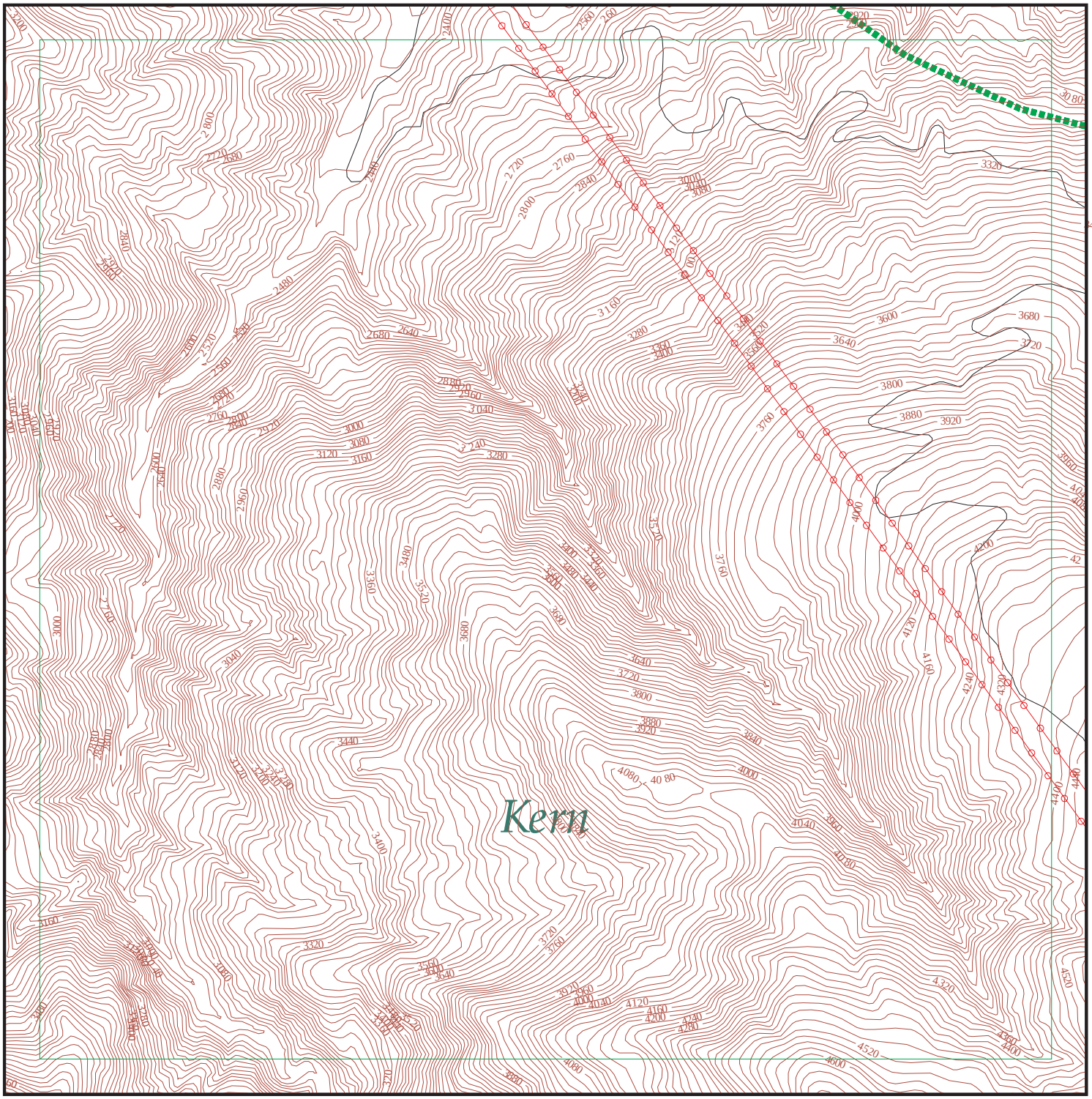
City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 51 records

FOCUS MAP 33 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
ROMOLAND	S105025908	AVENUE A UNAUTHORIZED DIS	AVE A 11/2 MI E. HWY 14	93560	HIST CORTESE
ROSAMOND	S110734486	MANZANA WIND ENERGY PROJECT	170TH STREET AND AQUADUCT ROAD	93560	NPDES
ROSAMOND	S106932256	SINGAMAMMY CORP.	STAR RT 1 BOX 352	93560	SWEEPS UST
ROSAMOND	S100714218	SWEETSER ROAD UNAUTHORIZED DISPOSAL SITE	SWEETSER RD NEAR HWY 14 & FRONTAGE RD	93560	ENVIROSTOR
ROSAMOND	1003879424	AVENUE A	1/2 MI W OF W 10TH ST ALONG AVENUE A	93560	CERC-NFRAP
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 34



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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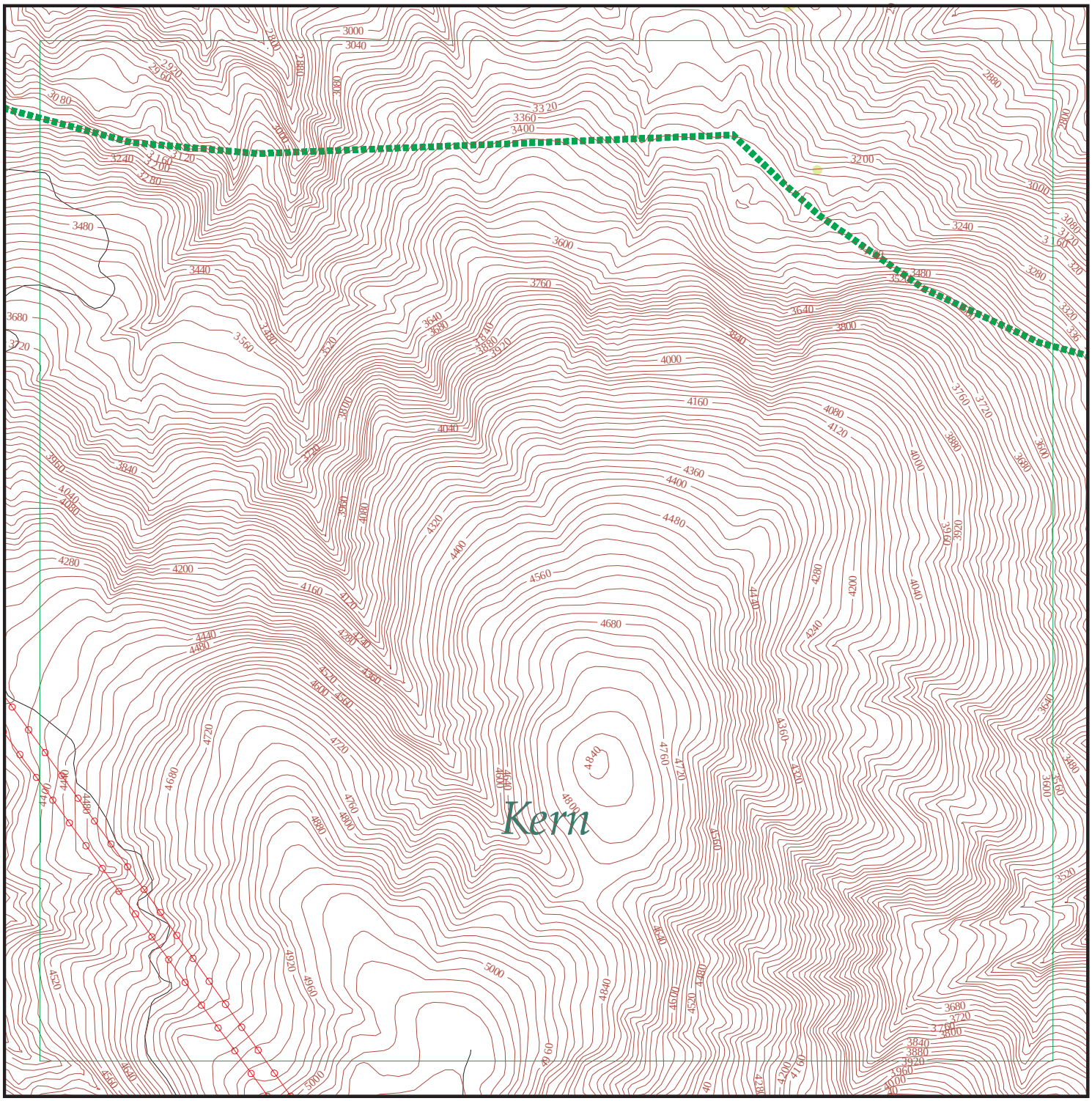
Count: 8 records

FOCUS MAP 34 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 35



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
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- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
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- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

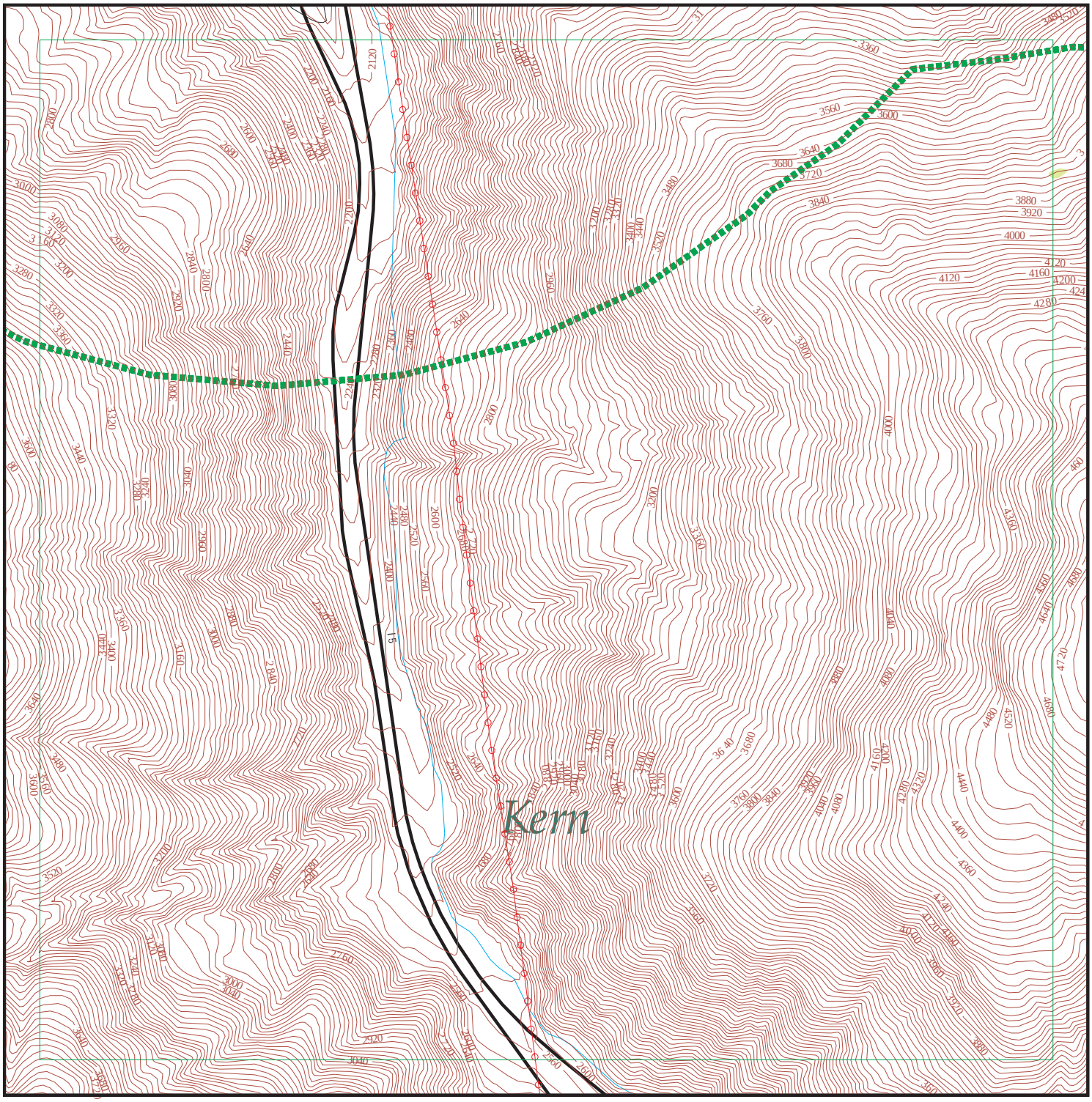
Copyright © 2014 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

Count: 8 records

FOCUS MAP 35 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 36



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- National Wetlands Inventory
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 59 records

FOCUS MAP 36 ORPHAN SUMMARY

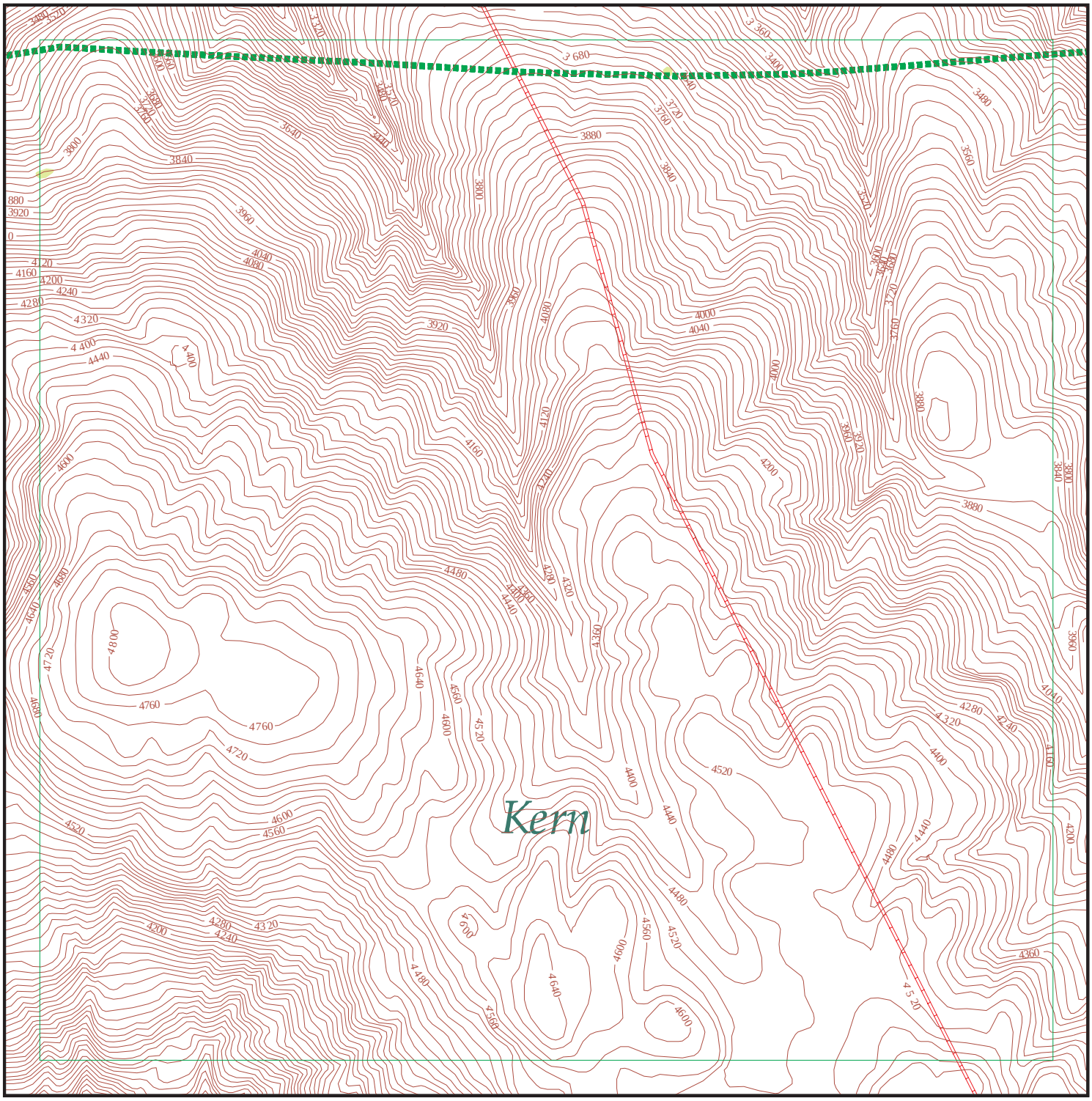
City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERSFIELD	S101620053	MIKE'S EXXON	LEBEC EXIT I-5	93225	CA FID UST, SWEEPS UST
BAKERSFIELD	U001581453	MIKE'S EXXON	LEBER EXIT I-5	93225	HIST UST
FRAZIER PARK	S103547770	GAS STATION (FORMER)	I5	93225	HIST CORTESE, CHMIRS
FRAZIER PARK	S101620054	MIL POTRERO PARK	MIL POTRERO PARK HWY	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620055	PINE MT SERVICE CENTER	16300 MIL POTRERO HWY PMC	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	U001581447	JOHN TROPIA	ST RT. BOX 492, LOCKWOOD VALLE	93225	HIST UST
FRAZIER PARK	S101620046	CONOVER'S	STAR RT 466 LOCKWOOD RD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S101620047	CUDDY RANCH	STAR RT BOX 960 CUDD	93225	CA FID UST, SWEEPS UST
FRAZIER PARK	S110504163	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93225	EMI
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	U004113465	CHEVRON U S A, INC	I-5 & GRAPEVINE/LEBEC	93243	UST
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S106928584	LEBEC ROAD YARD	INTERSTATE 5	93243	SWEEPS UST
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	1005904504	SHELL SERVICE STATION	9069 GRAPEVINE RD		RCRA-SQG, FINDS, SWEEPS UST, HAZNET, EMI

Count: 59 records

FOCUS MAP 36 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S106923184	BEAN ANGUS FARM	3 MILES W OF I-5 ON DI	93243	SWEEPS UST
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
PINE MOUNTAIN CLUB	S105025566	WESTSIDE REC & PARK	MIL POTRERO HWY	93225	HIST CORTESE

Focus Map 37



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

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- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 46 records

FOCUS MAP 37 ORPHAN SUMMARY

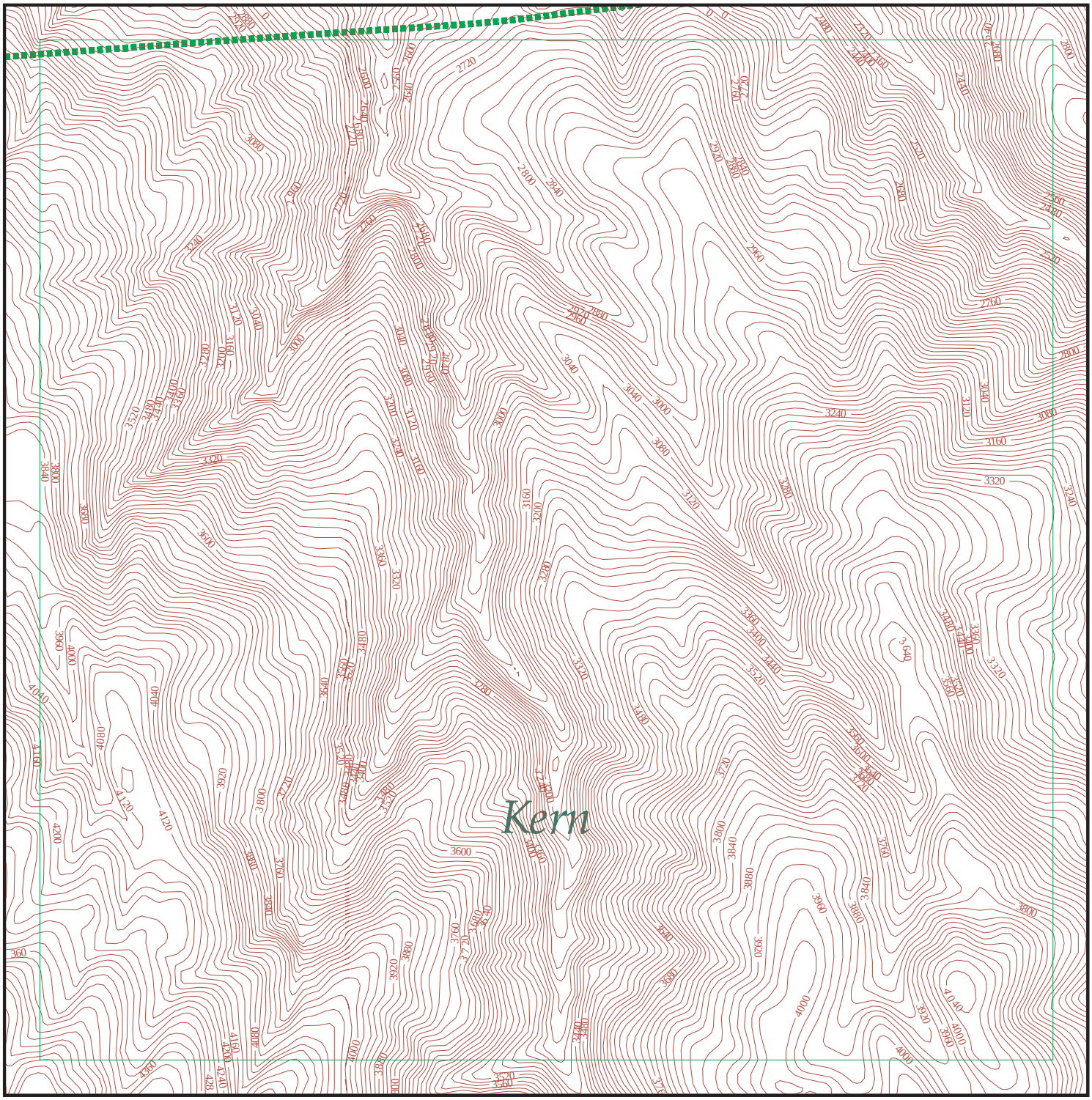
City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 46 records

FOCUS MAP 37 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Focus Map 38



EDR DataMap® - Environmental Atlas

Tejon Grapevine Project

Legend

- Roads
- Major Roads
- Contour Lines
- Waterways
- Railroads
- Study Boundary
- 100-Yr Flood Zones
- Powerlines
- Pipelines
- Fault Lines
- Indian Reservations BIA
- Water
- Superfund Sites
- Federal DOD Sites
- Listed Sites
- Sensitive Receptors

N

0 1/8 1/4

Scale in Miles

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Count: 46 records

FOCUS MAP 38 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GORMAN	S112945811	LOS ANGELES COUNTY-ISD, TEJON PEAK	LAT 34.4811 & LONG 118.4856	93243	HAZNET
GRAPEVINE PEAK	S110504164	VERIZON WIRELESS - GRAPEVINE	EL TEJON RANCH	93243	EMI
LEBEC	1000698007	FOUR COR PIPELINE CO TEJON	I-5 1 1/2 MI N OF LEBEC	93243	CERCLIS, RCRA NonGen / NLR
LEBEC	S104773368	LEBEC CEMENT PLANT	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	S102432762	LOS ROBLES CEMENT PLANT	HWY 138	93243	HIST CORTESE, LUST
LEBEC	S104773369	LEBEC CEMENT PLANT INDUSTRIAL	HWY. 138 APPROX 5 MI E. OF HWY. 5	93243	SLIC
LEBEC	A100338096	NATIONAL CEMENT CO OF CALIF	HWY 138 E OF I-5	93243	AST
LEBEC	1000346806	GRAPEVINE	HWY 5 BTWN N & S BOUND LANES	93243	RCRA-SQG
LEBEC	S105174092	CHEVRON STATION #9-8616	INTERSTATE 5 & HIGHWAY 99	93243	LUST
LEBEC	U004113478	TEJON RANCH	HWY 99 & FORT TEJON	93243	UST
LEBEC	S105174090	GRAPEVINE TEXACO	HIGHWAY 99 - STAR RT- BOX 26	93243	LUST
LEBEC	U004112063	CHEVRON STATION #92146	HWY 99 & FRONTAGE RD	93243	UST
LEBEC	U004112068	UNION OIL SS # 0004734	HWY 99 & GRAPEVINE	93243	UST
LEBEC	S104404350	TEXACO	HWY 99 STAR RT BOX 26	93243	HIST CORTESE
LEBEC	1000251318	PACIFIC BELL	HWY 99 40 MI S OF BAKERSFIELD	93243	RCRA NonGen / NLR
LEBEC	S112970432	TEJON RANCH COMPANY	APN 255-280-05	93243	HAZNET
LEBEC	1003879535	US FOREST SVC-BLACK BOB MINE	APRX 5 M. S.W OF LEBEC,SEC 10T. 9N-R.20W	93243	CERC-NFRAP
LEBEC	S110985938	TEJON INDUSTRIAL COMPLEX WEST WWTF	I-5 AT WHEELER RIDGE	93243	ENF
LEBEC	U004112403	TEJON PUMP STATION	4237 DIGIER RD	93243	UST
LEBEC	S106932823	TEJON PUMP STATION	DIGIER RD	93243	SWEEPS UST
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S105935939	PACIFIC PIPELINE - TEJON	4237 DIGIER	93243	AST
LEBEC	1003878676	ARCO TEJON OIL FLD	DIGIERS RD 3-4 MI N OF	93243	CERC-NFRAP
LEBEC	1015757304	NATIONAL CEMENT CO LEBEC PLT	5 MI E OF JCT INTRST 5 & HWY 138	93243	RCRA-TSDF, RCRA-SQG, PADS
LEBEC	1000251312	PACIFIC BELL	6 MI E OF HWY 99 EL TEJON	93243	RCRA-SQG
LEBEC	S105024421	NATIONAL CEMENT CO	5 MI E. I5 OFF HWY 13	93243	HIST CORTESE
LEBEC	U004113462	NATIONAL CEMENT COMPANY-LEBEC PLANT	5 MI E/I-5 ON HWY 138	93243	UST
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	A100339871	CALTRANS - DISTRICT 7	36282 GOLDEN STATE	93243	AST
LEBEC	U004113476	LEBEC MAINTENANCE STATION	36282 GOLDEN STATE HWY	93243	UST
LEBEC	1000288816	SHELL OIL CO	33224 GOLDEN STATE	93243	RCRA-SQG
LEBEC	S106929791	NATIONAL CEMENT COMPANY	5MI E I-5 ON HWY 138	93243	SWEEPS UST
LEBEC	S106926618	GENERAL PORTLAND INC LOS ROBLE	2MI E I-5 HWY 138	93243	SWEEPS UST
LEBEC	U004113485	TEJON RANCH	LEBEC EXIT OFF I-5	93243	UST
LEBEC	U004113468	EL TEJON SCHOOL	35272 LEBEC RD	93243	UST
LEBEC	U003992270	EL TEJON SCHOOL	35272 LEBEC RD	93243	LUST
LEBEC	1015732927	MOBIL OIL CORP LEBEC REF	LEBEC RD & O'NEIL CYN RD	93243	CERC-NFRAP, RCRA-SQG
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC	1003109115	PACIFIC PIPELINE PROJECT, TEJON RANCH	PPS MILEPOST 19.6 & 20.0	93243	CERCLIS
LEBEC	S105024420	TEJON PUMP STATION	T9N R19W SEC 9	93243	HIST CORTESE
LEBEC	S105024418	TEJON RANCH (FT. TEJON)	T11N R19W SEC 33	93243	HIST CORTESE
LEBEC	S113799651	FORT TEJON PROJECT / GRANITE CONSTRUCTION CO	SECTION 34 TOWNSHIP 9 RANGE 19	93243	HAZNET

Count: 46 records

FOCUS MAP 38 ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEBEC	U004113490	GRAPEVINE RMLR	TEJON RANCH, LEBEC	93243	UST
LEBEC CA	S105024422	CHEVRON STATION #9-8616	I5 & HWY 99	93243	HIST CORTESE
METTLER	1010783701	TEJON CASTAC WATER DIST	5453 DENNIS MCCARTHY DR	93243	RCRA-SQG
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF

Section 3

County Level Orphan Sites

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
*ROSAMOND	91217696		FOOTHILLS OF TEHACHAPI MTNS 170TH AND	93560	ERNS
ARVIN	S113059356	VINTAGE PETROLEUM INC WHEELER	RT 1 LAVAL ROAD WHEELER RIDGE	93203	HAZNET
ARVIN	S113095468	GIUMARRA VINEYARDS, RANCH #7	BEAR MTN BLVD & CAMACHE RD	93203	HAZNET
ARVIN	S113025536	ARVIN EDISON WSD/WELL #89 TEJON BASIN	20401 BEAR MOUNTAIN	93203	HAZNET
ARVIN	S113021721	ARVIN EDISON WATER STORAGE DISTRICT	20401 BEAVER MOUNTAIN BLVD.	93203	HAZNET
ARVIN	93309485		BUENA VISTA BLVD, 1/2 MI E OF ADOBE RD	93203	ERNS
ARVIN	93343318		CAMACHE AND BUENA VISTA	93203	ERNS
ARVIN	S113181763	PEDRO GARCIA PEREZ	14430 COMMANCHE DRINE #A	93203	HAZNET
ARVIN	S112838272	1X SANDUSKY CABINETS INC	S/E CRNR OF DERBY & WIDMERE ST	93203	HAZNET
ARVIN	S112849258	P G AND E	1/2 MI E OF WHEELER RIDGE RD	93203	HAZNET
ARVIN	S113178073	SOUTHERN CALIFORNIA GAS CO.	EDMUNSTON PLANT RD 1.5 MI E OF I5	93203	HAZNET
ARVIN	94415692		HERMOSA RD & COMMANCHE DR EAST 500 FT. NORTH OF ARVIN	93307	ERNS
ARVIN	S112907662	KERN COUNTY HEALTH DEPT	204 S HILLS ST	93203	HAZNET
ARVIN	90180855		MALAGO RD & MOUNTAIN VIEW RD	93203	ERNS
ARVIN	S112894586	P G & E	400FT E METTLER FRONTAGE,NOSIDE	93307	HAZNET
ARVIN	S112840629	EL RANCHO FARMS	OFF LANDERS ROAD	93203	HAZNET
ARVIN	S112861051	P G & E	ON RANCHO ROAD 1 MILE SOUTH	93203	HAZNET
ARVIN	S112889237	PACIFIC GAS & ELECTRIC	1/4 MI S OF DAVID RD 1/4 W OF RANCHO	93203	HAZNET
ARVIN	S112913682	PG&E	1/2 MI SO BUENA VISTA RD ON ADOBE	93203	HAZNET
ARVIN	S113019832	KERN COUNTY WASTE MANAGEMENT DEPARTMEN	1 MI SO OF BEAR MOUNTAIN BLVD	93203	HAZNET
ARVIN	S113078329	VALLEY MEDICAL GROUP	205 A STREET	93203	HAZNET
ARVIN	S113017817	GRIMMWAY ENTERPRISES, INC.	830 E SYCAMORE	93203	HAZNET
ARVIN	S113000521	SOUTHERN VALLEY CHEMICAL COMPANY	SYCAMORE AND DERBY ROAD	93203	HAZNET
ARVIN	S113796851	HARRIS FARMS INC	1 MI W OF SEBASTIAN & 2 MI N LEGRAY	93203	HAZNET
ARVIN AREA	93325263		S21 T31S R29E	93203	ERNS
BAKERSFIELD	96493188		05/28/1996	93307	ERNS
BAKERSFIELD	S112872302	SCOTT BUYS	9855 & 9865 S UNION AVE	93307	HAZNET
BAKERSFIELD	S113016971	GROUNDWATER RESOURCES INC	4300 ALDRIN CT	93313	HAZNET
BAKERSFIELD	S112849246	BAKERSFIELD CITY SCHOOLS	1300 BAKERS ST	93307	HAZNET
BAKERSFIELD	S112903236	BAKERSFIELD CITY SCHOOLS	1300 BAKERS ST	93307	HAZNET
BAKERSFIELD	94363396		5125 BOYLAND ST	93307	ERNS
BAKERSFIELD	S112914747	PDC PROPERTIES INC	2401 E BRUGDAGE LN	93307	HAZNET
BAKERSFIELD	90186208		BURBANK RD BETWEEN BEACH RD & SHAFTER	93307	ERNS
BAKERSFIELD	S112919011	KERN COUNTY GUN CLUB INC	2818 CHINA GRADE LOOP RD	93313	HAZNET
BAKERSFIELD	91238320		COMMANCHE & EDISON	93307	ERNS
BAKERSFIELD	S112880271	PG&E	CORNER OF DAVID RD AND EDISON	93307	HAZNET
BAKERSFIELD	S112855284	PACIFIC GAS AND ELECTRIC	CORNER OF WHEATPATCH RD AND	93307	HAZNET
BAKERSFIELD	92296116		CORNER OF WIEBEL AND MILLUX RD	93313	ERNS
BAKERSFIELD	S113054799	ANDERSON CLAYTON CORP	SW CORNER CALIF & WASH ST	93307	HAZNET
BAKERSFIELD	S112856037	BAKERSFIELD SUB	CORNER OF 34TH & UNION	93307	HAZNET
BAKERSFIELD	S112873543	COSTA LOMA MARKET	602 COSTA LOMA	93307	HAZNET
BAKERSFIELD	S112853074	DENNEY JOHN	300 S COTTONWOOD	93307	HAZNET
BAKERSFIELD	S100218174		CURVE OF HWY 119 AT HARRISON RD.	93313	CHMIRS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAKERSFIELD	S113796684	H LIMA CO INC	7548 DIAMLER RD	93307	HAZNET
BAKERSFIELD	91220173		EXXON EDISON FLD YOUNG FEE TANK BATTERY	93307	ERNS
BAKERSFIELD	S112855578	JAVAID FARMS	9158 FAIRFAX_RD	93307	HAZNET
BAKERSFIELD	S112895125	KOCH OIL COMPANY	ON GOLF COURSE RD/CROSS ST IS HWY 119	93313	HAZNET
BAKERSFIELD	S113803271	PACIFIC GAS & ELECTRIC HYDROTEST T 52 12 LOCATION A	W GOSFORD RD S OF HARRIS RD	93313	HAZNET
BAKERSFIELD	S112859241	GARONE FARMS	1001 EAST HOFKING AVE	93307	HAZNET
BAKERSFIELD	S112871510	PACIFIC GAS & ELECTRIC	200FT E HWY 99 & .5MILE HOUGHTON RD	93313	HAZNET
BAKERSFIELD	S112915295	GUSD - MC KEE SCHOOL	2050 MC KEE RD	93307	HAZNET
BAKERSFIELD	S112839105	1X AMICK TRUCKING	110200 MOUNTAINVIEW	93307	HAZNET
BAKERSFIELD	S112878871	BAKERSFIELD CITY SCHOOL DISTRICT	NICHOLS ELEMENTARY SCHOOL	93307	HAZNET
BAKERSFIELD	S112882424	PACIFIC GAS & ELECTRIC CO	3.1M S OF HWY 58/1.2M E GENERAL BEAL RD	93203	HAZNET
BAKERSFIELD	93468202		S22 R27E T30S	93307	ERNS
BAKERSFIELD	92266032		S ROUTE 99 AND PANAMA DR	93307	ERNS
BAKERSFIELD	S112858905	BS&E	1220 RUNDAGE LANE	93313	HAZNET
BAKERSFIELD	S112879906	PACIFIC GAS AND ELECTRIC	1/2 MI S OF HWY 119 1/2 MI E OF ENOS LN	93313	HAZNET
BAKERSFIELD	S113467992	TRIO PETROLEUM LLC UNION AVENUE FACILITY	SEC 6 TOWNSHIP 30 S ARRANGE 28 E	93307	HAZNET
BAKERSFIELD	S113770553	ENSIGN UNITED STATES DRILLING (CALIFORNIA) INC	SECTION 32 TOWNSHIP 11N RANGE 19W	93307	HAZNET
BAKERSFIELD	S112866765	JOHNSON ROY E	AT SHAFTER ROAD AND SOUTH	93307	HAZNET
BAKERSFIELD	S112848836	ULTRAMAR INC	4600 STEIN ST	93313	HAZNET
BAKERSFIELD	S113111930	PACIFIC GAS & ELECTRIC	5701 TRUCKSTON AVE	93313	HAZNET
BAKERSFIELD	S113046313	LAMB CHOP	12336 S UNION	93307	HAZNET
BAKERSFIELD	S113101487	SHELL	201 S UNION	93307	HAZNET
BAKERSFIELD	S112863674	PACIFIC GAS AND ELECTRIC	UNIVERSITY AND COLUMBUS	93307	HAZNET
BAKERSFIELD	96497989		VINELAND ROAD BETWEEN EDISON AND RED BANK ROAD	93307	ERNS
BAKERSFIELD	S113099845	SUNRIDGE NURSERIES	441 VINELAND RD	93307	HAZNET
BAKERSFIELD	S113166971	A 1 BATTERY	3490 WEEDPATCH HWY	93307	HAZNET
BAKERSFIELD	92273708		WEEDPATCH HIGHWAY OF E BRUNDAGE LANE	93307	ERNS
BAKERSFIELD	S113179852	PACIFIC TELEPHONE AND TELEGRAPH CO	WEEDPATCH & EDISON HIGHWAY	93307	HAZNET
BAKERSFIELD	S112858443	P G & E	WEEPACK RD AND EDISON HWY	93307	HAZNET
BAKERSFIELD	S112923451	NAJAWDI CHEVRON	2525 WHITE LN	93313	HAZNET
BAKERSFIELD	S113104902	HONDA & ACURA SPECIALIST	4306 WIBEL RD UNIT D	93313	HAZNET
BAKERSFIELD	S113091835	APSG WHOLESALE	501 WORKMAN, #119	93307	HAZNET
CERRITOS	S112845388	1X UNITED PARCEL SERVICE_INC	13233 EAST MOORE STREET	93307	HAZNET
DUCOR	S113118505	GIUMARRA VINEYARDS, RANCH #16N	PARCEL # 319-170-07	93203	HAZNET
EDISON	S113019843	KERN COUNTY WASTE MANAGEMENT DEPARTMEN	BAKERSFIELD METRO LANDFIELD	93307	HAZNET
FORT TEJON	91218742		INTERSTATE 5 S/B AT FORT TEJON EXIT	93243	ERNS
FRAZIER PARK	S112871690	INDUSTRIAL CONTAMINATION EXTRACTION SERV	600 E BORDER	93225	HAZNET
FRAZIER PARK	S113043933	US FOREST SERVICE	CHUCHPATE RANGE DISTRICT	93225	HAZNET
FRAZIER PARK	S112879941	US DEPT HOUSING AND URBAN DEVELOPMENT	6832 FRASIER RD	93225	HAZNET
FRAZIER PARK	S113164645	USDA FOREST SERVICE	STAR ROUTE BOX 400	93225	HAZNET
GORMAN	S113108990	COUNTY OF LOS ANGELES	BALL MOUNTAIN L344441 L1184338	93243	HAZNET
GORMAN	S113108989	COUNTY OF LOS ANGELES	CAJON PEAK L344813 L1184853	93243	HAZNET
GORMAN	S113072832	WILLIAM E WARNE POWER PLANT	SOUTH END OF SMOKEY BEAR RD	93243	HAZNET
GORMAN	S113065073	LOS ANGELES COUNTY FIRE DEPARTMENT	46833 PEACE VALLEY RD-STATION 77	93243	HAZNET
GRAPEVINE	S112924632	SOUTHERN CALIFORNIA EDISON	LAT 34.56.6.N LONG 118.50.36 W	93243	HAZNET

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GRAPEVINE	S112915793	SOUTHERN CALIFORNIA EDISON/ PASTORIA SUB	PASTORIA RD 5MI E OF GRAPEVINE(I5)	93243	HAZNET
GRAPEVINE	S112920534	SOUTHERN CALIFORNIA EDISON	PASTORIA RD 5 MI E OF GRAPEVINE	93243	HAZNET
HARDWICK	S112912095	PG&E	612115 AVENUE 15	93203	HAZNET
KERN COUNTY	8874544		I5 & MUULIX RD JG BOSWELL FARM		ERNS
KERN COUNTY	S106389126		S31 , T26 , RG20E NEAR LOST HILL (N.W.) ON HWY RD		CHMIRS
KERN COUNTY	S105630767		S-21 ,T-31S, R29E ARVIN AREA		CHMIRS
KERN COUNTY	90181522		.ELL 16G S20 T28S R21E S BELLRIDGE FLD		ERNS
KERN COUNTY	96474759		01/24/1996		ERNS
KERN COUNTY	91215411		SW 1/4 OF SW 1/4 S34 T32S R24E		ERNS
KERN COUNTY	91205088		S35 12N 21W MOCO TANK FARM		ERNS
KERN COUNTY	90171224		HWY 155 1 1/2 MI E OF WOODY FIRE STATION		ERNS
KERN COUNTY	S105632358		S 15B T 31S R 23E		CHMIRS
KERN COUNTY	S105630275		S 15G T 31S R 24E		CHMIRS
KERN COUNTY	91226889		SR 178 PARALLELING KERN RIVER		ERNS
KERN COUNTY	S106390358		SR 184 WEED PATCH HIGHWAY & RED BANK RD AT INTERSECTION.		CHMIRS
KERN COUNTY	S105642321		S 19 T 28S R 21E		CHMIRS
KERN COUNTY	S105641967		S 1C T 32 R 23		CHMIRS
KERN COUNTY	S105640299		S 2 T 32S R 23 E		CHMIRS
KERN COUNTY	91236928		72 MR 2/29 S BELLRIDGE FLD S29 T28S R21E		ERNS
KERN COUNTY	S105637145		S 21 T31S R 22 E		CHMIRS
KERN COUNTY	S105637658		S 27G T 31 R 24 NEAR TAFT		CHMIRS
KERN COUNTY	S105630624		T 28S R- 21E BELL RIDGE OIL FIELD		CHMIRS
KERN COUNTY	S105635706		S 29 T 30S R 24E, TANK SETTING 4-29RSOZ		CHMIRS
KERN COUNTY	S106389714		S 3 T 11N R 21W 2 MI EAST OF OLD RVR RD ON SR 166		CHMIRS
KERN COUNTY	S107538894		I-5, 3 MILES NORTH GRAPEVINE		CDL
KERN COUNTY	S105631850		S 30 T 22 R MT DIABLO, NEAR CIMERIC WELL # 375		CHMIRS
KERN COUNTY	S105630582		S 30D T-32S R-24E HOBBY HILS RD NEAR HWY 33		CHMIRS
KERN COUNTY	S105633031		S 31 T 30S R 24E		CHMIRS
KERN COUNTY	S105630371		S 32 T32 R29 KERN CO		CHMIRS
KERN COUNTY	S105630526		T 32 S 35 R 23		CHMIRS
KERN COUNTY	S106389068		T 32 S R 22 E S 14 MIDWAY SUNSET LEASE 10 MIN TAFT		CHMIRS
KERN COUNTY	S105629473		S 32 T 26 S R 20 E		CHMIRS
KERN COUNTY	S105634621		S 33 T 30S R 23E		CHMIRS
KERN COUNTY	91217667		HWY 33 / BARRY HOLDING LEASE S35		ERNS
KERN COUNTY	S105635882		S 34 T 30S R 24EWELL-112-34S		CHMIRS
KERN COUNTY	S105630276		S 34 S T 30 R 24E		CHMIRS
KERN COUNTY	S105637319		S 34, T 11 , R 19		CHMIRS
KERN COUNTY	S105630277		S 34S T 30 R 24E		CHMIRS
KERN COUNTY	S105641427		S 35 T 32S R 23E		CHMIRS
KERN COUNTY	S105642322		S 35B T 33S R 23E		CHMIRS
KERN COUNTY	S105635705		S 36 T 30S R 24 E WELL 7A-365		CHMIRS
KERN COUNTY	S105630508		S 36 T 32S R 23E FORMAX CENTRAR TANK BATTERY		CHMIRS
KERN COUNTY	S107538866		HWY 46 (8-10 MI W OF WASCO)		CDL
KERN COUNTY	S105640902		I 5 .25 MI NO WHEELER RIDGE SCALES		CHMIRS
KERN COUNTY	91201874		SR166 5 MI W OF OLD RIVER RD		ERNS
KERN COUNTY	S105630704		S/B 5 GRAPEVINE IF		CHMIRS
KERN COUNTY	90185894		S.R. 58 S OF FAIRFAX RD.		ERNS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	S105636020		E/B 58 FROM HEART FLAT TO KINGS SCALES		CHMIRS
KERN COUNTY	8873641		HWY 58 1MI W OF BROOM RD		ERNS
KERN COUNTY	S105641441		S 6 R 32S R 24E		CHMIRS
KERN COUNTY	S105631855		S 6 G T 315 R 24 E		CHMIRS
KERN COUNTY	S107538873		HWY 65 & LERDO HWY (1MI N OF LERDO H)		CDL
KERN COUNTY	S105631856		S 6G T 315 R 24 E		CHMIRS
KERN COUNTY	S105629722		S 8 T30S R22E 45 MILES WEST OF BAKERSFIELD		CHMIRS
KERN COUNTY	S105629654		S 8 T 29S R 28E NEAR BAKERSFIELD		CHMIRS
KERN COUNTY	90186137		N/B 99 ACROSS FROM WHEELER RIDGE SCALES		ERNS
KERN COUNTY	90189921		S/B 99 2 MI SOUTH OF LARDO HWY		ERNS
KERN COUNTY	S105636005		SR 99 AT KIMBERLINA (SOUTHBOUND) KERN CO		CHMIRS
KERN COUNTY	S106389039		NB 99 AT KINIBERLINA RD, 15-20 MILES NORTH OF BAKERSFIELD		CHMIRS
KERN COUNTY	S105641494		NB 99 AT KIMBERLINA EXIT NORTH OF BAKERSFIELD		CHMIRS
KERN COUNTY	S107538767		HIGHWAY 99 AND DAVID ROAD/KERN COUNTY		CDL
KERN COUNTY	8712269		HWY-58 @ FAIRFIELD RD		ERNS
KERN COUNTY	S107538907		IN A GRAPE VINE FIELD NEAR MCFARLAND		CDL
KERN COUNTY	91215405		ANDERSON FITZGERALD DETTY PLANT-CYMRIC F		ERNS
KERN COUNTY	91210079		ANDERSON FITZGERALD FIELD-DEHYDRATION PL		ERNS
KERN COUNTY	S106389003		ANGOS DEHY FACILITY KERN RIVER FIELD S-13 T-28S R-27E		CHMIRS
KERN COUNTY	S106390111		ANZA & IMPERIAL TANK FARM S-4 T-28 R-27 = PORTERVILLE HIWAY		CHMIRS
KERN COUNTY	M300003087	GRANITE CONSTRUCTION CO.	ARVIN PIT		US MINES
KERN COUNTY	91215463		AUTOMATIC WELL TESTING #51/S33 T29 R28		ERNS
KERN COUNTY	S105632722		AWT 108, DAVIS LEASE S 8 T 29 R 28		CHMIRS
KERN COUNTY	94418533		AWT 1O8, DAVIS LEASE; SECT. 8, T-29, R-28		ERNS
KERN COUNTY	S105641110		BAKERSFIELD- R/R MP 309		CHMIRS
KERN COUNTY	S105634422		BEALVILLE 25 CARS DERAILED		CHMIRS
KERN COUNTY	S105635160		BEARDSLEY CANAL, CHINA GRADE LOOP ROAD		CHMIRS
KERN COUNTY	90189392		SO BELL RIDGE LEASE, KERN RIDGE LEASE		ERNS
KERN COUNTY	90151726		SOUTH BELL RIDGE FIELD SECTION 34 TOWN 28S RANGE 21E		ERNS
KERN COUNTY	90465169		SOUTH BELL RIDGE FIELD/S34 T28S R21E		ERNS
KERN COUNTY	91216929		SOUTH BELLRIDGE / S29 R28S R21E		ERNS
KERN COUNTY	91466531		SOUTH BELLRIDGE FIELD/S29 T28S R21E		ERNS
KERN COUNTY	92285465		BELLRIDGE LEASE		ERNS
KERN COUNTY	91466520		BELLRIDGE FIELD / S18 T28S R21E		ERNS
KERN COUNTY	90151753		BELLRIDGE FIELD SECTION 29 TOWN 28 S RANGE 21E		ERNS
KERN COUNTY	91224350		N BELLRIDGE LEASE / S35 T28S R20E		ERNS
KERN COUNTY	S106389687		BELLRIDGE LEASE S-3 T-29S R-21E /WELL LOCATION IS 3331-3		CHMIRS
KERN COUNTY	91207555		SOUTH BELLRIDGE FIELD		ERNS
KERN COUNTY	91210159		BELLRIDGE FIELD / S34 T28S R21E		ERNS
KERN COUNTY	90173490		BELLRIDGE FIELD / 12 MI N OF MCKITTRICK		ERNS
KERN COUNTY	91216911		SO BELLRIDGE FIELD, WELL 166J		ERNS
KERN COUNTY	91467144		SOUTH BELLRIDGE/S28 T28S R21E		ERNS
KERN COUNTY	1007466358	PETRO-LEWIS CORP.	SOUTH BELRIDGE OIL FIELD		FINDS
KERN COUNTY	91233378		SOUTH BELRIDGE		ERNS
KERN COUNTY	1007467110	SHELL CALIFORNIA PRODUCTION CO.	BELRIDGE FIELD		FINDS
KERN COUNTY	91240366		BIDWELL PROPERTY BRUNSWICK LEASE/S26 T31S R22E		ERNS

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KERN COUNTY	M300001886	BLAKE'S WHOLESALE STONE	BLAKE'S WHOLESALE STONE		US MINES
KERN COUNTY	S106389118		BOILER ROOM,KERN MEDICAL CENTER 830 FLOWER STREET, BFD		CHMIRS
KERN COUNTY	M300000668	US BORAX INC	BORON MINE		US MINES
KERN COUNTY	S105630864		SOUTH BOUND I5, SOUTH OF SR 223		CHMIRS
KERN COUNTY	S107539570		NORTH BOUND INTERSTATE, HIGHWAY 166		CDL
KERN COUNTY	S107539569		NORTH BOUND I-5 NEAR GRAPEVINE		CDL
KERN COUNTY	90186071		BRECKENRIDGE AND VINELAND S32 T29 R29		ERNS
KERN COUNTY	90190714		BREEMER LEASE/S23 T31S R22E		ERNS
KERN COUNTY	91205087		BRUNSWICK LOGAN LEASE T23 T31 R22E		ERNS
KERN COUNTY	90184878		BUENA FE TANK BATTERY		ERNS
KERN COUNTY	8712306		CAHN LEASE/T27S,R21E,S4(RURAL)		ERNS
KERN COUNTY	S105636185		CAJON B WELL 53-34 S 34 T 11N R 19W		CHMIRS
KERN COUNTY	S106389361		CAN FIELD - WELL # 233/3 MI S/W OF BAKERSFIELD PRODUCTION LI		CHMIRS
KERN COUNTY	S105636467		CAN FIELD ACME #11/3 MI S/W OF BAKERSFIELD		CHMIRS
KERN COUNTY	M300003084	LADD READY MIXED CONCRETE CO	CANEBRAKE PIT		US MINES
KERN COUNTY	91236957		CARNERAS STN., 5 MILES S. OF LOST HILLS		ERNS
KERN COUNTY	S105632054		CASTAIC AND WOODROW ORVILLE		CHMIRS
KERN COUNTY	91222102		CENTRAL STORAGE TANK FARM TAN #T485		ERNS
KERN COUNTY	91200753		CHINA GRADE LOOP RD/KERN RIVER FIELD		ERNS
KERN COUNTY	S107538048		CHP SCALES @ GRAPEVINE/SB I-5		CDL
KERN COUNTY	S105644476		CIMMRICK OIL FIELD SALT CREEK UNIT, S20,T29S,R21E		CHMIRS
KERN COUNTY	1007466656	SHELL CALIFORNIA PRODUCTION INC.	WEST COAST DIVISION		FINDS
KERN COUNTY	S105641072		COFFEY ROAD, NEAR R/R CROSSING		CHMIRS
KERN COUNTY	S106389357		COLES LEVEE A - S-31 T-30S R-25E 2 MILES SOUTH OF TUTMAN		CHMIRS
KERN COUNTY	S107540627		SE CORNER WOOLLOME & LEONARD		CDL
KERN COUNTY	91220174		NW CORNER S19 T26S R21E		ERNS
KERN COUNTY	91238313		SW CORNER S24 T11N R23W		ERNS
KERN COUNTY	S107539787		ON COUNTY LINE ROAD, 1/2 MI EAST OF ROAD 192, NEAR DELANO		CDL
KERN COUNTY	S107538271		DAWN RD, 0.5 MILE E OF HWY 14		CDL
KERN COUNTY	91201864		DERNRIVER FIELD COATES LEASE/S32 T28 R28		ERNS
KERN COUNTY	S105631783		DICKERSON LE S15, T31S, R22		CHMIRS
KERN COUNTY	1009410770		DOME LANDS WILDERNESS		FINDS
KERN COUNTY	91228971		6 MI E OF MARICOPA OFF HWY 166		ERNS
KERN COUNTY	91226868		1.5 MI E OF 86-24R / S19S T30S R24E		ERNS
KERN COUNTY	91224411		1 MI E OF 3-24R SO2 TANK SETTING		ERNS
KERN COUNTY	90190766		EDISON HWY S3 T30 R29E		ERNS
KERN COUNTY	91201842		EDISON GROVE AREA / S32 T29		ERNS
KERN COUNTY	M300003085	GRIFFITH CO.	EDMONSTON ROCK PLANT		US MINES
KERN COUNTY	S106389320		ELK HILLS TO TAFT PIPELINE MP#24 1-1/2 MILES FROM VALLEY ACR		CHMIRS
KERN COUNTY	90190731		ELK HILL, T30S T23E		ERNS
KERN COUNTY	90190742		EXXON EDISON LEASE/YOUNG FEE		ERNS
KERN COUNTY	S106389325		25 FEET NORTH HIWAY 119 1/2 MI WEST OF AIRPORT ROAD		CHMIRS
KERN COUNTY	90190744		FIELD BETWEEN BAKERSFIELD & TAFT		ERNS
KERN COUNTY	S105631828		FINLEY LEASE 5 MI N OF FELLOWS		CHMIRS
KERN COUNTY	S105630408		FORT CAHON REST STOP S.B FWY 99		CHMIRS

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City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	91210278		646 FRANK S33 T28S R21E		ERNS
KERN COUNTY	S105630592		12 Y GABREL SEC 12 T-30 RG-22 NEAR MCKITTRICH		CHMIRS
KERN COUNTY	91230832		GIBSON LEASE-NORTHBELRIDGE/S36 T27S R20E		ERNS
KERN COUNTY	2010931275		GLOBE LEASE		ERNS
KERN COUNTY	S105630916		GLOBE UNIT. SEC 15 T 31S RG 22 E NEAR SHERBY ACRES		CHMIRS
KERN COUNTY	2010931276		GLOBE LEASE		ERNS
KERN COUNTY	S105632796		GNW A AWT 83 S 30 T 28 R 28		CHMIRS
KERN COUNTY	90179271		NB GOLDEN STATE FRWY(I05)FRAZIER PARK		ERNS
KERN COUNTY	S106389067		NB GOLDEN STATE FWY 1/4 MILE N OF #3 TURN THROUGH SOUTH OF T		CHMIRS
KERN COUNTY	S105634759		GORE C LEASE FELLOWS		CHMIRS
KERN COUNTY	91234512		GOVERNMENT SECTION 27, T22E R31S		ERNS
KERN COUNTY	S107538603		GRAPEVINE SCALE, SB 99, CHP SCALE (?)		CDL
KERN COUNTY	8853849		GREELY GATHERING LINE SEC 19 T 29S R 26E/ .75 MILE NORTH OF		ERNS
KERN COUNTY	91222059		GREEN & WHITTIER "A" LEASE S31 T28 R28		ERNS
KERN COUNTY	92262941		HECLA LEASE, S19 T28S R28E		ERNS
KERN COUNTY	S106389097		SOUTH HENDER WESTERN LEASE SEC 21 T- 315 RG 22 E		CHMIRS
KERN COUNTY	90190741		HERSEY TANK BATTERY EXXON EDISON LEASE		ERNS
KERN COUNTY	90171153		HILL LEASE S19 T28S R21E		ERNS
KERN COUNTY	91210283		HILL LEASE S28 T28S R21E		ERNS
KERN COUNTY	S107540608		SB HWY 99/S OF SEVEN STANDARD ROAD		CDL
KERN COUNTY	91238336		ST HWY 14, IMPERIAL WEST CHEM PLANT		ERNS
KERN COUNTY	90168618		NB I-5 NR TEJON CHP STATION, NR LA LINE		ERNS
KERN COUNTY	S105630184		N/B I-5 AT LEBEC, BOTTOM OF THE GRAPEVINE		CHMIRS
KERN COUNTY	S107539576		NORTH I-5 AT 99 INTERCHANGE		CDL
KERN COUNTY	8712698		I-5/1-MI S OF HWY-46		ERNS
KERN COUNTY	S105630605		SB I5 AT TEJON RESTARCA		CHMIRS
KERN COUNTY	S106389308		ILMON (18 MILES EAST OF BAKERSFIELD?) SANTA FE TRAIN ON SP T		CHMIRS
KERN COUNTY	S105631934		IMPERIAL WEST CHEMICAL CO 18700 SR-14 NEAR BFD		CHMIRS
KERN COUNTY	S105631902		IMPERIAL WEST CHEMICAL (18700 HIWAY 14)		CHMIRS
KERN COUNTY	91466495		INDIAN AND COLONIAL LEASE		ERNS
KERN COUNTY	91206867		INDIAN AND COLONIAL LEASE		ERNS
KERN COUNTY	S106389044		INTERSECTION OF WHEELER RIDGE AND DAVID RD 20 MILES SOUTH OF		CHMIRS
KERN COUNTY	M300003080	GRANITE CONSTRUCTION CO.	JAMES ROAD		US MINES
KERN COUNTY	91205194		JOHNSON FARMS, OFF EDISON RD AND SR58		ERNS
KERN COUNTY	2000540831		JUNCTION PUMP STATION	0	ERNS
KERN COUNTY	S105637212		KENDON LEASE S-35 T-32S R-23E		CHMIRS
KERN COUNTY	S106389261		KENDON LEASE S-35 T-32S R-23E OUTSIDE TAFT SAC #021130		CHMIRS
KERN COUNTY	2003645391		KENDON LEASE		ERNS
KERN COUNTY	90190722		520-L-35 KERN RIDGE / S35 T28S R20E		ERNS
KERN COUNTY	91202812		KERN RIDGE LEASE GENERATOR 60		ERNS
KERN COUNTY	90190721		512E-29 KERN RIDGE / S29 T28S R21E		ERNS
KERN COUNTY	91230715		KERN CO THOMAS GUIDE PG 5 E1, W OF HWY33		ERNS
KERN COUNTY	90188268		KERN LEASE S9 T29 R28		ERNS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	S107539095		KERN FRIANT CANAL (SEE CLUE)		CDL
KERN COUNTY	S105631089		KERN RIVER FIELD - SEC 29 T 28 R 28		CHMIRS
KERN COUNTY	91204244		KERN RIDGE FIELD		ERNS
KERN COUNTY	91223511		KERN RIDGE LEASE		ERNS
KERN COUNTY	90190724		502 A-2 KERN RIDGE / S2 T28S R20E		ERNS
KERN COUNTY	90190723		502A-S KERN RIDGE / S2 T28S R20E		ERNS
KERN COUNTY	90188879		KERN RIDGE FIELD / S29 T28S R21E		ERNS
KERN COUNTY	90190719		542-G KERN RIDGE/ S29 T28S R21E		ERNS
KERN COUNTY	S105630133		KERN RIVER FIELD S 30 T 28 R 28		CHMIRS
KERN COUNTY	90190718		559G-18 KERN RIDGE/ S18 T28S R20E		ERNS
KERN COUNTY	90190725		537-N-28 KERN RIDGE / S28 T28S SR21E		ERNS
KERN COUNTY	8851580		KERN FIELD SAN MARTINEZ CANYON ROAD		ERNS
KERN COUNTY	90179347		KERNRIDGE LESE, SO BELL RIDGE		ERNS
KERN COUNTY	91210355		KERNRIDGE LEASE, BELL RIDGE FIELD		ERNS
KERN COUNTY	91228949		KERNRIVER OILFIELD FEE C LEASE		ERNS
KERN COUNTY	91228952		KERNRIVER OIL FIELD, S31 T28S R28		ERNS
KERN COUNTY	91230662		KERNRIVER OIL FIELD /S30 T28 R28		ERNS
KERN COUNTY	S105634766		MC KITTRICK 'C' LEASE S-6 T-30S R-22E		CHMIRS
KERN COUNTY	S107539143		KYTE RD, 1 MI S OF POND ROAD		CDL
KERN COUNTY	90190715		L.O.T.S. 213/S28 T28S R21E		ERNS
KERN COUNTY	90190717		L.O.T.S. 207 / S29 T28S R21E		ERNS
KERN COUNTY	8860906		24Z LACT / SEC 24 T 30S R 22E ELK HILLS NAVAL PETROLEUM RESE		ERNS
KERN COUNTY	S105635537		LAGOON DRIVE EAST OF TRACY AVE		CHMIRS
KERN COUNTY	93336358		LEASE 5Z		ERNS
KERN COUNTY	S105641425		33 LEASE S 33 T 28 R 28		CHMIRS
KERN COUNTY	S105632047		LEASE NAME:BB HILLS T-31S R-24E S-29G		CHMIRS
KERN COUNTY	93325894		LEASE WNS		ERNS
KERN COUNTY	90188267		SJ LEASE S5, T25, R28		ERNS
KERN COUNTY	M300000909	NATIONAL CEMENT CO	LEBEC (LOS ROBLES PLANT)		US MINES
KERN COUNTY	M300006768	NATIONAL CEMENT CO. OF CALIFORNIA, INC.	LEBEC CEMENT PLANT		US MINES
KERN COUNTY	M300006770	NATIONAL CEMENT CO. OF CALIFORNIA, INC.	LEBEC QUARRY		US MINES
KERN COUNTY	90162296		LIGHT OIL TEST STATION 201A, KERN RIDGE LEASE SOUTH BELL RID		ERNS
KERN COUNTY	92262312		LIGHT OIL HANDLING FACILITY KERNRIDGE LEASE		ERNS
KERN COUNTY	S105641314		LOCKWOOD LEASE WELL 16 S 16 T 32S R 22E		CHMIRS
KERN COUNTY	2003648790		LOCKWOOD LEASE		ERNS
KERN COUNTY	M300002820	HM HOLLOWAY INC	LOST HILLS MINE		US MINES
KERN COUNTY	S105634028		LOST HILLS OIL FIELD WELL # 309-19		CHMIRS
KERN COUNTY	S105633059		LOST HILLS LEASE S 8 T 27S R 21E		CHMIRS
KERN COUNTY	S105633315		LOST HILLS S-13 T-26S R-20E		CHMIRS
KERN COUNTY	90181122		LOT 208 SOUTH BELLRIDGE FIELD		ERNS
KERN COUNTY	90185818		LOT #208 KERNRIDGE, S BELLRIDGE LEASE		ERNS
KERN COUNTY	90464925		LOT 208 SOUTH BELLRIDGE FIELD		ERNS
KERN COUNTY	91220562		LOT #201 KERNRIDGE LEASE S34 T28S R21E	-	ERNS
KERN COUNTY	91466443		LOTS 202A / S33 T28S R21E		ERNS
KERN COUNTY	91466749		LOTS 201 KERNRIDGE LEASE S34 T28S R21E		ERNS

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KERN COUNTY	91219759		LOTS 201 KERNRIDGE LEASE		ERNS
KERN COUNTY	91206038		LOTS 202A		ERNS
KERN COUNTY	S105642727		MAIAN ROAD,NEAR CANAL ORCHARD HILL FIELD		CHMIRS
KERN COUNTY	M300002068	NESTLE PURINA PETCARE CO	MARICOPA CA		US MINES
KERN COUNTY	8865577		MCKITTRICK FEE PROPERTY;1 MILE WEST OF HIGHWAY 33;3MILES NOR		ERNS
KERN COUNTY	90179324		MCKITTRICK LEASE WELL #378B		ERNS
KERN COUNTY	2013039298		MCKITTRICK UNIT PROPERTY SEE LEGAL DESCRIPTION		ERNS
KERN COUNTY	91222043		MCKITTRICK FIELD		ERNS
KERN COUNTY	S106391529		MCKITTRICK FIELD, DEL MONTE LEASE, S-18, T-30S, R-22E		CHMIRS
KERN COUNTY	S106389675		MCKITTRICK CALIF CYMRIC PRODUCTION AREA 29S R-21E 50 ' WEST		CHMIRS
KERN COUNTY	S107526580		1-1 1/2 MI W HOLLOWAY RD ON HWY 46		CDL
KERN COUNTY	8868177		5 1/2 MI EAST OF I-5 ON HWY 138		ERNS
KERN COUNTY	90181572		MID NORTH LESE 1/2 MI N OF KERTO RD		ERNS
KERN COUNTY	91234498		S MIDWAY SUNSET FIELD S2 T11N R24W		ERNS
KERN COUNTY	90184387		MIDWAY SUNSET FIELD		ERNS
KERN COUNTY	S106389311		MIDWAY SUNSET LEASE 24 FEE T 31S R-22E OFF SHELL ROAD		CHMIRS
KERN COUNTY	S106391684		NORTH MIDWAY OIL FIELD, S-35, T-30S, R-22E NEAR MCKITTRICK		CHMIRS
KERN COUNTY	S105631944		MIDWAY PRIEMAN TANKFAN S-32,T-27S, R-27E NEAR BFD		CHMIRS
KERN COUNTY	90151741		MIDWAY SUNSET OILFIELD SECTION 31, TOWN 31S, RANGE 23E		ERNS
KERN COUNTY	S105630640		MIDWAY SUNSET S 30 T 315 R 235		CHMIRS
KERN COUNTY	90465606		MIDWAY SUNSET OIL FIELD/S31S R23E		ERNS
KERN COUNTY	8714248		MIDWAY-SUNSET FIELD		ERNS
KERN COUNTY	S105644432		MIDWEST SUNSET OIL FIELD PRODUCTION FACILITY		CHMIRS
KERN COUNTY	90184396		1 MILE WEST HWY 33 AND 1/4 MILE NORTH OF HWY 46		ERNS
KERN COUNTY	S107526542		0.1 MILE E OF ZERKER RD/1 MI S SAMOSO..		CDL
KERN COUNTY	S105631700		MILEPOST 887.7 TRACK #409 AND 417		CHMIRS
KERN COUNTY	8717201		4 MILES EAST OF TAFT IN BV HILLS ON SEC 14, TWNSP 32S, RNG 2		ERNS
KERN COUNTY	M300002069	OIL DRI CORP	MINE/PLANT		US MINES
KERN COUNTY	91207151		MOBIL ROSE STATION WHEELER RIDGE RD		ERNS
KERN COUNTY	91210250		MOCAL ROAD NEAR FELLOWS/S22 T32S R23E		ERNS
KERN COUNTY	8855979		MOCAL RD		ERNS
KERN COUNTY	2008901898		MOCAL RD.		ERNS
KERN COUNTY	2009901898		MOCAL RD.		ERNS
KERN COUNTY	M300006767	CALIFORNIA PORTLAND CEMENT CO.	MOJAVE QUARRY		US MINES
KERN COUNTY	M300000920	CALIFORNIA PORTLAND CEMENT CO	MOJAVE PLANT		US MINES
KERN COUNTY	90179310		MOJAVE SIERRA HWY		ERNS
KERN COUNTY	S105636210		MONEDA 9 S 30 T 28S R 28E		CHMIRS
KERN COUNTY	90167430		MPR J / S28, T30S, R24E		ERNS
KERN COUNTY	91224353		#28 MR / S34 T28S R21E		ERNS
KERN COUNTY	98428968		MUD AND OIL IN DRY BED		ERNS
KERN COUNTY	8872972		2/10 MI N OF SHELL RD/E OF HWY-33		ERNS
KERN COUNTY	91234750		1 MI N OF HWY ON ENOS LANE IN ORCHARD		ERNS
KERN COUNTY	91223755		20 MI N MCKITTRICK / S29 T28S R28E		ERNS

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KERN COUNTY	90189391		8 MI N OF TAFT S22 T31S R22E		ERNS
KERN COUNTY	S107539479		N-I5/NORTH OF SR 43		CDL
KERN COUNTY	S105630583		2 MI N/W OF FELLOWS		CHMIRS
KERN COUNTY	90167352		NATIONAL USL LEASE / T32S, R23E		ERNS
KERN COUNTY	S115811800	VINTAGE SILL 2-14H WELL DRILLING SUMP	NW1/4 NE1/4 SEC 14 T28S, R25E MDB&M		ENF
KERN COUNTY	2008891893		NEAR FRAINT CANAL		ERNS
KERN COUNTY	S105634206		NEAR WELL 42-16G S-16 T-31S R-24E		CHMIRS
KERN COUNTY	S105641867		NEAR FUEL CELL EDWARDS AFB		CHMIRS
KERN COUNTY	2001562729		NEAR VALLEY ACRES		ERNS
KERN COUNTY	S107540761		SR99 NO BOUND LANE/1 MI S OF HWY 166		CDL
KERN COUNTY	2004735783		NOTH SIDE OF LAVAL RD		ERNS
KERN COUNTY	91230896		5 MI NW OF TAFT NAT'L UNION LILLY LEASE		ERNS
KERN COUNTY	91210217		7 MI NW OF TAFT ON HWY 33		ERNS
KERN COUNTY	91230659		NW/NE S5, T29S R28E		ERNS
KERN COUNTY	99618202		1MI SOUTH OF INTERSTATE 5 AND GRAPEVINE ROAD		ERNS
KERN COUNTY	98426068		2.3 EAST OF TOWERLINE RD AND .25 MILE SOUTH OF BENA		ERNS
KERN COUNTY	S109287147	ROUND MTN. SEC18 USL	C. OF SEC18,T28S,R29E,MDB&M		LDS
KERN COUNTY	91222108		SW OF NE QUARTER S11 T31 R25E		ERNS
KERN COUNTY	S105635899		S/E OF MARICOPA S-17 T-11N R-23W		CHMIRS
KERN COUNTY	S107541105		W OF MCFARLAND, SEE GREEN FOR DETAILS		CDL
KERN COUNTY	2010928636		OIL FIELD		ERNS
KERN COUNTY	90188218		OIL STATION 210, KERNRIDGE LEASE		ERNS
KERN COUNTY	91210108		OIL STN 202A KERN RIDGE / S33 T28S R21E		ERNS
KERN COUNTY	2003708213		OIL FIELD		ERNS
KERN COUNTY	S105644249		OLD RIVER RD & MULLUX RD FANUCCHI BROTHERS FARM		CHMIRS
KERN COUNTY	S107540166		ORCHARD NEAR DELANO (SEE CLUE FORM)		CDL
KERN COUNTY	90171256		PACHECO RD & BUENA VISTA SW OF BAKESFIEL		ERNS
KERN COUNTY	S107540219		PANAMA RD		CDL
KERN COUNTY	90181597		H&O PETROLEUM/MIDWAY SUNSET FIELD		ERNS
KERN COUNTY	S105637059		PHILLIPS LAB SEWAGE PLANT EDWARDS AFB		CHMIRS
KERN COUNTY	S106389448		POSUNCULA KCL8112 LEASE S-12 T-20S R-25E 10 MILES WEST OF BA		CHMIRS
KERN COUNTY	91201828		PRIVATE RD XING ZERKER RD 1 MI SO LERDO		ERNS
KERN COUNTY	S105634973		T-31S R-22E S-15 SECURITY LEASE		CHMIRS
KERN COUNTY	S106389330		T-30S R-22E S-23 1/4 MILE NORTH OF SKYLINE RD 3 MILES EAST O		CHMIRS
KERN COUNTY	S105630094		S-23 R-27S T-21E LOST HILLS		CHMIRS
KERN COUNTY	S105631437		T-29 R-29 S-32 SHIELDS AND ARMS		CHMIRS
KERN COUNTY	S105635538		S-18 R-30S T-22E MCKITTRICK FIELD, REWARD ROAD		CHMIRS
KERN COUNTY	90188880		T28S R21E S35		ERNS
KERN COUNTY	91223751		S2 R22E T31S 11 MI NW OF TAFT		ERNS
KERN COUNTY	91230889		S22 R22E T3S NORTH OF FELLOWS		ERNS
KERN COUNTY	90172595		S20 R28S R21E/KERN RIDGE LEASE		ERNS
KERN COUNTY	91466256		RAMBLER LEASE SE QUARTER S19 T28S R28E		ERNS
KERN COUNTY	91200524		RAMBLER LEASE SE QUARTER WELL 79		ERNS
KERN COUNTY	M300002205	GLAMIS RAND MINING CO	RAND MINE		US MINES
KERN COUNTY	M200000046	GLAMIS RAND MINING CO	RAND MINE		US MINES

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	M200000116	GLAMIS RAND MINING CO	RAND MINE		US MINES
KERN COUNTY	M300006012	GLAMIS RAND MINING CO	RAND MINE		US MINES
KERN COUNTY	8853864		RANDALL RD		ERNS
KERN COUNTY	S105634758		REFERENCE WELL JUNCTION #79 S-9 T-29 R-28		CHMIRS
KERN COUNTY	90190697		REPUBLIC USD RELIEF TANK,S MIDWAY SUNSET		ERNS
KERN COUNTY	S105635545		REVENUE 111 S-4 T-29 T-29 (20 MI N/E OF BKRSFLD)		CHMIRS
KERN COUNTY	M300003086	GRANITE CONSTRUCTION CO	RIDGECREST ROCK PLANT, SAND CANYON PIT		US MINES
KERN COUNTY	90174192		ROGERS TANK/SW 4-5-16, T29S, R28E		ERNS
KERN COUNTY	8713515		3/4 MI S OF ROSEDALE HWY		ERNS
KERN COUNTY	S106391434		S-28,T-28S,R-21E, BELLRIDGE FIELD, AT THE OIL SHIPPING FACIL		CHMIRS
KERN COUNTY	8716844		S22,T29S,R21E/CYMRIC FIELD/F&W LEASE		ERNS
KERN COUNTY	8872790		S24,R25E,T30S		ERNS
KERN COUNTY	8712267		S27,T31S,R22E/OXFORD LEASE/OIL FIELD		ERNS
KERN COUNTY	90190720		511L-29 / S29 T28S R21E		ERNS
KERN COUNTY	S106389085		S31T29S R 22E, 6 MILES NORTH EAST OF MCKITTRICK		CHMIRS
KERN COUNTY	S105643787		S32,T31,R23		CHMIRS
KERN COUNTY	90190716		511G-35 / S35 T28S R20E		ERNS
KERN COUNTY	91466941		S35NW T31S R22E		ERNS
KERN COUNTY	8720601		S6,T11N,R23W/OFF CURBO RD		ERNS
KERN COUNTY	M300003081	VULCAN MATERIALS CO.	SAN EMIDIO (#024)		US MINES
KERN COUNTY	S105630635		SEC 35S T-30S RG 24 E NEAR TUPMAN		CHMIRS
KERN COUNTY	S105630894		SEC 23 T 30S RG 26E NEAR BAKERFIELD		CHMIRS
KERN COUNTY	S105631396		SEC 20 T 28S RG 21 E NEAR MD KITTUCK		CHMIRS
KERN COUNTY	91466783		SEC 27 TWNSHP 31S RANGE 22E		ERNS
KERN COUNTY	872275		SEC 29, TWNSHP 30S, RNG 22E 1 MI SOUTH OF MCKITTRICK		ERNS
KERN COUNTY	S105631400		SEC 11 T 12N RG W NEAR MARICOPA WELL #47X-11		CHMIRS
KERN COUNTY	8864441		SEC 2 T 31N R 23E		ERNS
KERN COUNTY	91228801		SEC 13, TWNSHP 28S, R20E		ERNS
KERN COUNTY	91466357		SEC 34 T28S R21E		ERNS
KERN COUNTY	S112265065	BELRIDGE, TILLINGHAST	SEC 24, T28S, R20E, MDB&M		ENF
KERN COUNTY	87968		SEC 1 TWP 27S RNG 22E MDB WASCO, CA IS 7.5 MILES S ON HWY 46		ERNS
KERN COUNTY	91230848		SEC 22, T31, R22E		ERNS
KERN COUNTY	S105631595		SEC - 34 W RG - 21E T- 295		CHMIRS
KERN COUNTY	S105630744		SEC 5G T31 S, R 24 E - 25 G STV		CHMIRS
KERN COUNTY	87495		SEC 30 TNSHIP 30S RANGE 22E KERN CNTY		ERNS
KERN COUNTY	S105631802		SEC 13 T-26S RG20E NEAR LOST HILL (5 MI NORTH)		CHMIRS
KERN COUNTY	S105631402		SEC 11 T 12W R 22W NEAR MARICOPA		CHMIRS
KERN COUNTY	8851310		SEC 7, TWN 31S, RAN 22E AT MT DIABLO BASE MERIDIAN		ERNS
KERN COUNTY	S106389023		SEC-14 T-31S R-22E NEAR FELLOWS 3 MILES NORTH ON HWY 33		CHMIRS
KERN COUNTY	S105632163		SEC-18 T-27S R-21E		CHMIRS
KERN COUNTY	S105630735		SEC. 325, T 30 S, R 24 E		CHMIRS
KERN COUNTY	S105631593		SEC13 T- 26 RG 20 NEAR LOSTHILLS 5 MILES N.W.		CHMIRS
KERN COUNTY	S112265064	BLACK SATIN LEASE	SEC24, 26S, 27E OF KERN COUNTY		ENF
KERN COUNTY	877329		SECT 18, TWNSHP 26S, RNG 21E 50 MI SE OF BAKERSFIELD		ERNS
KERN COUNTY	87710		SECT 21, TWNSHP 32S, RNGE 23E/3 MI. NW OF TAFT, CA		ERNS

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KERN COUNTY	91218645		SECTION 26, TWSHIP 20 SO, RANGE 21 E		ERNS
KERN COUNTY	878332		SECTION 18, TWNSHIP 26S,RANGE 21E		ERNS
KERN COUNTY	8853475		SECTION 9 TWN 32 SOUTH RANGE 23E, MT DIABLO BASE MERIDIAN		ERNS
KERN COUNTY	8856616		SECTION 22, TWNSHP 30 SOUTH, RANGE 24 EAST CLOSEST TOWN IS T		ERNS
KERN COUNTY	8857670		SECTION 8;TOWNSHIP 32 SOUTH;RANGE 23 EAST; BY WELL 43		ERNS
KERN COUNTY	S112265109	ROUND MTN, CALDWELL LEASE OIL SPILL	SECTION 7, T28S, R29E, MDB&M		ENF
KERN COUNTY	90465138		SECTION 27, TOWNSHIP 28, RANGE 21		ERNS
KERN COUNTY	S106391652		SECTION 29, TOWNSHIP 30S, RANGE 24E WELL 88-29S, NAVEL PETRO		CHMIRS
KERN COUNTY	2010930772		SECTION 31, TOWNSHIP 29 SOUTH, RANGE 22 EAST		ERNS
KERN COUNTY	90150290		SECTION 27, TOWNSHIP 28, RANGE 21 KERN RIDGE OIL LEASE		ERNS
KERN COUNTY	90151732		SECURITY LEASE WELL #26 NORTH HALF OF SECTION 16, TWN 27S, R		ERNS
KERN COUNTY	S105635718		SECURITY LEASE S 15 T 31S R 22E		CHMIRS
KERN COUNTY	2010942484		SEE LAT AND LONG		ERNS
KERN COUNTY	2010942721		SEE LAT/LONG		ERNS
KERN COUNTY	2008912043		SEE TOWNSHIP & RANGE		ERNS
KERN COUNTY	2010962727		SEE LEGAL DESCRIPTION		ERNS
KERN COUNTY	2012010322		SEE LAT AND LONG		ERNS
KERN COUNTY	2009912043		SEE TOWNSHIP & RANGE		ERNS
KERN COUNTY	2011993293		SEE BELOW		ERNS
KERN COUNTY	S105634596		SENATOR LEASE AT AWT #14 S-31 R-28 T-28		CHMIRS
KERN COUNTY	S105636973		SENATOR 71, BAKERSIELD-KERN RIVER FIELD		CHMIRS
KERN COUNTY	M300006075	SHELL OIL PRODUCTS US	SHELL BAKERSFIELD REFINERY		US MINES
KERN COUNTY	S107540666		SHERWOOD AVE, 1/2 MI E OF WALLACE		CDL
KERN COUNTY	2005621862		WEST SIDE OF KERN COUNTY		ERNS
KERN COUNTY	S107539581		NORTH SIDE HART RD,1/2 MI W OF KITE R		CDL
KERN COUNTY	S105630633		126 S. SNYDER AVE TEHUCHAPI		CHMIRS
KERN COUNTY	S105631954		900 FT SOUTH OF 166, 1/4 MILE HEN FRONT		CHMIRS
KERN COUNTY	S105639241		.2 SOUTH OF S11 T 31S R 22E		CHMIRS
KERN COUNTY	S107526566		1 MI SOUTH OF HWY 58 ON WHEATPATCH		CDL
KERN COUNTY	S105630151		1 MI SOUTH OF MC KITTRICK		CHMIRS
KERN COUNTY	S106389105		423R STEVEN TANK SETTING SEC 23R T 30S RG 23E NEAR TUPMAN		CHMIRS
KERN COUNTY	S105630809		3- 8R STEVENS, SEC 8R T 30 S R 23 E		CHMIRS
KERN COUNTY	S105636534		STN 222 S 22G T 31S R 22E		CHMIRS
KERN COUNTY	90189436		SUDAN WELL #41 / S26 T31S R22E		ERNS
KERN COUNTY	S105640096		SUPRISE LEASE. S32-T32S-R23E		CHMIRS
KERN COUNTY	90151688		250 FT SW OF LOCKWOOD WATER PLANT 3 MILES NW OF TAFT, CA		ERNS
KERN COUNTY	S105631579		S-2, T-11N, R-24N		CHMIRS
KERN COUNTY	S105636933		S-34 T-12N R-24W HILLSIDE LEASE		CHMIRS
KERN COUNTY	S105629421		S-34 T-12N R24W 5 MILES SOUTH OF TAFT		CHMIRS
KERN COUNTY	S105632033		S35, T-12N, R-24W 2 MILES NORTH OF MARACODA		CHMIRS
KERN COUNTY	S105631117		S-18, T-26S, R-21 E		CHMIRS
KERN COUNTY	S105632103		S-32 T-27S R-27E MIDWAY PERIMER		CHMIRS
KERN COUNTY	S105630500		S-9 T-27S R-28E		CHMIRS
KERN COUNTY	S105632046		S-33 T-28 R-28 WELL #163		CHMIRS

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City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	S106389215		S-31, T-28, R-28, KERN RIVER OIL FIELD WELL #8 LEASE NAME :		CHMIRS
KERN COUNTY	S105631360		S-28, T-28S R-2/E BELL RIDGE FIELD		CHMIRS
KERN COUNTY	S106389263		S-3 T-29 R-28 CHEVRON USA KERN RIVER LEASE, BAKERSFIELD		CHMIRS
KERN COUNTY	S105630365		S-1/A T-3/S R-24E		CHMIRS
KERN COUNTY	S105637031		S-30 T-30S R-24E 5 MILES TUPMAN		CHMIRS
KERN COUNTY	S105630943		S-19 T-30S R-22E MCKITTRICK		CHMIRS
KERN COUNTY	S105637634		S-31 T-30S R-25E NEAR TUPMAN		CHMIRS
KERN COUNTY	S105636514		S-28 T-30S R-23E TUPMAN		CHMIRS
KERN COUNTY	S105630366		S-36S T-30S R-23E		CHMIRS
KERN COUNTY	S105630530		S-6 T-30S R-22E		CHMIRS
KERN COUNTY	S105629424		S-6 T-30S R-22E MC KITTRICK		CHMIRS
KERN COUNTY	S105637030		S-36 T-30S R-24E		CHMIRS
KERN COUNTY	S105633329		S-19 T-30S R- 22E NEAR MC CKITTRICK		CHMIRS
KERN COUNTY	S105632003		S-6, T-30S, R-22E NEAR MCKITTRICK		CHMIRS
KERN COUNTY	S105630942		S-26 T-31 R-22E ARCO NO CAL LEASE		CHMIRS
KERN COUNTY	S105637029		S-6 T-31S R-24E		CHMIRS
KERN COUNTY	S105636946		S-26 T-31S R-22E N/W OF TAFT		CHMIRS
KERN COUNTY	S105635563		S-32 T-31S R-24E TANK BATTERY BUENA VISTA HILLS		CHMIRS
KERN COUNTY	S105634865		S-21 T-31S R-22E GORE C LEASE		CHMIRS
KERN COUNTY	S106389021		S-27G, T-31S, R-22E MIDWAY 9WR SET FIELD OF MOCAL RD		CHMIRS
KERN COUNTY	S105633311		S-22 T-32S R-22E WEST OF TAFT		CHMIRS
KERN COUNTY	91237095		S7 T11N R20E		ERNS
KERN COUNTY	91466395		S1 T11N R24W		ERNS
KERN COUNTY	91236882		S18 T26S R21E 4 MI NW OF LOST HILLS		ERNS
KERN COUNTY	91234772		S13 T26S R20E 8 MI NW OF LOST HILLS		ERNS
KERN COUNTY	91205074		S5, T27, R28E, GRIFFITH LEASE		ERNS
KERN COUNTY	91216946		S35 T27E R20E	-	ERNS
KERN COUNTY	90178761		S22 T27S R28E KERNRIDEGE LEASE		ERNS
KERN COUNTY	91210305		S21 T27S R28E/SOUTH UNION TANK FARM		ERNS
KERN COUNTY	90178908		S26 T27S R20E 30 MILES SOUTH OF TAFT		ERNS
KERN COUNTY	91220151		S18 T27S R28E / WELL 6		ERNS
KERN COUNTY	91210183		S23 T28 R28 CENTRAL POINT TANK FARM		ERNS
KERN COUNTY	90167584		S35, T28, R21E/KERNRIDGE LEASE		ERNS
KERN COUNTY	90186414		S29 T28S R21E NORTH BELLRIDGE		ERNS
KERN COUNTY	90189491		S33 T28S R21E HOTS 129 KERNRIDGE		ERNS
KERN COUNTY	91220128		S33 T28S R28E		ERNS
KERN COUNTY	90188845		S21 T28S R25E		ERNS
KERN COUNTY	91220122		S33 T28S R21E		ERNS
KERN COUNTY	91210325		S29 T28S R21E		ERNS
KERN COUNTY	91205677		S12 T28S R21E		ERNS
KERN COUNTY	91226713		S20 T28S R29E WELL "B" NE OF BAKERSFIELD		ERNS
KERN COUNTY	91210087		S33 T28S R21E		ERNS
KERN COUNTY	91230949		S19 T28S R21E		ERNS
KERN COUNTY	91466674		S28 T28S R21E		ERNS
KERN COUNTY	91230918		S28 T28S R21E 12 MI N OF MCKITTRICK		ERNS
KERN COUNTY	90189387		S34 T28S R21E KERNRIDGE		ERNS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	91237094		S19 T28S R21E #AWT 302		ERNS
KERN COUNTY	91234642		S19 T28S R21E 10 MI SW OF LOST HILLS		ERNS
KERN COUNTY	91218797		S19 T28S R21		ERNS
KERN COUNTY	90189431		S14 T28S R28E		ERNS
KERN COUNTY	91200768		S19 T28S R21E NR SR33 & CONTRACTOR RD		ERNS
KERN COUNTY	91218723		S19 T28S R21E		ERNS
KERN COUNTY	91218796		S28 T28S R21E		ERNS
KERN COUNTY	91210275		S20 T28S R21E KERNRIDGE LEASE S BELL FLD		ERNS
KERN COUNTY	90171200		S18 T28S R21E/KERNRIDGE FIELD		ERNS
KERN COUNTY	90167513		S35, T28S, R21 / KERNRIDGE LEASE		ERNS
KERN COUNTY	91466572		S26 T29S R21E		ERNS
KERN COUNTY	91228833		S10 T29S T28E		ERNS
KERN COUNTY	91215320		S5 T29S R28E	-	ERNS
KERN COUNTY	91220218		S35W T29S R21E #4 GATE SETTING		ERNS
KERN COUNTY	91231468		S5 T29S R28E 2 MI E OF OILDALE		ERNS
KERN COUNTY	91231466		S9 T29S R28E WELL# T6 N OF BAKERSFIELD		ERNS
KERN COUNTY	91228930		S32 T29S R28E		ERNS
KERN COUNTY	91240327		S27 T29S R27E		ERNS
KERN COUNTY	91230816		S26S T29S R21E		ERNS
KERN COUNTY	S105630839		S9, T29S, R28E BED		CHMIRS
KERN COUNTY	S105632133		S34S T30S R24E NEAR TUPMAN		CHMIRS
KERN COUNTY	S105632191		R-22E T30S 8Z		CHMIRS
KERN COUNTY	91223763		S6 T30S R22E		ERNS
KERN COUNTY	91228969		S21S T30S R24E 200 FT W OF 3-21SVR TANK		ERNS
KERN COUNTY	91230733		S29S T30S R24E		ERNS
KERN COUNTY	S105630700		S34S, T30S, R24E WELL 71X34S		CHMIRS
KERN COUNTY	8873677		S-1Y, T30S, R21E, 4 MI.NW.OF MCKITTRICK		ERNS
KERN COUNTY	S106389000		S27 T31 R22 LEASE: 01938LA 5 MILES NORTH OF FELLOWS ALON MOC		CHMIRS
KERN COUNTY	90181588		S21 T31S R22E SHELL LEASE		ERNS
KERN COUNTY	91218724		S22 T31S R22E		ERNS
KERN COUNTY	S105630698		S9G T31S R24E NEAR TUPMAN		CHMIRS
KERN COUNTY	91215387		S-11 T31S R25E(SW 1/4 & NE 1/4 QUADRANT)		ERNS
KERN COUNTY	91230829		S14 T31S R22E 7 MI N OF TAFT OF SR 33		ERNS
KERN COUNTY	91210224		S2 T31S R22E/N MIDWAY SUNSET GP FARMS LS		ERNS
KERN COUNTY	91215319		S26C T31S R22E		ERNS
KERN COUNTY	91216935		S32 T31S R23E		ERNS
KERN COUNTY	S105630381		S16 T31S R22E FELLOWS		CHMIRS
KERN COUNTY	91466554		S26 T31S R22E		ERNS
KERN COUNTY	S105630699		S5G, T31S, R24E NEAR TUPMAN		CHMIRS
KERN COUNTY	91230895		S5 T32 R23 /34 MI SE OF FELLOWS		ERNS
KERN COUNTY	91237053		S35 T32N R21E		ERNS
KERN COUNTY	91237100		S17 T32S R54E		ERNS
KERN COUNTY	91210230		S22 T32S R23E		ERNS
KERN COUNTY	91220153		S8 T32S R23E		ERNS
KERN COUNTY	91236944		S35 T32S R23E KENDON LEASE/ SO OF TAFT		ERNS
KERN COUNTY	91220196		S9 T32S R23E		ERNS

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KERN COUNTY	91240484		S26 T32S R23E, NEAR TAFT		ERNS
KERN COUNTY	91230814		S30 T36S R21E		ERNS
KERN COUNTY	S105641394		TANK STG 3 S 25 T 39S R 23 E		CHMIRS
KERN COUNTY	S105634547		TAYLOR WELL # 812 S 30, T 3 N , R 23W		CHMIRS
KERN COUNTY	M300000931	LEHIGH CEMENT CO	TEHACHAPI PLANT		US MINES
KERN COUNTY	M300006769	LEHIGH SOUTHWEST CEMENT CO.	TEHACHAPI QUARRY & PLANT		US MINES
KERN COUNTY	S106389004		#198A TEST FACILITY S-20 T-28S R-21 NEAR MC KITTRICK ,SHELL		CHMIRS
KERN COUNTY	91220186		TEXACO KERN RIVER DEHYDRATION PLANT		ERNS
KERN COUNTY	8718400		IN THE DEN		ERNS
KERN COUNTY	S105641393		TRAP SETING 3 S 28 T 30S R 24E		CHMIRS
KERN COUNTY	8722146		TRUMAN FEE LEASE/OIL WELL/S26,T27S,R21E		ERNS
KERN COUNTY	90175878		1-5 TWISSELMAN RD EXIT S OF KINGS KERN		ERNS
KERN COUNTY	2002622449		UNINCORPORATED CO. AREA	0	ERNS
KERN COUNTY	S107540968		UNKOWN AT THIS TIME		CDL
KERN COUNTY	S107541011		VEH STOP: NB I-5 @ CALIF AQUEDUCT		CDL
KERN COUNTY	8720600		#5 W METLER/RT 160		ERNS
KERN COUNTY	8713240		W1/2,SW1/4/S5,T11N,R23W		ERNS
KERN COUNTY	90190707		101 WASH TANK AT D&E SANDS LEASE/		ERNS
KERN COUNTY	90186166		WATER PLANT #20, KERNRIDGE LEASE		ERNS
KERN COUNTY	90190708		WEIR RECYCLE PLANT/N. MIDWAY SUNSET		ERNS
KERN COUNTY	90190696		WEIR RECYCLE PLANT N MIDWAY SUNSET FIELD		ERNS
KERN COUNTY	91207541		WEIR LEASE		ERNS
KERN COUNTY	S105630536		WELL #22N LOCKWOOD LEASE		CHMIRS
KERN COUNTY	90150480		WELL 515D SEC 34 TWP 28 RNG 21		ERNS
KERN COUNTY	91466597		WELL 83 HR 29 SOUTH BELL RIDGE FIELD		ERNS
KERN COUNTY	90164768		WELL 37SN KERN RIDGE LEASE BELLRIDGE FIELD		ERNS
KERN COUNTY	91220219		WELL 27 I-33/S33 T28S R21E		ERNS
KERN COUNTY	91217679		WELL #75 LU-34 / S34 T28S R21E	-	ERNS
KERN COUNTY	91230328		WELL 27 DU KERN RIDGE FIELD		ERNS
KERN COUNTY	S105635704		WELL 327 - 30S S 30 T 30S R 24E		CHMIRS
KERN COUNTY	90183762		WELL 548L SOUTH BELRIDGE FIELD		ERNS
KERN COUNTY	90190787		WELL 26G-28 KERNRIDGE FIELD OFF HWY 33		ERNS
KERN COUNTY	90179298		WELL 88F-34 (KERNRIDGE LEASE)		ERNS
KERN COUNTY	90151924		WELL 841 SECTION 8, TOWNSHIP 32 SOUTH, RANGE 24 EAST 3 MILES		ERNS
KERN COUNTY	S105632317		WELL 376 -33S S 33 T 30S R 24E		CHMIRS
KERN COUNTY	S105632822		WELL 62-34R S 34 T 30S R 23E		CHMIRS
KERN COUNTY	91217742		WELL SITE #252 HILL LEASE/S19 T28S R21E		ERNS
KERN COUNTY	90159804		WELL #75 C N. BELLRIDGE FIELD		ERNS
KERN COUNTY	91236789		WELL 1610-S1Y/S1 T21E R30S	-	ERNS
KERN COUNTY	90465155		WELL #553N13/S13 T23S R12E/BELLRIGEFIELD		ERNS
KERN COUNTY	90150416		WELL 534C NORTH BELL RIDGE FIELD SEC 1 TOWN 27 RANGE 21E		ERNS
KERN COUNTY	90158799		WELL 23JR34 KERNRIDGE FIELD		ERNS
KERN COUNTY	90465945		WELL NUMBER 46 HR2 / S28 T28S R21E		ERNS
KERN COUNTY	91202415		WELL 513L-35N NORTHBELLRIDGE FIELD KERNRIDGE LEASE		ERNS
KERN COUNTY	S105631894		WELL #547C-34 T-28S R-21E		CHMIRS

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KERN COUNTY	S106389229		WELL 56 K S33 T28S R28E SOUH BELLRIDGE FLD 10 MILES NORTH OF		CHMIRS
KERN COUNTY	91466398		WELL NO.68C SECTION 12 / S12 T28S R21E		ERNS
KERN COUNTY	91204808		WELL NO.68C SECTION 12		ERNS
KERN COUNTY	90158302		WELL 543A KERN RIDGE LEASE BELLRIDGE FIELD		ERNS
KERN COUNTY	90150433		WELL 68S SEC 18 SOUTH BELL RIDGE FIELD TOWN 28S RANGE 21E		ERNS
KERN COUNTY	90185810		WELL CAMFIELD #115 S29 T28S R28E		ERNS
KERN COUNTY	91224351		WELL #512L-35 KERN RIDGE LEASE		ERNS
KERN COUNTY	S105634066		WELL ACME 13 S 29 R 28S R 28E		CHMIRS
KERN COUNTY	91215061		WELL NO 543G-35		ERNS
KERN COUNTY	90181497		WELL 26HR S20S T28S R21E		ERNS
KERN COUNTY	91217678		WELL #75-IR-34 / S34 T28S R21E		ERNS
KERN COUNTY	91217681		WELL 8-S NATIONAL LEASE/S3S T32S R23E		ERNS
KERN COUNTY	91222061		WELL #174L-34 KERNRIDGE, BELLRIDGE LEASE		ERNS
KERN COUNTY	8712261		WELL #28@COALINGA/MONTEREY LEASE		ERNS
KERN COUNTY	S105633241		WELL SEANATOR # 88 S-31 T-28 R-28		CHMIRS
KERN COUNTY	S105634868		WELL SJ 813 KERN RIVER FIELD S 5 T 29 R 2 8		CHMIRS
KERN COUNTY	S105636548		WELL 2-9 S 18 T 26S R 21E		CHMIRS
KERN COUNTY	90186202		WELL 146G KERNRDIGE FIELD S28 T28S R21E		ERNS
KERN COUNTY	90180842		WELL 39G 32 S33 T28 R21		ERNS
KERN COUNTY	91209967		WELL 58CR BELLRIDGE FIELD/S18 T27S R20E		ERNS
KERN COUNTY	2003645275		WELL # 8705-26F		ERNS
KERN COUNTY	90186167		WELL 38W-33, KERNRIDGE LEASE		ERNS
KERN COUNTY	S106389224		WELL # PRESSMARK 599 S9 T29 R 28 5 MILES NORTH EAST OF BAKER		CHMIRS
KERN COUNTY	S105636414		WELL GLOBE 60 S 30 T 28 R 28		CHMIRS
KERN COUNTY	S105632819		WELL 1AH-1G S 1 T 31S R 24E		CHMIRS
KERN COUNTY	91214959		WELL 83 HR 29 SOUTH BELL RIDGE FIELD		ERNS
KERN COUNTY	91224405		WELL #76L-28 KERN RIDGE / T28S R21E		ERNS
KERN COUNTY	91207062		WELL NO.11 L KERN RIDGE LEASE ELRIDGE FIELD		ERNS
KERN COUNTY	91215413		NR WELL #6-3, MIDWAY SUNSET FIELD		ERNS
KERN COUNTY	90183478		WELL 5111G SOUTH BELLRIDGE FIELD		ERNS
KERN COUNTY	90179300		WELL #574G 33 KERNRIDGE FIELD		ERNS
KERN COUNTY	90186612		WELL NO. 576 C CLOSE HWY 33. 1 MILE WEST		ERNS
KERN COUNTY	90150417		WELL 553L SOUTH BELL RIDGE FIELD SEC 29 TOWN 28S RANGE 21E		ERNS
KERN COUNTY	S106389237		WELL SENATOR #44 S-31 T-28 R-28 5 MI NORTH OF BAKERSFIELD		CHMIRS
KERN COUNTY	S105641392		WELL 337 S 35 T 30 R 23E		CHMIRS
KERN COUNTY	S105632820		WELL 67-4G S 4 T 31S R 24E		CHMIRS
KERN COUNTY	90182519		WELL NUMBER 46 HR2		ERNS
KERN COUNTY	91466602		WELL NO 543G-35 / S35 T27E R20E		ERNS
KERN COUNTY	90150939		WELL #73CR SECTION 29 SOUTH BELL RIDGE LEASE		ERNS
KERN COUNTY	2007303741		WELL NUMBER CALDWELL		ERNS
KERN COUNTY	90168613		WELL #31 S-34 T-28S R-21E KERNRIDGE 73		ERNS
KERN COUNTY	90150434		WELL 51R SEC 13 SOUTH BELL RIDGE FIELD TOWN 28S RANGE 21E		ERNS
KERN COUNTY	90150488		WELL 553D SEC 29 SOUTH BELL RIDGE FIELD		ERNS
KERN COUNTY	S105636968		32FEE WELL# 111B T-27S R-21E NEAR LOST HILLS		CHMIRS

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KERN COUNTY	2006785286		ON WESTBOUND 58		ERNS
KERN COUNTY	2000515968		19600 WESTSIDE HWY	0	ERNS
KERN COUNTY	M300003083	VULCAN MATERIALS CO.	WHEELER RIDGE (#043)		US MINES
KERN COUNTY	91231794		WIER LEASE MIDWAY SUNSET FIELD		ERNS
KERN COUNTY	91230717		WIER P/L YARD, WIER LEASE S22 T31S R22E		ERNS
KERN COUNTY	S105633087		YOWLUMNE LEASE S 43 T 11N R 22 W		CHMIRS
KERN COUNTY	94415683		YOWLUMNE LEASE; S43, T11N, R22W		ERNS
LABEC	91466337		5.5 MILES EAST OF I-5 OFF HWY 138	93243	ERNS
LAMONT	S112907449	R & R RESOURCES LLC	CORNER OF EDISON & DIGIGIORO	93307	HAZNET
LAMONT	S112866528	P G & E	1/2 MI E FAIRFAX/1/2 MI N BUENA VISTA RD	93203	HAZNET
LAMONT	S112866868	P G & E CO	1/2 MILE S OF HERMOSA RD &	93307	HAZNET
LEBEC	93305452		HWY 138 5 MILES EAST OF I-5 INTERSECTION	93243	ERNS
LEBEC	S112859487	LAFARGE CORPORATION	HWY 138 5 MI E OF I 5 NORTH EN	93243	HAZNET
LEBEC	S112875670	LAFARGE	HWY 138 5 MI E OF I 5 NORTH EN	93243	HAZNET
LEBEC	S113016167	NATIONAL CEMENT CO	HWY 138 5 MI E OF I 5 NORTH EN	93243	HAZNET
LEBEC	S112953136	NUMARK	32829 INTERSTATE 5	93243	HAZNET
LEBEC	S113170440	LAFARGE CORPORATION	HWY 5 AND HWY 138 5 MILES E OF MAINTENAN	93243	HAZNET
LEBEC	S113089850	TEJON PUMP STATION	4237 DIGIER ROAD	93243	HAZNET
LEBEC	S112888210	PG&E	FORT TEJON/LEBEC RD	93243	HAZNET
LEBEC	S113163044	FORT TEJON GARAGE	4115 FORT TEJON RD	93243	HAZNET
LEBEC	92274873		FOUND AT 1-5, NOW AT MAINTENANCE YARD EAST SIDE OF I-5, 35 M	93243	ERNS
LEBEC	S113093428	FLYING J TRAVEL PLAZA	42810 FRASIER MOUNTAIN PARK	93243	HAZNET
LEBEC	S112929255	GREEN ENTERPRISES	38918 1/2 FRAZER MOUNTAIN PARK RD	93243	HAZNET
LEBEC	S113062639	GORMAN GARAGE	201 FRAZIER MOUNTAIN RD	93243	HAZNET
LEBEC	S113014358	1X SERVICE STATION THE	201 FRAZIER MTN ROAD	93243	HAZNET
LEBEC	S113457583	EDWARD J SHACK LOCK	42810 FRAZIER MOUNTAIN RD	93243	HAZNET
LEBEC	S113098620	ARB INC	42810 FRAZIER MOUNTAIN RD	93243	HAZNET
LEBEC	91216931		FRAZIER PARK REST AREA	93243	ERNS
LEBEC	S112875644	RAY FILOTEO	349 FRAZZER MT PARK RD	93243	HAZNET
LEBEC	S113804214	PACIFIC BELL TELEPHONE CO DBA AT&T CALIF	36055 GOLDEN STREET HIGHWAY	93243	HAZNET
LEBEC	S113017268	CALTRANS DISTRICT 7/LEBEC MS.	36282 GOLDEN STATE HWY	93243	HAZNET
LEBEC	1005904504	SHELL SERVICE STATION	9069 GRAPEVINE RD		RCRA-SQG, FINDS, SWEEPS UST, HAZNET, EMI
LEBEC	93309317		SB I-5 AT LEBEC BRAKE CHECK	93243	ERNS
LEBEC	S112859145	LEBEC MAIN POST OFFICE	LEBEC ROAD	93243	HAZNET
LEBEC	93302331		LEBEC	93243	ERNS
LEBEC	S113019844	KERN COUNTY WASTE MANAGEMENT DEPARTMEN	LEBEC TRANSFER STATION	93243	HAZNET
LEBEC	S113179382	MOBIL OIL CORP LEBEC STATION	LEBEC RD I-5 & O'NEIL CANYON	93243	HAZNET
LEBEC	S113804203	EXXONMOBIL PIPELINE COMPANY	LEBEC RD I-5 & O'NEIL CANYON	93243	HAZNET
LEBEC	S113180215	SYSTECH ENVIRONMENTAL CORP	5 MI NO OF HWY 138	93243	HAZNET, HWP
LEBEC (NR)	90167203		EAST OF I5 NORTH OF LEBEC	93243	ERNS
LOS ANGELES	S112885196	SOUTHERN CAL EDISON	GORMAN POST RD 1 MILE SOUTH OF GORMAN	93243	HAZNET
METTLER	S112840106	DEPARTMENT OF WATER RESOURCES	A D EDMONSTRON PUMPING PLANT	93313	HAZNET
METTLER	S112905577	PG&E	1/2 MI E OF EDISON RD-1/2 MI	93203	HAZNET
METTLER	S112958742	PACIFIC GAS & ELECTRIC-SUBSTATION SAN BERNARD	GPS: N35 5 38 W118 52 42	93307	HAZNET

City	EDR ID	Site Name	Site Address	Zip	Database(s)
METTLER	S112871853	PACIFIC GAS & ELECTRIC/WHEELER RIDGE SUB	2.5 S INTERSECTION FRONTAGE RD& DAVID RD	93307	HAZNET
METTLER	S113803158	WHEELER RIDGE-MARICOPA WATER STORAGE DIS	12109 MARICOPA HWY	93307	HAZNET
METTLER	S112887345	PACIFIC GAS AND ELECTRIC	.5M S VALPRADO RD & .5M E SHALLOCK AVE	93313	HAZNET
METTLER	S112894932	DEPT. OF WATER RESOURCES	4201 SABODAN ST.	93313	HAZNET
METTLER	S112840107	DEPARTMENT OF WATER RESOURCES	SAN JOAQUIN CENTER	93313	HAZNET
METTLER	S112863377	R. DALTON RICHARDSON	5512 VALPREDO RD	93307	HAZNET
ROSAMOND	S113003004	NORTHROP GRUMMAN CORP	W 170 ST W ROSAMOND BLVD	93560	HAZNET
ROSAMOND	S113162127	HENKELS & MCCOY INC	3064 75TH ST W	93560	HAZNET
ROSAMOND	91201954		BRIDGES & SONS TRUCKING	93560	ERNS
ROSAMOND	S112898206	FRANK PANENELL	2715 CENTER ROSAMOND	93560	HAZNET
ROSAMOND	S113179858	PACIFIC BELL TELEPHONE CO DBA AT&T CALIF	W/S GLENDOWER RD	93560	HAZNET
ROSAMOND	S112915063	KERN COUNTY GENERAL SERVICES	1/2 MILE WEST OF HWY 14 ON AVE A	93560	HAZNET
ROSAMOND	S113110236	SAVE U AUTO PARTS	2960 ROSEMONT BLVD	93560	HAZNET
SANTA MARGARITA	S112885845	FAA	10500 BLACK MT RD	93243	HAZNET
SHAFTER	S112866527	PG&E	INTERSECTION OF ZERKER & LERDO	93307	HAZNET
TEHACHAPI	95080175		SR58 (W/B)		HMIRS
TEHACHAPI	S114726114	CCI MAIN BASE LANDFILL	24900 HWY 202		RGA LF
TEHACHAPI	S114726115	CCI MAIN LANDFILL	24900 HWY 202		RGA LF
TEHACHAPI	S114589914	CALIFORNIA CORRECTIONAL INST.	24900 HIGHWAY 202		RGA LUST
TEHACHAPI	S114589916	CALIFORNIA CORRECTIONAL INST.	HIGHWAY 202, PO BOX 1031		RGA LUST
TEHACHAPI	S114589912	CALIFORNIA CORRECTIONAL INST.	HWY 202, PO BOX 1031		RGA LUST
TEHACHAPI	S114589911	CALIFORNIA CORRECTIONAL INST.	HIGHWAY 202, PO BOX 1031		RGA LUST
TEHACHAPI	S109044077		MP 351 ON MOJAVE SUBDIVISION		CHMIRS
TEHACHAPI	S110422846		MM 354, MOJAVE SUBDIVION		CHMIRS
TEHACHAPI	S107449853		355.1		CHMIRS
TEHACHAPI	S105644859		MP 359.3		CHMIRS
TEHACHAPI	2002597733		MP 360.5	0	ERNS
TEHACHAPI	S113998691		MP 363 OF THE MOJAVE SUB		CHMIRS
TEHACHAPI	S112829828		HWY 58 X HEART FLAT		CHMIRS
TEHACHAPI	S111753362		WB 58 JUST EAST OF CACHE CREEK		CHMIRS
TEHACHAPI	S106396772		HWY 58 AT TEHACHAPI		CHMIRS
TEHACHAPI	S105675474		EB 58 AT KEENE ONRAMP.		CHMIRS
TEHACHAPI	S109044574		HIGHWAY 58 AT TEHACHAPI SUMMIT		CHMIRS
TEHACHAPI	S105631649		E/B 58 JUST WEST OF BROOME OVERCROSSING		CHMIRS
TEHACHAPI	S106397164		WB 58 2 MILES WEST OF SR 202		CHMIRS
TEHACHAPI	S106393719		WB 58, BETWEEN POST MILE 91.5 AND 91.7, CLOSEST CROSS STREET		CHMIRS
TEHACHAPI	96493249		SR 58, JUST WEST OF SAND CANYON ROAD		ERNS
TEHACHAPI	S110421282		BEAR VALLEY & CUMBERLAND		CHMIRS
TEHACHAPI	S110421352		BETWEEN MP 352 AND MP 353.		CHMIRS
TEHACHAPI	S105884594		WEST BOUND SR 58, WEST OF SR 202		CHMIRS
TEHACHAPI	S107451652		EAST BOUND SR 58 AT MILL ST		CHMIRS
TEHACHAPI	S105668085		WEST BOUND 58 AT BROOME RD.		CHMIRS
TEHACHAPI	S109042427		EAST BOUND 58 BROOM OFF RAMP		CHMIRS
TEHACHAPI	1004439468	OAK HILL GARDEN SCHOOL OF TEHACHAPI	P.O. BOX 1066		FINDS
TEHACHAPI	1015940889	CALIFORNIA CORRECTIONAL INST	PO BOX 1031		FINDS
TEHACHAPI	S114589917	CALIFORNIA CORRECTIONAL INST.	PO BOX 1031, END OF HWY 202		RGA LUST

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TEHACHAPI	1008039577	A.F.P. MUTUAL WATER COMPANY	P.O. BOX 1384		FINDS
TEHACHAPI	1008102042	WEST TEHACHAPI MUTUAL	P.O. BOX 414		FINDS
TEHACHAPI	S109048171		BROOM ROAD JUST NORTH OF HIGHWAY 58		CHMIRS
TEHACHAPI	S105644618		CABLE SIDING NEAR TEHACHAPI SOUTH OF MARCEL		CHMIRS
TEHACHAPI	S114733361	TEHACHAPI WOMEN'S PRISON BURN DUMP	CALIFORNIA CORRECTIONAL INTITUTION - TEH		RGA LF
TEHACHAPI	S114733359	TEHACHAPI WOMEN'S PRISON BURN DUMP	CALIFORNIA CORRECTIONAL INTITUTION - TEH		RGA LF
TEHACHAPI	S114726118	CCI WASTEWATER TREATMENT PLANT LANDFILL	CALIFORNIA CORRECTIONAL INSTITUTION - TE		RGA LF
TEHACHAPI	S114726116	CCI MAIN LANDFILL	CALIFORNIA CORRECTIONAL INSTITUTION - TE		RGA LF
TEHACHAPI	1010023062	CORAM ENERGY LLC	CAMERON WILLOW SPRINGS ROAD		FINDS
TEHACHAPI	1012221799	CORAM ENERGY LLC	CAMERON/TEHACHAPI WILLOWSPRING		FINDS
TEHACHAPI	S112135913	TEHACHAPI #2 BD	CURRY & J STREET		SWF/LF
TEHACHAPI	S114733352	TEHACHAPI #2 BD	CURRY & J STREET		RGA LF
TEHACHAPI	S110982535		NORTH DAVIS STREET AND EAST I STREET, MP 360.5 IN THE MOJAVE		CHMIRS
TEHACHAPI	S108403199		DENNISON RD AT RAILROAD MARKER 361.4 OF MOJAVE SUBDIVISION		CHMIRS
TEHACHAPI	S114733357	TEHACHAPI SANITARY LANDFILL	7.5 MI E TEHACHAPI ON HWY 58		RGA LF
TEHACHAPI	S105641588		EASTBOUND HWY 58, 1 1/4 MILES FROM TEHACHAPI		CHMIRS
TEHACHAPI	S112826650		EASTBOUND 58 JUST WEST OF SR 202.		CHMIRS
TEHACHAPI	S105637065		END OF HIWAY ST. ROUT 202		CHMIRS
TEHACHAPI	S111756911		600' FEET NORTH OF HIGHLINE ROAD AND ADALANTE TRAIL		CHMIRS
TEHACHAPI	1016217099	TEHACHAPI CITY OF	100 GREEN STREET		FINDS
TEHACHAPI	S106840577	TEHACHAPI-CUMMINGS WTR DST P-2	30999 HORSE THIEF DR		EMI
TEHACHAPI	S105654734		EB HWY 58 AT MONOLITH		CHMIRS
TEHACHAPI	S114589915	CALIFORNIA CORRECTIONAL INST.	? HWY 202, PO BOX 1031		RGA LUST
TEHACHAPI	1016265860	PACIFIC BELL	5MI E/O HWY 99, NR COTTONWOOD		FINDS
TEHACHAPI	S112826773		INTERSECTION OF HICKORY AND CHERRY LANE		CHMIRS
TEHACHAPI	S114733347	TEHACHAPI #1 BD	INTERSECTION OF DENNISON & CHEYENNE		RGA LF
TEHACHAPI	S114733348	TEHACHAPI #1 BD	INTERSECTION OF N DENNISON & TOWERLINE		RGA LF
TEHACHAPI	S106397543		1300 JAMESON RD		CHMIRS
TEHACHAPI	1008206260	SPECIAL OZONE STUDY - TEHACHAPI CA - (WEST OF CABLE TV ANTEN	JAMESON ROAD, TEHACHAPI (W OF ANTENNAS)		FINDS
TEHACHAPI	S109047879		JUST NORTH OF TEHACHAPI AT THE NORTHERN EDGE.		CHMIRS
TEHACHAPI	S113472106		LOVE'S TRUCK STOP: 2000 EAST TEHACHAPI BLVD		CHMIRS
TEHACHAPI	S114725142	BEAR VALLEY CSD TRANSFER STATION	28999 LOWER VALLEY ROAD		RGA LF
TEHACHAPI	S114725141	BEAR VALLEY COMMUNITY SERVICE DIST TS	28999 LOWER VALLEY ROAD AT CUMBERLAND RD		RGA LF
TEHACHAPI	S114725140	BEAR VALLEY COMMUNITY SERVICE DIST TS	28999 LOWER ROAD		RGA LF
TEHACHAPI	S106400275		MILE POST 361 ON MOJAVE MO SUBDIVISION		CHMIRS
TEHACHAPI	S105883608		MILE POST 360.5, MOHAVE SUBDIVISION		CHMIRS
TEHACHAPI	S105669816		MILE 360.5 SUB DIVISION MOJAVE		CHMIRS
TEHACHAPI	2013043173		MILEPOST: 358.5		ERNS
TEHACHAPI	2004745709		7 MILES NW OF TEHACHAPI		ERNS
TEHACHAPI	S108406384		MPM 365.2 TEHACHAPI BLVD AND SAND CANYON RD		CHMIRS
TEHACHAPI	S110978912		MPM 358		CHMIRS
TEHACHAPI	S107452741		MPM 351.5 MOJAVE SUB DIV /// 7 MILES NORTHWEST OF TEHACHAPI		CHMIRS
TEHACHAPI	S109042720		MPM 353.75 MOJAVE SUB DIV		CHMIRS

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TEHACHAPI	S109042723		MPM353.7 MOJAVE SUB DIV		CHMIRS
TEHACHAPI	1014680077	TEHACHAPI-CUMMINGS WTR DST P-3	NW-SW SECT 34/T12N/R17W		FINDS
TEHACHAPI	S107539608		OAK CREEK ROAD, 5.2 MI FROM TEHACHAPI		CDL
TEHACHAPI	1010019575	A B ENERGY	OAK CREEK RD		FINDS
TEHACHAPI	1010019140	CTV POWER PURCHASE CONTRACT TRUST	OAKCREEK RD.		FINDS
TEHACHAPI	S111756409		WEST OF 25151 DEERTRAIL DRIVE (IN THE BEAR VALLEY COMMUNITY)		CHMIRS
TEHACHAPI	1014674263	TEHACHAPI-CUMMINGS WATER DIST	WEST OF TEJON RANCH ROAD		FINDS
TEHACHAPI	S114730179	MA'A PUTTS ILLEGAL DISPOSAL SITE (2136)	OFF SAND CANYON ROAD W. ON RABITISHA AVE		RGA LF
TEHACHAPI	1006834182	WEST TEHACHAPI BURN DUMP	T32S R33E, SECTION 17		FINDS
TEHACHAPI	S114734283	WEST TEHACHAPI BURN DUMP	T32S R33E, SECTION 17		RGA LF
TEHACHAPI	S114733351	TEHACHAPI #2 BD	115 SOUTH ROBINSON		RGA LF
TEHACHAPI	1006824655	TEHACHAPI-CUMMINGS WTR DST P-2	SE-NE SECT 33/T12N/R17W		FINDS
TEHACHAPI	1016265864	PACIFIC BELL	SNOW CAT		FINDS
TEHACHAPI	S110424664		WB SR58 AT MM 87.9		CHMIRS
TEHACHAPI	S114601974	CIRCLE K STORE #00010	302 G ST E		RGA LUST
TEHACHAPI	S114579461	B & B LIQUORS	220 G ST W		RGA LUST
TEHACHAPI	S105665761		STALLION SPRINGS AREA - TANFORAN ST.		CHMIRS
TEHACHAPI	S114733360	TEHACHAPI WOMEN'S PRISON BURN DUMP	24900 STATE ROUTE 202		RGA LF
TEHACHAPI	S114726117	CCI WASTEWATER TREATMENT PLANT LANDFILL	24900 STATE ROUTE 202		RGA LF
TEHACHAPI	S110982614		STEUBER ROAD AND EAST TEHACHAPI BLVD, MP 362.5 OF MOJAVE SUB		CHMIRS
TEHACHAPI	S114734249	WEST COAST OIL FILTER RECYCLING	4800 STINE ROAD		RGA LF
TEHACHAPI	S114578909	AUTO DEALERSHIP	200 TEHACHAPI BLVD		RGA LUST
TEHACHAPI	S106396723		TEHACHAPI WILLOW SPRINGS		CHMIRS
TEHACHAPI	S114733356	TEHACHAPI SANITARY LANDFILL	12001 TEHACHAPI BLVD.		RGA LF
TEHACHAPI	2012034311		2000 EAST TEHACHAPI BLVD		ERNS
TEHACHAPI	1014868704	LOVES TRAVEL STOPS NO 392	2000 E TEHACHAPI BLVD		FINDS
TEHACHAPI	S114590931	CALTRANS TEHACHAPI GARAGE	320 TEHACHAPI BLVD W		RGA LUST
TEHACHAPI	1007467071	FLOWIND CORPORATION	TEHACHAPI MOUNTAINS		FINDS
TEHACHAPI	S114566172	4 SEASON DAIRY DRIVE-IN	128 TEHACHAPI BLVD E		RGA LUST
TEHACHAPI	S113998652		2000 EAST TEHACHAPI BLVD		CHMIRS
TEHACHAPI	S114643500	LEHIGH SW CEMENT COMPANY	13573 TEHACHAPI BLVD		RGA LUST
TEHACHAPI	S114608911	D.O.T. GARAGE (CALTRANS)	320 TEHACHAPI BLVD W		RGA LUST
TEHACHAPI	S114694080	SOUTHERN PACIFIC-TEHACHAPI	101 TEHACHAPI BLVD W		RGA LUST
TEHACHAPI	S114699142	TEHACHAPI SHELL	106 TEHACHAPI BLVD		RGA LUST
TEHACHAPI	S111756422		2000 E. TEHACHAPI BLVD		CHMIRS
TEHACHAPI	S109041902		TEHACHAPI WILLOW SPRINGS AND TEHACHAPI BLVD		CHMIRS
TEHACHAPI	S114690865	SID GARAGE	870 TEHACHAPI BLVD E		RGA LUST
TEHACHAPI	1016060994	TEHACHAPI- CUMMINGS WATER DIST	41985 TEJON RANCH RD		FINDS
TEHACHAPI	1014677421	MOUNTAIN VALLEY	UNKNOWN		FINDS
TEHACHAPI	1014674759	PSK RANCH	UNKNOWN		FINDS
TEHACHAPI	1011987235	TEHACHAPI MUNI	UNKNOWN		FINDS
TEHACHAPI	1008102015	95TH ST. W. MOBILE HOME PARK	VISTA DE ORO		FINDS
TEHACHAPI	S111753674		21640 WASTEWOOD BLVD		CHMIRS
TEHACHAPI	S109045705		WESTBOUND STATE ROUTE 58 BEFORE STEUBER ROAD		CHMIRS
TEHACHAPI	S114001378		WESTBOUND 58 AT SAND CANYON OFF RAMP		CHMIRS

Count: 856 records KERN COUNTY, CA - ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TEHACHAPI	99647924		WESTBOUND HWY 58		ERNS
TEHACHAPI	S110424729		WESTBOUND STATE ROUTE 58 AT MILE MARKER 89.5		CHMIRS
TEHACHAPI	S113472722		WHITFORD TEHACHAPI AT LAKE PINE		CHMIRS
UNINCORPORATED COUN	S108406297		MOUNT VERNON RD. EAST OF VINELAND RD, NEAR THE CITY OF LAMON	93307	CHMIRS
UNINCORPORATED COUN	S105885944		S29 T30S R26E	93307	CHMIRS
WHEELER RIDGE	S113090809	PETRO SHOPPING CENTERS LP	5821 DENNIS MC CARTHY DR	93203	HAZNET

Section 4

EPA Waste Code Addendum

SECTION 4 - EPA WASTE CODES

There are no epa codes to report for this search area.

Section 5

Databases Searched and Update Dates

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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2014
Next Scheduled EDR Contact: 07/21/2014
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2014
Next Scheduled EDR Contact: 07/21/2014
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2014
Next Scheduled EDR Contact: 07/21/2014
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: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 06/09/2014
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 06/09/2014
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: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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. 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). Transporters are individuals or entities that move hazardous waste from the generator offsite 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: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

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. 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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. 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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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. 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.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators

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. 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
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: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

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: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/14/2014
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: 12/31/2013
Date Data Arrived at EDR: 01/03/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 52

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/01/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

US 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.

Date of Government Version: 12/04/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 65

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/20/2014
Date Data Arrived at EDR: 03/20/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/20/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Semi-Annually

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
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

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: 11/20/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 95

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Varies

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: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2014
Next Scheduled EDR Contact: 07/14/2014
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/11/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Annually

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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
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
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: No Update Planned

US 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: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/05/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/28/2014
Next Scheduled EDR Contact: 07/07/2014
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: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
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: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
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
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement 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
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Annually

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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Quarterly

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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 04/28/2014
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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
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: 01/09/2014
Date Data Arrived at EDR: 01/10/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/09/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Quarterly

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).

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/14/2014
Next Scheduled EDR Contact: 06/23/2014
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: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Biennially

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013
Date Data Arrived at EDR: 07/08/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 151

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/11/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/15/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: No Update Planned

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

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: 03/12/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 05/19/2014
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: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 02/14/2014
Date Data Arrived at EDR: 02/18/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 28

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

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: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/17/2014
Date Data Arrived at EDR: 02/18/2014
Date Made Active in Reports: 03/27/2014
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/25/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/18/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Varies

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: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: No Update Planned

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).

Date of Government Version: 12/30/2013
Date Data Arrived at EDR: 12/31/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 42

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 04/01/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site 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 [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

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: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

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: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

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: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
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: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

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: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
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: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
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: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

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: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
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: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/19/2014
Next Scheduled EDR Contact: 06/30/2014
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: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
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: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
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: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2014
Next Scheduled EDR Contact: 06/30/2014
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: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
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: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
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: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

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: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
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: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
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: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
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: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
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: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
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: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

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: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/19/2014
Next Scheduled EDR Contact: 06/30/2014
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: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Annually

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: 01/17/2014
Date Data Arrived at EDR: 01/21/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

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 1990'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.

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: 10/14/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 34

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 04/07/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

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: 04/07/2014
Next Scheduled EDR Contact: 07/07/2014
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: 03/10/2014
Date Data Arrived at EDR: 03/11/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 30

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/11/2014
Next Scheduled EDR Contact: 06/23/2014
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: 03/12/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 05/19/2014
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.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/16/2013
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
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: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 19

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2013
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2014
Next Scheduled EDR Contact: 07/28/2014
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: 03/12/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 05/19/2014
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: 12/31/2012
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/26/2013
Number of Days to Update: 41

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2010
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 58

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/25/2014
Next Scheduled EDR Contact: 07/07/2014
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 identifes 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: 03/12/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 02/20/2014
Date Made Active in Reports: 03/27/2014
Number of Days to Update: 35

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Varies

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/15/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/21/2014
Date Data Arrived at EDR: 03/12/2014
Date Made Active in Reports: 04/14/2014
Number of Days to Update: 33

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2014
Next Scheduled EDR Contact: 06/30/2014
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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
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: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 02/21/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/13/2014
Date Data Arrived at EDR: 02/14/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 10
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/13/2014
Date Data Arrived at EDR: 02/14/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 10

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/29/2014
Date Data Arrived at EDR: 01/29/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 42

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 129

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR MGP: 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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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: 01/22/2014
Date Data Arrived at EDR: 01/23/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 19

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/22/2014
Date Data Arrived at EDR: 01/23/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 20

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 12/05/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/24/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 20

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 56

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 12/05/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 53

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

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

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/05/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/09/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 46

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/20/2014
Date Data Arrived at EDR: 02/21/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 27

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/04/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

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: 12/31/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/14/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/27/2014
Date Data Arrived at EDR: 01/28/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 14

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 21

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 33

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

LOS ANGELES COUNTY:

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: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/24/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/06/2013
Date Data Arrived at EDR: 01/28/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 48

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/02/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/20/2014
Date Data Arrived at EDR: 01/21/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 21

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2014
Next Scheduled EDR Contact: 08/04/2014
Data Release Frequency: Varies

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

Date of Government Version: 01/07/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/25/2014
Number of Days to Update: 28
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2014
Next Scheduled EDR Contact: 08/04/2014
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/10/2014
Date Data Arrived at EDR: 02/12/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 33
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
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: 02/25/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 04/14/2014
Number of Days to Update: 46
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013
Date Data Arrived at EDR: 07/18/2013
Date Made Active in Reports: 08/20/2013
Number of Days to Update: 33
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/14/2014
Next Scheduled EDR Contact: 07/28/2014
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 02/20/2014
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 01/03/2014
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 34
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/07/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/10/2014
Date Data Arrived at EDR: 03/11/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 30

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/04/2014
Date Made Active in Reports: 04/01/2014
Number of Days to Update: 28

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/09/2014
Date Data Arrived at EDR: 01/10/2014
Date Made Active in Reports: 02/14/2014
Number of Days to Update: 35

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/06/2014
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 27

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2014
Date Data Arrived at EDR: 02/12/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2014
Date Data Arrived at EDR: 02/13/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2014
Date Data Arrived at EDR: 02/12/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 34

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2014
Date Data Arrived at EDR: 03/11/2014
Date Made Active in Reports: 04/10/2014
Number of Days to Update: 30

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
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: 01/14/2014
Date Data Arrived at EDR: 01/15/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/02/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/14/2014
Date Data Arrived at EDR: 01/15/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 28
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/24/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 33
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 33
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

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: 11/26/2013
Date Data Arrived at EDR: 11/27/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 34
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/12/2014
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: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/10/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
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: 12/18/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 04/07/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/26/2014
Date Made Active in Reports: 03/26/2014
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SAN MATEO COUNTY:

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

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Annually

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

Date of Government Version: 12/12/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 03/04/2014
Date Data Arrived at EDR: 03/06/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Varies

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: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

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

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/07/2014
Date Data Arrived at EDR: 02/11/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 23

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/03/2013
Date Data Arrived at EDR: 12/04/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/02/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 40

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

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

Date of Government Version: 01/03/2014
Date Data Arrived at EDR: 01/03/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 39

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/31/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/10/2013
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 24

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/24/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/27/2014
Date Data Arrived at EDR: 01/28/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 48

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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.

Date of Government Version: 01/28/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 23

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
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: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/04/2014
Next Scheduled EDR Contact: 07/21/2014
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/17/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 10/02/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 28

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 03/21/2014
Next Scheduled EDR Contact: 05/12/2014
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: 11/26/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2013
Date Data Arrived at EDR: 12/24/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 15

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/11/2014
Date Data Arrived at EDR: 02/13/2014
Date Made Active in Reports: 03/17/2014
Number of Days to Update: 32

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/21/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2013
Date Data Arrived at EDR: 02/07/2014
Date Made Active in Reports: 03/31/2014
Number of Days to Update: 52

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 03/12/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
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.

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 2003 & 2011 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, 2005 and 2010 from the U.S. Fish and Wildlife Service.

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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EXHIBIT #5

CVRWQCB RECORDS REQUEST

Pacific Edge Engineering, Inc.

Facsimile Transmittal

To:	Records Review	**Fax:**	559-445-5910
Company:	CVRWQCB		
From:	Craig Stolz	**Date**:	10/2/13
Re:	File Review Request	**Pages:**	1
CC:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** X **Please Reply** ☐ **For Approval**

Records Review:

Pacific Edge Engineering requests a file review appointment, if files exist, for the following properties in Lebec, CA 92343:

1. Tejon Mobil – 9012 Grapevine Road east
2. Grapevine Texaco/Lebec Shell – 9069 Grapevine Rd West
3. Unocal #4734 – 9068 Grapevine Rd West
4. Tejon Mobil/Valero – 8968 Grapevine Rd
5. Chevron # 8616 – 8977 Grapevine Street
6. Union Oil #4734 – Highway 99 & Grapevine
7. ExxonMobil Pumping Station 99-GRV – 7815 Grapevine Rd
8. Grapevine Shell – 9067 Grapevine Rd East
9. Lebec Shell – 9058 Mountain Base Rd

The file review is associated with an environmental evaluation being performed in the area. Please call me at (949) 470-1937 regarding the availability of information and an appointment.

Thank you,

Craig Stolz

26431 Crown Valley PKWY., Suite 230Mission Viejo, CA 92630 • *telephone*: 949-470-1937 • *fax*: 949-470-0943

EXHIBIT #6

DTSC RECORDS REQUEST

Pacific Edge Engineering, Inc.

Facsimile Transmittal

To:	Records Review	**Fax:**	714-484-5318
Company:	DTSC		
From:	Craig Stolz	**Date**:	10/2/13
Re:	File Review Request	**Pages:**	1
CC:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** X **Please Reply** ☐ **For Approval**

Records Review:

Pacific Edge Engineering requests a file review appointment, if files exist, for the following properties in Lebec, CA 92343:

1. Tejon Mobil – 9012 Grapevine Road east
2. Grapevine Texaco/Lebec Shell – 9069 Grapevine Rd West
3. Unocal #4734 – 9068 Grapevine Rd West
4. Tejon Mobil/Valero – 8968 Grapevine Rd
5. Chevron # 8616 – 8977 Grapevine Street
6. Union Oil #4734 – Highway 99 & Grapevine
7. ExxonMobil Pumping Station 99-GRV – 7815 Grapevine Rd
8. Grapevine Shell – 9067 Grapevine Rd East
9. Lebec Shell – 9058 Mountain Base Rd

The file review is associated with an environmental evaluation being performed in the area. Please call me at (949) 470-1937 regarding the availability of information and an appointment.

Thank you,

Craig Stolz

26431 Crown Valley PKWY., Suite 230Mission Viejo, CA 92630 • *telephone*: 949-470-1937 • *fax*: 949-470-0943

EXHIBIT #7

KCEHD UST RECORDS

9069 GRAPEVINE ROAD WEST

FORMER TEXACO AND CURRENT SHELL STATION

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@co.kern.ca.us

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Community and Economic Development Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

April 4, 2005

Shell Oil Products US
Attention: Michelle Kennedy
20945 S. Wilmington Ave.
Carson, CA 90810

SUBJECT: GRAPEVINE SHELL, 9069 GRAPEVINE RD, LEBEC, CA.
500 GALLON WASTE OIL TANK, UST PERMIT #330035

Dear Ms. Kennedy:

On June 21, 2004, LC Services was issued a permit to remove the 500 gallon waste oil tank at the Grapevine Shell Station at 9069 Grapevine Road in Lebec, California. The permit was valid for ninety (90) days. To date, there has been no indication that removal of the tank is proceeding. Due to the excessive delay in removing the tank, the permit has expired. The tank is once again considered active and subject to all previous monitoring and permitting requirements.

If, in the future, Shell Oil Products US decides to remove the tank, a new application for an abandonment permit and applicable fees must be submitted. If you have any questions or comments, please call (661) 862-8700.

Sincerely,

Steve McCalley, Director

By: Lydia V. von Sydow
Waste Management Technician
Unified Hazardous Materials/Waste Program

Cc: LC Services
Attn: Larry Carpenter

Kern County
Environmental Health Services Dept.
2700 M Street, Suite 300
Bakersfield, CA 93301
(661) 862-8700

Internal Use Only:
Application Date: 6-17-04 PTA: A2618-33
# of Tanks to Abandon: 1
Piping Ft. to Abandon: 0 PTO 330035

APPLICATION AND PERMIT FOR PERMANENT CLOSURE UNDERGROUND HAZARDOUS SUBSTANCES STORAGE TANK SYSTEMS

This Application is for ☑ Removal or ☐ Abandonment in Place

Facility Information	Owner's Information	Contractor's Information
Name SHELL	Name SHELL OIL (EQUIVA)	Name LC SERVICES
Address 9069 GRAPEVINE	Address PO BOX 674425	Address 527 N. PARKVIEW
City LEBEC	City HOUSTON	City FRESNO
State CA Zip 93243	State TX Zip	State CA Zip 93728
Phone 661-322-4744	Phone	Phone 559-444-1750
Cross Street		License Type & Number A-HAZ 779267

Proposed Start Date: _____ Project Contact: _____ Phone Number: _____

Sampler	Laboratory	Disposal
Name DELTA ENV.	Name CAL SCIENCE	Decontamination Contractor ECT
Address 911 S. PRIMROSE AV.	Address 7440 LINCOLN WAY	Rinsate Disposal Location DEMENNO KERDOON
City MONROVIA	City GARDEN GROVE 92841	Disposal Location for Tank & Piping 13738 SLOVER AVE. FONTANA CA. 92336
Phone	Phone 714-895-5494	

TANK INFORMATION

Tank Number	Volume	Chemical Stored	Previous Chemical
1	500	WASTE OIL	

Use additional page if needed.

POST ON PREMISES

CONDITIONS AS FOLLOWS:

1. It is the responsibility of the Permittee to obtain permits which may be required by other regulatory agencies prior to beginning work (i.e., City Fire and Building Departments).
2. Permittee should notify the Unified Hazardous Materials/Waste Program at (661) 862-8700 two working days prior to tank removal or abandonment in place to arrange for required inspections(s).
3. Tank closure activities should be per Kern County Environmental Health and Fire Department approved methods as described in Handbook UT-30.
4. It is the contractor's responsibility to know and adhere to all applicable laws regarding the handling, transportation or treatment of hazardous materials.
5. The tank removal contractor should meet all minimum supervisorial requirements as specified in laws enforced by the Contractor's Licensing Board.
6. If any contractors other than those listed on permit and permit application are to be utilized, prior approval should be obtained by the specialist approving the permit. Deviation from the submitted application is not recommended without prior approval.
7. State UST regulations specify that soil samples be retrieved within the native material beneath portions of the underground storage tanks. The following are local sampling recommendations that could prevent unnecessary remediation costs:
   a. **Tank size less than or equal to 1,000 gallons** - a minimum of two samples, retrieved from beneath the center of the tank at depths of approximately two feet and six feet.
   b. **Tank size greater than 1,000 to 10,000 gallons** - a minimum of four samples, retrieved one-third of the way in from the ends of each tank at depths of approximately two feet and six feet.
   c. **Tank size greater than 10,000 gallons** - a minimum of six samples, retrieved one-fourth of the way in from the ends of each tank and beneath the center of each tank at depths of approximately two feet and six feet.

THIS APPLICATION BECOMES A PERMIT WHEN APPROVED

(continued on reverse side)

PTA # A2618-33 PTO # 330035

POST ON PREMISES

8. Sample locations to be specified either within a plot plan attached or one provided on this permit application.
9. Soil Sampling (piping area):
   Samples are to be retrieved at depths of approximately two feet and six feet for every 20 linear feet of pipe run and under the dispenser area.
10. Soil Samples shall be analyzed for key constituents representative of the materials stored. The following are local recommendations for sample analysis:
    a. For gasoline, samples should be analyzed for benzene, toluene, xylene, and total petroleum hydrocarbons (gasoline).
    b. For diesel, samples should be analyzed for benzene, and total petroleum hydrocarbons (diesel).
    c. For waste oil, samples should be analyzed for oil and grease, and total lead.
    d. If unknown, the samples should be analyzed for a full range of substances which may have been stored within the tank.
11. To ensure that the permit processing is cost-effective, the following time line is recommended:

ACTIVITY	DEADLINE
Notification to inspector listed on permit of date and time of closure and soil sampling	Two working days
Transportation and tracking forms sent to Hazardous Materials Management Program. All hazardous waste manifests must be signed by the receiver of the hazardous waste	No later than 5 working days for transportation and 14 working days for the tracking form after removal
Sample analysis to Hazardous Materials Management Program	No later than 3 working days after completion of analysis program

12. Purging/Inerting Conditions:
    a. Liquid shall be pumped from tank prior to purging such that less than 8 gallons of liquid remain in tank. (CSH&SC 41700)
    b. Tank shall be purged through vent pipe discharging at least 10 feet above ground level. (CSH&SC 41700)
    c. No emission shall result in odors detectable at or beyond property line. (Rule 419)
    d. No emission shall endanger the health, safety, comfort or repose of any person. (CSH&SC 41700)
    e. Vent lines shall remain attached to tank until the inspector arrives to authorize removal.

Drawing of Physical Layout of Facility

Provide a drawing in the space above of tanks, piping, lengths, dimensions, proposed sampling locations designated by ⊗, and north arrow (use additional page if needed).

RECOMMENDATIONS/GUIDELINES FOR REMOVAL OF UNDERGROUND STORAGE TANKS

This department is responsible for ensuring that the standards contained in the Kern County Ordinance Code, Division 8 and State regulations pertaining to underground storage tanks are met. The guidelines and conditions provided within this permit are to assist this Department in meeting that goal.

1. It is the contractor's/applicants responsibility to know and abide by CAL-OSHA regulations.
2. Tracking forms, hazardous waste manifests and analyses documentation are necessary for each site in order to close a case file or move it into mitigation. When contractors do not follow through on necessary paperwork, an unmanageable backlog of incomplete cases results, resulting in prolonged processing time for completing site closures.

THE APPLICANT HAS RECEIVED, UNDERSTANDS, AND WILL COMPLY WITH THE ABOVE CONDITIONS OF THIS PERMIT AND ANY OTHER STATE, LOCAL AND FEDERAL REGULATIONS PERTAINING TO WORK COMPLETED ON SITE.
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY AND TO THE BEST OF MY KNOWLEDGE IS TRUE AND CORRECT.

Owner's Signature _____ Date _____ Authorized Representative Ray Haro Date 6-18-04

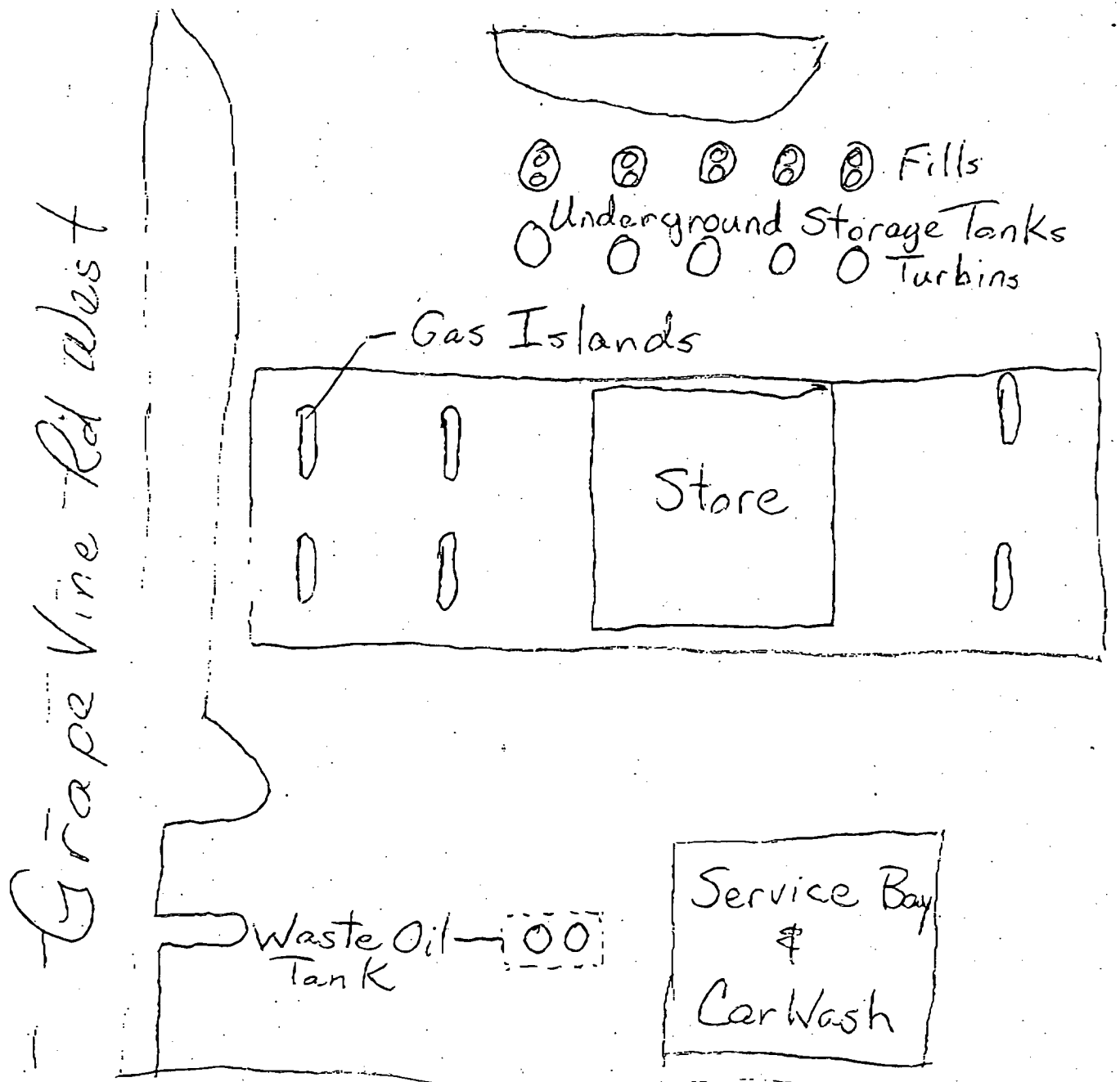
INTERNAL USE ONLY

Approved By: Luke V. Von Hylow
Issue Date: 6/21/4
Permit Expiration Date: 9/21/4

Total Fee _____ Paid On _____
Receipt # _____ Cash _____ Check # _____
Fee Received By _____

THIS APPLICATION BECOMES A PERMIT WHEN APPROVED

HM89



Shell
9069 GrapeVine Road West
Lebec, Ca
(661) 322-4774

Jun 16 04 12:32p Danny Clark (661) 663-9841 p.1

Resource Management Agency

Phone (661) 862-8800
Fax (661) 862-8801

2700 'M' Street
Bakersfield, Ca. 93301

For Building Inspection:
(661) 862-8681

Transaction ID 66360 Transaction Date 6/18/2004 Transaction Time 1:35 PM Cashier DH

Customer Name LC SERVICES

Zone Map or Area

Tracts or Parcel Maps

Permit Number / Description

Lot or Parcel #

Fee Code	Price	Quantity	Description	Cost
UST002	$1,100.00	1	4751 UNDERGROUNDTANKS CLOSE/ABAND EH	$1,100.00

Total $1,100.00

Amount	Type	Check No.	Description
$1,100.00	Check	29461	

$1,100.00 Total Payment

Amount Due $1,100.00

Amount Collected $1,100.00

Change $0.00

Payment of fees may be subject to:
California Government Code Section 66020 (d)(1)

Resource Management Agency

Phone (661) 862-8800
Fax (661) 862-8801

2700 'M' Street
Bakersfield, Ca. 93301

For Building Inspection:
(661) 862-8681

Transaction ID 66360 Transaction Date 6/18/2004 Transaction Time 1:35 PM Cashier DH

Customer Name LC SERVICES

Zone Map or Area

Tracts or Parcel Maps

Permit Number / Description

Lot or Parcel #

Fee Code	Price	Quantity	Description	Cost
UST002	$1,100.00	1	4751 UNDERGROUNDTANKS CLOSE/ABAND EH	$1,100.00

Total $1,100.00

Amount	Type	Check No.	Description
$1,100.00	Check	29461	

$1,100.00 Total Payment

Amount Due $1,100.00

Amount Collected $1,100.00

Change $0.00

Payment of fees may be subject to:
California Government Code Section 66020 (d)(1)

Shell Oil Products US
20945 S Wilmington Ave
Carson CA 90810
Michelle Kennedy

Case sent to

Remediation.

Please see
LOP file for
additional information
and closure letter

SMC Laboratory — Analytical Chemistry

Client Name: Groundwater Technology, Inc.
Address : 4101 Aiken Street., B-1
Bakersfield, Ca.93308

Date samples received : 9-25-91
Date analysis completed: 9-26-91
Date of report : 9-26-91

Project Name: Grapevine Texaco
P.O. # : 084CRJ

RESULTS OF ANALYSIS:

#3593 ID:B20-15	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3594 ID:B20-20	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Method of Analysis for BTX: 5030/8020 (PID)
Method of Analysis for TPH (Gasoline) 8015 (Modified)
PQL = Practical Quantitation Level
TPH = Total Petroleum Hydrocarbons
ugm/gm = micrograms per gram (ppm)
ND = None Detected

Stan Comer
Analytical Chemist

3155 Pegasus Drive • Bakersfield, CA 93308 • (805) 393-3597
P.O. Box 80835 • Bakersfield, CA 93380 • FAX (805) 393-3623

RESULTS OF ANALYSIS

#3595 ID:B20-25	ugm/gm	PQL, ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3596 ID:B20-2530	ugm/gm	PQL, ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3597 ID:B21-20	ugm/gm	PQL, ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Stan Comer

Stan Comer
Analytical Chemist

RESULTS OF ANALYSIS

#3598 ID:B21-32	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Stan Comer
Analytical Chemist

RESOURCE MANAGEMENT AGENCY

RANDALL L. ABBOTT
DIRECTOR

DAVID PRICE III
ASSISTANT DIRECTOR



Environmental Health Services Department
STEVE McCALLEY, REHS, DIRECTOR

Air Pollution Control District
WILLIAM J. RODDY, APCO

Planning & Development Services Department
TED JAMES, AICP, DIRECTOR

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

PERMIT FOR PERMANENT CLOSURE
OF UNDERGROUND HAZARDOUS
SUBSTANCES STORAGE FACILITY

PERMIT NUMBER A 1560-33

FACILITY NAME/ADDRESS:

Texaco #61-058-0050
9069 Grapevine/I-5
Grapevine, CA

OWNER(S) NAME/ADDRESS:

Texaco Refining & Marketing
10 Universal City Plaza
Universal City, CA 91608-1097

Phone: (818) 505-2024

CONTRACTOR:

K.E. Curtis Construction Co., Inc.
1400 Old Conejo Road
Newbury Park, CA 91320
License #A 517831
Phone: (805) 499-0428

PERMIT FOR CLOSURE OF

1 TANK(S) AT ABOVE

LOCATION

PERMIT EXPIRES December 13, 1991

APPROVAL DATE September 13, 1991

APPROVED BY

Chris Finberg
Hazardous Materials Specialist

POST ON PREMISES

CONDITIONS AS FOLLOWS:

1. It is the responsibility of the Permittee to obtain permits which may be required by other regulatory agencies prior to beginning work (i.e., City Fire and Building Departments).
2. Permittee must notify the Hazardous Materials Management Program at (805) 861-3636 two working days prior to tank removal or abandonment in place to arrange for required inspections(s).
3. Tank closure activities must be per Kern County Environmental Health and Fire Department approved methods as described in Handbook UT-30.
4. It is the contractor's responsibility to know and adhere to all applicable laws regarding the handling, transportation or treatment of hazardous materials.
5. The tank removal contractor must have a qualified company employee on site supervising the tank removal. The employee must have tank removal experience prior to working unsupervised.
6. If any contractors other than those listed on permit and permit application are to be utilized, prior approval must be granted by the specialist listed on the permit. Deviation from the submitted application is not allowed.
7. Soil Sampling:
   a. **Tank size less than or equal to 1,000 gallons** - a minimum of two samples must be retrieved from beneath the center of the tank at depths of approximately two feet and six feet.
   b. **Tank size greater than 1,000 to 10,000 gallons** - a minimum of four samples must be retrieved one-third of the way in from the ends of each tank at depths of approximately two feet and six feet.
   c. **Tank size greater than 10,000 gallons** - a minimum of six samples must be retrieved one-fourth of the way in from the ends of each tank and beneath the center of each tank at depths of approximately two feet and six feet.
8. Soil Sampling (piping area):
   A minimum of two samples must be retrieved at depths of approximately two feet and six feet for every 15 linear feet of pipe run and under the dispenser area.

9. Soil Sample analysis:
   a. All soil samples retrieved from beneath gasoline (leaded/unleaded) tanks and appurtenances must be analyzed for benzene, toluene, xylene, and total petroleum hydrocarbons (for gasoline).
   b. All soil samples retrieved from beneath diesel tanks and appurtenances must be analyzed for total petroleum hydrocarbons (for diesel) and benzene.
   c. All soil samples retrieved from beneath waste oil tanks and appurtenances must be analyzed for total organic halides, lead, oil and grease.
   d. All soil samples retrieved from beneath crude oil tanks and appurtenances must be analyzed for oil and grease.
   e. All soil samples retrieved from beneath tanks and appurtenances that contain unknown substances must be analyzed for a full range of substances that may have been stored within the tank.

10. The following timetable lists pre- and post-tank removal requirements:

ACTIVITY	DEADLINE
Complete permit application submitted to Hazardous Materials Management Program	At least two weeks prior to closure
Notification to inspector listed on permit of date and time of closure and soil sampling	Two working days
Transportation and tracking forms sent to Hazardous Materials Management Program. All hazardous waste manifests must be signed by the receiver of the hazardous waste	No later than 5 working days for transportation and 14 working days for the tracking form after tank removal
Sample analysis to Hazardous Materials Management Program	No later than 3 working days after completion of analysis

11. Purging/Inerting Conditions:
   a. Liquid shall be pumped from tank prior to purging such that less than 8 gallons of liquid remain in tank. (CSH&SC 41700)
   b. Tank shall be purged through vent pipe discharging at least 10 feet above ground level. (CSH&SC 41700)
   c. No emission shall result in odors detectable at or beyond property line. (Rule 419)
   d. No emission shall endanger the health, safety, comfort or repose of any person. (CSH&SC 41700)
   e. Vent lines shall remain attached to tank until the inspector arrives to authorize removal.

RECOMMENDATIONS/GUIDELINES FOR REMOVAL OF UNDERGROUND STORAGE TANKS

This department is responsible for enforcing the Kern County Ordinance Code, Division 8 and state regulations pertaining to underground storage tanks. Representatives from this department respond to job sites during tank removals to ensure that the tanks are safe to remove/close and that the overall job performance is consistent with permit requirements, applicable laws and safety standards. The following guidelines are offered to clarify the interests and expectations for this department.

1. Job site safety is one of our primary concerns. Excavations are inherently dangerous. It is the contractor's responsibility to know and abide by CAL-OSHA regulations. The job foreman is responsible for the crew and any subcontractors on the job. As a general rule, workers are not permitted in improperly sloped excavations or when unsafe conditions exist in the hole. Tools and equipment are to be used only for their designed function. For example, backhoe buckets are never substituted for ladders.

2. Properly licensed contractors are assumed to understand the requirements of the permit issued. The job foreman is responsible for knowing and abiding by the conditions of the permit. Deviation from the permit conditions may result in a stop-work order.

3. Individual contractors will be held responsible for their post-removal paperwork. Tracking forms, hazardous waste manifests and analyses documentation are necessary for each site in order to close a case file or move it into mitigation. When contractors do not follow through on necessary paperwork, an unmanageable backlog of incomplete cases results. If this continues, processing time for completing new closures will increase.

Accepted By: _____ 9-13-91
OWNER OR AGENT — DATE

CF:cas
\a1560-33.ptc

CLOSURE APPLICATION CHECKLIST

FACILITY Texaco #61-058-0850 PERMIT # 330035

ADDRESS 9069 Grapevine @ I-5

APPLICATION FOR TANK: X REMOVAL _____ CLOSURE IN PLACE

A. FACILITY INFORMATION: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

B. CONTRACTOR INFORMATION: APPROVED ✓ DISAPPROVED _____

1. ALL LICENSES CURRENT/CORRECT? (YES) / NO
2. ALL WORKERS' COMPENSATION/GENERAL LIABILITY INSURANCE CURRENT/CORRECT? (YES) / NO
3. LABORATORY STATE-APPROVED FOR SPECIFIED ANALYSES? (YES) / NO
4. ALL PREQUALIFICATIONS MET? YES / NO

COMMENTS: _____

C. CHEMICAL INFORMATION: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

D. ENVIRONMENTAL INFORMATION: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

E. DISPOSAL INFORMATION: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

F. PLOT PLAN: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

SUMMARY: Waste oil tank to be removed & reinstalled on site, if certified by Texaco, no decon needed. Piping to be removed.

PLEASE SEE ALL DISAPPROVED ITEMS AND COMMENTS ABOVE BEFORE RESUBMITTING CORRECTED APPLICATION.

REVIEWED BY _____ DATE 9/11/95

SITE INSPECTION: APPROVED ✓ DISAPPROVED _____
COMMENTS: _____

INSPECTOR _____ DATE _____

KERN COUNTY RESOURCE MANAGEMENT ACENCY
ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
(805)861-3636

(FILL OUT ONE APPLICATION PER FACILITY)

INTERNAL USE ONLY:	
APPLICATION DATE: 9-11-91	PTA: A1560-33
# OF TANKS TO ABANDON: 1	
PIPING FT. TO ABANDON: _____	PTO: 330035C

APPLICATION FOR PERMIT FOR PERMANENT CLOSURE/ABANDONMENT OF UNDERGROUND HAZARDOUS SUBSTANCE STORAGE FACILITY

THIS APPLICATION IS FOR [✓] REMOVAL, OR [ ] ABANDONMENT IN PLACE

A: FACILITY INFORMATION

PROJECT CONTACT: Gary Wing	PHONE #:	T/R/SEC (RURAL LOCATIONS):	
FACILITY NAME: Grapevine Texaco	ADDRESS: 9069 Grapevine West	NEAREST CROSS STREET: D Sheet	
PHONE #:	CITY: Grapevine Ca. ZIP:		
OWNER: Texaco	ADDRESS: 10 Universal City Plaza	STATE: Ca.	
PHONE #: 818-505-2024	CITY: Universal City	ZIP: 91608-1097	

B: CONTRACTOR INFORMATION

TANK REMOVAL CONTRACTOR: K.E. Curtis PHONE #:	ADDRESS: PO Box 4977 CITY: Thousand Oaks.	STATE: Ca. ZIP: 91359	
PROPOSED START DATE: 9/19/91	CALIFORNIA LICENSE TYPE & #: A 293700	WORKER'S COMPENSATION #:	
CONTRACTOR RETRIEVING SAMPLES: Groundwater Technology, Inc. PHONE #: 805-589-8601	ADDRESS: 4101 ALKEN ST. SUITE B-1 CITY: ~~P.O. Box 4977~~ BKFD.	STATE: ~~Ca.~~ ZIP: ~~91359~~ 93308	
WORKER'S COMPENSATION #:	INSURER: ~~Thousand Oaks, Ca.~~		
LABORATORY THAT WILL ANALYZE SAMPLES: GTEL PHONE #: 213-371-1044	ADDRESS: 20000/300 Mariner Dr. CITY: Torrance, Ca.	STATE: Ca. ZIP: 90503	

C: CHEMICAL INFORMATION

CHEMICAL COMPOSTION OF MATERIALS STORED: TANK #	VOLUME	CHEMICAL STORED	DATES STORED	CHEMICAL FORMERLY STORED
1	350 Gals.	Waste Oil	1985 TO Present	Waste Oil
PIPING	For EXISTING TANKS	Diesel & Gasoline	1985 TO Present	
			TO	
			TO	

D: ENVIRONMENTAL INFORMATION

WATER TO FACILITY PROVIDED BY: Tejon Ranch	IS GROUNDWATER WITHIN 50 FEET? Y OR N N
NEAREST WATER WELL-GIVE DISTANCE IF WITHIN 500 FEET: NA	SOIL TYPE AT FACILITY:
BASIS FOR SOIL TYPE AND GROUNDWATER DEPTH DETERMINATION:	
TOTAL NUMBER OF SAMPLES TO BE ANALYZED: 24	SAMPLES TO BE ANALYZED FOR: BTX, TPH(Gas) TPH(Diesel)

E: DISPOSAL INFORMATION - WASTE OIL TANK TO BE RELOCATED ON SITE

DECONTAMINATION PROCEDURE:	
DECONTAMINATION CONTRACTOR: PHONE #:	DISPOSAL LOCATION FOR RINSATE:
DISPOSAL METHOD FOR TANK(S):	DISPOSAL LOCATION FOR TANK(S):
DISPOSAL METHOD FOR PIPING:	DISPOSAL LOCATION FOR PIPING:

PLEASE COMPLETE THE REVERSE SIDE OF THIS APPLICATION BEFORE SUBMITTING FOR REVIEW

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY AND TO THE BEST OF MY KNOWLEDGE IS TRUE AND CORRECT.

SIGNATURE: Doug Owens TITLE _____ DATE 9-11-91

PROVIDE DRAWING OF PH[illegible] LAYOUT OF FACILITY U[illegible] SPACE PROVIDED BELOW.

ALL OF THE FOLLOWING INFORMATION MUST BE INCLUDED IN ORDER FOR THE APPLICATION TO BE PROCESSED:

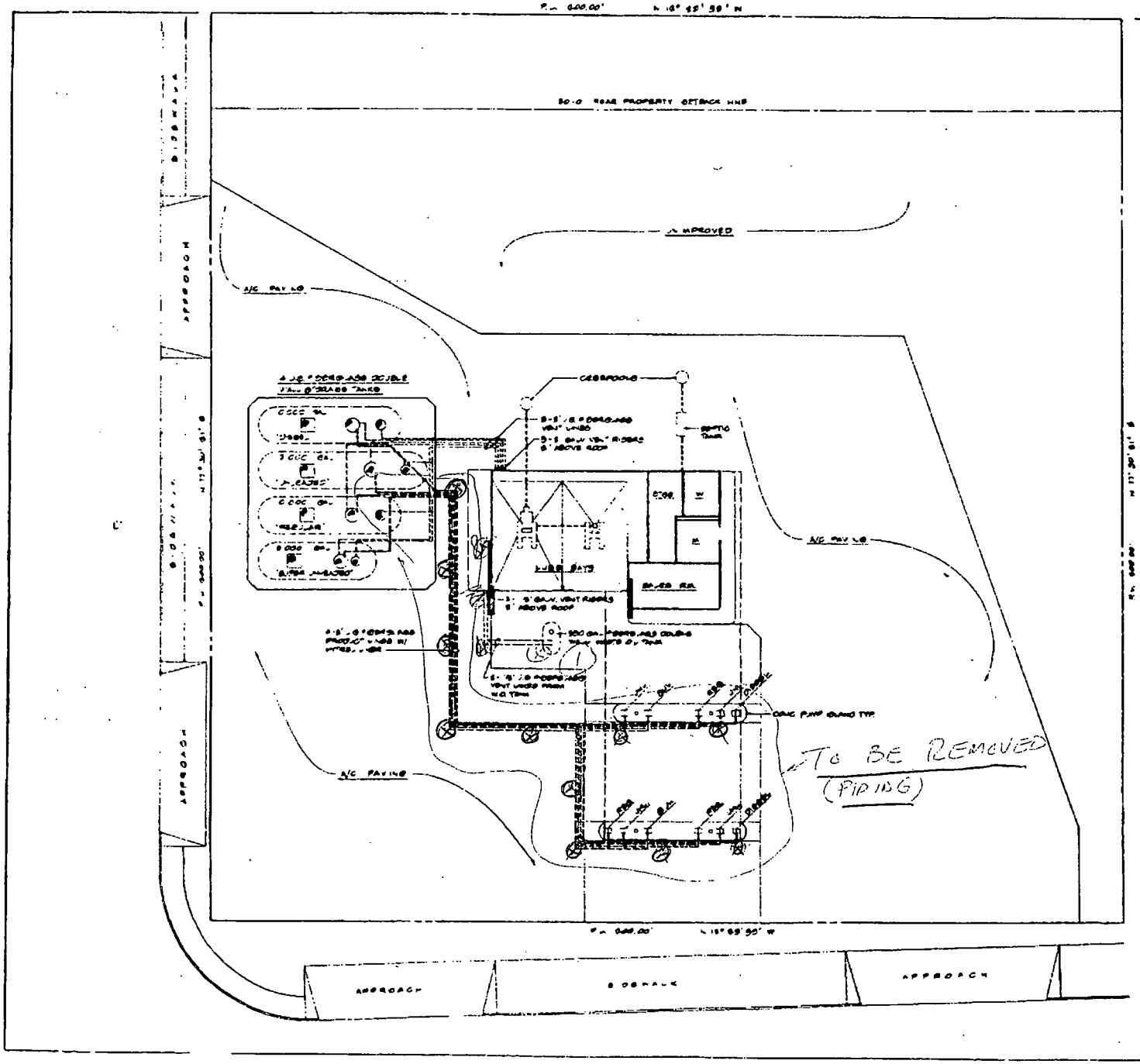
_____ TANK(S), PIPING & DISPENSER(S), INCLUDING LENGTHS & DIMENSIONS.

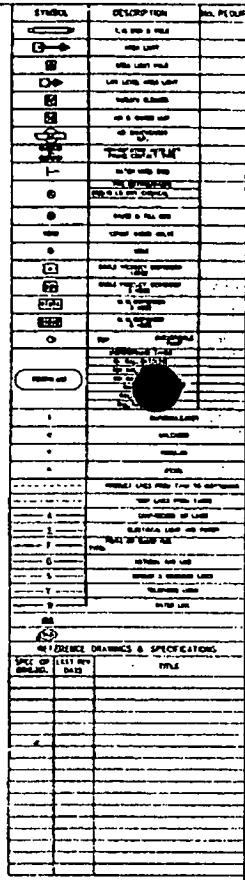
_____ PROPOSED SAMPLING LOCATIONS DESIGNATED BY THIS SYMBOL "(X)"

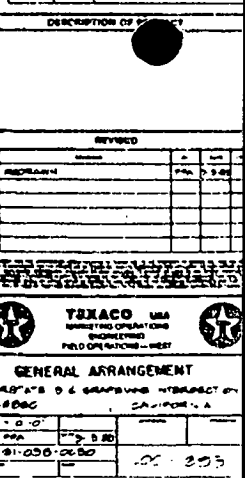
_____ NEAREST STREET OR INTERSECTION

_____ ANY WATER WELLS OF SURFACE WATERS WITHIN 100' RADIUS OF FACILITY

_____ NORTH ARROW







TEXACO USA
GENERAL ARRANGEMENT
88-01-056-0450

FRED FIEDLER AND ASSOCIATES

2322 WEST THIRD STREET
LOS ANGELES, CALIFORNIA 90057-1906
PHONE: 213-381-7891

POF-2822
January 14, 1985

Division of Environmental Health
Department of Public Health
Kern County
1700 Flower Street
Bakersfield, California 93305

Attn: Ms. Ann M. Boyce, R.S.

Subject: Texaco Service Station
I-5 @ Grapevine Off-Ramp
Assessor's Parcel No. 241-280-07
Grapevine, California

Dear Ms. Boyce:

Per our meeting of January 9, 1985 and as required by the Kern County "Requirements for Temporary or Permanent Closure/Abandonment of Underground Storage Tanks, Chapter 5", we submit the following for your review:

1. The owner of the abovementioned property is

The Tejon Ranch Company
P. O. Box 1000
Lebec, California 93243

2. Long term lessee is

Texaco U.S.A.
P. O. Box 3756
Los Angeles, California 90051
Attn: Ernie Kirby
Tel. 213/739-7621

3. Project location

Assessor's Parcel No. 241-280-07
Located on frontage road of I-5 @ Grapevine Off-Ramp @ D Street.

Texaco is planning on removing and replacing the existing underground storage tanks and replacing the underground piping with new double wall fiberglass tanks and fiberglass piping.

The existing tanks consist of five 4,000 gallon gasoline and diesel steel storage tanks and one 550 gallon waste oil tank.

The tanks will be pumped dry prior to the tank removal and the vapors neutralized utilizing carbon dioxide (dry ice). The general contractor

K. E. Curtis
1400 Old Canejo Road
Newberry Park, Ca. 91320
805/499-0428

will then disconnect all piping and remove tanks and deliver tanks to their construction yard.

The existing piping will be purged of all product and vapor and sealed. Piping to be abandoned in place.

BC Labs, 4100 Pierce Road, Bakersfield, Ca. 93308, Dan Schultz, Tel. 805/327-4911 will then conduct a soils investigation to determine if any contamination exists, and if so, the concentration and extent of contamination. The contaminated soil will then be removed and hauled to either Kettleman City or Casmalia hazardous waste dump. The contaminated soil will be removed to a point to be in compliance with Kern County Health Department standards for hazardous material contamination.

The new tank installation will consist of

1 -	12,000 gallon	Unleaded
1 -	10,000 gallon	Regular
1 -	10,000 gallon	Diesel
1 -	8,000 gallon	Super Unleaded
1 -	550 gallon	Waste Oil

The above tanks are double wall fiberglass tanks as manufactured by Xerxes (Tom Tietjan, 714/630-0012).

Each tank will be equipped with a Universal leak detection monitor located in the annular space that will detect both petroleum and water intrusion.

The overfill protection consists of two OPW #233VM float valve assemblies located at the truck vapor return and the vent/vapor return in addition to a spill containment fill box as manufactured by CNI (Herb Poeltier, 213/962-6646).

The piping system will consist of fiberglass pipe as manufactured by A. O. Smith or Ciba-Giegy. The trenches will be lined with Hytrel petroleum resistant liner as manufactured by MPC Containment (Jack Moreland, 800/621-0146), and installed in accordance with the manufacturer's instructions. The monitoring of the pipe lines will be achieved with a Red Jacket leak detector on the turbine and a Universal leak detection system located in the monitoring wells of the Hytrel linear system.

Enclosed for your review and approval are five sets of drawings outlining in detail the aforementioned tank installation. Also included are the manufacturer's specifications for Universal leak detection system, MPC Hytrel liner system, and application for permit to operate underground hazardous material storage facility.

If you should have any questions regarding the tank removal or tank installation, please do not hesitate to contact me at 213/381-7891.

Very truly yours,

Patrick O. Fiedler

POF/rh

Enclosures

cc: Ernie Kirby, Texaco

1700 Flower Street
Bakersfield, California 93305
Telephone (805) 861-3636

KERN COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

HEALTH OFFICER
Leon M Hebertson, M.D.

DIRECTOR OF ENVIRONMENTAL HEALTH
Vernon S. Reichard

January 30, 1985

Patrick O. Fiedler
Fred Fiedler and Associates
2322 West Third Street
Los Angeles, CA 90057-1908

Dear Mr. Fiedler:

This is to acknowledge receipt of your notification of intent to remove five 4,000 gallon motor vehicle fuel storage tanks and one 550 gallon waste oil tank at the Texaco station located on the frontage road of I-5 at the Grapevine off ramp at D Street, Grapevine, California. This property is owned by the Tejon Ranch Company. Removal of these tanks can be initiated as soon as a permit is acquired from the Kern County Fire Department. This letter will enable you to obtain this permit.

Actual removal of the tanks must be in accordance with all Fire Department requirements. The required assessment to determine extent of contamination, if any, must be in accordance with Kern County Health Department Standards and Guidelines developed pursuant to KCOC #G 3941. Your proposal indicates that a local laboratory has been contracted to conduct soil sampling. Prior to initiation of this sampling, a written proposal detailing sampling locations, methods and depths must be submitted to this department for approval.

Samples taken from underneath gasoline storage tanks are to be analyzed for benzene, toluene, xylene and EDB; those from under diesel tanks for total hydrocarbons and benzene; and those from under waste oil tanks for the heavy metals arsenic, cadmium , lead, copper, and chromium as well as oil and grease.

If you have any questions on these requirements, please do not hesitate to call.

Sincerely,

Ann Boyce

Ann Boyce, R.S.
Environmental Health Specialist II
Hazardous Substances Management Program

AB:aa

AGRICULTURE
CHEMICAL ANALYSIS
PETROLEUM

BC LABORATORIES INC.

J. J. EGLIN, REG. CHEM. ENGR.

MAIN OFFICE: 4100 PIERCE ROAD, BAKERSFIELD, CA. 93308 PHONE 327-4911

Texaco Producing, Inc.
P. O. Box 3756
Los Angeles, California 90051

Date Reported: 2/15/85
Date Received: 2/12/85
Laboratory No.: 2115- 2118

Attention Mr. N. E. Kirby

Sample Descriptions:

Texaco Station at Grapevine & I-5, Lebec Tank excavation soil:

#1 - North 1-2' Below bottom of Tank
#2 - North 5' Below bottom of Tank
#3 - Middle 1-2' Below bottom of Tank
#4 - Middle 5' Below bottom of Tank

Constituents, µgm/gm	#1	#2	#3	#4
Benzene	(-)0.1	(-)0.1	0.25	(-)0.1
Toluene	(-)0.1	(-)0.1	4.78	(-)0.1
Ethylbenzene	(-)0.1	(-)0.1	8.18	(-)0.1
Isopropylbenzene	(-)0.1	(-)0.1	3.70	(-)0.1
p-Xylene	(-)0.1	(-)0.1	32.6	(-)0.1
o,m-Xylene	(-)0.1	(-)0.1	21.4	(-)0.1
EDB	(-)0.1	(-)0.1	(-)0.1	(-)0.1

(-) refers to "less than".

Results reported in micrograms/gram. Minimum reporting level = 0.1 micrograms/gram.

B C LABORATORIES, INC.

BY J. J. Eglin
J. J. Eglin

AGRICULTURE
CHEMICAL ANALYSIS
PETROLEUM

BC LABORATORIES INC.

J. J. EGLIN, REG. CHEM. ENGR.

MAIN OFFICE: 4100 PIERCE ROAD, BAKERSFIELD, CA. 93308 PHONE 327-4911

Texaco Producing, Inc.
P. O. Box 3756
Los Angeles, California 90051

Date Reported: 2/15/85
Date Received: 2/12/85
Laboratory No.: 2119 - 2121

Attention Mr. N. E. Kirby

Sample Descriptions:

Texaco Station at Grapevine & I-5, Lebec Tank excavation soil:

#5 - South 1-2' Below bottom of Tank
#6 - South 5' Below bottom of Tank
#7 - Soil above Tanks

Constituents, µgm/gm	#5	#6	#7
Benzene	(-)0.1	(-)0.1	(-)0.1
Toluene	(-)0.1	(-)0.1	33.8
Ethylbenzene	(-)0.1	(-)0.1	14.9
Isopropylbenzene	(-)0.1	(-)0.1	25.3
p-Xylene	(-)0.1	(-)0.1	61.1
o,m-Xylene	(-)0.1	(-)0.1	21.6
EDB	(-)0.1	(-)0.1	(-)0.1

(-) refers to "less than".
Results reported in micrograms/gram. Minimum reporting level = 0.1 micrograms/gram.

B C LABORATORIES, INC.

BY J. J. Eglin
J. J. Eglin

AGRICULTURE
CHEMICAL ANALYSIS
PETROLEUM

BC LABORATORIES INC.

J. J. EGLIN, REG. CHEM. ENGR.

MAIN OFFICE: 4100 PIERCE ROAD, BAKERSFIELD, CA. 93308 PHONE 327-4911

Texaco Producing, Inc.
P. O. Box 3756
Los Angeles, California 90051

Date Reported: 2/15/85
Date Received: 2/12/85
Laboratory No.: 2121 - 2123

Attention Mr. N. E. Kirby

Sample Descriptions:

Texaco Station at Grapevine & I-5, Lebec Tank excavation soil:

#8 - Soil above Tanks
#9 - Background Soil
#10 - Waste Oil Tank

Constituents	#8	#9	#10
Total Lead, Parts/million	8.39	4.78	----
Oil & Grease	----	----	none detected

B C LABORATORIES, INC.

BY J. J. Eglin
J. J. Eglin

330035/00242

GETTLER-RYAN INC.

February 10, 2005

Via U.P.S.
(661) 862-8700

Mr. Marty Brownfield
Kern County Environmental Health Services
2700 M St., Suite 300
Bakersfield, CA 93301

Re: **EVR Upgrade**
Grapevine Shell
9069 Grapevine Rd. W.
Lebec, Ca
GR File No. 12251.03

Dear Marty:

On behalf of Shell Oil Products, Gettler-Ryan, Inc. is sending this letter to you as a courtesy notification regarding the above-referenced site.

The scope of work includes the following work to take place on five (5) underground storage tanks: Remove existing overfill containment, install new Phase I EVR overfill containment and drop tubes.

It is my understanding that your department does not require us to take out a permit as long as the work is for EVR Upgrade only.

If you have any questions or require further information, please do not hesitate to contact me at (916) 631-1300, ext. 13.

Respectfully,
Gettler-Ryan, Inc.

Lou Hollman

Lou Hollman
Job Captain

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: *eh@co.kern.ca.us*



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Community Development Program Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

PERMIT TO MODIFY UNDERGROUND STORAGE FACILITY

PERMIT NUMBER: 330035M

FACILITY
Grapevine Texaco
9069 Grapevine West Rd.
Lebec, CA

OWNER(S) NAME/ADDRESS:
Shell Oil Company
14742 Beach Blvd., #414
La Marida, CA 90638

Phone No. (714) 992-0689

CONTRACTOR:
Wayne Perry Co.
8281 Commonwealth
Buena Park, CA 90621
License #: 300345
Phone No. (714) 826-0352

_ NEW CONSTRUCTION
X MODIFICATION
_ OTHER

PERMIT EXPIRES October 8, 2002

APPROVAL DATE July 8, 2002

APPROVED BY Laurel Funk
Laurel Funk
Hazardous Materials Specialist

POST ON PREMISES

CONDITIONS AS FOLLOW:

Standard Instructions

1. This permit applies only to the modification of an existing facility involving repair of the secondary containment piping.
2. All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.
3. All equipment and materials in this construction must be installed in accordance with all manufacturers' specifications.
4. Permittee must contact Permitting Authority for on-site inspection(s) with 48-hour advance notice.
5. Inspection is required for the pressure test of the repaired line before the repair work is covered. If evidence of contamination is discovered, soil samples will be required.

ACCEPTED BY: Joan Carla Gilman DATE: 7-16-02

330177M.wpd

TANK INFORMATION FORM

(Complete one form for all tanks with the same design)

Facility ID: _____
1998: ☐ Yes ☐ No

A Tank Information

Please Print

Tank Number(s) 5 Content(s) Fuel(4) Diesel(1) Capacity 10 K

Tank Manufacturer: Owens Corning Date Installed __/__/__

Tank Construction: ☐ Single-Wall ☒ Double-Wall ☐ Jacketed
☐ Vaulted ☐ Other

Tank Material: ☐ Carbon Steel ☒ Fiberglass-Clad ☐ Fiberglass
☐ Concrete ☐ Other

Methanol Compatible ☐ Yes ☐ No

Tank Interior Lining: ☐ Unlined ☐ Lined (material)

Corrosion Protection: ☒ Fiberglass-Clad ☐ Sacrificial Anode ☐ None
☐ Polyethylene/Vinyl ☐ Other
☐ Impressed Current (describe)

Spill Containment: (make & model) OPW 2100-C Year Installed 9/00

Overfill Prevention: (make & model) OPW 61T Drop tube W/ Flapper Year Installed 9/00

Tank Repairs: (dates & descriptions) N/A

B Piping Information

Please Print

Type of System: ☒ Pressure ☐ Suction ☐ Gravity ☐ None
Approximate length of this pipe run: 350 Feet

Pipe Construction: ☐ Single-Wall ☒ Double-Wall ☐ Liner Raceway
☐ PVC Sleeve ☐ Other

Pipe Material: ☐ Steel ☒ Fiberglass ☐ Flexible (list material)
☐ Other

Pipe Manufacturer: Amron Date Installed 9/00/00

C Monitoring Information

Please Print and Check All That Apply

Tank Monitoring: Primary: ☒ Auto-Tank Gauge ☐ Manual Gauging ☐ Groundwater
☐ Statistical Inventory Reconciliation
☐ Vadose Zone ☐ Other
Describe make and model

Secondary: ☒ Liquid Sensor ☐ Vapor Sensor ☐ Hydrostatic
☐ Other
Describe make & model Veeder Root TLS-350 302 SENSOR
Alarm: ☒ Yes ☐ No

Pipe Monitoring: Primary: ☐ Reduced Flow ☒ Shut Down ☐ Other
Line Leak Detector Line Leak Detector
Describe make & model Veeder Root PLLD

Secondary: ☒ Liquid Sensor ☐ Vapor Sensor ☐ Other
Describe make & model Veeder Root 208 SENSOR
Alarm: ☒ Yes ☐ No
Pump Shut Down: ☒ Yes ☐ No

KERN COUNTY
ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301

PERMIT NO. 330035
APN NUMBER
APPLICATION DATE: 6-26-02

APPLICATION FOR PERMIT TO CONSTRUCT/MODIFY UNDERGROUND HAZARDOUS SUBSTANCES STORAGE FACILITY

Type Of Application (check):
☐ New Facility ☒ Modification of Facility ☐ New Tank Installation at Existing Facility

A. Number of Tanks To Be Installed _____ Existing Facility Permit # _____
Type of Business Texaco Service Station
Facility Name Texaco
Address 9069 Grapevine Rd. / I5 City Lebec
T ____ R ____ SEC ____ (Rural Locations Only) Nearest Cross Street I5

B. Tank Owner Shell Oil Phone #: 714-992-0639
Address 14742 Beach Blvd #414 City/State La Mirada, CA Zip 90638

C. Water To Facility Provided By _____
Depth To Groundwater _____ Soil Characteristics At Facility _____

D. Contractor Wayne Perry Inc CA Contractor's License No. 300345
Address 8281 Commonwealth City Buena Park Zip 90621 Phone # 714-826-0352
Worker's Compensation Certification # 2850 2020 Insurer Post Insurance Services
Proposed Starting Date July 8, 2002 Proposed Completion Date July 23, 2002

E. If This Application Is For Modification Of An Existing Tank System, Briefly Describe Modifications Proposed (Excluding New Tank Installation at Existing Facilities) Repair Secondary Piping Leaks on all products need to locate leaks.

F. Tank(s) Storage (Check All That Apply):

Tank #	Unleaded	Unleaded Plus	Premium	Diesel	Other* Fuel	Waste Oil	Other* Waste	Other* Product
1	☒	( )	( )	( )	( )	( )	( )	( )
2	☒	( )	( )	( )	( )	( )	( )	( )
3	( )	☒	( )	( )	( )	( )	( )	( )
4	( )	( )	☒	( )	( )	( )	( )	( )

* Describe other products/waste: _____
5 X

G. Initial Tank Integrity Test Information:
Testing Company Name: _____ Phone # _____
Test Method: _____ Licensed Tester: _____

A tank integrity test is not required if the tank is equipped with an interstitial monitor certified to meet the performance standards of a "tank integrity test."

This form has been completed under penalty of perjury and to the best of my knowledge is true and correct.
Signature Reethi Kumar Title Project Mgr. Date 6-26-02

HM38 (1/29/96)

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243'
805-322-4774

SEP 28. 2000 11:55 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:OPEN ALARM

LIQUID ALARM
SENSOR NUMBER 12
LIQUID ALARM
REGULAR TURBINE SUMP
SEP 28. 2000 11:58 AM

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:58 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

LEBEC 93243
805-322-4774

SEP 28. 2000 11:55 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:OPEN ALARM

LIQUID ALARM
SENSOR NUMBER 19
LIQUID ALARM
REG HEALEY FILL SUMP
SEP 28. 2000 11:41 AM

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:41 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:LIQUID ALARM

L19:LIQUID ALARM

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:43 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:LIQUID ALARM

LIQUID ALARM
SENSOR NUMBER 14
[illegible]
PLUS FILL SUMP
SEP 28. 2000 11:46 AM

[illegible]

[illegible]

[illegible]

[illegible]

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:51 AM

LIQUID ALARM
SENSOR NUMBER 11
LIQUID ALARM
REG HEALEY TURB SUMP
SEP 28. 2000 11:45 AM

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:[illegible] AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L11:LIQUID ALARM

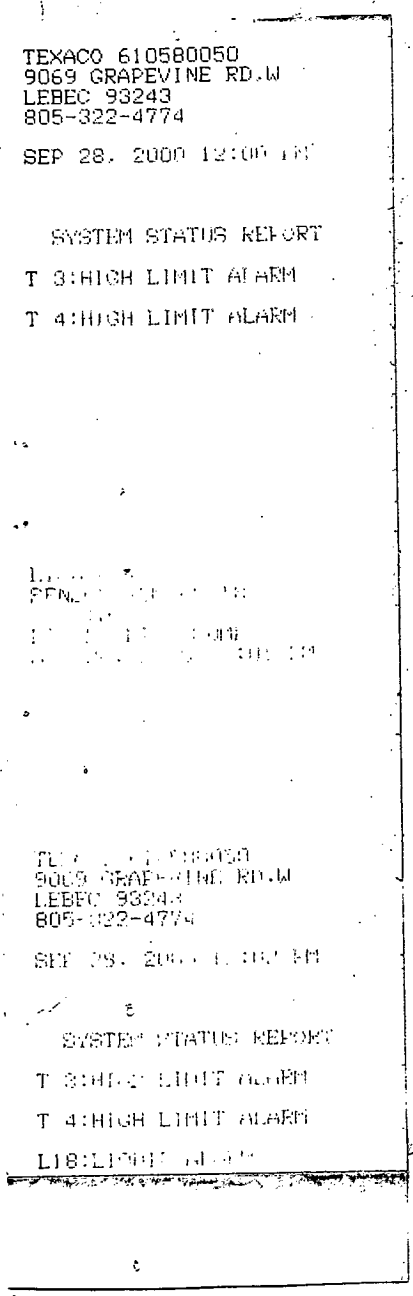
TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 11:46 AM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM



TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 12:00 PM

SYSTEM STATUS REPORT

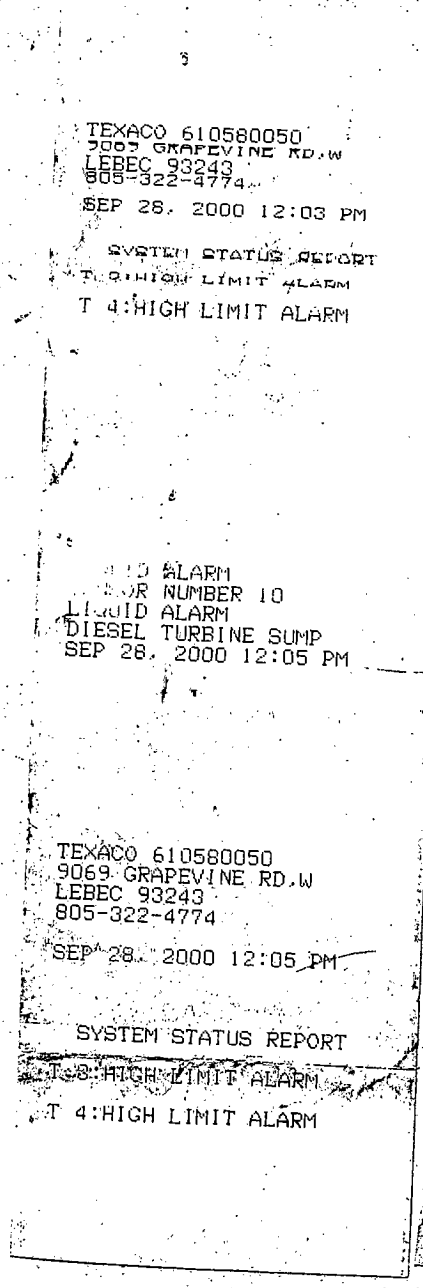
T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM



TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 12:03 PM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

LIQUID ALARM
SENSOR NUMBER 10
LIQUID ALARM
DIESEL TURBINE SUMP
SEP 28. 2000 12:05 PM

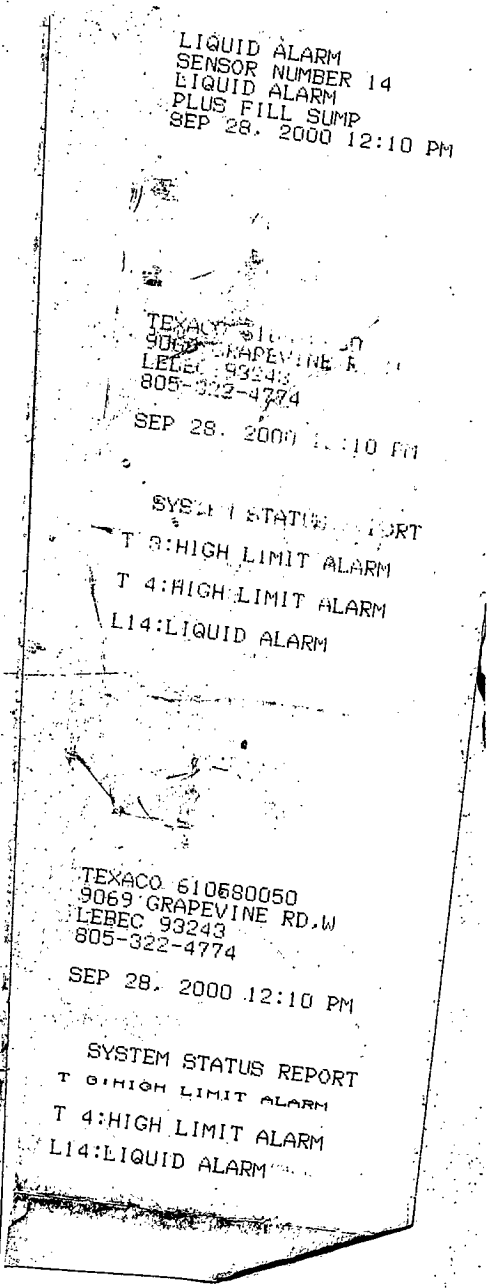
TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 12:05 PM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM



LIQUID ALARM
SENSOR NUMBER 14
LIQUID ALARM
PLUS FILL SUMP
SEP 28. 2000 12:10 PM

805-322-4774

SEP 28. 2000 12:10 PM

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:LIQUID ALARM

TEXACO 610580050
9069 GRAPEVINE RD.W
LEBEC 93243
805-322-4774

SEP 28. 2000 12:10 PM

SYSTEM STATUS REPORT

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:LIQUID ALARM

T 3:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

T 4:HIGH LIMIT ALARM

L14:LIQUID ALARM

LIQUID
SENSOR
LIQUID
REG HEALEY TURB SUMP
SEP 28, 2000 12:40 PM

TEX
90
LPG
8

LIQUID
SE
LI
TE
SE

T 3:HIGH LIMIT
T 4:HIGH LIMIT
L21:LIQUID

SYSTEM STATUS REPORT
T 3:HIGH LIMIT ALARM
SEP 28, 2000 12:31 PM
TEXACO 6105800S0
9069 GRAPEVINE RD,W
LEBEC 93243
805-322-4774

LIQUID ALARM
SENSOR NUMBER 9
LIQUID ALARM
PLUS TURBINE SUMP
SEP 28, 2000 12:48 PM

TEXACO 6105600050
9069 GRAPEVINE RD;W
LEBEC 93243
805-322-4774

SEP 28, 20[illegible]

KERN COUNTY ENVIRONMENTAL
HEALTH SERVICES DEPARTMENT
HAZARDOUS MATERIALS PROGRAM

INSPECTION RECORD

POST CARD AT JOBSITE

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
(661) 862-8700

PERMIT #: 330035M	OWNER: Equilon Enterprises
FACILITY: Grapevine Texaco	CONTACT:
ADDRESS: 9069 Grapevine Road West	ADDRESS: P. O. Box 2154
CITY: Lebec	CITY: Fullerton, CA
PHONE #: (661) 322-4774	PHONE #: (714) 992-0689

INSTRUCTIONS: Please call for an inspection or submit the requested information when ready. They will run in consecutive order beginning with number 1. DO NOT cover work for any numbered group or continue with the next phase of work until all items in that group are signed off by the Permitting Authority. Following these instructions will reduce the number of required inspection visits and therefore the assessment of additional fees.

	INSPECTION	DATE	INSPECTOR
	- SAMPLES & BACKFILL -		
1*	Witness retrieval of soil samples beneath existing product piping	N/A	9-7-00 L. Funk
2	Backfill of product lines	9/15/00	L. Funk
	- PIPING SYSTEM -		
2	Primary piping pressure/soap test	9/15/00	L. Funk
2	Corrosion protection of piping & fill pipe	9/15/00	L. Funk
	- SECONDARY CONTAINMENT -		
2	Secondary piping pressure/soap test	9/18/00	L. Funk
2	Sump test	9/18/00	L. Funk
2	Electrical Conduits	9/15/00	L. Funk

Please contact the Fire Department at (661) 391-7082 and Building (electrical) Department at (661) 862-8661 to schedule final inspections with them before calling this department for the final inspection.

	- FINAL -		
3	Overspill boxes / ~~Drop tube valves~~ Ball Float	9/28/00	L. Funk
3	Line Leak Detectors / (Positive Shut Down)	9/28/00	L. Funk
3	Electrical Seal Offs and Sealed Field Connections	9/28/00	L. Funk
3	Monitor System Check Visual on Dispenser Pans	9/28/00	L. Funk
3	Integrity test of system		
3	As-built drawings (if required) N/A		
3	Monitoring Requirements	9/28/00	L. Funk

CONTRACTOR Wayne Perry LICENSE # 300345

CONTACT Steve Nicholson PHONE # (714) 826-0362

Glen Smith (714) 981-2081

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

RESOURCE MANAGEMENT AGENCY

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: *eh@co.kern.ca.us*

DAVID PRICE III, RMA DIRECTOR
Community Development Program Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

PERMIT TO MODIFY UNDERGROUND STORAGE FACILITY

PERMIT NUMBER: 330035M

FACILITY
Grapevine Texaco
9069 Grapevine Road West
Lebec, CA

OWNER(S) NAME/ADDRESS:
Equilon Enterprises
P. O. Box 2154
Fullerton, CA 92837

Phone No. (714) 992-0689

CONTRACTOR:
Wayne Perry Inc.
8281 Commonwealth Ave.
Buena Park, CA 90621
License #: 300345
Phone No. (714) 826-0362

__ NEW CONSTRUCTION
X MODIFICATION
__ OTHER

PERMIT EXPIRES November 4, 2000

APPROVAL DATE August 4, 2000

APPROVED BY Laurel Funk
Laurel Funk
Hazardous Materials Specialist

. . . . . **POST ON PREMISES** . . . . .

CONDITIONS AS FOLLOW:

Standard Instructions

1. This permit applies only to the modification of an existing facility involving replacement of product piping and installation of sumps and dispensed pans.
2. All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.
3. All equipment and materials in this construction must be installed in accordance with all manufacturers' specifications.
4. Permittee must contact Permitting Authority for on-site inspection(s) with 48-hour advance notice.
5. Backfill material for piping is to be as per manufacturers' specifications.
6. Construction inspection record card is included with permit given to Permittee. This card must be posted at job site prior to initial inspection. Permittee must contact Permitting Authority and arrange for each group of required inspections numbered as per instructions on card. Generally, inspections will be made of:
   a. Piping sampling
   b. Piping system with secondary containment
   c. Overfill protection and leak detection/monitoring

PERMIT TO CONSTRUCT UNDERGROUND STORAGE FACILITY

Standard Instructions

Permit No. 330035M

7. All underground metal connections (e.g. piping, fitting, fill pipes) to tank(s) must be electrically isolated and wrapped to a minimum 20 mil thickness with corrosion-preventive, gasoline-resistant tape or otherwise protected from corrosion.

8. Monitoring requirements for this facility will be described on final "Permit to Operate."

ACCEPTED BY: _____ DATE: 9-7-00

330035M.wpd

JOB CARD
ELECTRICAL PERMIT

KERN COUNTY DEPARTMENT OF ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
2700 "M" STREET, SUITE 570 BAKERSFIELD, CA 93301-2370
Telephone (661) 862-8681

Project Address: 9069 GRAPEVINE RD WEST LEBE
Project Parcel: 241280098
Insp. Area: 61
Project Description: ELECTRICAL FOR GAS PUMP @ TEXACO
Zone Map: 219-17

PERMIT NO: K200003895
Application Date: July 27, 2000
Permit Issued Date: July 27, 2000
Permit Status: ISSUED
Zoning: C2PD

Permit Class: Map/Book/Lot: 24128009006 C.S.A.#: School Dist #: 40

Owner.....: TEJON RANCH CO
Address....: P O BOX 7813 UNIVERSAL CTY CA 91608 Phone:
Contractor...: WAYNE PERRY CONST INC Hiring Licensed Contractor: Y
License No: 300345
Address....: 8301 W COMMOMWEALTH AVE BUENA PARK CA 90621 Phone: 1-714-826-0352
Architect.....:
Address....: Phone:
Engineer.....:
Address....: Phone:

Census Code: Total Area: 0 Total Value: $0.00
Activity Code: JAVIERR Activity Date: July 27, 2000

Occupancy	Type	Factor	Sq Feet	
	Totals...			$0.00*

PERMIT FEES

Administration Fee	$2.50	Issuance Fee	$23.00	Service to 600 volts	$12.00
Service over 600 volts	$0.00	Outlets	$0.00	Multi Outlet	$0.00
H.P. 0 - 5	$0.00	H.P. 5.1 - 15	$0.00	H.P. 15.1 - 100	$0.00
H.P. 100.1 - 500	$0.00	H.P. Over 500	$0.00	Temp. Power Pole	$0.00
Area Lighting over 6'	$0.00	Temp Sale Stand	$0.00	Poles & Anchors	$0.00
Illuminated Signs	$0.00	Service Drops Fee	$0.00	Other Elec. Fees	$0.00
Investigation Fee	$0.00	Inspection Fee	$0.00	Reinspection Fee	$0.00
Other Inspection Fee	$0.00				

Total Fees: $37.50
Total Payments: $37.50
Balance Due: $0.00

APPLICANTS COPY

COUNTY DEPARTMENT OF
ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
CHARLES LACKEY, P.E., DIRECTOR

INSPECTION RECORD

POST CARD AT JOBSITE

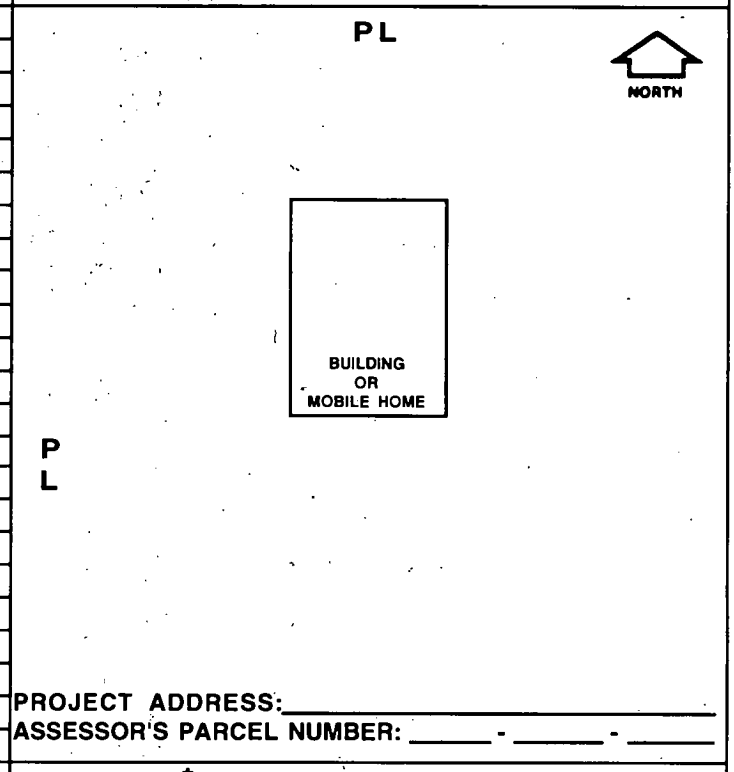
BAKERSFIELD AREA INSPECTION REQUESTS ONLY
8 am - 5 pm 862-8681
After Hours 862-8698
(10:00 a.m. cutoff for same day inspections. Inspections requested after 10:00 a.m. will be conducted on the next business day.)

	Inspection	Date	Inspector
GROUND WORK	Grading		
	Set Backs		
	Underground Elec.		
	Underground Plb.		
	Underground Mech.		
	Address Verification		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
FOUNDATION	Slab Mesh		
	Slab Membrane		
	Rebar for Grounding		
	Reinforcing Steel		
PLACE NO CONCRETE FOR FLOOR UNTIL ABOVE HAS BEEN SIGNED			
FLOOR WALL ROOF FRAMING	Floor Joists		
	Floor Sheathing		
	Rough Electrical		
	Plumbing Top-out		
	Fire Sprinkler System		
	Shower Pan		
	Grease Trap		
	Rough Mechanical		
	Roof Sheathing		
	Structural		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
STUCCO PLASTER WALLBOARD SIDING	Roofing		
	Interior Lathing		
	Exterior Lathing / Siding		
	Dry Wall		
	Exterior Membrane		
	Wall Insulation		
	Attic Ventilation		
DO NOT PLASTER OR APPLY SIDING UNTIL ABOVE HAS BEEN SIGNED			
SEWAGE DISPOSAL DRY SEWER WET SEWER SEPTIC SYS	First Inspection		
	Sewer Line		
	Septic Tank		
	Seepage Pit		
	Leach Field		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
MASONRY AND CONCRETE WALLS	Foundation Steel		
	Wall Reinforcing		
	Bond Beam		
	Fire Place Reinforcing		
	Fire Place		
	Wood Stove		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
SWIMMING POOL	Location		
	Steel		
	Conduit under deck		
	Recirculation piping		
	Electrical wiring		
	Gas line under deck		
	Fencing & Gates		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			

ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
Main Office
2700 M Street, Suite 570, Bakersfield, California 93301-2370
Phone (661) 862-8650 Office Hours 8:00-5:00

Branch Offices

Frazier Park Office - Fire Station	Ph. 245-1221 Office Hours 7:00-10:00 M,T,Th,F
Lake Isabella Office - 7050 Lake Isabella Blvd.	Ph. (760) 379-2631 Office Hours 7:00-4:00
McFarland Office - 401 West Kern St.	Ph. 792-3091 Office Hours 8:00-9:00M-Th.
Mojave Office - 1775 Hwy. 58	Ph. 824-3906 Office Hours 7:00-12:00
Ridgecrest Office - 400 N. China Lake Blvd.	Ph. (760)375-1564 Hours 8:00-11:00 TF
Taft Office - 315 Lincoln Street	Ph. 763-8590 Office Hours 8:00-10:00 W
Tehachapi Office - 125 East "F" Street	Ph. 822-6329 Office Hours 7:00-4:00



PROJECT ADDRESS: _____

ASSESSOR'S PARCEL NUMBER: _____ - _____ - _____

*** SINGLE FAMILY RESIDENTIAL CERTIFICATE OF OCCUPANCY**

Inspection	Date	Inspector
Temp Elec.		
Temp Gas		

PRE-FINAL APPROVALS

Inspection	Date	Inspector
Health Department		
Road Department		
Grading		
Drainage		
Landscaping		
C.U.P. Requirements		
P.D. Requirements		

FINAL	Gas pressure test		
	Electrical final		
	Plumbing final		
	Mechanical final		
	Structural final		
	Energy final		
	Zoning requirements		
	Insulation requirements		
	Fire Requirements		
*	Job complete		

*** RESIDENTIAL PERMITS: THIS JOB CARD SERVES AS YOUR CERTIFICATE OF OCCUPANCY.**

Kern County Fire Department

5642 Victor Street • Bakersfield, CA 93308
Telephone 805~391~7000 • Fax 805~391~7077
TTY Relay Service 1~800~735~2929

Fire Chief
DANIEL G. CLARK

Deputy Chiefs
DENNIS L. THOMPSON, *OPERATIONS*
DAVE WARD, *LOGISTICS*
STEPHEN A. GAGE, *OPERATIONS*
LeCOSTEL HAILEY, *OPERATIONS*
CARY L. ECKARD, *FINANCE*

Hold Permit
For Final
Approval

DATE: 7/27/00

PERMIT NO.: 330035

JOB ADDRESS: 9069 Grapevine West

( ) **For Information Only**

OWNER: Texaco
Equilon Enterprises LLC

Plans will be checked in accordance with:

(X) U.F.C. 1997 Article 52 ( ) Title 19 ( ) Title 24 ( ) U.B.C. 19_
( ) Other:_____

MEET ALL OF THE FOLLOWING REQUIREMENTS

COMPLIANCE LIST: **Dispensers and Other Related Equipment with Underground Tanks**
(Use with Health Department Plan Review Process for Underground Tanks)

Note: All tank cutting and welding "hot work" requires a request for a standby from the fire department. Submit a signed Standby Request at least two working days prior to commencing operations.

1. Dispensing devices shall be located as follows:
   a. Ten feet or more from property lines,
   b. Ten feet or more from buildings having combustible exterior wall surfaces or buildings having noncombustible exterior wall surfaces that are not part of a one-hour fire-resistive assembly. Exception: Canopies constructed in accordance with the Building Code.
   c. Such that all portions of the vehicle being fueled will be on the premises of the motor vehicle fuel-dispensing station,
   d. Such that the nozzle, when the hose if fully extended, will not reach within 5 feet (1524 mm) of the building openings, and
   e. Twenty feet (6096 mm) or more from fixed sources of ignition. (5201.4.1.2)

2. Post conspicuous signs prohibiting smoking, dispensing into unapproved container, to stop engine. (5201.8)

3. Install an emergency shut down device at an approved location (Contact Fire Prevention). Emergency shut-off switch shall be within 100 feet, but not less than 20 feet from dispensers. The emergency shut-off switch shall stop the transfer of fuel and close all valves which supply fuel. (5201.5.3)

4. Incidents involving leaks, fires, explosions, overheating or requiring shutting down equipment, other than for routine maintenance or tests, shall be immediately reported to the fire department. (5201.12.3.12)

5. Dispensing devices shall be in clear view of the attendant with no obstacles placed between the attendant and the dispensers. The attendant shall at all times to be able to communicate with the person in the dispensing areas. (5202.4.8)

6. An electrical disconnect switch shall be provided for all dispensers in accordance with the Electrical Code. (5201.5.4)

7. Provide fire extinguishers (20BC) between 15 to 75 feet from dispensers. (5201.9)

8. Flexible joints shall be installed in accordance with Section 7901.11.7. An approved emergency shutoff impact valve incorporating a fusible-link shall be rigidly mounted and connected by a union in the fuel supply piping at the base of each dispensing device, including the satellite dispensers. The shear section shall be mounted flush with the top of the surface on which the dispenser is mounted. (5202.5.3.2)

9. An approved emergency shutoff impact valve incorporating a fusible-link shall be rigidly mounted and connected by a union in the vapor-return line at the base of each dispensing device. The shear section of the valve shall be mounted flush with the top of the surface on which the dispenser is mounted. (5202.13.3.5)

10. Approved fire checks or other positive means of automatic isolation of underground storage tanks shall be installed in vapor-return piping to prevent a flashback from reaching the underground tanks. Such devices also shall be installed in all vapor/air piping as close as practical to each burner or group of burners in a vapor incineration unit, and in all vapor-transfer piping as close as practical to refrigeration, absorption of similar types of processing equipment. (5202.13.3.8)

11. Vents from vapor-processing units shall not be less than 12 feet (3658 mm) aboveground level and not less than 8 feet (2438 mm) above the processing in itself. Vent outlets shall be directed and located such that flammable vapors will not accumulate, travel to an unsafe location or enter buildings. (5202.13.3.9)

----------Additional requirements for Unsupervised Dispensing, Section 5201.6.3----------

12. Unsupervised dispensing is allowed when the owner or operator provides, and is accountable for, daily site visits, regular equipment inspection and maintenance, conspicuously posted instructions for the safe operation of dispensing equipment, and posted telephone numbers for the owner or operators. A sign shall be posted in a conspicuous location reading:

IN CASE OF FIRE, SPILL OR RELEASE

1. Use emergency pump shutoff!
2. Report the accident!
   Fire Department Telephone No. **9-1-1**
   Facility address _____

13. A telephone shall be provided within 100 feet of the dispensers which does not require a deposit to dial 9-1-1.

14. Product delivery hoses are equipped with a listed emergency breakaway device designed to retain liquid on both sides of the breakaway point. (5202.4.3)

15. Dispensing equipment shall comply with one of the following:
    1. Dispensing devices are programmed or set to limit uninterrupted fuel delivery to 25 gallons and require a manual action to resume continued delivery, or
    2. The amount of fuel being dispensed is limited in quantity by a preprogrammed card. (5202.4.5)

16. A fire extinguisher with a minimum rating of 2-A, 20-B:C shall be provided and located such that it is not more than 75 feet from any pump, dispenser or fill-pipe opening. (5202.9)

KERN COUNTY
ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301

PERMIT NO. 330035
APN NUMBER
APPLICATION DATE: 7/27/00

APPLICATION FOR PERMIT TO CONSTRUCT/MODIFY UNDERGROUND HAZARDOUS SUBSTANCES STORAGE FACILITY

Type Of Application (check):
☐ New Facility ☒ Modification of Facility ☐ New Tank Installation at Existing Facility

A. Number of Tanks To Be Installed 0 Existing Facility Permit #
Type of Business TEXACO SERVICE STATION
Facility Name TEXACO STATION
Address 9069 GRAPEVINE WEST City LEBEC
T____ R____ SEC____ (Rural Locations Only) Nearest Cross Street ROSE STATION ROAD

B. Tank Owner EQUILLON ENTERPRISES LLC Phone #: (714) 992-0689
Address P.O. BOX 2154 City/State FULLERTON, CA Zip 92837

C. Water To Facility Provided By
Depth To Groundwater Soil Characteristics At Facility

D. Contractor WAYNE PERRY INC. CA Contractor's License No. 300345
Address 8281 COMMONWEALTH AVE City BUENA PARK Zip 90621 Phone #(714)826-0352
Worker's Compensation Certification # 514219-00 Insurer F+I INSURANCE CO.
Proposed Starting Date 8/7/00 Proposed Completion Date 9/15/00

E. If This Application Is For Modification Of An Existing Tank System, Briefly Describe Modifications Proposed (Excluding New Tank Installation at Existing Facilities) INSTALL DISPENSER PANS, TURBINE SUMPS, RE-PIPE PRODUCT LINES, VAPOR LINES

F. Tank(s) Storage (Check All That Apply):

Tank #	Unleaded	Unleaded Plus	Premium	Diesel	Other* Fuel	Waste Oil	Other* Waste	Other* Product
1. 12,000	(X)	( )	( )	( )	( )	( )	( )	( )
2. 10,000	(X)	( )	( )	( )	( )	( )	( )	( )
3. 12,000	( )	(X)	( )	( )	( )	( )	( )	( )
4. 8,000	( )	( )	(X)	( )	( )	( )	( )	( )

* Describe other products/waste:
5. 10,000 (X)

G. Initial Tank Integrity Test Information:

Testing Company Name: Phone #
Test Method: Licensed Tester:

A tank integrity test is not required if the tank is equipped with an interstitial monitor certified to meet the performance standards of a "tank integrity test."

This form has been completed under penalty of perjury and to the best of my knowledge is true and correct.

Signature John C. Murdock Title PROJECT MANAGER Date

HM36 (1/29/98)

TANK INFORMATION FORM

(Complete one form for all tanks with the same design)

Facility ID: _____
1998: ☐ Yes ☐ No

A Tank Information

Please Print

Tank Number(s) ___ ___ ___ Content(s) _____ _____ _____ Capacity _____

Tank Manufacturer: XERXES Date Installed ___/___/___

Tank Construction: ☐ Single-Wall ☒ Double-Wall ☐ Jacketed
☐ Vaulted ☐ Other _____

Tank Material: ☐ Carbon Steel ☐ Fiberglass-Clad ☒ Fiberglass
☐ Concrete ☐ Other _____

Methanol Compatible ☒ Yes ☐ No

Tank Interior Lining: ☒ Unlined ☐ Lined (material) _____

Corrosion Protection: ☒ Fiberglass-Clad ☐ Sacrificial Anode ☐ None
☐ Polyethylene/Vinyl ☐ Other _____
☐ Impressed Current (describe) _____

Spill Containment: (make & model) _____ Year Installed _____

Overfill Prevention: (make & model) OPW 233VM-4433 TEE Year Installed 00

Tank Repairs: (dates & descriptions) _____

B Piping Information

Please Print

Type of System: ☒ Pressure ☐ Suction ☐ Gravity ☐ None
Approximate length of this pipe run: 120 FT

Pipe Construction: ☐ Single-Wall ☒ Double-Wall ☐ Liner Raceway
☐ PVC Sleeve ☐ Other _____

Pipe Material: ☐ Steel ☒ Fiberglass ☐ Flexible (list material)
☐ Other _____ _____

Pipe Manufacturer: AMERON Date Installed 8/15/00

C Monitoring Information

Please Print and Check All That Apply

Tank Monitoring: Primary: ☒ Auto-Tank Gauge ☐ Manual Gauging
☐ Statistical Inventory Reconciliation ☐ Groundwater
☐ Vadose Zone ☐ Other _____
Describe make and model TLS 350

Secondary: ☒ Liquid Sensor ☐ Vapor Sensor ☐ Hydrostatic
☐ Other _____
Describe make & model TLS 350
Alarm: ☒ Yes ☐ No

Pipe Monitoring: Primary: ☐ Reduced Flow Line Leak Detector ☒ Shut Down Line Leak Detector ☐ Other _____
Describe make & model _____

Secondary: ☒ Liquid Sensor ☐ Vapor Sensor ☐ Other _____
Describe make & model _____
Alarm: ☒ Yes ☐ No
Pump Shut Down: ☒ Yes ☐ No

KERN COUNTY ENVIRONMENTAL
HEALTH SERVICES DEPARTMENT
HAZARDOUS MATERIALS PROGRAM

INSPECTION RECORD

POST CARD AT JOBSITE

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
(805)862-8700

PERMIT #: 330035	OWNER: Texaco USA
FACILITY: Texaco Gas Station - Grapevine	CONTACT:
ADDRESS: 9069 Grapevine Road	ADDRESS: 10 Universal City Plaza
CITY: Lebec, CA 93243	CITY: Universal City, CA 91608-1097
PHONE #: (805) 322-4744	PHONE #: (818) 505-2139

INSTRUCTIONS: Please call for an inspection or submit the requested information when ready. They will run in consecutive order beginning with number 1. DO NOT cover work for any numbered group or continue with the next phase of work until all items in that group are signed off by the Permitting Authority. Following these instructions will reduce the number of required inspection visits and therefore the assessment of additional fees.

	INSPECTION	DATE	INSPECTOR
- SAMPLES & BACKFILL -			
1	Witness retrieval of soil samples beneath existing product piping		
2	Backfill of product lines		
- PIPING SYSTEM -			
2	Primary piping pressure/soap test		
2	Corrosion protection of piping & fill pipe		
- SECONDARY CONTAINMENT, OVERFILL PROTECTION -			
3	Secondary piping pressure/soap test		
3	Sump test		
3	Drop tube valves		
- FINAL -			
4	Integrity test of system		
4	Line leak detectors/positive shut down		
4	Monitor system check		
4	Monitoring requirements		

CONTRACTOR K.E. Curtis Construction LICENSE # A293700

CONTACT Ivan Morales PHONE # (805) 499-0428

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (805) 862-8700
FAX: (805) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@kerncounty.com



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Community Development Program Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

PERMIT TO CONSTRUCT UNDERGROUND STORAGE FACILITY

Permit# 330035M

FACILITY
Texaco Gas Station
9069 Grapevine Road
Lebec, CA

OWNER(S) NAME/ADDRESS:
Texaco USA
10 Universal City Plaza
Universal City, CA 91608

Phone No. 818-505-2427

CONTRACTOR:
K. E. Curtis, Inc.
1400 Old Conejo Road
Newberry Park, CA
License # A 293700
Phone No. 805-499-0428

__ NEW BUSINESS
__ CHANGE OWNERSHIP
__ RENEWAL
X MODIFICATION
__ OTHER

PERMIT EXPIRES 11-1-98

APPROVAL DATE 8-1-98

APPROVED BY _____
Brian Pitts
Hazardous Materials Specialist

. . . . . **POST ON PREMISES** . . . . .

CONDITIONS AS FOLLOW:

Standard Instructions

1. This permit applies only to the modification of an existing facility involving installation of double-walled piping, leak detection for automatic shut-off, and product-tight spill box on waste oil tank.
2. All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.
3. All equipment and materials in this construction must be installed in accordance with all manufacturers' specifications.
4. Permittee must contact Permitting Authority for on-site inspection(s) with 48-hour advance notice.
5. Backfill material for piping and tanks to be as per manufacturers' specifications.
6. Construction inspection record card is included with permit given to Permittee. This card must be posted at job site prior to initial inspection. Permittee must contact Permitting Authority and arrange for each group of required inspections numbered as per instructions on card. Generally, inspections will be made of:
   a. Tank and backfill
   b. Piping system with secondary containment
      leak interception/raceway
   c. Overfill protection and leak detection/monitoring
   d. Any other inspection deemed necessary by Permitting Authority.

Standard Instructions

Permit No. 330035M

7. All underground metal connections (e.g. piping, fitting, fill pipes) to tank(s) must be electrically isolated and wrapped to a minimum 20 mil thickness with corrosion-preventive, gasoline-resistant tape or otherwise protected from corrosion.

8. Primary and secondary containment of both tank(s) and underground piping must not be subject to physical or chemical deterioration due to the substance(s) stored in them. Documentation from tank, piping, and seal manufacturers of compatibility with these substance(s) must be submitted to Permitting Authority prior to construction.

9. The following equipment and materials must be identified by manufacturer and model prior to their installation:
   ___ Tank liquid level gauge(s)
   ___ Tank secondary containment automatic monitoring system(s)
   ___ Sealer used to secure fill box(es)

10. No product shall be stored in tank(s) until approval is granted by the Permitting Authority.

11. If necessary, the product-piping liner shall be inspected and/or repaired by a trained and experienced liner contractor.

12. This Department must be notified at least two working days before the liner is uncovered. An inspection of the liner shall be conducted by this Department to determine if product has leaked into the liner. If evidence indicates that product is or has been in the liner, then soil sampling below the liner, dispenser pans, or any other point deemed necessary by this Department may be required. If the facility owner decides to replace the existing piping (and liner) with double-walled piping, that modification can be performed under this permit.

13. The liner must be continuously monitored and connected to an alarm that also automatically shuts off the turbines..

14. Monitoring requirements for this facility will be described on final "Permit to Operate."

ACCEPTED BY: _____ DATE: 9/28/98

.m24

KERN COUNTY DEPARTMENT OF
ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
CHARLES LACKEY, P.E., DIRECTOR

JOB CARD
CONSTRUCTION PERMIT

2700 "M" STREET, SUITE 570
BAKERSFIELD, CA 93301-2370
PHONE (805) 862-8681

1	Job Address	9069 GRAPEVINE RD WEST	Insp. Area	ZM	Map / Lot / Block
	Assessor's Parcel No.	241-280-0007-00	61	219-00	

2 Project Description: ELECT W/UG FUEL TANK RETROFIT — Permit # 73340

3 Permit Class (New/Add or Alter/Conversion/Remodel): NEW CONSTRUCTION

4 Property Owner(s) 1. TEJON RANCH CO — 2.
Mailing Address: P O BOX 1000 — City/State: LEBEC CA
Phone Number: 1-805-327-8481 — Zip Code: 93243-0000

5 Architect/Engineer — License#
Mail Address — Phone#

6 Contractor's Name: OWNER — Hiring Licensed Contractor's (Y/N)
Mailing Address — City/State
Phone Number — Cont. St. Lic.#

7 Project Manager: K.E. CURTIS CONST
Phone Number: 1-805-499-0428

ZONE CLASSIFICATION: C 2 PD
APPROVED PER PLAN AS FOLLOWS: ELECT. ASSOC. W/UG FUEL TANK RETROFIT

8 C.S.A. #

9 School Dist. # 84

10 Comments: AT EXIST GAS STATION 0000000

11 Census Code # 199

12 Census Tract # 33.02

Cen # Sub Code	Census Number Description	A/D/Y	A/D/Y PER UNITS	BVD CODE	UNITS Per Bldg	BLDG.
M	MISC. "INSTALL" PERMITS	Y			1	1

By: KW — Date: 7-22-98

Ref. Case #

Total Area | Total Value/Yards

THE FOLLOWING PRELIMINARY FEES ARE SUBJECT TO CHANGE BEFORE PERMIT ISSUANCE:

	FEE	PAID
ELECTRICAL PERMIT FEES	12.00	Y
APPLICATION ISSUANCE FEE	23.00	Y
ADMINISTRATIVE	2.50	Y

*PARTIAL PAYMENT

TOTAL FEES	37.50
AMOUNT PAID	37.50
BALANCE	.00

Application Number: 73340
Application Date: 7/22/98
Issuance Date: KAW 7/22/98
Activity Code: P
Activity Date: 7/22/98 WS-ID

REMARKS

Date

APPLICATION PAID OUT

Building Insp. 580 2625 010 (Rev. 7-97)

COUNTY DEPARTMENT OF
ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
CHARLES LACKEY, P.E., DIRECTOR

INSPECTION RECORD

POST CARD AT JOBSITE

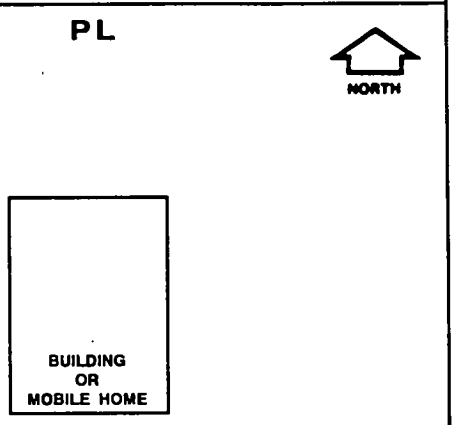
BAKERSFIELD AREA INSPECTION REQUESTS ONLY
8 am - 5 pm 862-8681
After Hours 862-8698
(10:00 a.m. cutoff for same day inspections. Inspections requested after 10:00 a.m. will be conducted on the next business day.)

	Inspection	Date	Inspector
GROUND WORK	Grading		
	Set Backs		
	Underground Elec.		
	Underground Plb.		
	Underground Mech.		
	Address Verification		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
FOUNDATION	Slab Mesh		
	Slab Membrane		
	Rebar for Grounding		
	Reinforcing Steel		
PLACE NO CONCRETE FOR FLOOR UNTIL ABOVE HAS BEEN SIGNED			
FLOOR WALL ROOF FRAMING	Floor Joists		
	Floor Sheathing		
	Rough Electrical		
	Plumbing Top-out		
	Fire Sprinkler System		
	Shower Pan		
	Grease Trap		
	Rough Mechanical		
	Roof Sheathing		
	Structural		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
STUCCO PLASTER WALLBOARD SIDING	Roofing		
	Interior Lathing		
	Exterior Lathing / Siding		
	Dry Wall		
	Exterior Membrane		
	Wall Insulation		
	Attic Ventilation		
DO NOT PLASTER OR APPLY SIDING UNTIL ABOVE HAS BEEN SIGNED			
SEWAGE DISPOSAL DRY SEWER WET SEWER SEPTIC SYS	First Inspection		
	Sewer Line		
	Septic Tank		
	Seepage Pit		
	Leach Field		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
MASONRY AND CONCRETE WALLS	Foundation Steel		
	Wall Reinforcing		
	Bond Beam		
	Fire Place Reinforcing		
	Fire Place		
	Wood Stove		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			
SWIMMING POOL	Location		
	Steel		
	Conduit under deck		
	Recirculation piping		
	Electrical wiring		
	Gas line under deck		
	Fencing & Gates		
COVER NO WORK UNTIL ABOVE HAS BEEN SIGNED			

ENGINEERING & SURVEY SERVICES
BUILDING INSPECTION DIVISION
Main Office
2700 M Street, Suite 570, Bakersfield, California 93301-2370
Phone (805) 862-8650 Office Hours 8:00-5:00

Branch Offices

Frazier Park Office - Fire Station	Ph. 245-1221 Office Hours 7:00-10:00 M,T,Th,F
Lake Isabella Office - 7050 Lake Isabella Blvd.	Ph. (760) 379-2631 Office Hours 7:00-4:00
McFarland Office - 401 West Kern St.	Ph. 792-3091 Office Hours 8:00-9:00M-Th.
Mojave Office - 1775 Hwy. 58	Ph. 824-3906 Office Hours 7:00-12:00
Ridgecrest Office - 400 N. China Lake Blvd.	Ph. (760)375-1564 Hours 8:00-11:00 TF
Taft Office - 315 Lincoln Street	Ph. 763-8590 Office Hours 8:00-10:00 W
Tehachapi Office - 125 East "F" Street	Ph. 822-6329 Office Hours 7:00-4:00



PROJECT ADDRESS: _____

ASSESSOR'S PARCEL NUMBER: _____ - _____ - _____

*** SINGLE FAMILY RESIDENTIAL CERTIFICATE OF OCCUPANCY**

Inspection	Date	Inspector
Temp Elec.		
Temp Gas		

PRE-FINAL APPROVALS

Inspection	Date	Inspector
Health Department		
Road Department		
Grading		
Drainage		
Landscaping		
C.U.P. Requirements		
P.D. Requirements		

	Inspection	Date	Inspector
FINAL	Gas pressure test		
	Electrical final		
	Plumbing final		
	Mechanical final		
	Structural final		
	Energy final		
	Zoning requirements		
	Insulation requirements		
	Fire Requirements		
*	Job complete		

*** RESIDENTIAL PERMITS: THIS JOB CARD SERVES AS YOUR CERTIFICATE OF OCCUPANCY.**

KERN COUNTY
ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301

PERMIT NO. 330035M
APN NUMBER
APPLICATION DATE: 7-20-98

APPLICATION FOR PERMIT TO CONSTRUCT/MODIFY UNDERGROUND HAZARDOUS SUBSTANCES STORAGE FACILITY

Type Of Application (check):
☐ New Facility ☒ Modification of Facility ☐ New Tank Installation at Existing Facility

A. Number of Tanks To Be Installed _____ Existing Facility Permit # _____
Type of Business GAS STATION
Facility Name TEXACO STATION
Address 9069 GRAPEVINE RD City LEBEC
T____ R____ SEC____ (Rural Locations Only) Nearest Cross Street "D" ST

B. Tank Owner TEXACO Phone #: 818-505-2427
Address 10 UNIVERSAL CITY PLZ 10TH FL City/State UNIVERSAL CITY/CA Zip 91608

C. Water To Facility Provided By _____
Depth To Groundwater _____ Soil Characteristics At Facility _____

D. Contractor K.E. CURTIS CONST CA Contractor's License No. 293700
Address 14000 OLD CONEJO RD City NEWBURY PARK Zip 91320 Phone # 805-499-0428
Worker's Compensation Certification # W97A146901 Insurer CALIF. COMP.
Proposed Starting Date 8-1-98 Proposed Completion Date 9-1-98

E. If This Application Is For Modification Of An Existing Tank System, Briefly Describe Modifications Proposed (Excluding New Tank Installation at Existing Facilities) UP GRADE (FSW) LINE LEAK DETECTION FOR AUTOMATIC SHUT-OFF. VERIFY OVERFILL PROTECTION INSTALL SPILL BOX AT WASTE OIL TANK.

F. Tank(s) Storage (Check All That Apply):

Tank #	Unleaded	Unleaded Plus	Premium	Diesel	Other* Fuel	Waste Oil	Other* Waste	Other* Product
_____	( )	( )	( )	( )	( )	( )	( )	( )
_____	( )	( )	( )	( )	( )	( )	( )	( )
_____	( )	( )	( )	( )	( )	( )	( )	( )
_____	( )	( )	( )	( )	( )	( )	( )	( )

* Describe other products/waste: _____

G. Initial Tank Integrity Test Information:
Testing Company Name: _____ Phone # _____
Test Method: _____ Licensed Tester: _____

A tank integrity test is not required if the tank is equipped with an interstitial monitor certified to meet the performance standards of a "tank integrity test."

This form has been completed under penalty of perjury and to the best of my knowledge is true and correct.
Signature _____ Title CONTRACTOR Date 7-17-98
818 842-3644

HM36 (1/29/96)

Kern County Fire Department

5642 Victor Street • Bakersfield, CA 93308
Telephone 805-391-7000 • Fax 805-399-2915
TTY Relay Service 1-800-735-2929

Fire Chief
DANIEL G. CLARK

Deputy Chiefs
DENNIS L. THOMPSON, FINANCE
ROBERT OXFORD, OPERATIONS
STEPHEN A. GAGE, OPERATIONS
LeCOSTEL HAILEY, OPERATIONS
CARY L. ECKARD, LOGISTICS

_____

_____

_____

( ) **For Information Only**

Plans have been checked in accordance with:

(X) U.F.C. 1994 ( ) Title 19
Article 52
( ) Title 24
( ) U.B.C. 19__
( ) Other:_____

DATE: 7-21-98

PERMIT NO.: 330035-M

JOB ADDRESS:_____

_____

OWNER:_____

OCCUPANCY:_____

TYPE CONSTRUCTION:_____

FLOOR AREA: ACTUAL_____

ALLOWABLE:_____

OCCUPANT LOAD:_____

MEET ALL OF THE FOLLOWING REQUIREMENTS

COMPLIANCE LIST: **Dispensers and Other Related Equipment with Underground Tanks**
(Use with Health Department Plan Review Process for Underground Tanks)

1. Dispensing devices shall be located as follows:

   a. Ten feet (3048 mm) or more from property lines,
   b. Ten feet (3048 mm) or more from buildings having combustible exterior wall surfaces or buildings having noncombustible exterior wall surfaces that are not part of a one-hour fire-resistive assembly,
      Exception: Canopies constructed in accordance with the Building Code.
   c. Such that all portions of the vehicle being fueled will be on the premises of the motor vehicle fuel-dispensing station,
   d. Such that the nozzle, when the hose if fully extended, will not reach within 5 feet (1524 mm) of the building openings, and
   e. Twenty feet (6096 mm) or more from fixed sources of ignition. (5201.4.1.2)

2. Post conspicuous signs prohibiting smoking, dispensing into unapproved container, to stop engine and the location of emergency shut-off switch. (5201.8)
Emergency shut-off switch shall be within 75 feet of but not less than 25 feet from dispensers. (5201.5.3)

3. Dispensing devices shall be in clear view of the attendant with no obstacles placed between the attendant and the dispensers (5202.4.7)

4. The attendant shall at all times to be able to communicate with the person in the dispensing areas (5202.4.7 (5))

5. Provide fire extinguishers (2A20BC between 15 to 75 feet from dispensers. (5201.9 see UFC Standards)

6. Flexible joints shall be installed in accordance with Section 7901.11.7. An approved shear joint shall be rigidly mounted and connected by a union in the vapor-return piping at the base of each dispensing device. The shear joint shall be mounted flush with the top of the surface on which the dispenser is mounted (5202.12.2.4)

7. Flexible joints and emergency shutoff impact valves shall be installed in accordance with Section 7901.11.7. An approved emergency shutoff impact valve incorporating a fusible-link designed to close automatically in event of severe impact or fire exposure shall be rigidly mounted and connected by a union in the vapor-return line at the base of each dispensing device. The shear section of the valve shall be mounted flush with the top of the surface on which the dispenser is mounted. (5202.12.3.5)

8. An electrical disconnect switch shall be provided for all dispensers in accordance with the Electrical Code. The disconnect shall be placed in the OFF position before repairing dispensers and before closing a motor vehicle fuel-dispensing station (5201.5.4)

9. Approved fire checks or other positive means of automatic isolation of underground storage tanks shall be installed in vapor-return piping to prevent a flashback from reaching the underground tanks. Such devices also shall be installed in all vapor/air piping as close as practical to each burner or group of burners in a vapor incineration unit, and in all vapor-transfer piping as close as practical to refrigeration, absorption of similar types of processing equipment. (5202.12.3.8)

10. Vents from vapor-processing units shall not be less than 12 feet (3658 mm) aboveground level and not less than 8 feet (2438 mm) above the processing in itself. Vent outlets shall be directed and located such that flammable vapors will not accumulate, travel to an unsafe location or enter buildings. (5202.12.3.9)

11. Written records of maintenance, tests, inspections, and the results and recommendations therefrom, shall be maintained on the premises where the equipment is located, and shall be made available to the chief on request. Incidents involving leaks, fires, explosions, overheating or requiring shutting down equipment, other than for routine maintenance or tests, shall be immediately reported to the fire department. (5201.12.3.12)

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

II. INSTALLATION (mark all that apply): 1991

- [x] The installer has been certified by the tank and piping manufacturers.
- [ ] The installation has been inspected and certified by a registered professional engineer.
- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / [signature] Date 12/12/91

Print Name TEXACO REFG & MRKTG INC./ G.Y. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	000	01615 6	00001

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

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- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / G.Y. Wing Date 12/12/91

Print Name TEXACO REFG & MRKTG INC. / G.Y. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	000	01656	000002

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

II. INSTALLATION (mark all that apply): 1991

- [x] The installer has been certified by the tank and piping manufacturers.
- [ ] The installation has been inspected and certified by a registered professional engineer.
- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / G.Y. Wing Date 12/12/91

Print Name TEXACO REFG & MRKTG INC./ G.Y. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	000	016156	000003

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

II. INSTALLATION (mark all that apply): 1991

- [x] The installer has been certified by the tank and piping manufacturers.
- [ ] The installation has been inspected and certified by a registered professional engineer.
- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / G.Y. Wing Date 12/12/91

Print Name TEXACO REFG & MRKTG INC./ G.Y. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	000	01/61/56	000004

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

II. INSTALLATION (mark all that apply):

1991

- [x] The installer has been certified by the tank and piping manufacturers.
- [ ] The installation has been inspected and certified by a registered professional engineer.
- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / G.Y. Wing Date 12/12/91

Print Name TEXACO REFG & MRKTG INC./ G.Y. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	009	01615 6	000005

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

CERTIFICATION OF COMPLIANCE
FOR UNDERGROUND STORAGE TANK INSTALLATION

FORM C

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

I. SITE LOCATION

STREET 9069 Grapevine & I-5

CITY Lebec COUNTY Kern

K.E. Curtis Construction Co.
P.O. Box 4977
Thousand Oaks, Ca 91359

II. INSTALLATION (mark all that apply): 1991

- [x] The installer has been certified by the tank and piping manufacturers.
- [ ] The installation has been inspected and certified by a registered professional engineer.
- [x] The installation has been inspected and approved by the implementing agency.
- [x] All work listed on the manufacturer's installation checklist has been completed.
- [x] The installation Contractor has been certified or licensed by the Contractors State License Board.
- [ ] Another method was used as allowed by the implementing agency. (Please specify.)

III. OATH I certify that the information provided is true to the best of my belief and knowledge.

Tank Owner/Agent TRMI / G.V. Wing Date 12/12/91

Print Name TEXACO REFG & MRKTG INC. / G.V. Wing Phone (818) 505-2024

Address 10 UCP, Universal City, Ca 91608

LOCAL AGENCY USE ONLY

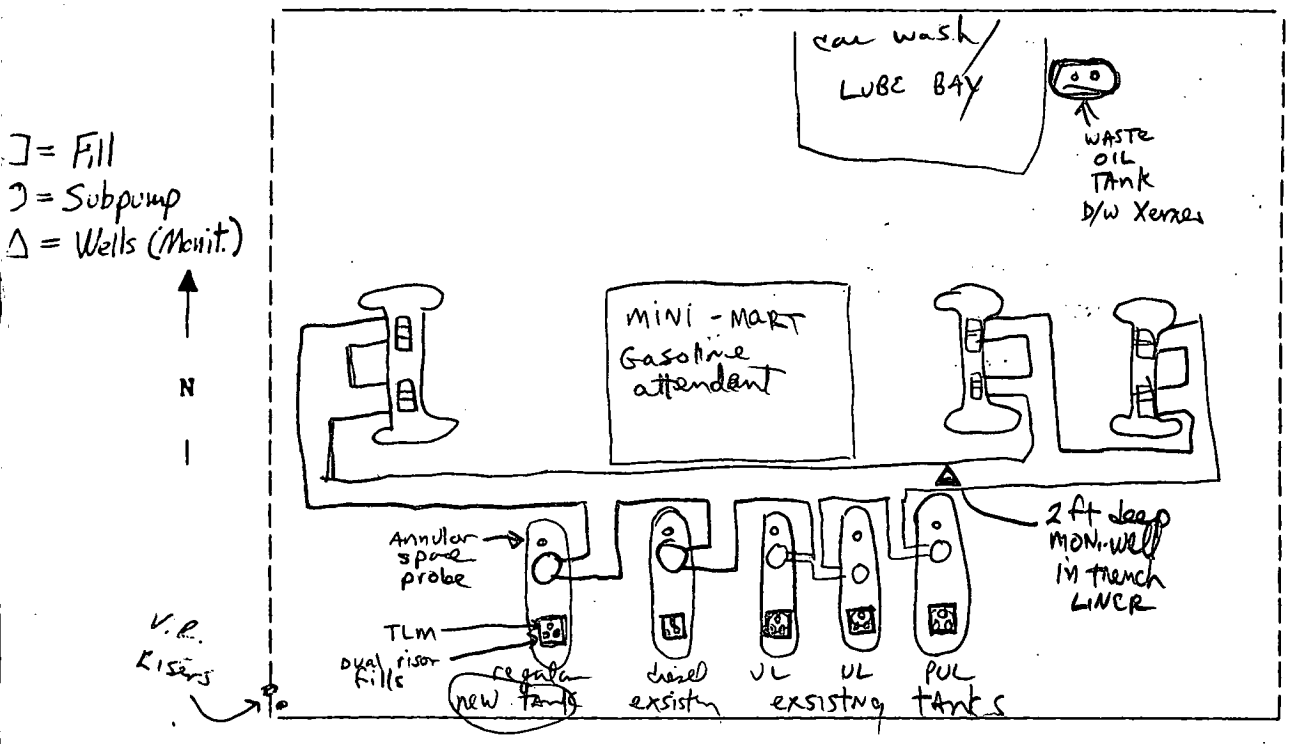
STATE TANK I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	15	000	01/6/56	000006

FORM C (7/91) THIS FORM MUST BE ACCOMPANIED BY PERMIT APPLICATION FORMS A & B UNLESS THEY HAVE BEEN FILED PREVIOUSLY FOR0035C7

Permits # 330035
Facility Name Texaco # 61-058-0050

Inspector C. Finberg
Date

FINAL INSPECTION CHECKLIST



Plot Diagram

Plot plan notes Regular tank is only

		Yes	No
1.	All new and existing tanks located on plot plan?	X	
2.	Does tank product correspond to product labels on plot plan?	X	
3.	Was there no modifications identified which were not depicted on the plot plans? If "No" described	X	
4.	Are monitoring wells secure and free of water and product in sump?	X	
5.	Is piping system pressure, suction or gravity?	pressure	

	Yes	No
6. Are Red Jacket subpumps and all line lea det tor accessible?	X	
Type of line leak detector if any Red Jacket XL		
7. Overfill containment box as specified on application?	X	
If "No", what type and model number:		
a) Is fill box tightly sealed around fill tube?	X	
b) Is access over water tight?	X	
c) Is product present in fill box?		X
8. Identify type of monitoring: Veeder Root TLS 350 18 probes.		
a) Are manual monitoring instruments, product and water finding paste on premises?		
b) Is the fluid level in Owens-Corning liquid level monitoring reservoir and alarm panel in proper operating condition?	X	
c) Does the annular space or secondary containment liner leak detection system have self diagnostic capabilities?	X	
If "Yes", is it functional	X	
If "No", how is it tested for proper operating condition?		
9. Notes on any abnormal conditions:		

12/9/91

Diesel Sump

KERN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
HAZARDOUS SUBSTANCES SECTION

Kern County Environmental
Health Services Department
2700 "M" Street, Suite 3(
Bakersfield, CA 93301

(805) 861-3636

INSPECTION RECORD

POST CARD AT JOBSITE

FACILITY Texaco #61-058-0050 PERMIT # 330035	OWNER Texaco Refining and Marketing, Inc.
ADDRESS 9069 Grapevine @ I-5	ADDRESS 10 Universal City Plaza
CITY Grapevine, CA	CITY Universal City, CA 91608-1097
PHONE NO.(818) 505-2024	

INSTRUCTIONS: Please call for an inspector only when each group of inspections with the same number are ready. They will run in consecutive order beginning with number 1. DO NOT cover work for any numbered group until all items in that group are signed off by the Permitting Authority. Following these instrutions will reduce the number of required inspection visits and therefore prevent assessment of additional fees.

- TANKS & BACKFILL -

	INSPECTION	DATE	INSPECTOR
1	Backfill of Tank(s)	10/21/91	Rea Gravel
	Spark Test Certification		
	Cathodic Protection of Tank(s)		
1	Pressure test of tanks on delivery	N/A	
1	Recertification of waste oil tank	10/24/91	

- PIPING SYSTEM -

2	Piping & Raceway w/Collection Sump	10/24/91	
	Corrosion Protection of Piping, Joints, Fill Pipe		
	Electrical Isolation of Piping From Tank(s)		
	Cathodic Protection System-Piping		
2	Pressure test of primary piping	10/21/91	

- SECONDARY CONTAINMENT, OVERFILL PROTECTION, LEAK DETECTION -

	Liner Installation - Tank(s)		
2	Liner Installation - Piping - Soap test with vacuum	10/21/91	
	Vault With Product Compatible Sealer		
3	Level Gauges or Sensors, Float Vent Valves	12/9/91	
3	Product Compatible Fill Box(es)	12/2/91	
3	Product Line Leak Detector(s)	12/9/91	
3	Leak Detector(s) for Annular Space-D.W. Tank(s)	12/2/91	
	Monitoring Well(s)/Sump(s)		
	Leak Detection Device(s) For Vadose/Groundwater		
3	Electrical conduit seal-off	12/2/91	

- FINAL -

3	Monitoring Wells, Caps & Locks	12/9/91	
3	Fill Box Lock	N/A	
3	Monitoring Requirements	12/2/91	
4	Fire Department inspection		

CONTRACTOR K. E. Curtis Construction Co., Inc LICENSE # A 517831
CONTACT _____ PH # _____

AMERICAN LINING COMPANY

3430 Gilmore Avenue • Bakersfield, CA 93308
805/325-5452 FAX 805/325-2529

VACUUM TESTING CERTIFICATION

THIS IS TO VERIFY THAT ON THIS DATE 10-17-91

AMERICAN LINING COMPANY INSTALLED AND TESTED A TRENCH

LINING SYSTEM FOR TEXACO

LOCATED AT GRAPE VINE & I-5

AMERICAN LINING COMPANY HAS INSPECTED THE LINING SYSTEM AND VACUUM TESTED THE EXTRUSION WELDED SEAMS AND HAVE FOUND THEM TO BE FLUID TIGHT AND IN ACCORDANCE WITH PLANS AND SPECIFICATIONS OF THIS PROJECT.

SIGNED Joe C. Salazar

TITLE FIELD SUPERINTENDENT

DATE 10-17-91

AMERICAN LINING COMPANY

SIGNED

TITLE Supt. KE Curtis Const.

DATE 10/24/91

CONTRACTOR/COMPANY

AMERICAN LINING COMPANY

3430 Gilmore Avenue • Bakersfield, CA 93308
805/325-5452 • FAX 805/325-2529

OCTOBER 21, 1991

TO WHOM IT MAY CONCERN:

AMERICAN LINING COMPANY IS THE MANUFACTURE AND INSTALLER OF THEIR OWN TRENCH SYSTEMS AND CONTAINMENT SUMPS.

AMERICAN LINING COMPANY GUARANTEES AND STANDS BEHIND THEIR TRENCH SYSTEMS AND CONTAINMENT SUMPS 100%, IN WELDING AND TESTING CERTIFICATION.

Richard D. Maggio

RICHARD DIMAGGIO
OPERATIONS MANAGER

XERXES® XERXES® XERXES® XERXES® XERXES® XERXES®

XERXES®
CORPORATION

Notice of Tank Recertification

Customer Texaco U.S.A.
Gerry Wing, Engineering
818/505-2024

Date September 23, 1991

Contact Jim Guttry
K.E. Curtis Construction
305/499-0428

*Date of Recertification September 23, 1991

Location 9069 Grapevine Road
Grapevine, California

S. A. Number

Tank Size(s) 4' Dia. 550 Gal. Double Wall

UL No. 183322

Repairs NONE

New Location of Tank(s) Same

*On the above date, Xerxes Corporation dispatched an authorized repair crew to inspect and recertify the Underground Storage Tank(s) listed above.

The repair work was done in accordance with Xerxes' repair procedures using UL listed materials, or materials approved by Xerxes.

These tanks were air tested in accordance with appropriate Xerxes tank installation publications and will continue to be covered under its warranty.

NOTE: The warranty on these tanks will not start anew; however, it will continue for the duration stated in the original warranty based on the date of original purchase. This warranty will be in effect as long as the tanks are installed in accordance with Xerxes' written specifications and published installation instructions. You should always consult state and local codes when installing Underground Storage Tanks.

Roland Fribourghouse
authorized signature

Roland Fribourghouse, General Manager

September 23, 1991
date

XERXES® XERXES® XERXES® XERXES® XERXES® XERXES®

RESOURCE MANAGEMENT AGENCY

RANDALL L. ABBOTT
DIRECTOR

DAVID PRICE III
ASSISTANT DIRECTOR

Environmental Health Services Department
STEVE McCALLEY, REHS, DIRECTOR

Air Pollution Control District
WILLIAM J. RODDY, APCO

Planning & Development Services Department
TED JAMES, AICP, DIRECTOR

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

PERMIT TO CONSTRUCT UNDERGROUND STORAGE FACILITY

PERMIT NUMBER 330035

FACILITY
Texaco #61-058-0050
9069 Grapevine/I-5
Grapevine, CA

OWNER(S) NAME/ADDRESS:
Texaco Refining & Marketing
10 Universal City Plaza
Universal City, CA 91608-1097

Phone No. (818) 505-2024

CONTRACTOR:
K.E. Curtis Construction Co., Inc.
1400 Old Conejo Road
Newbury Park, CA 91320
License # A 517831
Phone No. (805) 499-0428

X NEW BUSINESS
___ CHANGE OWNERSHIP
___ RENEWAL
___ MODIFICATION
___ OTHER

PERMIT EXPIRES September 13, 1992

APPROVAL DATE September 13, 1991

APPROVED BY

Chris Finberg
Hazardous Materials Specialist

POST ON PREMISES

CONDITIONS AS FOLLOW:
Standard Instructions

1. This permit applies only to the modification of an existing facility involving installation of one (1) double-walled UST, the relocation of one existing waste oil tank and the construction of new dispenser islands.
2. All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.
3. All equipment and materials in this construction must be installed in accordance with all manufacturers' specifications.
4. Permittee must contact Permitting Authority for on-site inspection(s) with 48-hour advance notice.
5. Backfill material for piping and tanks to be as per manufacturers' specifications.
6. Float vent valves are required on vent/vapor lines of underground tanks to prevent overfilling.
7. Construction inspection record card is included with permit given to Permittee. This card must be posted at job site prior to initial inspection. Permittee must contact Permitting Authority and arrange for each group of required inspections numbered as per instructions on card. Generally, inspections will be made of:
   a. Tank and backfill
   b. Piping system with secondary containment
      leak interception/raceway
   c. Overfill protection and leak detection/monitoring
   d. Any other inspection deemed necessary by Permitting Authority.

8. All underground metal connections (e.g. piping, fitting, fill pipes) to tank(s) must be electrically isolated and wrapped to a minimum 20 mil thickness with corrosion-preventive, gasoline-resistant tape or otherwise protected from corrosion.
9. Primary and secondary containment of both tank(s) and underground piping must not be subject to physical or chemical deterioration due to the substance(s) stored in them. Documentation from tank, piping, and seal manufacturers of compatibility with these substance(s) must be submitted to Permitting Authority prior to construction.
10. Spark testing (35,000 volts) required at site prior to installation of tank(s). Test(s) must be certified by the manufacturer and a copy of test certification supplied to the Permitting Authority.
11. The vacuum gauge for each tank must have a secured access point for periodic leak monitoring and for vacuum system maintenance.
12. The following equipment and materials must be identified by manufacturer and model prior to their installation:
    ___ Tank liquid level gauge(s)
    ___ Tank secondary containment automatic monitoring system(s)
    ___ Sealer used to secure fill box(es)
    ___
13. No product shall be stored in tank(s) until approval is granted by the Permitting Authority.
14. Contractor must be certified by tank manufacturer for installation of fiberglass tank(s), or tank manufacturer's representative must be present at site during installation.
15. Liner shall be installed by a trained experience liner contractor and installation at site approved by the Permitting Authority.
16. Monitoring requirements for this facility will be described on final "Permit to Operate."
17. Monitoring wells on "Typical Drawings" are not allowed unless monitoring probes are installed and functioning. Construction must be in accordance with Hazardous Materials Management Program standards as per UT-50.
18. Purging/Inerting Conditions:
    a. Liquid shall be pumped from tank prior to purging such that less than 8 gallons of liquid remain in tank (CSH&SC 41700).
    b. Tank shall be purged through vent pipe discharging at least 10 feet above ground level (CSH&SC 41700).
    c. No emissions shall result in odors detectable at or beyond property line (Rule 419).
    d. Vent lines shall remain attached to tank until the inspector arrived to authorize removal.
19. All tanks to be reinstalled on site must be inspected and certified by the manufacturer.
20. All underground storage tank systems must pass a tank integrity test prior to operation.

ACCEPTED BY: David Cook DATE: 9-13-91

CF:cas

\330035.ptc

Standard Compliance Check

Facility: Texaco #61-058-0050 CT 330035

Equipment to be installed:

2 Tank(s), 255 Ft. of ☐ Suction ☒ Pressurized ☐ Gravity, Piping

Req'd	Approved	
✓	✓	Proof of Contractor's License - License # 517831 exp. 10/91
		Type of License A
✓	✓	Proof of Contractor's Worker's Compensation Insurance
✓		Primary Containment
		☑ Fiberglass (FRP) Make & Model O/C (W.O.I.L. Xerxes) 1985
		☐ Fiberglass-clad steel Make & Model
		☐ Uncoated steel Make & Model
		☐ Other: _____ Make & Model
		Comment:
		Additional:
		Inspection:
✓		Secondary Containment of Tank(s)
		☑ Double-walled tank(s) Make & Model
		☐ Synthetic liner Make & Model
		☐ Lined concrete vault(s) Sealer used
		☐ Other Type _____ Make & Model
		Comment:
		Additional:
		Inspection:
✓		Secondary Containment Volume at Least 100% of Primary Tank Volume(s)
		Comment:
		Additional:
		Inspection:
N/A	N/A	Secondary Containment Volume for More Than One Tank Contains 150% of Volume of Largest Primary Containment or 10% of Aggregate Primary Volume, Whichever is Greater
		Comment:
		Additional
		Inspection:

Req'd	Approved	
N/A	N/A	Secondary Containment Open to Rainfall Must Accommodate _____ Hour Rainfall Total Volume _____ Comment: _____
		Additional: _____
		Inspection: _____
✓		
		Secondary Containment is Product-Compatible Product _____ Documentation _____
		Comment: _____
		Additional: _____
		Inspection: _____
		Annular Space Liquid is Compatible with Product Product _____ Annular liquid _____
		Comment: _____
		Additional: _____
		Inspection: _____
✓		
		Primary Containment of Piping ☐ Fiberglass piping Size & Make _____ ☐ Coated steel piping Size & Make _____ ☐ Uncoated steel piping Size _____ ☐ Other _____
		Comment: _____
		Additional: _____
		Inspection: _____
✓		
		Secondary Containment of Piping ☐ Double-walled pipe Size & Make _____ ☐ Synthetic liner in trench Size & Make _____ ☐ Other _____
		Comment: _____
		Additional: _____
		Inspection: _____
N/A	N/A	Corrosion Protection ☐ Tank(s) _____ ☐ Piping & fittings _____ ☐ Electrical isolation _____
		Comment: _____
		Additional: _____
		Inspection: _____
✓		
		Manufacturer-Approved Backfill for Tanks & Piping Type _____ Comment: _____

Req'd	Approved	
____	____	Additional: _____
____	____	Inspection: _____
✓	____	Tank(s) Located no Closer than 10 Feet to Building(s)
____	____	Comment: _____
____	____	Additional: _____
____	____	Inspection: _____
✓	____	Complete Monitoring System

Monitoring device within secondary containment:

- ☐ Liquid level indicator(s) _____
- ☐ Liquid used _____
- ☐ Thermal conductivity sensor(s) _____
- ☐ Pressure sensor(s) _____
- ☐ Vacuum gauge _____
- ☐ Sump(s) _____
- ☐ Gas or vapor detector(s) _____
- ☐ Manual inspection & sampling _____
- ☐ Visual inspection _____
- ☐ Other _____

____	____	Comment: _____
____	____	Additional: _____
____	____	Inspection: _____
____	____	Other Monitoring

- ☐ Periodic tightness testing Method _____
- ☐ Pressure-reducing line leak detector(s) _____
- ☐ Other _____

____	____	Comment: _____
____	____	Additional: _____
____	____	Inspection: _____
✓	____	Overfill Protection

- ☐ Tape float gauge(s) _____
- ☐ Float vent valve(s) _____
- ☐ Capacitance sensor(s) _____
- ☐ High level alarm(s) _____
- ☐ Automatic shut-off control(s) _____
- ☐ Fill box(es) with 1 ft. 3 volume _____
- ☐ Operator controls with visual level monitoring _____
- Other _____

____	____	Comment: _____

Req'd	Approved	
_____	_____	Additional: _____
_____	_____	Inspection: _____
_____	_____	Monitoring Requirements _____
		Additional Comments _____
_____	_____	Inspection: _____

Inspector _____ Date _____

Extra Inspections/Reinspections/Consultations

Date:

Purpose:

Comment:

Time Utilized _____

Date:

Purpose:

Comment:

Time Utilized _____

Date:

Purpose:

Comment:

Time Utilized _____

Date:

Purpose:

Comment:

Time Utilized _____

Date:

Purpose:

Comment:

Time Utilized _____

Invoice Date: _____ Total Time: _____

Inspector _____ Date: _____

Permit Application Checklist

Facility Name Texaco #61-058-0050

Facility Address 9069 Grapevine @ I-5

Application Category:
X Standard Design (Secondary Containment)
__ Motor Vehicle Fuel Exemption Design (Non-Secondary Containment)

Approved ✓

Permit Application Form Properly Completed

Deficiencies: ~~Name Contractor~~ K. E. Cuntz

3 Copies of Plot Plan Depicting:

✓ Property lines

✓ Area encompassed by minimum 100 foot radius around tank(s) and piping

✓ All tank(s) identified by a number and product to be stored

✓ Adequate scale (minimum 1"=16'0" in detail)

✓ North arrow

✓ All structures within 50 foot radius of tank(s) and piping

✓ Location and labeling of all product piping and dispenser islands

Environmental sensitivity data including:

__ *Depth to first groundwater at site

__ *Any domestic or agricultural water well within 100 feet of tank(s) and piping

__ *Any surface water in unlined conveyance within 100 feet of tank(s) and piping

__ *All utility lines within 25 feet of tank(s) and piping (telephone, electrical, water, sewage, gas, leach lines, seepage pits, drainage systems)

__ *Asterisked items: appropriate documentation if permittee seeks a motor vehicle fuel exemption from secondary containment

Comments:

Approved

✓ Copies of Construction Drawings Depicting:
Side View of Tank Installation with Backfill, Raceway(s), Secondary Containment and/or Leak Monitoring System in Place

✓ Top View of Tank Installation with Raceway(s), Secondary Containment and/or Leak Monitoring System in Place

A Materials List (indicating those used in the construction):

✓ Backfill pea gravel
✓ Tank(s) OTC dw FRP Tanks
✓ Product Piping FO Smart
✓ Raceway(s) Amerduct liner
N/A Sealer(s)
✓ Secondary Containment amerduct liner
✓ Leak Detector(s) red jacket 9000
✓ Overfill Protection OPW fill bores, fill vent valves.
✓ Gas or Vapor Detector(s) Red Jacket
✓ Sump(s) O/C
N/A Monitoring Well(s)
Additional:
Documentation of Product Performance

Additional Comments PTA must be ~~filled~~ filled concurrently

Reviewed By _____ Date 9/11/91

SITE INSPECTION: ___ Approved ___ Disapproved
Comments:

Inspector _____ Date _____

ENVIRONMENTAL HEALTH DIVISION
2700 M Street, Suite 300
BAKERSFIELD, CALIFORNIA 93301



HENLEY'S [06]170 0122 N N 1-22



HENLEY'S [01]170 0122 N N 1-22

HENLEY'S [04]20 0122 N 1-22



HENLEY'S [03]70 0122 N N 1-22



HENLEY'S [05]170 0122 N N 1-22



HENLEY'S [02]170 0122 N N 1-22



33035

HENNLEY'S [4323] N N 1-22


GARAGE

KINLEY'S CARROLL N.... N N 1-22

33003 5

Texas
Europe v I-5


Diesel

KODAK S.A. (1951) 11-22 2 NM 1-22

33035



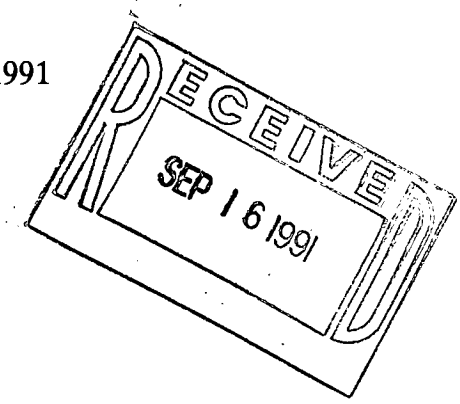
330035



FRED FIEDLER AND ASSOCIATES

2322 WEST THIRD STREET
LOS ANGELES, CALIFORNIA 90057-1906
PHONE: 213-381-7891
FAX: 213-381-1517

POF-8880
September 12, 1991



Kern County Resource Management Agency
Environmental Health Services Department
2700 "M" Street - Suite 300
Bakersfield, California 93301

Attn: Mr. Chris Finberg
Hazardous Materials Specialist
805/861-3636, Ext. 564

Subject: **TEXACO SERVICE STATION #61-058-0050**
9069 Grapevine Rd. W. @ I-5
Grapevine, California

Re: **Permit to Abandon/Permit to Construct**

Dear Mr. Finberg:

Per your letter dated September 11, 1991, we have the following information for the permit to abandon and permit to construct for the underground storage tank facility at the above mentioned location.

We have grouped the items to correspond with your letter.

1. **Worker's Compensation/General Liability Insurance**.

   As you indicated, you have already been in touch with K.E. Curtis Construction Company Inc. who has assured you that their insurance carrier will update the County's records prior to the expiration of the insurance on September 30, 1991. You have indicated this will not hold up permit issuance at this time.

2. **Waste Oil Tank Recertification**.

   Texaco will have the tank manufacturer's (Xerxes Corporation), test and recertify the waste oil tank when it has been removed from the ground and prior to the installation in its new location.

3. **Annular Space Probe**

The existing annular space probes will be replaced and substituted with probes that are compatible with the proposed Red Jacket PPM-9000 leak detection system.

4. **Potential Remediation Activities**.

Texaco understands that if any possible contamination is discovered during the removal of the waste oil tank and/or product piping on the existing facility, the remediation will be completed as reviewed and approved by Kern County Environmental Health Services Department. We understand the new construction activities may complicate the remediation effort and increase the cost of the clean-up.

Once again, I want to take this time to thank you for your effort with respect to this permit application. Greg Owens with Dewalt Corporation will be in contact with you Friday morning in order to pick up the permit in order to place this facility under construction on **Monday, September 16, 1991.**

If you have any questions or need any additional information, please do not hesitate to contact me.

Very truly yours,

Patrick O. Fiedler
Vice President

POF/sh

cc: Doug Elston, Texaco Refining & Marketing Inc. - UCP
Gary Wing, Texaco Refining & Marketing Inc. - UCP
Bob Cannon, K.E. Curtis Construction Company, Inc.
Don Murashima, Xerxes Corporation

-41000
-4100

875 South Central AVE.

RESOURCE MANAGEMENT AGENCY

RANDALL L. ABBOTT
DIRECTOR

DAVID PRICE III
ASSISTANT DIRECTOR



Environmental Health Services Department
STEVE McCALLEY, REHS, DIRECTOR

Air Pollution Control District
WILLIAM J. RODDY, APCO

Planning & Development Services Department
TED JAMES, AICP, DIRECTOR

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

September 11, 1991

TO: Pat Fiedler
Fiedler and Associates

FROM: Chris Finberg
Hazardous Materials Specialist
Environmental Health Services Department

RE: Texaco Service Station #61-058-0050
Located at 9069 Grapevine @ I-5

This Department is currently reviewing the applications for Permit to Abandon and Permit to Construct submitted for the underground storage tank facility noted above.

At this time, this Department is concerned with the following issues or application deficiencies regarding these permits:

1. Updated expiration date information will be required for contracting license as well as workers compensation and general liability insurance for K.E. Curtis Construction Co., Inc. These documents will currently expire September 30, 1991.

2. A statement will be needed from Texaco that the waste oil tank will be certified by the manufacturer (Xerxes, Inc.) to be approved for reinstallation on the above-noted site and that all warranties will be valid and approved or a new waste oil tank must be used in the installation, pending prior approval by Kern County Environmental Health Services Department.

3. Texaco must specify the make and model of annular space probe to be used in the waste oil tank on site, as well as the existing product tanks on site, with proof of probe compatibility to be the proposed Red Jacket PPM-9000 leak detection system.

4. Texaco must provide a statement that all potential remediation activities associated with possible contamination discovered during removal of the waste oil tank and/or product piping of existing facility will be completed as reviewed and approved by Kern County Environmental Health Services Department with the realization that new construction activities may complicate remediation and increase expense.

Upon satisfactory resolution of the conditions noted above, this Department will be able to approve the permit application for tank and piping removal and new construction as noted.

CF:cas

\fiedler.mem

ENVIRONMENTAL HEALTH DEPARTMENT
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301

PERMIT NO. 330035C
APN NUMBER 241-280-07
APPLICATION DATE 7-16-91

APPLICATION FOR PERMIT TO CONSTRUCT/MODIFY UNDERGROUND HAZARDOUS SUBSTANCES STORAGE FACILITY

Type Of Application (check):
( )New Facility (X)Modification of Facility (X)New Tank Installation at Existing Facility

A. Number of Tanks To Be Installed 1 Existing Facility Permit #
Type of Business Gasoline Service Station
Facility Name Texaco Service Station #61-058-0050
Address 9069 Grapevine @ I-5 City Grapevine, CA
T 10N R 19W SEC 8 (Rural Locations Only) Nearest Cross Street I-5

B. Tank Owner Texaco Refining and Marketing Inc. Phone #: 818/505-2024
Address 10 Universal City Plaza City/State Universal City, CA Zip 91608-1097

C. Water To Facility Provided By Tejon Ranch Company
Depth To Groundwater None to 30' Soil Characteristics At Facility Slightly clayey and/or slightly silty sand with gravel and cobbles increasing with depth.

D. Contractor ~~Not selected yet.~~ K.E. CURTIS CA Contractor's License No. A-293700
Address P.O. BOX 4977 City THOUSAND OAKS Zip 91608-1097 Phone # 213-371-1044
Worker's Compensation Certification # Insurer
Proposed Starting Date 9-19-91 Proposed Completion Date

E. If This Application Is For Modification Of An Existing Tank System, Briefly Describe Modifications Proposed (Excluding New Tank Installation at Existing Facilities)
Existing 4 underground tank will remain, one new underground tank will be installed, and all piping and dispensers will be replaced.

F. Tank(s) Storage (Check All That Apply): (If* - Complete Section G)

Tank #	Unleaded	Regular	Premium	Diesel	Other Fuel*	Waste Oil	Other* Waste	Other* Product
1	(X)	( )	( )	( )	( )	( )	( )	( )
* 2	( )	( )	( )	( )	( )	(X)	( )	( )
	( )	( )	( )	( )	( )	( )	( )	( )
	( )	( )	( )	( )	( )	( )	( )	( )

* RELOCATION OF EXISTING TANK

G. Chemical Composition Of Materials Stored (For Products Or Waste Marked With *)

Tank #	Chemical Stored (non-commercial name)	CAS # (if known)	Chemical Previously Stored (if different)

This form has been completed under penalty of perjury and to the best of my knowledge is true and correct. Steven Chan Permit Engr. 7-12-91

Permit #_____ Contents_____

(FILL OUT SEPARATE FORM FOR EACH TANK) Tank # 5

FOR EACH SECTION, CHECK ALL APPROPRIATE BOXES

H. 1. Tank is: ( ) Vaulted ( ) Jacketed (X) Double-Wall ( ) Single-Wall

2. Tank Material
( ) Carbon Steel ( ) Stainless Steel (X) Fiberglass-Reinforced Plastic ( ) Fiberglass-Clad Steel
( ) Concrete ( ) Unknown ( ) Other (Describe)_____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
	1/4"	12,000	Owens Corning/Xerxes

4. Tank Secondary Containment
(X) Double-Wall ( ) Synthetic Liner ( ) Lined Vault ( ) None ( ) Unknown
( ) Other (describe): _____ Manufacturer: Owens Corning/Xerxes
(X) Material Fiberglass Thickness (Inches) .220" Capacity (Gallons) 150

5. Tank Interior Lining
(X) Unlined ( ) Unknown ( ) Lined (describe)_____

6. Tank Corrosion Protection
( ) Galvanized ( ) Fiberglass-Clad ( ) Polyethylene/Vinyl (Wrapped or Jacketed)
( ) Tar or Asphalt ( ) Unknown ( ) None (X) Other (describe): Fiberglass
Cathodic Protection: (X) None ( ) Impressed Current System ( ) Sacrificial Anode System
Describe System and Equipment: _____

7. Leak Detection, Monitoring, and Interception * (Must be described below)
a. Tank: ( ) Vapor Detector * ( ) Liquid Level Sensor * ( ) Conductivity Sensor *
( ) Vadose Zone Monitoring Well(s)
( ) U-Tube with Liner ( ) U-Tube without Liner
( ) Visual Inspection (Vaulted tanks only) ( ) Groundwater Monitoring
(X) Sensor in Annular Space ( ) Vapor (X) Liquid ( ) Pressure ( ) Other *
( ) Regular Monitoring of U-Tube, Monitoring Well or Annular Space
(X) Daily Gauging & Inventory Reconciliation ( ) Periodic Tightness Testing
( ) None ( ) Unknown ( ) Other _____
*Describe Make & Model: Red Jacket PPM-9000
b. Piping: (X) Flow-Restricting Leak Detector(s) for Pressurized Piping* ( ) Sealed Concrete Raceway
( ) Monitoring Sump with Raceway (X) Complete Containment Liner with Sumps
( ) Half-Cut Compatible Pipe Raceway ( ) Synthetic Liner Raceway ( ) None
( ) Unknown ( ) Other _____
*Describe Make & Model: Red Jacket PPM-9000 and American Lining

8. Tank Tightness N/A (new tank)
Has This Tank Been Tightness Tested? ( ) Yes ( ) No ( ) Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair N/A ( ) Yes (X) No ( ) Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection (Must describe below)
( ) Operator Fills, Controls, & Visually Monitors Level
( ) Tape Float Gauge (X) Float Vent Valves ( ) Auto Shut-Off Controls
( ) Capacitance Sensor (X) Sealed Fill Box ( ) None ( ) Unknown ( ) Other *
( ) List Make & Model for all Devices OPW-53-VML
*Describe other Protection System Skyway

11. Piping
a. Underground Piping: (X) Yes ( ) No ( ) Unknown Material Fiberglass
Thickness (inches) 0.07" Diameter 2" Manufacturer A.O. Smith Red Thread
b. Type of piping System
(X) Pressure ( ) Suction ( ) Gravity Approximate Length of this Pipe Run 120'
c. Underground Piping Corrosion Protection:
( ) Galvanized ( ) Fiberglass-Clad ( ) Impressed Current ( ) Sacrificial Anode
( ) Polyethylene Wrap ( ) Electrical Isolation ( ) Vinyl Wrap ( ) Tar or Asphalt
( ) Unknown ( ) None (X) Other (describe): Fiberglass
d. Underground Piping, Secondary Containment:
( ) Double-Wall (X) Synthetic Liner System ( ) None ( ) Unknown
( ) Make & Model (describe): American Lining

Facility Name TEXACO REFINING AND MARKETING INC. Permit No. 730035C

TANK [redacted] (FILL OUT SEPARATE FOR[redacted] EACH TANK)
FOR EACH SECTION, CHECK ALL APPROPRIATE BOXES

H. 1. Tank is: ☐ Vaulted ☒ Non-Vaulted ☒ Double-Wall ☐ Single-Wall

2. Tank Material
☐ Carbon Steel ☐ Stainless Steel ☐ Polyvinyl Chloride ☐ Fiberglass-Clad Steel
☒ Fiberglass-Reinforced Plastic ☐ Concrete ☐ Aluminum ☐ Bronze ☐ Unknown
☐ Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
MAR. 1985	UNK.	550	XERXES

4. Tank Secondary Containment
☒ Double-Wall ☐ Synthetic Liner ☐ Lined Vault ☐ None ☐ Unknown
☐ Other (describe): _____ Manufacturer: XERXES
☐ Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐ Rubber ☐ Alkyd ☐ Epoxy ☐ Phenolic ☐ Glass ☐ Clay ☒ Unlined ☐ Unknown
☐ Other (describe): _____

6. Tank Corrosion Protection
☐ Galvanized ☐ Fiberglass-Clad ☐ Polyethylene Wrap ☐ Vinyl Wrapping
☐ Tar or Asphalt ☐ Unknown ☒ None ☐ Other (describe): _____
Cathodic Protection: ☐ None ☐ Impressed Current System ☐ Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐ Visual (vaulted tanks only) ☐ Groundwater Monitoring Well(s)
☐ Vadose Zone Monitoring Well(s) ☐ U-Tube Without Liner
☐ U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐ Vapor Detector* ☐ Liquid Level Sensor* ☐ Conductivity Sensor*
☐ Pressure Sensor in Annular Space of Double Wall Tank* _____
☐ Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐ Daily Gauging & Inventory Reconciliation ☐ Periodic Tightness Testing
☐ None ☐ Unknown ☒ Other LIQUID SENSOR IN ANNULAR SPACE
b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☐ Monitoring Sump with Raceway ☐ Sealed Concrete Raceway
☐ Half-Cut Compatible Pipe Raceway ☐ Synthetic Liner Raceway ☐ None
☐ Unknown ☒ Other GRAVITY / VENT
*Describe Make & Model: _____

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐ Yes ☐ No ☐ Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐ Yes ☒ No ☐ Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐ Operator Fills, Controls, & Visually Monitors Level
☐ Tape Float Gauge ☐ Float Vent Valves ☐ Auto Shut- Off Controls
☐ Capacitance Sensor ☒ Sealed Fill Box ☐ None ☐ Unknown
☐ Other: _____ List Make & Model For Above Devices

11. Piping
a. Underground Piping: ☒ Yes ☐ No ☐ Unknown Material FIBRE GLASS REINF
Thickness (inches) UNK. Diameter 2" Manufacturer RED THREAD
☐ Pressure ☐ Suction ☒ Gravity Approximate Length of Pipe Run 70'
b. Underground Piping Corrosion Protection :
☐ Galvanized ☐ Fiberglass-Clad ☐ Impressed Current ☐ Sacrificial Anode
☐ Polyethylene Wrap ☐ Electrical Isolation ☐ Vinyl Wrap ☐ Tar or Asphalt
☐ Unknown ☒ None ☐ Other (describe): _____
c. Underground Piping, Secondary Containment:
☐ Double-Wall ☐ Synthetic Liner System ☐ None ☐ Unknown
☒ Other (describe): PRIMARY & SECONDARY TANK VENTS ONLY

KERN COUNTY FIRE DEPARTMENT

5642 Victor St. • Bakersfield, CA 93308 • Telephone (805) 861-2577 • FAX (805) 399-2915

FIRE CHIEF
THOMAS P. McCARTHY

ADMINISTRATIVE DEPUTY CHIEF
SCHUYLER T. WALLACE

OPERATIONS DEPUTY CHIEFS
DANIEL G. CLARK
CHARLES E. DOWDY
CHARLES A. VALENZUELA

ADMINISTRATIVE SERVICES OFFICER
MICHAEL R. PARKER

TEXACO
10 UNIVERSAL City Plaza
4th Floor 9/60 8-1097

DATE: 9/10/91

HEALTH DEPT. PERMIT NO.: 330035C

BUILDING DEPT. PERMIT NO: _____

JOB ADDRESS: 9069 Grapevine Rd. West

( ) **FOR INFORMATION ONLY**

OWNER: TEXACO

CONTRACTOR: K.C. Curb's Cont.

Plans have been checked in accordance with:

OCCUPANCY: B-1

(✓) U.F.C. 19 88 ( ) Title 19

( ) U.B.C. 19 ____ ( ) Title 24

( ) OTHER: _____

( ) HOLD FOR COMPLIANCE)

COMPLIANCE LIST: SERVICE STATIONS - DISPENSERS AND OTHER RELATED EQUIPMENT WITH UNDERGROUND TANKS

✓ 1. Post conspicuous signs prohibiting smoking, dispensing into unapproved containers, to stop your engine and location of emergency shut-off switch.

✓ 2. Emergency shut-off switch within 100 feet of dispensers.

✓ 3. Dispensing devices shall be in clear view of the attendant with no obstacles placed between the attendant and the dispensers.

✓ 4. The attendant shall at all times be able to communicate with persons in the dispensing areas.

✓ 5. Provide a 2A20BC rated fire extinguisher between 15-75 feet from dispensers.

6. Provide an approved impact valve properly installed, rigidly mounted and connected by a union in the fuel line at the base of each dispenser.

7. All electrical wiring and equipment shall be of an approved type and installed according to the electrical code.

8. Provisions shall be made so that any spilled fuel will be prevented from flowing into interior of station. Such provisions may be by grading driveway, raising doorsill or other means.

9. Tank vent lines shall not terminate within 5 feet of any building opening or property line which can be built upon.

10. Vent lines shall terminate not less than 8 feet above the fill pipe opening nor less than 12 feet above adjacent ground level.

11. Swing joints shall be provided in all vapor return piping at the tank and at the base of the riser, below the dispenser.

12. An approved shear section shall be properly installed, rigidly mounted and connected by a union in the vapor-return piping at the base of each dispensing device. (incorporated a fusible link design.

13. Approved fire checks or positive means of automatic isolation of underground storage tanks shall be installed in vapor-return piping to prevent flashback from reaching underground tanks. Such devices also shall be installed in all vapor/air piping as close as practical to each burner or group of burners in a vapor incineration unit.

14. Pits and covers shall be designed and constructed to withstand the external forces to which they may be subjected. When located above any underground tank, at least 1 foot of earth or sand cover shall be maintained over the top of the tank.

15. Pits shall be protected against ignition of vapors by one of the following methods:

Sealing the unpierced cover with mastic or by bolting a gasket in an approved manner or filling the pit with a noncombustible inert material.

(FPB: DL/ra (6/18/91)
Serstat3.cpl

PLAN CHECK BY:

DAY/TIMER Time-Saver

MEMO 101353

FROM
ROBERT CANNON
K E CURTIS CONSTRUCTION CO. INC.
1400 OLD CONEJO ROAD
NEWBURY PARK, CA 91320
(805) 499-0428

RECEIVED
MAR 14 1985
KERN COUNTY HEALTH DEPT.

DATE 3-12-85

FIRST CLASS MAIL ☐ INTER-OFFICE ☐

TO
ENVIRNMENTAL HEALTH DEPT. OF KERN CO.

ATT: MIKE CHIDE

☐ NO REPLY NECESSARY
☐ PLEASE CALL ME ON PHONE
☐ PLEASE ANSWER BEFORE (DATE):

IN REFERENCE TO:
TEXACO @ I-5 & GRAPEVINE

PLEASE REPLY TO:

MESSAGE	REPLY
PER OUR TELECON I AM SENDING YOU INFORMATION YOU REQUESTED. 1) TANK UL #'S 2) PEA ROCK TICKETS 3) M.P.C. CONTAINMENT SYSTEM ANY FURTHER QUESTIONS DO NOT HESITATE. SINCERELY Mary	

DAY-TIMER Time-Saver® DAY-TIMERS RE-ORDER No. 2431 — Printed in USA

(203) 820-0328

DAY/TIMER Time-Saver

MEMO 101353

FROM
ROBERT CANNON
K E CURTIS CONSTRUCTION CO., INC.
1400 OLD CONEJO ROAD
NEWBURY PARK, CA 91320
(805) 499-0428

DATE 3-12-85

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☐ NO REPLY NECESSARY
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IN REFERENCE TO:
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PLEASE REPLY TO:

TO
ENVIRNMENTAL HEALTH DEPT. OF KERN CO.

ATT: MIKE CHIDE

MESSAGE	REPLY
PER OUR TELEON I AM SENDING YOU INFORMATION YOU REQUESTED.	/
1) TANK UL #'S	
2) PEA ROCK TICKETS	
3) M.P.C. CONTAINMENT SYSTEM	
ANY FURTHER QUESTIONS DO NOT HESITATE.	
SINCERELY	
Mary	

DAY-TIMERS RE-ORDER No. 2431 — Printed in USA

0125

XERXES

XERXES FIBERGLASS INC.

PROFORM SFRP® STORAGE TANKS
CENTURY FIBERGLASS™
HEIL PROCESS EQUIPMENT™

P.O. Box 6069, Anaheim, CA 92806 Telephone: (714) 630-0012

PACKING LIST

*CONTAINER ABBREVIATIONS

BND = BUNDLES
CTN = CARTONS
CRT = CRATES
DRM = DRUM
PLE = PAIL
SKD = SKID

CUSTOMER'S ORDER NO.	DATE	SOLD - SIC	OUR ORDER NO.
	2-25-85		A611-051
REPRESENTATIVE		SHIP - SIC	CUSTOMER I.D.
			#0850756

INVOICE NO.

S.B. | SQ. FT. | PAINT

Texaco Inc.
P. O. Box 2550
Bellaire, TX 77401

Texaco SS# 61-106-0165
I-5 & Grapevine
Lebec, CA

SHIPPING DATE

SEE ATTACHED OF SHEETS

DATE SHIPPED
2-21-85

SHIPPED VIA
Truck

Best Way

Anaheim

P.O.B.

SHIPPED FROM
Anaheim

PP & ADD | PREPAID | COLLECT
XXX

SHIPPED WITH
Three Way

PART NO. – DESCRIPTION	CODE NO.	QUANTITY ORDERED	QUANTITY SHIPPED	CONTAINERS SHIPPED IN QTY.	TYPE*	WEIGHT
550 Gal. Double Wall Tank	3016/		1			
8,000 Gal. Double Wall Tank	3016/	50				
10,000 Gal Double Wall Tank	3016/	03				
12,000 Gal. Double Wall Tank	3016/	10				

UL#
CFP# 183322
1197/1198

[redacted]

CLAIMS OF ANY NATURE MUST BE MADE WITHIN TEN (10) DAYS FROM RECEIPT OF GOODS. GOODS SHALL BE RETURNED ONLY WITH AUTHORIZATION FROM SELLER. RISK OF LOSS DURING SHIPMENT SHALL BE BORNE BY PURCHASER AND ALL CLAIMS FOR DAMAGES SHOULD BE MADE TO THE CARRIER IMMEDIATELY.

XERXES

XERXES FIBERGLASS INC.

PROFORM SFRP* STORAGE TANKS
CENTURY FIBERGLASS™
HEIL PROCESS EQUIPMENT™

P.O. Box 6069, Anaheim, CA 92808 Telephone: (714) 630-0012

350121

PACKING LIST

*CONTAINER ABBREVIATIONS

BND = BUNDLES
CTN = CARTONS
CRT = CRATES
DRM = DRUM
PLE = PAIL
SKD = SKID

CUSTOMER'S ORDER NO. DATE	SOLD - SIC	OUR ORDER NO.	INVOICE NO.
HL314859/1-2-85		A501-051	

REPRESENTATIVE			SHIP - SIC	CUSTOMER I.D.	S.B.	SQ. FT.	PAINT
61A/25	77A/25	82A/50		#0850756			

Texaco Inc.
P. O. Box 2550
Bellaire, TX 77401

Texaco SS# 61-106-0165
I-5 & Grapevine
Lebec, CA

SHIPPING DATE

SEE ATTACHED ... OF ... SHEETS

DATE SHIPPED: 2-21-85

SHIPPED VIA: Truck

SHIPPED FROM: Anaheim

SHIPPED WITH: Three Way

STED ING: Best Way

F.O.B. Anaheim

PREPAID	COLLECT
XXX	

PART NO. – DESCRIPTION	CODE NO.	QUANTITY ORDERED	QUANTITY SHIPPED	CONTAINERS SHIPPED IN QTY.	TYPE*	WEIGHT
550 Gal. Double Wall Tank	3016/004	1				
8,000 Gal. Double Wall Tank	3016/004	1	(2)			
10,000 Gal Double Wall Tank	3016/004 1	2				
12,000 Gal. Double Wall Tank	3016/004 1	1				
UL#						
CFP# 164343						
UL# 2094/2088						
CFP# 164332						
2093/2120						

Wilbur Wm

CLAIMS OF ANY NATURE MUST BE MADE WITHIN TEN (10) DAYS FROM RECEIPT OF GOODS. GOODS SHALL BE RETURNED ONLY WITH HORIZATION FROM SELLER. RISK OF LOSS DURING SHIPMENT SHALL BE BORNE BY PURCHASER AND ALL CLAIMS FOR BREAKAGE AND IAGE SHOULD BE MADE TO THE CARRIER IMMEDIATELY.

90119

XERXES | PROFORM SFRP® STORAGE TANKS
CENTURY FIBERGLASS™
HEIL PROCESS EQUIPMENT™

XERXES FIBERGLASS INC.
P.O. Box 6069, Anaheim, CA 92806 Telephone: (714) 630-0012

PACKING LIST

*CONTAINER ABBREVIATIONS

BND = BUNDLES | DRM = DRUM
CTN = CARTONS | PLE = PAIL
CRT = CRATES | SKD = SKID

CK	CUSTOMER'S ORDER NO. DATE			SOLD - SIC	OUR ORDER NO.	INVOICE NO.	
	HL314859/1-2-85				A501-051		
BY	REPRESENTATIVE			SHIP - SIC	CUSTOMER I.D.	S.B. SQ. FT.	PAINT
	61A/25	77A/25	82A/50		#0850756		

SOLD TO
Texaco Inc.
P. O. Box 2550
Bellaire, TX 77401

SHIP TO
Texaco SS# 61-106-0165
I-5 & Grapevine
Lebec, CA

SHIPPING DATE

SEE ATTACHED OF SHEETS

DATE SHIPPED
2-21-85

SHIPPED VIA
Truck

SHIPPED FROM
Anaheim

SHIPPED WITH
Three Way

REQUESTED ROUTING Best Way F.O.B. Anaheim

FP & ADD	PREPAID	COLLECT
XXX		

PART NO. — DESCRIPTION	CODE NO.	QUANTITY ORDERED	QUANTITY SHIPPED	CONTAINERS SHIPPED IN QTY.	TYPE*	WEIGHT
550 Gal. Double Wall Tank	3016/004	1				
8,000 Gal. Double Wall Tank	3016/004	1	(1)			
10,000 Gal Double Wall Tank	3016/004 1	2				
12,000 Gal. Double Wall Tank	3016/004 1	1	(1)			
UL# 183326 CFP# 1217/1218						
UL# 183168 CFP# 272/278						

(1) 550 Gal

ALL CLAIMS OF ANY NATURE MUST BE MADE WITHIN TEN (10) DAYS FROM RECEIPT OF GOODS. GOODS SHALL BE RETURNED ONLY WITH AUTHORIZATION FROM SELLER. RISK OF LOSS DURING SHIPMENT SHALL BE BORNE BY PURCHASER AND ALL CLAIMS FOR BREAKAGE AND DAMAGE SHOULD BE MADE TO THE CARRIER IMMEDIATELY.

MPC

CONTAINMENT SYSTEMS LTD.

2221 West 43rd Street
Chicago, Illinois 60609 / U.S.A.
312 / 927-4121
Toll Free: 800 / 621-0146

MAR 9 REC'D

March 7, 1985

K.E. Curtis Construction Co.
1400 Old Conejo Road
Newberry Park, California 91320
Attn: Debbie

Re: Texaco U.S.A.
I-5 and Grapevine

Gentlemen:

This is to confirm that Larry Moreland, our chief trainer and installer, supervised the installation of the liner at the above location on February 25th and 26th.

If the Regulatory people have any questions about the participation, please give them our toll free number and we will put their minds at ease.

The plain and simple fact is that we too are concerned about the integrity of an installation and that is why we have a supervision and contractor program.

Sincerely,

Edward E. Reicin

Edward E. Reicin
Executive Vice President

EER/ms

KERN COUNTY HEALTH DEPARTMENT
PERMIT TO CONSTRUCT
UNDERGROUND STORAGE FACILITY

330035
PERMIT #~~330018B~~

FACILITY NAME AND ADDRESS:

Texaco Service Station - Grapevine
I-5 & (D Street) Grapevine
Lebec, CA 93243

OWNER(S) NAME AND MAILING ADDRESS:

Tejon Ranch Company
P.O. Box 1000
Lebec, CA 93243

[XX]	NEW BUSINESS
[__]	CHANGE OWNERSHIP
[__]	RENEWAL
[__]	MODIFICATION
[__]	OTHER _____

PERMIT EXPIRES March 22, 1986

APPROVAL DATE March 22, 1985

APPROVED BY Ann Boyce
Ann Boyce, R.S.

POST THIS PERMIT ON PREMISES

CONDITIONS AS FOLLOWS:

1. All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.
2. Permittee must contact Permitting Authority for on-site inspection(s) with 48 hours advance notice.
3. Backfill material for piping and tanks to be as per manufacturers' specifications.
4. All underground metal product piping, fittings, and connections must be wrapped to a minimum 20-mil thickness with corrosion-preventive, product-resistant tape or otherwise protected from corrosion.
5. All metal connection (eg piping, fittings, fill pipes) to tank(s) to be electrically isolated.
6. Float vent valves required on vent/vapor lines of underground tanks as a prevention to overfillings.
7. All tank inelts, outlets, and manway extension tubes must have seals both product-tight and product-compatible for substance(s) stored in the tank(s).
8. The following equipment and materials must be identified by manufacturer and model:
   a. Tank fill box(es)
9. Construction inspection record card is included with permit given to Permittee. This card must be posted at jobsite prior to initial inspection. Permittee must contact Permitting Authority and arrange for each group of required inspections numbered as per instructions on card.
   a. Tanks and backfill
   b. Piping system with secondary containment
   c. Overfill protection and leak detection/monitoring
   d. Any other inspection deemed necessary by Permitting Authority
10. Monitoring requirements for this facility will be described on final "Permit to Operate"

ACCEPTED BY _____ DATE _____

KERN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
HAZARDOUS SUBSTANCES SECTION

1700 FLOWER STREET
BAKERSFIELD, CA 93305
PHONE (805) 861-3636

INSPECTION RECORD

POST CARD AT JOBSITE

FACILITY Texaco Service Station PERMIT #	OWNER
ADDRESS I-5 & D St. Grapevine	ADDRESS Texaco - P.O. Box 3756
CITY Lebec	CITY Los Angeles 90631
PHONE NO. 805-322-4774	PHONE NO. (213) 385-0515

INSTRUCTIONS: Please call for an inspector only when each group of inspections with the same number are ready. They will run in consecutive order beginning with number 1. DO NOT cover work for any numbered group until all items in that group are signed off by the Permitting Authority. Following these instructions will reduce the number of required inspection visits and therefore prevent assessment of additional fees.

- TANKS & BACKFILL -

	INSPECTION	DATE	INSPECTOR
1	Backfill of Tank(s)		
1	Spark Test Certification		
	Cathodic Protection of Tank(s)		

- PIPING SYSTEM -

	Piping & Raceway w/Collection Sump		
	Corrosion Protection of Piping, Joints, Fill Pipe		
	Electrical Isolation of Piping From Tank(s)		
	Cathodic Protection System-Piping		

- SECONDARY CONTAINMENT, OVERFILL PROTECTION, LEAK DETECTION -

	Liner Installation - Tank(s)		
2	Liner Installation - Piping Hytrel		
	Vault With Product Compatible Sealer		
2	Level Gauges or Sensors, (Float Vent Valves)		
	Product Compatible Fill Box(es)		
2	Product Line Leak Detector(s)		
	Leak Detector(s) for Annular Space-D.W. Tank(s)		
2	Monitoring Well(s)/Sump(s)		
2	Leak Detection Device(s) For Vadose/Groundwater		

- FINAL -

3	Monitoring Wells, Caps & Locks		
3	Fill Box Lock		
	Monitoring Requirements		

CONTRACTOR KE Curtis Const Co LICENSE # 293700
CONTACT Angie Gotuso / Bruce Barker PH # 805-499-0428

Kern County Health Department
Division of Environmental Hea[illegible]
1700 Flower Street, Bakersfield, CA 93305

Permit No. 330035C 33
Application [illegible]e 3.5.85

#165

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND HAZARDOUS SUBSTANCES STORAGE FACILITY

Type of Application (check):
☐ New Facility ☐ Modification of Facility ☒ Existing Facility ☐ Transfer of Ownership

A. Emergency 24-Hour Contact (name, area code, phone): Days 800 231-3102
Nights 805 497-3058
Facility Name TEXACO REFINING AND MARKETING INC. No. of Tanks 5
Type of Business (check): ☒ Gasoline Station ☐ Other (describe) _____
Is Tank(s) Located on an Agricultural Farm? ☐ Yes ☒ No
Is Tank(s) Used Primarily for Agricultural Purposes? ☐ Yes ☒ No
Facility Address STAR RT. Box 23 GRAPEVINE Nearest Cross St. I-5
T _____ R _____ SEC _____ (Rural Locations Only)
Owner TEXACO REFINING AND MARKETING INC. Contact Person R. ROBLES
Address P.O. Box 3756-3350 WILSHIRE BLVD Zip 90010 Telephone 213/739 7631
Operator S. BEAGLEY Contact Person S. BEAGLEY
Address STAR RT. Box 23 GRAPEVINE Zip 93243 Telephone (805) 327-4774
LEBEC, CA.

B. Water to Facility Provided by TEJON RANCH Depth to Groundwater UNK.
Soil Characteristics at Facility _____
Basis for Soil Type and Groundwater Depth Determinations _____

C. Contractor _____ CA Contractor's License No. _____
Address _____ Zip _____ Telephone _____
Proposed Starting Date _____ Proposed Completion Date _____
Worker's Compensation Certification # _____ Insurer _____

D. If This Permit Is For Modification Of An Existing Facility, Briefly Describe Modifications Proposed _____

E. Tank(s) Store (check all that apply):

Tank #	Waste	Product	Motor Vehicle Fuel	Unleaded	Regular	Premium	Diesel	Waste Oil
1	☐	☒	☒	☒	☐	☐	☐	☐
2	☐	☒	☒	☐	☒	☐	☐	☐
3	☐	☒	☒	☐	☐	☒	☐	☐
4	☐	☒	☒	☐	☐	☐	☒	☐
5	☒							☒

F. Chemical Composition of Materials Stored (not necessary for motor vehicle fuels)

Tank #	Chemical Stored (non-commercial name)	CAS # (if known)	Chemical Previously Stored (if different)

G. Transfer of Ownership
Date of Transfer _____ Previous Owner _____
Previous Facility Name _____
I, _____ accept fully all obligations of Permit No. _____ issued to _____. I understand that the Permitting Authority may review and modify or terminate the transfer of the Permit to Operate this underground storage facility upon receiving this completed form.

This form has been completed under penalty of perjury and to the best of my knowledge is true and correct.

Signature R Robles Title F.M. Supv. Date 3.5.85

Facility Name TEXACO REFINING AND MARKETING INC. Permit No. 330035C

TANK # [redacted] (FILL OUT SEPARATE FORM FOR EACH TANK)
FOR EACH SECTION, CHECK **ALL** APPROPRIATE BOXES

H. 1. Tank is: ☐Vaulted ☒Non-Vaulted ☒Double-Wall ☐Single-Wall

2. Tank Material
☐Carbon Steel ☐Stainless Steel ☐Polyvinyl Chloride ☐Fiberglass-Clad Steel
☒Fiberglass-Reinforced Plastic ☐Concrete ☐Aluminum ☐Bronze ☐Unknown
☐Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
MAR. 1985	UNK.	12,000	XERXES

4. Tank Secondary Containment
☒Double-Wall ☐Synthetic Liner ☐Lined Vault ☐None ☐Unknown
☐Other (describe): _____ Manufacturer: _____
☐Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐Rubber ☐Alkyd ☐Epoxy ☐Phenolic ☐Glass ☐Clay ☒Unlined ☐Unknown
☐Other (describe): _____

6. Tank Corrosion Protection
☐Galvanized ☐Fiberglass-Clad ☐Polyethylene Wrap ☐Vinyl Wrapping
☐Tar or Asphalt ☐Unknown ☒None ☐Other (describe): _____
Cathodic Protection: ☐None ☒Impressed Current System ☐Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐Visual (vaulted tanks only) ☐Groundwater Monitoring Well(s)
☐Vadose Zone Monitoring Well(s) ☐U-Tube Without Liner
☐U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐Vapor Detector* ☐Liquid Level Sensor* ☐Conductivity Sensor*
☐Pressure Sensor in Annular Space of Double Wall Tank*
☐Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐Daily Gauging & Inventory Reconciliation ☐Periodic Tightness Testing
☐None ☐Unknown ☒Other LIQUID SENSOR IN ANNULAR SPACE
b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☒Monitoring Sump with Raceway ☐Sealed Concrete Raceway
☐Half-Cut Compatible Pipe Raceway ☒Synthetic Liner Raceway ☐None
☐Unknown ☐Other _____
*Describe Make & Model: RED JACKET 2 SEC. MODEL

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐Yes ☐No ☐Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐Yes ☒No ☐Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐Operator Fills, Controls, & Visually Monitors Level
☐Tape Float Gauge ☒Float Vent Valves ☐Auto Shut- Off Controls
☐Capacitance Sensor ☒Sealed Fill Box ☐None ☐Unknown
☐Other: _____ List Make & Model For Above Devices
O.P.W. FLOAT VALVES, C.N.I. MFG SEALED FILL BOX

11. Piping
a. Underground Piping: ☒Yes ☐No ☐Unknown Material FIBRE GLASS REINF.
Thickness (inches) _____ Diameter 2" Manufacturer RED THREAD
☒Pressure ☐Suction ☐Gravity Approximate Length of Pipe Run 150'
b. Underground Piping Corrosion Protection :
☐Galvanized ☐Fiberglass-Clad ☐Impressed Current ☐Sacrificial Anode
☐Polyethylene Wrap ☐Electrical Isolation ☐Vinyl Wrap ☐Tar or Asphalt
☐Unknown ☒None ☐Other (describe): _____
c. Underground Piping, Secondary Containment:
☐Double-Wall ☒Synthetic Liner System ☐None ☐Unknown
☐Other (describe): _____

Facility Name TEXACO REFINING AND MARKETING INC. Permit No. 330035C

TANK # [redacted] (FILL OUT SEPARATE FORM [redacted] EACH TANK)
FOR EACH SECTION, CHECK ALL APPROPRIATE BOXES

H. 1. Tank is: ☐Vaulted ☒Non-Vaulted ☒Double-Wall ☐Single-Wall

2. Tank Material
☐Carbon Steel ☐Stainless Steel ☐Polyvinyl Chloride ☐Fiberglass-Clad Steel
☒Fiberglass-Reinforced Plastic ☐Concrete ☐Aluminum ☐Bronze ☐Unknown
☐Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
Mar. 1985	UNK.	10,000	XERXES

4. Tank Secondary Containment
☒Double-Wall ☐Synthetic Liner ☐Lined Vault ☐None ☐Unknown
☐Other (describe): _____ Manufacturer: _____
☐Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐Rubber ☐Alkyd ☐Epoxy ☐Phenolic ☐Glass ☐Clay ☒Unlined ☐Unknown
☐Other (describe): _____

6. Tank Corrosion Protection
☐Galvanized ☐Fiberglass-Clad ☐Polyethylene Wrap ☐Vinyl Wrapping
☐Tar or Asphalt ☐Unknown ☒None ☐Other (describe): _____
Cathodic Protection: ☐None ☒Impressed Current System ☐Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐Visual (vaulted tanks only) ☐Groundwater Monitoring Well(s)
☐Vadose Zone Monitoring Well(s) ☐U-Tube Without Liner
☐U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐Vapor Detector* ☐Liquid Level Sensor* ☐Conductivity Sensor*
☐Pressure Sensor in Annular Space of Double Wall Tank* _____
☐Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐Daily Gauging & Inventory Reconciliation ☐Periodic Tightness Testing
☐None ☐Unknown ☒Other LIQUID SENSOR IN ANNULAR SPACE
b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☒Monitoring Sump with Raceway ☐Sealed Concrete Raceway
☐Half-Cut Compatible Pipe Raceway ☒Synthetic Liner Raceway ☐None
☐Unknown ☐Other _____
*Describe Make & Model: RED JACKET 2 SEC. MODEL

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐Yes ☐No ☐Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐Yes ☒No ☐Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐Operator Fills, Controls, & Visually Monitors Level
☐Tape Float Gauge ☒Float Vent Valves ☐Auto Shut- Off Controls
☐Capacitance Sensor ☒Sealed Fill Box ☐None ☐Unknown
☐Other: _____ List Make & Model For Above Devices
O.P.W. FLOAT VALVES, C.N.I. MFG SEALED FILL BOX

11. Piping
a. Underground Piping: ☒Yes ☐No ☐Unknown Material FIBRE GLASS REINF.
Thickness (inches) _____ Diameter 2" Manufacturer RED THREAD
☒Pressure ☐Suction ☐Gravity Approximate Length of Pipe Run 150'
b. Underground Piping Corrosion Protection :
☐Galvanized ☐Fiberglass-Clad ☐Impressed Current ☐Sacrificial Anode
☐Polyethylene Wrap ☐Electrical Isolation ☐Vinyl Wrap ☐Tar or Asphalt
☐Unknown ☒None ☐Other (describe): _____
c. Underground Piping, Secondary Containment:
☐Double-Wall ☒Synthetic Liner System ☐None ☐Unknown
☐Other (describe): _____

Facility Name TEXACO REFINING AND MARKETING INC. Permit No. 330035C

TANK # [redacted] (FILL OUT SEPARATE FORM FOR EACH TANK)
FOR EACH SECTION, CHECK ALL APPROPRIATE BOXES

H. 1. Tank is: ☐Vaulted ☒Non-Vaulted ☒Double-Wall ☐Single-Wall

2. Tank Material
☐Carbon Steel ☐Stainless Steel ☐Polyvinyl Chloride ☐Fiberglass-Clad Steel
☒Fiberglass-Reinforced Plastic ☐Concrete ☐Aluminum ☐Bronze ☐Unknown
☐Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
Mar. 1985	UNK.	8000	XERXES

4. Tank Secondary Containment
☒Double-Wall ☐Synthetic Liner ☐Lined Vault ☐None ☐Unknown
☐Other (describe): _____ Manufacturer: _____
☐Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐Rubber ☐Alkyd ☐Epoxy ☐Phenolic ☐Glass ☐Clay ☒Unlined ☐Unknown
☐Other (describe): _____

6. Tank Corrosion Protection
☐Galvanized ☐Fiberglass-Clad ☐Polyethylene Wrap ☐Vinyl Wrapping
☐Tar or Asphalt ☐Unknown ☒None ☐Other (describe): _____
Cathodic Protection: ☐None ☒Impressed Current System ☐Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐Visual (vaulted tanks only) ☐Groundwater Monitoring Well(s)
☐Vadose Zone Monitoring Well(s) ☐U-Tube Without Liner
☐U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐Vapor Detector* ☐Liquid Level Sensor* ☐Conductivity Sensor*
☐Pressure Sensor in Annular Space of Double Wall Tank* _____
☐Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐Daily Gauging & Inventory Reconciliation ☐Periodic Tightness Testing
☐None ☐Unknown ☒Other LIQUID SENSOR IN ANNULAR SPACE
b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☒Monitoring Sump with Raceway ☐Sealed Concrete Raceway
☐Half-Cut Compatible Pipe Raceway ☒Synthetic Liner Raceway ☐None
☐Unknown ☐Other _____
*Describe Make & Model: RED JACKET 2 SEC. MODEL

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐Yes ☐No ☐Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐Yes ☒No ☐Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐Operator Fills, Controls, & Visually Monitors Level
☐Tape Float Gauge ☒Float Vent Valves ☐Auto Shut- Off Controls
☐Capacitance Sensor ☒Sealed Fill Box ☐None ☐Unknown
☐Other: _____ List Make & Model For Above Devices
O.P.W. FLOAT VALVES, C.N.I. MFG SEALED FILL BOX

11. Piping
a. Underground Piping: ☒Yes ☐No ☐Unknown Material FIBRE GLASS REINF.
Thickness (inches) _____ Diameter 2" Manufacturer RED THREAD
☒Pressure ☐Suction ☐Gravity Approximate Length of Pipe Run 150'
b. Underground Piping Corrosion Protection :
☐Galvanized ☐Fiberglass-Clad ☐Impressed Current ☐Sacrificial Anode
☐Polyethylene Wrap ☐Electrical Isolation ☐Vinyl Wrap ☐Tar or Asphalt
☐Unknown ☒None ☐Other (describe): _____
c. Underground Piping, Secondary Containment:
☐Double-Wall ☒Synthetic Liner System ☐None ☐Unknown
☐Other (describe): _____

Facility Name TEXACO REFINING AND MARKETING INC. Permit No. 330035C

TANK # 1 (FILL OUT SEPARATE FORM FOR EACH TANK)
FOR EACH SECTION, CHECK ALL APPROPRIATE BOXES

H. 1. Tank is: ☐ Vaulted ☒ Non-Vaulted ☒ Double-Wall ☐ Single-Wall

2. Tank Material
☐ Carbon Steel ☐ Stainless Steel ☐ Polyvinyl Chloride ☐ Fiberglass-Clad Steel
☒ Fiberglass-Reinforced Plastic ☐ Concrete ☐ Aluminum ☐ Bronze ☐ Unknown
☐ Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
Mar. 1985	UNK.	10,000	XERXES

4. Tank Secondary Containment
☒ Double-Wall ☐ Synthetic Liner ☐ Lined Vault ☐ None ☐ Unknown
☐ Other (describe): _____ Manufacturer: _____
☐ Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐ Rubber ☐ Alkyd ☐ Epoxy ☐ Phenolic ☐ Glass ☐ Clay ☒ Unlined ☐ Unknown
☐ Other (describe): _____

6. Tank Corrosion Protection
☐ Galvanized ☐ Fiberglass-Clad ☐ Polyethylene Wrap ☐ Vinyl Wrapping
☐ Tar or Asphalt ☐ Unknown ☒ None ☐ Other (describe): _____
Cathodic Protection: ☐ None ☒ Impressed Current System ☐ Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐ Visual (vaulted tanks only) ☐ Groundwater Monitoring Well(s)
☐ Vadose Zone Monitoring Well(s) ☐ U-Tube Without Liner
☐ U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐ Vapor Detector* ☐ Liquid Level Sensor* ☐ Conductivity Sensor*
☐ Pressure Sensor in Annular Space of Double Wall Tank* _____
☐ Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐ Daily Gauging & Inventory Reconciliation ☐ Periodic Tightness Testing
☐ None ☐ Unknown ☒ Other LIQUID SENSOR IN ANNULAR SPACE

b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☒ Monitoring Sump with Raceway ☐ Sealed Concrete Raceway
☐ Half-Cut Compatible Pipe Raceway ☒ Synthetic Liner Raceway ☐ None
☐ Unknown ☐ Other _____
*Describe Make & Model: RED JACKET 2 SEC. MODEL

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐ Yes ☐ No ☐ Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐ Yes ☒ No ☐ Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐ Operator Fills, Controls, & Visually Monitors Level
☐ Tape Float Gauge ☒ Float Vent Valves ☐ Auto Shut- Off Controls
☐ Capacitance Sensor ☒ Sealed Fill Box ☐ None ☐ Unknown
☐ Other: _____ List Make & Model For Above Devices
O.P.W. FLOAT VALVES, C.N.I. MFG SEALED FILL BOX

11. Piping
a. Underground Piping: ☒ Yes ☐ No ☐ Unknown Material FIBRE GLASS REINF.
Thickness (inches) _____ Diameter 2" Manufacturer RED THREAD
☒ Pressure ☐ Suction ☐ Gravity Approximate Length of Pipe Run 150'

b. Underground Piping Corrosion Protection :
☐ Galvanized ☐ Fiberglass-Clad ☐ Impressed Current ☐ Sacrificial Anode
☐ Polyethylene Wrap ☐ Electrical Isolation ☐ Vinyl Wrap ☐ Tar or Asphalt
☐ Unknown ☒ None ☐ Other (describe): _____

c. Underground Piping, Secondary Containment:
☐ Double-Wall ☒ Synthetic Liner System ☐ None ☐ Unknown
☐ Other (describe): _____

Facility Name TEXACO REFINING AND MARKETING INC, Permit No. 330035C

TANK # [redacted] (FILL OUT SEPARATE FORM F[redacted]EACH TANK)
FOR EACH SECTION, CHECK **ALL** APPROPRIATE BOXES

H. 1. Tank is: ☐Vaulted ☒Non-Vaulted ☒Double-Wall ☐Single-Wall

2. Tank Material
☐Carbon Steel ☐Stainless Steel ☐Polyvinyl Chloride ☐Fiberglass-Clad Steel
☒Fiberglass-Reinforced Plastic ☐Concrete ☐Aluminum ☐Bronze ☐Unknown
☐Other (describe) _____

3. Primary Containment

Date Installed	Thickness (Inches)	Capacity (Gallons)	Manufacturer
MAR. 1985	UNK.	550	XERXES

4. Tank Secondary Containment
☒Double-Wall ☐Synthetic Liner ☐Lined Vault ☐None ☐Unknown
☐Other (describe): _____ Manufacturer: XERXES
☐Material _____ Thickness (Inches) _____ Capacity (Gals.) _____

5. Tank Interior Lining
☐Rubber ☐Alkyd ☐Epoxy ☐Phenolic ☐Glass ☐Clay ☒Unlined ☐Unknown
☐Other (describe): _____

6. Tank Corrosion Protection
☐Galvanized ☐Fiberglass-Clad ☐Polyethylene Wrap ☐Vinyl Wrapping
☐Tar or Asphalt ☐Unknown ☒None ☐Other (describe): _____
Cathodic Protection: ☐None ☐Impressed Current System ☐Sacrificial Anode System
Describe System & Equipment: _____

7. Leak Detection, Monitoring, and Interception
a. Tank: ☐Visual (vaulted tanks only) ☐Groundwater Monitoring Well(s)
☐Vadose Zone Monitoring Well(s) ☐U-Tube Without Liner
☐U-Tube with Compatible Liner Directing Flow to Monitoring Well(s)*
☐Vapor Detector* ☐Liquid Level Sensor* ☐Conductivity Sensor*
☐Pressure Sensor in Annular Space of Double Wall Tank* _____
☐Liquid Retrieval & Inspection From U-Tube, Monitoring Well or Annular Space
☐Daily Gauging & Inventory Reconciliation ☐Periodic Tightness Testing
☐None ☐Unknown ☒Other LIQUID SENSOR IN ANNULAR SPACE
b. Piping: Flow-Restricting Leak Detector(s) for Pressurized Piping*
☐Monitoring Sump with Raceway ☐Sealed Concrete Raceway
☐Half-Cut Compatible Pipe Raceway ☐Synthetic Liner Raceway ☐None
☐Unknown ☒Other GRAVITY / VENT
*Describe Make & Model: _____

8. Tank Tightness
Has This Tank Been Tightness Tested? ☐Yes ☐No ☐Unknown
Date of Last Tightness Test _____ Results of Test _____
Test Name _____ Testing Company _____

9. Tank Repair
Tank Repaired? ☐Yes ☒No ☐Unknown
Date(s) of Repair(s) _____
Describe Repairs _____

10. Overfill Protection
☐Operator Fills, Controls, & Visually Monitors Level
☐Tape Float Gauge ☐Float Vent Valves ☐Auto Shut- Off Controls
☐Capacitance Sensor ☒Sealed Fill Box ☐None ☐Unknown
☐Other: _____ List Make & Model For Above Devices

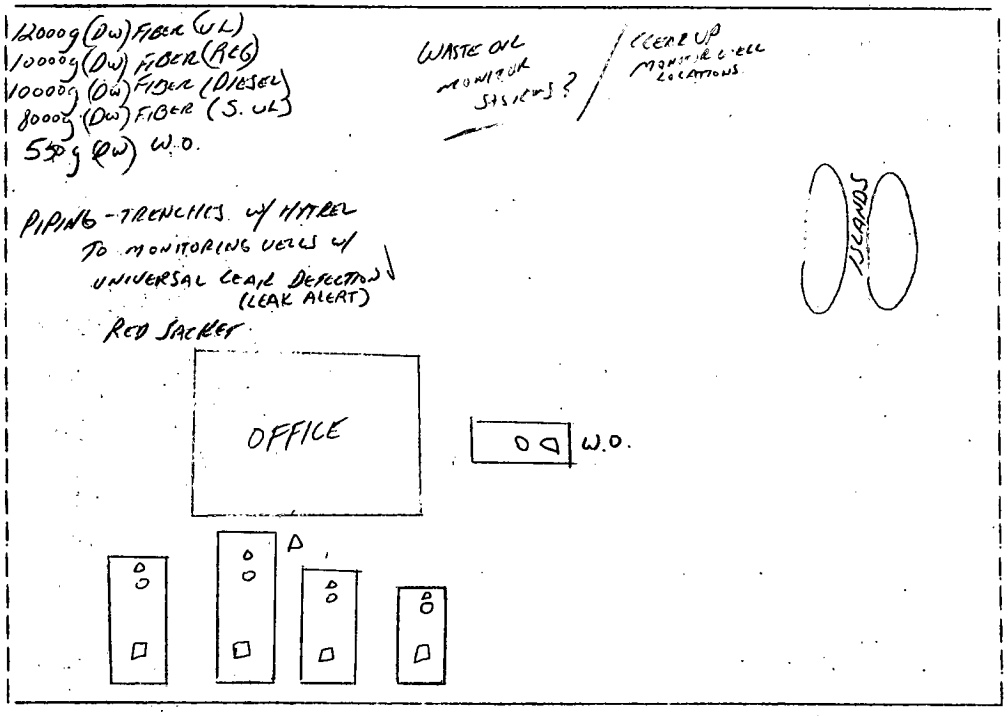
11. Piping
a. Underground Piping: ☒Yes ☐No ☐Unknown Material FIBRE GLASS REINF
Thickness (inches) UNK. Diameter 2" Manufacturer RED THREAD
☐Pressure ☐Suction ☒Gravity Approximate Length of Pipe Run 70'
b. Underground Piping Corrosion Protection :
☐Galvanized ☐Fiberglass-Clad ☐Impressed Current ☐Sacrificial Anode
☐Polyethylene Wrap ☐Electrical Isolation ☐Vinyl Wrap ☐Tar or Asphalt
☐Unknown ☒None ☐Other (describe): _____
c. Underground Piping, Secondary Containment:
☐Double-Wall ☐Synthetic Liner System ☐None ☐Unknown
☒Other (describe): PRIMARY & SECONDARY TANK VENTS ONLY

Permits # 330035
Facility Name TEXACO (GRAPEVINE)

Inspector TAM
Date

FINAL INSPECTION CHECKLIST

CORRECTION OK



Plot Diagram

Plot plan notes _____

		Yes	No
1.	All new and existing tanks located on plot plan?	☑	☐
2.	Does tank product correspond to product labels on plot plan?	☑	☐
3.	Was there no modifications identified which were not depicted on the plot plans? If "No" described	☑	☐
4.	Are monitoring wells secure and free of water and product in sump?	☑	☐
5.	Is piping system pressure, suction or gravity?	PRESSURE	

	Yes	No
6. Are Red Jacket subpumps and all line leak detector accessible?	☑	☐
Type of line leak detector if any MONITOR WELL		
7. Overfill containment box as specified on application?	☑	☐
If "No", what type and model number:		
a) Is fill box tightly sealed around fill tube?	☑	☐
b) Is access over water tight?	☑	☐
c) Is product present in fill box?	☐	☑
8. Identify type of monitoring: LEAK ALERT		
a) Are manual monitoring instruments, product and water finding paste on premises?	☐	☐ N/A
b) Is the fluid level in Owens-Corning liquid level monitoring reservoir and alarm panel in proper operating condition?	☐	☐ N/A
c) Does the annular space or secondary containment liner leak detection system have self diagnostic capabilities?	☑	☐
If "Yes", is it functional	☑	☐
If "No", how is it tested for proper operating condition?		

9. Notes on any abnormal conditions: _____

Standard Compliance Check

Facility: Texaco Service Station - Grapevine CT 3

Equipment to be installed:
5 Tank(s), Approx. 180 ft. of ☐ suction ☑ pressurized piping

Req'd	Approved	
✓	✓	Primary Containment ☑ Fiberglass (FRP) Make & Model Xerxes Double-wall ☐ Fiberglass-clad steel Make & Model ☐ Uncoated steel Make & Model ☐ Other: Make & Model Comment: Additional:
✓	✓	Secondary Containment of Tank(s) ☑ Double-walled tank(s) Make & Model Xerxes double-wall ☑ Synthetic liner Make & Model ~~Hytrel~~ ☐ Lined concrete vault(s) Sealer used ☐ Other Type Make & Model Comment: Additional:
✓	✓	Secondary containment volume at least 100% of primary tank volume(s) Comment: Additional:
		Secondary containment volume for more than one tank contains 150% of volume of largest primary containemnt or 10% of aggregate primary volume, whichever is greater Comment: Additional:
		Secondary containment open to rainfall must accomodate 24 hour rainfall Total Volume Comment: Additional:
✓	✓	Secondary containment is product-compatible Product Gasolines Documentation Comment: Check Xerxes for alcohol content. Additional:

Annular space liquid is compatible with product
Product _____ Annular liquid _____
Comment: _____
Additional: _____

Primary Containment of Piping
☑ Fiberglass piping Size & Make Red Thread
☐ Coated steel piping Size & Make _____
☐ Uncoated steel piping Size _____
☐ Other _____
Comment: _____
Additional: _____

Secondary Containment of Piping
☐ Double-walled pipe Size & Make _____
☑ Synthetic liner in trench Size & Make Hytrel
☐ Other _____
Comment: _____
Additional: _____

Corrosion Protection
☐ Tank(s) _____
☐ Piping & fittings Wrap swing joints, fittings.
☐ Electrical isolation _____
Comment: Had them wrap connections to leak detectors. No swing joints to wrap.
Additional: _____

Manufacturer-Approved Backfill for Tanks & Piping
Type Pea gravel Comment: _____
Additional: _____

Tank(s) Located No Closer Than 10 Feet to Building(s)
Comments: All other tanks OK except waste oil tank (9 ft.)
Additional: _____

Complete Monitoring System
Monitoring device within secondary containment:
☐ Liquid level indicator(s) _____
☐ Liquid used _____
☑ Thermal conductivity sensor(s) Universal LeakAlert
☐ Pressure sensor(s) _____
☐ Vacuum gauge _____
☐ Sump(s) _____
☐ Gas or vapor detector(s) _____
☐ Manual inspection & sampling _____
☐ Visual inspection _____
Other _____
Comments: To be used in both Hytrel monitoring well and in the monitoring ports of double wall tanks. Note: The sensor is not going into monitoring sumps at present. Just tanks. Sensor not hooked up yet (energized). Box mounted - checked it.

Additional: _____

Other Monitoring

☐ Periodic tightness testing Method _____

☑ Pressure-reducing line leak detector(s) Red jackets

☐ Other _____

Comment: _____

Additional: _____

Overfill Protection

☐ Tape float gauge(s) _____

☑ Float vent valve(s) OPW ball float valves

☐ Capacitance sensor(s) _____

☐ High level alarm(s) _____

☐ Automatic shut-off control(s) _____

Check * ☑ Fill box(es) with 1 ft.^{3} volume OK - also has manway

☐ Operator controls with visual level monitoring

Other _____

Comment: The tops of fill boxes not completely water-tight. But they come as close as most others.

Additional: _____

Monitoring Requirements Will be specified on final PTO.

Additional Comments The waste oil tank is installed as per original plan. End of tank approx. 9 feet from building (garage door section).

Inspector B. Scheide Date 3-7-85

Contractor rep.: Bruce Barker.

Texaco Service Station
I-5 + Grapevine intersection.

UNDERGROUND STORAGE FACILITY
PLAN CHECK LIST

APPLICABILITY/EXEMPTIONS (Facilities in any of following categories are exempt)

No Facility has Hazardous Waste Facilities Permit or ISD from DOHS

No Not storing hazardous substances

No Tanks not substantially underground

No Control of external parasites on cattle

No Farm tanks storing MVF's used to propel vehicles for ag purposes

No Storing MVF's for ag pest control by licensed pest control operator within one mile of farm

No Sumps, separators, storm drains, catch basins, oilfield gathering lines, refinery pipelines, lagoons, evaporation ponds, and well cellars

APPLICATION COMPLETION

✓ Identification of responsible parties (24 hour)

✓ Facility location adequately described Would like street names on plot, though.

* ? Workers' Compensation certificate or waiver No copy on file.

No Applicant desires exemption from secondary containment for MVF's (If "YES", the following subsection must be completed with all "YES" answers in order for exemption to apply)

____ Highest groundwater not within 100 feet of ground surface
____ Nearest surface water is not within 75 feet of tank excavation
____ Nearest ag or domestic well is not within 75 feet of tank excavation
____ Facility is not located in an aquifer recharge area
____ Facility is not located in a unique wildlife habitat area
____ No underground conduits (telephone, utility) within 10 feet of tank(s).

GENERAL DESIGN STANDARDS (asterisked items are N/A if MVF exemption permitted)

* * ? Provides primary and secondary containment Tank numbering + sizes not matched from app. to drawings. NO Tank piping has no secondary containment.

✓ Primary containment product-tight

✓ Approval by nationally recognized testing agency of tanks and equipment

Call * * ✓ Secondary containment compatible with product Check alcohol content (Xerxes)

* ✓ Secondary containment volume at least 100% volume of primary tank O-W

* N/A If sec. cont. for more than one tank, must contain 150% of volume of largest primary tank placed in it, or 10% of aggregate volume, whichever is greater.

See back for listed problems

* N/A If open to rainfall, sec. cont. must also accomodate 24 hr. rainfall

* ✓ Monitoring system within secondary containment, approved, and compatible

✓ Monitoring continuous

* ✓ Water intrusion into sec. cont.--monitoring and removing Note removal method on final permit

✓ Corrosion Protection-- Tanks FRP

* ? Corrosion Protection-- Piping What kind of piping? (Cite which Mfr. & model prior to construction)

N/A Corrosion Protection-- Isolation of piping and tanks

* ✓ Overfill Protection (device with alarm system)

* N/A Potential intermixing of incompatible substances prevented by separation

* ___ Tanks no closer than 10 feet to buildings W.O. Tank about 7' from service bay bldg.

N/A Water and sewage lines no closer than 10 feet from tanks, pipes, & monitoring systems

✓ Approved backfill and bedding for tanks and piping as per Kerrest; on dwg.

MOTOR VEHICLE FUEL EXEMPTIONS

____ Cathodically Protected Steel, Fiberglass Reinforced Plastic, or Fiberglass Steel Tanks

____ Leak Intercepting and Directing System

____U-Tube

- ____ 4" Schedule 40 PVC or better
- ____ Horizontal and Vertical Sections half-slotted (typ. .06")
- ____ Sloped 1/4 inch per foot to well
- ____ 2 foot monitoring sump or greater
- ____ Caps at grade and below sump sealed to be leak proof

or,____Vault, Pan, or Trough

- ____ Synthetic Membrane Liner or Sealed Concrete
- ____ Sloped 1/4 inch per foot to monitoring well
- ____ Under each tank and of size to intercept leak from anywhere on tank
- ____ Minimum 2' monitoring well or sump

or,____Other---Describe

____ Leak Detection/Monitoring

____Pressurized Product Piping

- ____ Leak interception and direction system to monitoring well
- ____ Red Jacket (cannot be used alone)

____Overfill Protection

- ____ Fill Box sealed leak-proof
- ____ Visually monitored by facility operator

See back for items ↓

- Liner for W.O. tank not specified or shown on general arrangement drawing.
- W.O. tank piping has no secondary containment from tank to Hytrel trench
- W.O. tank is about 7' from service bay bldg.
- Tank sizes & labelings don't match from the application to the drawing.
- What capping & securing devices for the monitoring wells.
- Fiberglass pipe says Red Thread or Ciba-Geigy. Should specify before construction.
- No Workman's comp. on file for Stevens Constr.

HEALTH PERMIT INSTRUCTIONS

CONDITIONS AS FOLLOWS:

Standard Instructions

___ This conditional permit applies only to the modification of an existing facility involving _____

_____

_____

(Blank will list the construction specified in section D. of Application for Permit)

___ Note: All pertinent equipment and materials used in this construction are subject to identification and approval by the Permitting Authority prior to construction. This permit is issued contingent upon guaranteed compliance with the guidelines as determined by the Permitting Authority.

1 All construction to be as per facility plans approved by this department and verified by inspection by Permitting Authority.

2 Permittee must contact Permitting Authority for on-site inspection(s) with 48 hours advance notice.

3 Backfill material for piping and tanks to be as per manufacturers' specifications.

4 All underground metal product piping, fittings, and connections must be wrapped to a minimum 20-mil thickness with corrosion-preventive, product-resistant tape or otherwise protected from corrosion.

6 Float vent valves required on vent/vapor recovery lines of underground tank(s) as a prevention to overfillings.

9 Construction inspection record card is included with permit given to Permittee. This card must be posted at jobsite prior to initial inspection. Permittee must contact Permitting Authority and arrange for each group of required inspections numbered as per instructions on card. Generally, inspections will be made of:

A. Tank(s) and backfill
B. Piping system with secondary containment
leak interception/raceway
C. Overfill protection and leak detection/monitoring
D. Any other inspection deemed necessary by Permitting Authority.

5 All metal connections(e.g. piping, fittings, fill pipes) to tank(s) to be electrically isolated.

10. Monitoring requirements for this facility will be described on final "Permit to Operate".

Special Instructions

___ Permittee must clearly identify what substance(s) will be stored in the underground tank(s) and piping, and verify by chemical analysis, if necessary, compatibility of combined stored substances. No chemically incompatible substances may be combined in the underground tank(s) and piping. Documentation of compatibility must be submitted to Permitting Authority prior to construction.

___ Primary and secondary containment of both tank(s) and underground piping must not be subject to physical or chemical deterioration due to the substance(s) stored in them. Documentation from tank, piping, and seal manufacturers of compatibility with these substance(s) must be submitted to Permitting Authority prior to construction.

___ Provide design, method and materials for precluding any leakage or seepage at the piping/tank interface(s).

7 All tank inlets, outlets, and manway extension tubes must have seals both product-tight and product-compatible for substance(s) stored in the tank(s).

___ Spark testing(35,000 volts) required at site prior to installation of tank(s). Test(s) must be certified by the manufacturer, and a copy of test certification(s) supplied to the Permitting Authority.

Special Instructions (Cont.)

___ The vacuum gauge for each tank must have a secured access point for periodic leak monitoring and for vacuum system maintainence.

_8_ The following equipment and materials must be identified by manufacturer and model prior to their installation:

- ___ Tank(s)
- ___ Tank liquid level gauge(s)
- ___ Tank high level alarm(s)
- ___ Tank secondary containment automatic monitoring system(s)
- ___ Underground product piping
- ___ Secondary containment of underground product piping
- ___ Tank monitor fitting(s)
- _a._ Tank fill box(es)
- ___ Sealer used to secure fill box(es)
- ___ _____
- ___ _____

___ Permittee to provide "as-built drawings" prior to completion of project.

___ Vapor detector must be used with the leak interception system in order to meet monitoring requirements. The vapor detector must receive prior approval from the Permitting Authority in order to assure it will meet current monitoring performance standards.

Kern County Health Department
Division of Environmental Health
1700 Flower Street
Bakersfield, CA
(805) 861-3636

Application For Permit To Operate Underground Hazardous Materials Storage Facility

Permit No. _____

Application Date _____

Type of Application (check):

New Facility Construction ___ Modification of Existing Facility X Existing Facility ___ Transfer of Ownership ___

A Emergency 24-Hour Contact & Telephone Number Ernie Kirby 805 527-2473

Facility Name Texaco Assessor's Parcel Number 241-280-07

Facility Address Grapevine & I-5 T ___ R ___ Sec ___

Owner Tejon Ranch Co. Contact Elton Epley

Address P. O. Box 1000, Lebel, CA 93243 Telephone (805) 327-8481

Operator Texaco Contact Ernie Kirby

Address P. O. Box 3756, L.A., CA 90051 Telephone (213) 739-7621

B. Water to Facility Provided By Water Meter Depth to Groundwater Unknown

Soil Characteristics at Facility Unknown

Basis for Soil Type and Groundwater Depth Determinations Unknown

C. Contractor K. E. Curtis Construction CA. Contractor's License No. 293700

Address 1400 Old Canejo Rd. Telephone (805) 499-0428

Proposed Starting Date 2-1-85 Proposed Completion Date 2-15-85

D. Briefly Describe Modifications Proposed Replacement of existing O.G. storage tanks and piping

E. 1) Primary Containment:

Tank No.	Date Installed	Nominal Thickness	Capacity (Gals)	MFR/ Model	Type (FRP, Etc)	Coatings Int/Ext	Mat'l Stored	Prev. Mat'l Stored
1		.34	11,681	Xerxes 12,000	FRP	Fiberglass	Unleaded	N.A.
2		.34	9,816	10,000	FRP	Fiberglass	~~Regular~~ Diesel	N.A.
3		.34	9,816	10,000	FRP	Fiberglass	~~Super UL~~ Regular	N.A.
4		.34	7,950	8,000	FRP	Fiberglass	~~Diesel~~ Super UL.	N.A.
5		.34	550	550	FRP	Fiberglass	Waste Oil W.A.	N.A.

2) Secondary Containment

Tank No.	Material	Nominal Thickness	Capacity (Gals)	Construction Details
1	Fiberglass	.30	12,966	Xerxes double wall
2	Fiberglass	.30	11,100	Xerxes double wall
3	Fiberglass	.30	11,100	Xerxes double wall
4	Fiberglass	.30	8,825	Xerxes double wall
5	Fiberglass	.30	610	Xerxes double wall

3) Cathodic Protection XX N Describe ___

4) Piping: Pressure X Gravity ___ Mat'l Fiberglass A.O. Smith

Secondary Containment (Y) XX Describe Hytrel liner

5) Overfill Warning Device (Y) XX Describe Vent float valve OPW.

6) Leak Intercepting and Directing System Details (motor vehicle fuels only) Hytrel liner system - Trench + partial (over tanks)

7) Describe Leak Detection and Monitoring For: Tank(s) Universal leak detection system in secondary tank.

Piping Universal leak detection system in monitoring well of hytrel liner.

8) Water Intrusion Monitoring and Removal Device for Secondary Containment (Y) N Describe Universal leak detection system

Date of Transfer ___ Previous Owner ___ Previous Operator ___

Previous Facility Name ___

I, ___ accept fully all obligations of Permit No. ___ Issued To ___. I understand that the permitting authority may review and modify or terminate the transfer of the Permit to operate this underground storage facility upon receiving this completed form

Owner's Signature ___ Date ___

Submitted by Patt Faull Title CHIEF ENGINEER

Date Received 1-14-85
Accepted By

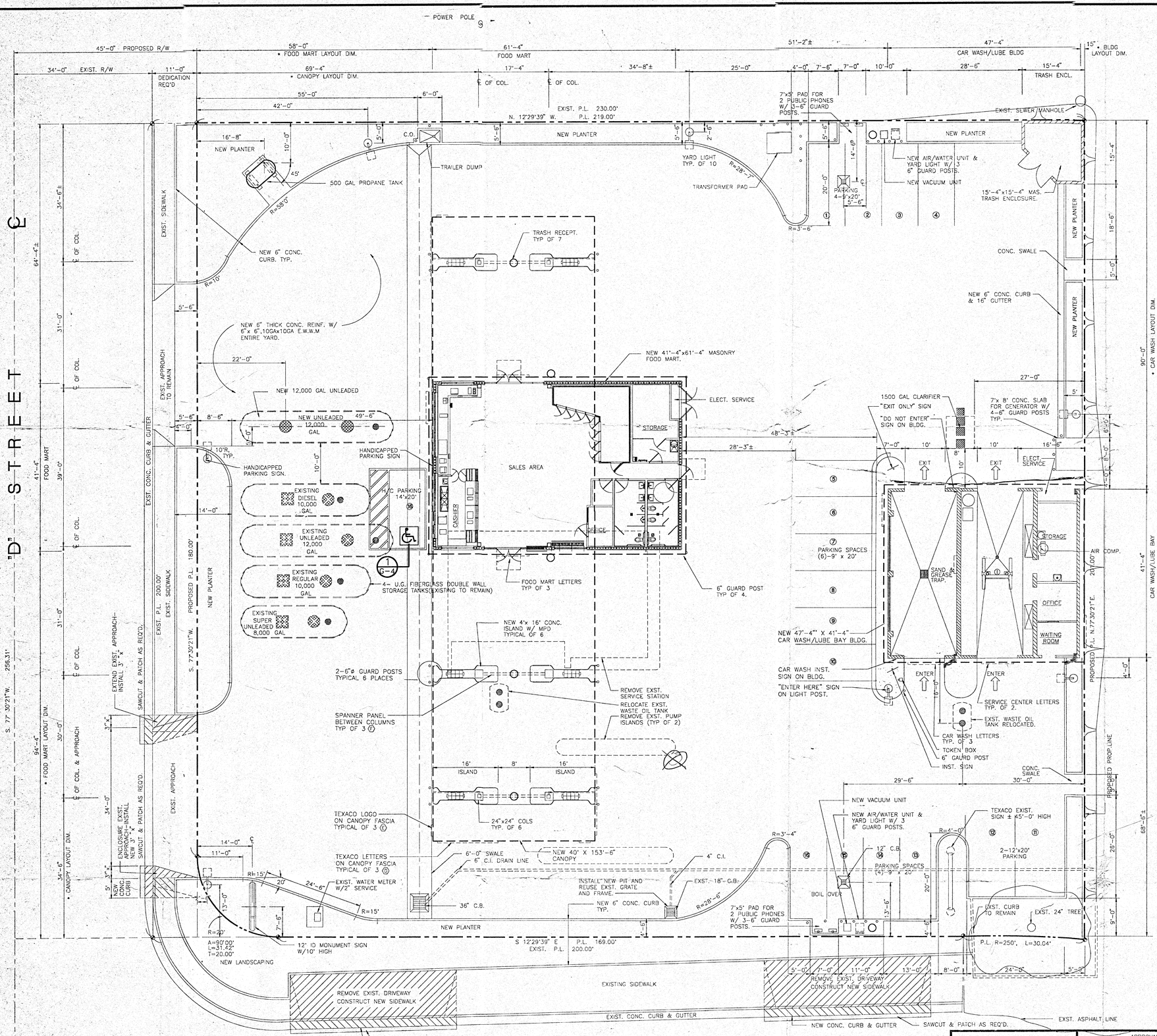
Name of Facility Texaco Service Station
Address Grapevine & I-5
Owner/Contact Tejon Ranch Co. Phone Number Elton Epley (805) 327-8481

✓ Application Attached
✓ Plot Plan (3 sets) 5
✓ Construction Drawings (3 sets) 5
✓ Completion Card

Hours:

Plans Checked By: BS. 2-5-85
Date:
Date Plans Picked-Up: By (signature)
1½ hr. Inspections: 1st Insp. 3-7-85 B.S.
(Final Designated By "F")

TOTAL HOURS:
x $35.00
Total
Plan Check/Inspection Fee



APPLICANT

TEXACO REFINING & MARKETING INC.
10 UNIVERSAL CITY PLAZA, 4TH. FLOOR.
P.O BOX 7812
UNIVERSAL CITY, CA. 90051-1756
ATTN: GARY WING
PHONE NO.: (818) 505-2042

PROJECT INFORMATION

I. SITE

A. LOT AREA — GROSS 46,228 SQ.FT. / NET 43,714 SQ.FT.
B. ZONING — EXISTING C-2 PD
C. ASSESSORS PARCEL NUMBER 241-280-07-00-0
D. CASE NUMBER
E. LANDSCAPING — REQUIRED 2186(5%) SQ.FT. / PROVIDED 3380 SQ.FT.

II. BUILDING AREA

A. FOOD MART 40'-0"x60'-0" (2,400 SQ.FT)
B. CANOPY 40'-0"x153'-6" (6,140 SQ.FT)
C. CAR WASH/SERVICE BAY 18'-0"x41'-4"/28'x41'-4" (1,901 SQ.FT)
D. PERCENT OF LOT COVERAGE (EXCLUDING CANOPY) 9.8 %

III. OCCUPANCY

A. FOOD MART B-2
B. CANOPY B-1
C. CAR WASH/SERVICE BAY B-1

IV. TYPE OF CONSTRUCTION

A. FOOD MART V-N
B. CANOPY II-N
C. CAR WASH/SERVICE BAY V-N

V. PARKING

A. 16 STANDARD SPACES 9'x20'
B. 1 HANDICAP SPACE(S) 14'x20'
C. 0 COMPACT SPACE(S) 8'x18'
D. 0 PARALLEL SPACE(S)
E. 15 TOTAL PARKING SPACES REQUIRED (1 PER 300S.F. OF BLDG.)
F. 17 TOTAL PARKING SPACES PROVIDED

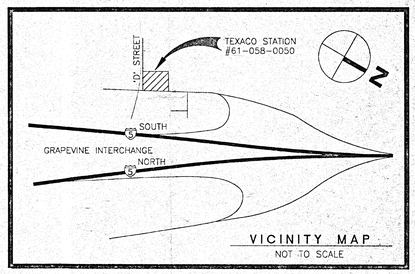
LEGAL DESCRIPTION

THAT PORTION OF THE RANCHO CASTAIC, IN THE UNINCORPORATED AREA, COUNTY F KERN, STATE OF CALIFORNIA, AS PATENTED TO JOSE MARIA COVARRUBIAS BY ATENT RECORDED IN BOOK 1, PAGE 203 OF PATENTS, DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTH LINE OF SECTION 8, TOWNSHIP 10 ORTH, RANGE 19 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF KERN, TATE OF CALIFORNIA, APPROXIMATELY 50 FEET EAST OF THE SOUTHWEST CORNER F SECTION 8, SAID POINT BEING ON THE CENTER LINE OF THE 1956 SURVEY OF TATE HIGHWAY KER)V)RTE)4)SEC)8; THENCE SOUTH 14 DEGREES 02 MINUTES AST, 4625 FEET ALONG THE CENTER LINE OF SAID 1956 SURVEY OF STATE IGHWAY; THENCE AT RIGHT ANGLES SOUTH 75 DEGREES 58 MINUTES WEST, 42.00 EET; THENCE SOUTH 14 DEGREES 02 MINUTES EAST, 219.62 FEET ALONG THE E" CENTER LINE OF THE 1957 SURVEY OF STATE HIGHWAY KER)V)RTE)4)SEC A ND B, THROUGH AN EQUATION IN HIGHWAY STATIONING, THENCE SOUTH 77 EGREES 30 MINUTES 10 SECONDS WEST, 96.91 FEET TO A POINT, SAID POINT ENG 96.90 FEET, MEASURED AT RIGHT ANGLES, WESTERLY OF STATION 550 LUS 38.57 ON SAID 1957 SURVEY; THENCE SOUTH 72 DEGREES 43 MINUTES 04 ECONDS WEST, 135.00 FEET; THENCE SOUTH 75 DEGREES 58 MINUTES 00 SECONDS EST, 250.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 12 EGREES 29 MINUTES 39 SECONDS EAST, 200.00 FEET; THENCE AT RIGHT ANGLES OUTH 77 DEGREES 30 MINUTES 21 SECONDS WEST, 200.00 FEET; THENCE AT IGHT ANGLES NORTH 12 DEGREES 29 MINUTES 39 SECONDS WEST, 230.00 FEET; HENCE NORTH 77 DEGREES 30 MINUTES 21 SECONDS EAST, 200.00 FEET; THENCE OUTH 12 DEGREES 29 MINUTES 39 SECONDS EAST 30.00 FEET TO THE TRUE OINT OF BEGINNING.

APPROVED
FOR ZONE REQUIREMENTS ONLY
BY: [illegible]
DATE: 9-10-91 ZONE: C-2 PD
FOR: Use of 12,000 gal tank at
Approved w/minor changes as necessary
to Approved C-2 PD #[illegible]
addl as per plot plan.

PLAN APPROVED
KERN COUNTY
ENVIRONMENTAL HEALTH SERVICES DEPT.
2700 "M" St., Suite 300
Bakersfield, CA. 93301
Phone (805) 861-3636
Date: 9/3/91 By: [signature]



VICINITY MAP
NOT TO SCALE

APPROVAL RECORD			
MILESTONE	DATE	APPROVAL	
ISSUED FOR C.U.P.			
ISSUED FOR PLAN CHECK	7/11/91	8/8	
ISSUED FOR GEN. BID			
ISSUED FOR CONSTRUCT.			
RECORD DRAWING			

REVISIONS				
NO.	DATE	REVISED	BY	APP.
1	5/15/91	ADDED PUBLIC PHONE PADS	PJC	
2	6/17/91	REPLACED BLDGS,ADDED DIMS	PJC	

CONTRACTOR TO CONTACT
UNDERGROUND SERVICE ALERT
1-800-642-2444
CALL USA/SC
FOR UNDERGROUND LOCATING
2 WORKING DAYS BEFORE YOU DIG

PROPRIETARY AND CONFIDENTIAL INFORMATION
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PLANS AND SPECIFICATIONS PREPARED BY:
FRED FIEDLER & ASSOCIATES
2322 WEST THIRD STREET
LOS ANGELES, CALIFORNIA 90057
PHONE: (213) 381-7891
FAX: (213) 381-1517

TEXACO
REFINING AND MARKETING,INC.
LOS ANGELES OPERATIONS DIVISION

GENERAL ARRANGEMENT

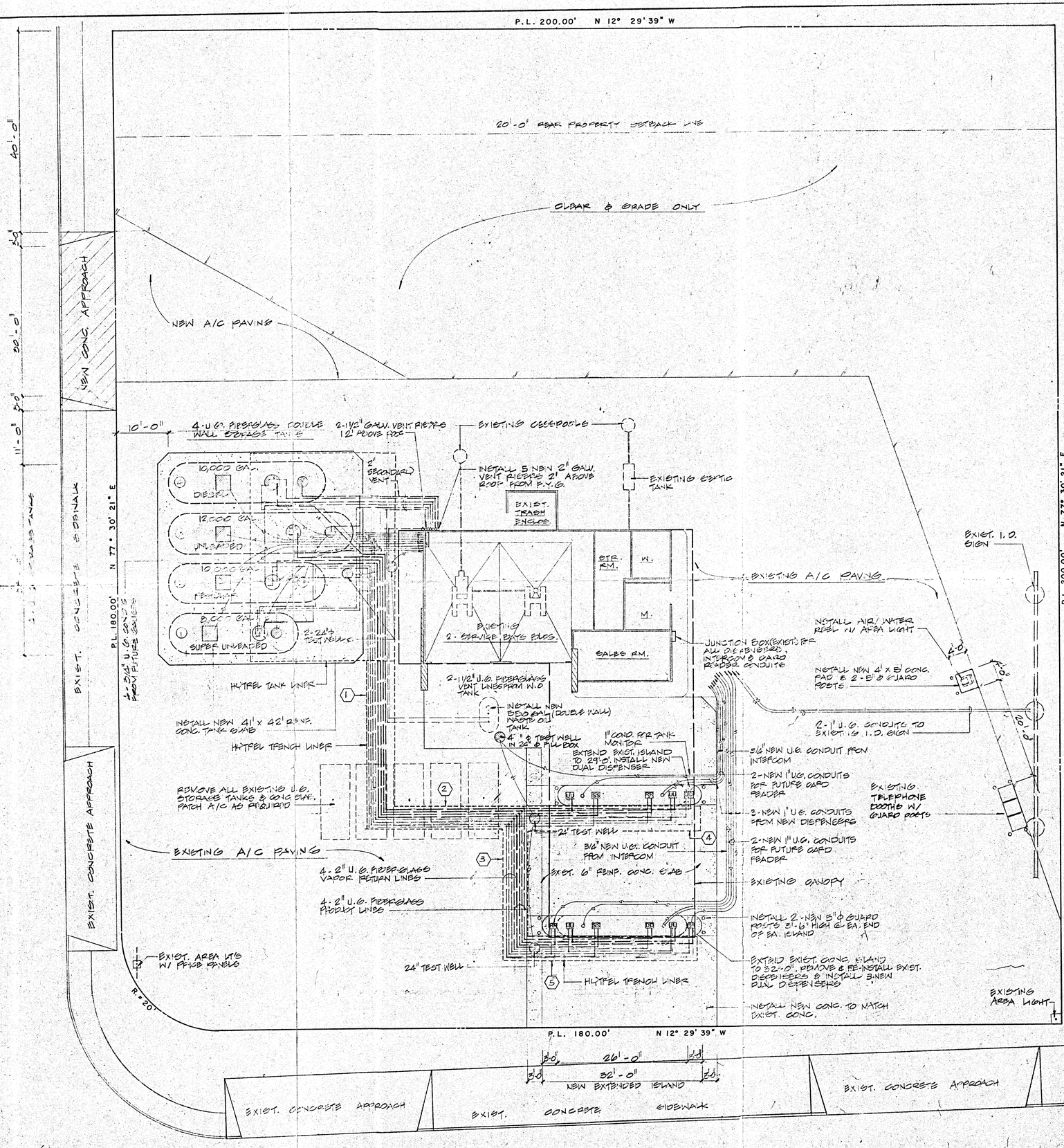
9069 GRAPEVINE ROAD WEST
& INTERSTATE 5
GRAPEVINE, CALIFORNIA

SCALE 1"=10'-0"	JOB NO. FF1363	APPROVED	
DRAWN BY P.J. CARR	DATE 8/22/90	DRAWING NO. G-1	
CHECKED BY 8/8	DATE 6-28-91	SHEET 3 OF 30	
S.S. 61-058-0050		LAOD-065	

\\CAD\TEXACO\065-GA 5/11/91

3300357

USE IN PLOT PLAN



NORTH

LEGEND

- U.G. FIBERGLASS PRODUCT LINES
- U.G. FIBERGLASS VAPOR & VENT LINES
- OUTLINE OF HYTREL LINER

HYTREL BILL OF MATERIALS	
QUANTITY	DESCRIPTION
1	55' x 30' PAN
1	BOOT PENETRATIONS
1	TEE (S)
2	90° ELL (S)
	45° ELL (S)
11	18" DISPENSER PANS
5	VENT PENETRATION (S)
13	ELECT. PENETRATION (S)
STRAIGHT LINER RUNS	
30	Nº 1
22	2
21	3
35	4
35	5
	6
	7
	8
	9
	10
	11
	12

DESCRIPTION OF PROJECT

REFERENCE DRAWINGS

NO.	LOC	TITLE

REVISED

MARK	REVISIONS	BY	DATE	APPV'D
1	REVISED PER TEXACO	PFA	2-10-84	

TEXACO INC.
LOS ANGELES DISTRIBUTION CENTER

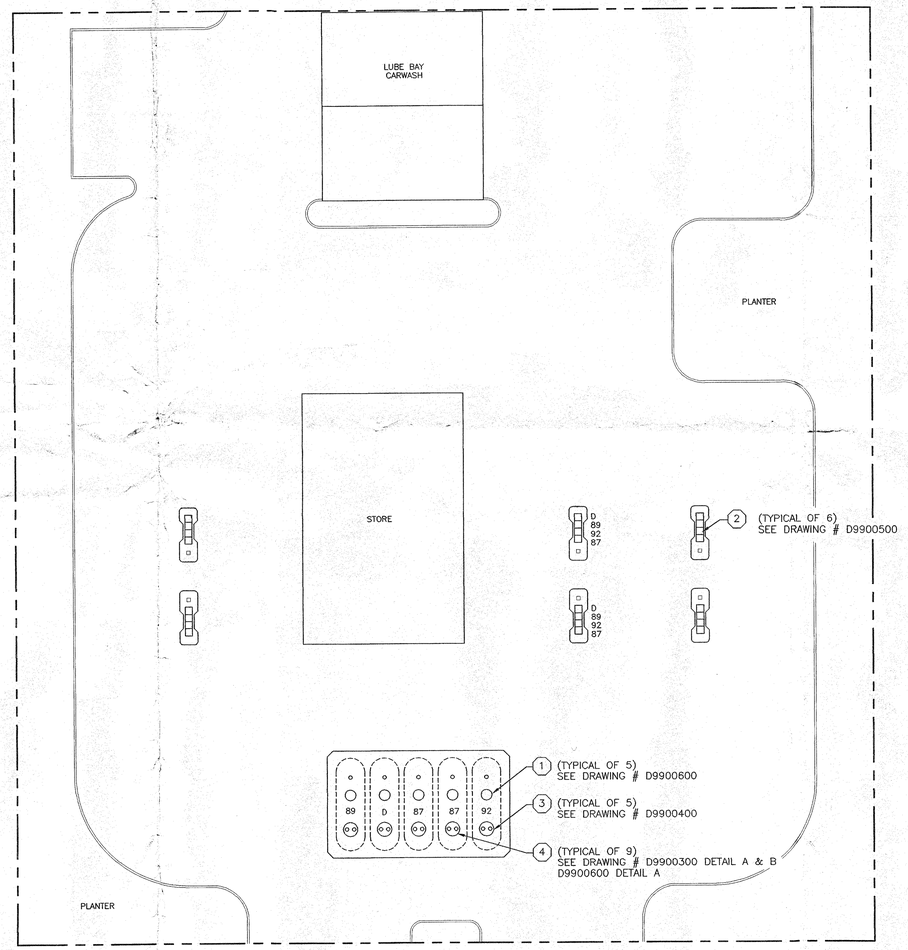
PROPOSED TANK INSTALLATION
INTERSTATE 5 & GRAPEVINE INTERSECTION
LEBECK, CALIFORNIA

PLANS & SPECIFICATIONS PREPARED BY:
FRED FIEDLER AND ASSOCIATES
2322 WEST THIRD STREET
LOS ANGELES, CALIFORNIA 90057
PHONE: 381-7881

SCALE		APPROVED	
DRAWN BY PFA-LIM	DATE 11-8-83		
TRACED BY	DATE		
CHECKED BY	DATE		

LOC-695

FF-1785



PLAN
NORTH

SCOPE OF WORK

1. CONCRETE TO BE BROKEN AND THE TURBINE CONTAINMENT SUMPS BE REPLACED. SUMP INSTALLATION INCLUDES THE GLASSING OF A NEW 52" SUMP TO THE TOP OF THE TANK, PENETRATION FITTINGS WHERE PIPING AND CONDUIT MEET THE NEW SUMP WALL, NEW TURBINE FLEX CONNECTORS, NEW SUMP SENSORS TO DETECT LEAKS, NEW TOP HATS AND LIDS, AND A NEW 42" WATER-TIGHT COMPOSITE MANWAY.

2. INSTALL NEW DISPENSER PANS AND SENSORS AS PROVIDED BY EQUILON.

3. INSTALL A 3" TANK MANIFOLD AT THE FILL AND VAPOR BUCKETS TO PROPERLY EQUALIZE THE TANK.

4. STAGE II VAPOR RECOVERY MANIFOLD. INSTALL NEW SPILL CONTAINMENT BUCKETS WITHIN CONTAINED RISERS. REPLACEMENT WILL REQUIRE REMOVAL OF CONCRETE AND THE EXCAVATION OF PEA GRAVEL TO THE TANK TOPS. WPI WILL INSTALL 6" FRP CONTAINMENT COLLARS, 6" FRP RISER TERMINATION BOOTS, SENSORS FOR LEAK DETECTION AND NEW AGENCY AND EQUILON APPROVED FILL AND VAPOR CONTAINMENT BUCKETS. ADDITIONALLY, NEW DROP TUBES AND TANK BOTTOM PROTECTORS WILL BE INSTALLED.

5. REPIPE APPROXIMATELY 200 FEET OF PRODUCT AND VAPOR LINES USING AMERON DUALOY 300 LCX FOR PRODUCT, AND AMERON FRP SINGLE WALL 3" AND 2" FOR VAPOR AND VENT PIPING. SEE DRAWING # D9900400

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

TEXACO SERVICE STATION
9069 GRAPEVINE WEST
LEBEC, CA

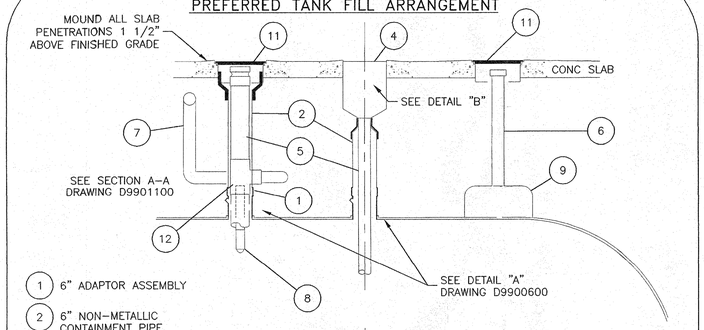
PLOT PLAN

Wayne Perry, Inc.
8281 COMMONWEALTH AVE.
BUENA PARK, CA 90621
(714) 826-0352

SIZE	FSCM NO.	DWG NO.	REV
D		00/205000PP	0
SCALE 1" = 20'	DATE –	SHEET 1 OF 1	

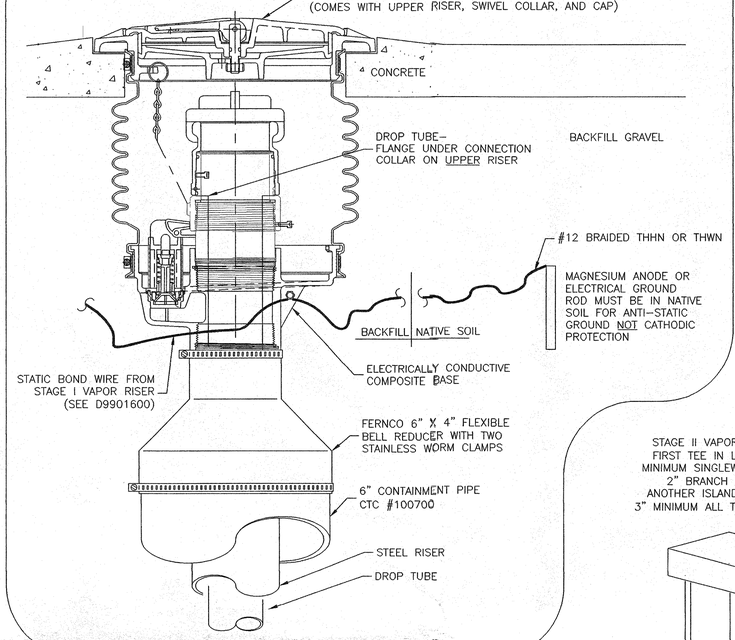
05-05-98-2003

DETAIL "A"
PREFERRED TANK FILL ARRANGEMENT

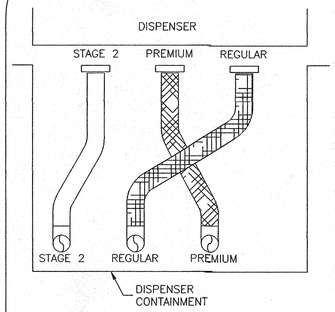


1. 6" ADAPTOR ASSEMBLY
2. 6" NON-METALLIC CONTAINMENT PIPE
3. OPTIONAL SECOND FILL
4. 5 GALLON OPW 1SC-05-EQ SEALED LID FILL CONTAINMENT WITH OPW 615A SWIVEL ADAPTOR SEE NOTE BELOW
5. STEEL RISER.
6. ABS OR PVC RISER.
7. STG I & II VAP. REC., 3" FIBERGLASS MANIFOLD, AND 3" FIBERGLASS VENT LINES.
8. 3" BALL FLOAT
9. INTERSTITIAL RESERVOIR
11. UNIVERSAL VALVE 62 WEATHER-RESISTANT, LOCKABLE ACCESS BOX.
12. 4" BALL FLOAT HOUSING WITH 3" BELL X NPT ADAPTORS

DETAIL "B"



CROSSOVER CONFIGURATION



NOTE: NOT NORMAL CONFIGURATION; REQUIRED ONLY AS NEEDED

NOTES:

ARRANGEMENT IDENTICAL FOR MID-GRADE BLENDING EXCEPT ONLY TWO TANKS AND PRODUCT LINES ARE REQUIRED.

⚠ FOR ADDED DIESEL TANK, NO VAPOR RECOVERY IS REQUIRED. DO NOT INTERCONNECT GASOLINE AND DIESEL TANK VENTS.

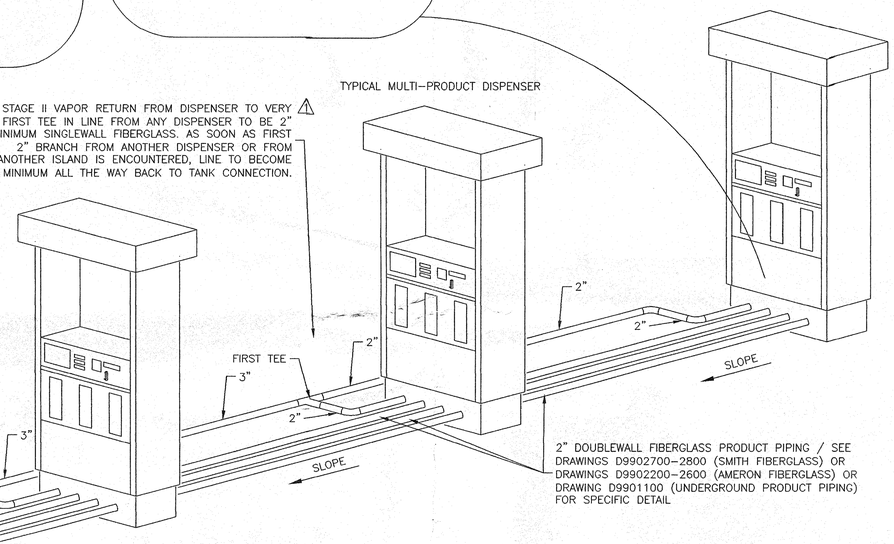
⚠ FOR ALCOHOL BLENDS OVER 10% (VOLUME) & ANY METHANOL: VAPOR RECOVERY IS STILL REQUIRED, HOWEVER ALCOHOL, VAPOR, AND VENT PIPING SHOULD BE TOTALLY SEPARTE EVEN IF ALL COMPONENTS OF ANOTHER FUEL SYSTEM ARE ALCOHOL COMPATIBLE. SYSTEMS MAY NOT BE INTERCONNECTED.

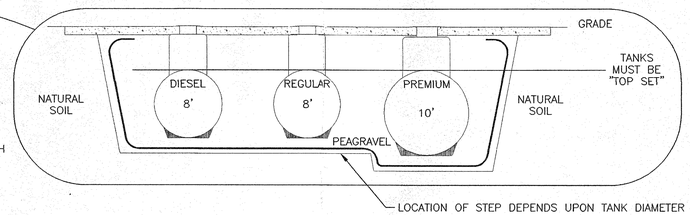
FOR MULTIPLE TANKS ON A SINGLE PRODUCT, 2" SINGLE-WALL FIBERGLASS SIPHON LOOP PREFERRED AS LONG AS BOTH TANKS ARE DOUBLE-WALL. SEE DRAWING D9901300.

⚠ FOR DIESEL INSTALLATIONS, NEITHER STAGE I NOR STAGE II VAPOR RECOVERY IS REQUIRED. HOWEVER, MULTIPLE TANKS MAY BE MANIFOLDED TOGETHER FOR VENTING PUPOSES IF ALL SUCH TANKS ARE DIESEL. DO NOT INTERCONNECT DIESEL TANKS WITH GASOLINE, GASOHOLS, OR ALCOHOL TANKS.

NOTE: TANKS TURNED 90° TO SHOW DETAIL

TYPICAL MULTI-PRODUCT DISPENSER





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REV	DATE	DESCRIPTION OF REVISION	BY	APP
1	JAN 2000	SEMI-ANNUAL UPDATE	JDS	GRM

EQUILON ENTERPRISES LLC · MOTIVA ENTERPRISES LLC · EQUIVA SERVICES LLC

Shell · Texaco

12700 Northborough Drive
Houston TX 77067-2508

APPROVALS

DISTRICT MANAGER

AREA TECHNICAL MANAGER

TERMINAL MANAGER

ENGINEER G. D. Marshall

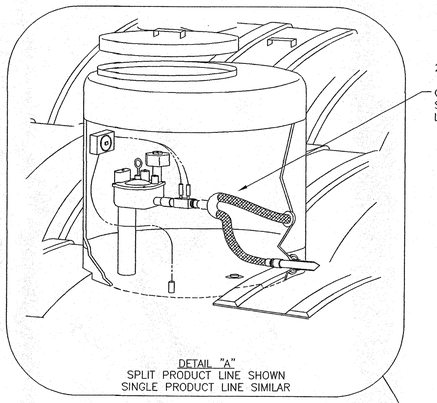
0 0 0
GRAPHIC SCALE

TEXACO SERVICE STATION
9069 GRAPEVINE WEST
LEBEC, CA

SCALE:	SAP/WIC #	DATE:	DRAWN:	REQUESTED BY:	
NONE	800062	30 SE 1999	SHEDDRICK	MARSHALL	D9900300

ISLAND AND TANK FILL ARRANGEMENT

1. 6" ADAPTOR ASSEMBLY
2. 6" NON–METALLIC CONTAINMENT PIPE
3. OPTIONAL SECOND FILL
4. 5 GALLON OPW 1SC–05–EQ SEALED LID FILL CONTAINMENT WITH OPW 615A SWIVEL ADAPTOR
5. STEEL RISER.
6. ABS OR PVC RISER.
7. STG I & II VAP. REC., 3" MANIFOLD, AND 3" VENT LINES.
8. 3" BALL FLOAT
9. INTERSTITIAL RESERVOIR
11. UNIVERSAL VALVE 62 WEATHER–RESISTANT, LOCKABLE ACCESS BOX.
12. 4" BALL FLOAT TEE HOUSING WITH 3" BELL X NPT ADAPTORS



DETAIL "A"
SPLIT PRODUCT LINE SHOWN
SINGLE PRODUCT LINE SIMILAR

2" NPT WYE FITTING OR TEE

OPTIONAL 2" BALL VALVES MAY BE INSTALLED SO TANK MAY REMAIN OPERATIONAL WHILE ONE LINE IS BEING REPAIRED

TYPICAL MULTI–PRODUCT DISPENSER

STAGE II VAPOR RETURN FROM DISPENSER TO VERY FIRST TEE IN LINE FROM ANY DISPENSER TO BE 2" MINIMUM SINGLEWALL FIBERGLASS. AS SOON AS FIRST 2" BRANCH FROM ANOTHER DISPENSER OR FROM ANOTHER ISLAND IS ENCOUNTERED, LINE TO BECOME 3" MINIMUM ALL THE WAY BACK TO TANK CONNECTION. ⚠1

FIRST TEE

ONLY ONE FILL PER TANK SHOWN FOR CLARITY.
20 THOUSAND GALLON – TWO FILLS, MANDATORY
10 AND 12 THOUSAND GALLON – TWO FILLS, OPTIONAL

PV CAP OR RAIN CAP PER LOCAL REQUIREMENTS

SEE DETAIL "A"

INTERSTICE

VAPOR RECOVERY ⚠1

GAUGE

TURBINE

SEE DETAIL "A"

3" OR 4" SINGLE–WALL VAPOR RECOVERY RETURN, 3" VENT, & 3" VAPOR MANIFOLD. MINIMUM VERTICAL RISE OF MANIFOLD TO BE 24" ABOVE TANK TOPS. ⚠1

ALL PRODUCT AND VENT LINES NOT SHOWN FOR CLARITY

CONCRETE FOOTING

0'–1" MAX

FIBERGLASS STEEL

SLOPE

SEE DETAIL "A" DRAWING D9900600

TYPICAL OF EACH SUMP

INNER WALL

INTERSTICE

3" SNGLWL FGLS VENT WITH CORROSION PROTECTED FLEX CONNECTOR AT VERTICAL STANDING SECTION. ABOVE GRADE PORTION TO BE MINIMUM SCHED 40 GALV STEEL WITH STRUCTURAL SUPPORTS.

STEEL SHIELD PLATES (TYPICAL)

OUTER WALL

DOUBLEWALL FIBERGLASS TANK WITH HYDROSTATIC INTERSTITIAL MONITORING. ALL TANKS FURNISHED BY THE ALLIANCE AND COME FROM MANUFACTURER WITH INTEGRAL RING–MOUNTED TURBINE POD (MANYWAY AND COMPRESSION FITTING POD MOUNTS ARE NOT PERMITTED FOR NEW TANK INSTALLATIONS). SEE "NOTES" ON THIS DRAWING.

2" DOUBLEWALL FIBERGLASS PRODUCT PIPING / SEE DRAWINGS D9902900–3000 (SMITH FIBERGLASS) OR DRAWINGS D9902400–2800 (AMERON FIBERGLASS) OR DRAWING D9901100 (UNDERGROUND PRODUCT PIPING) FOR SPECIFIC DETAIL

NOTE: TANKS TURNED 90° TO SHOW DETAIL

NOTES:

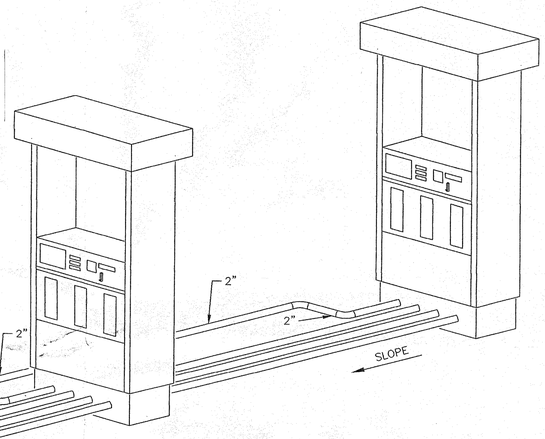
ARRANGEMENT IDENTICAL FOR MID–GRADE BLENDING EXCEPT ONLY TWO TANKS AND PRODUCT LINES ARE REQUIRED.

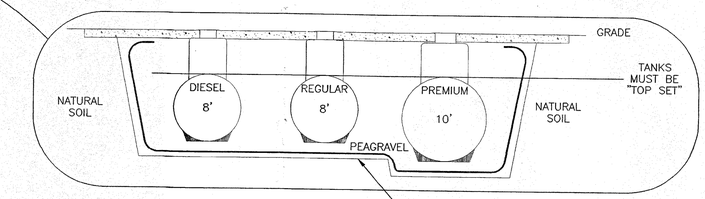
⚠1 FOR ADDED DIESEL TANK, NO VAPOR RECOVERY IS REQUIRED. DO NOT INTERCONNECT GASOLINE AND DIESEL TANK VENTS.

⚠1 FOR ALCOHOL BLENDS OVER 10% (VOLUME) & ANY METHANOL: VAPOR RECOVERY IS STILL REQUIRED, HOWEVER ALCOHOL, VAPOR, AND VENT PIPING SHOULD BE TOTALLY SEPARTE EVEN IF ALL COMPONENTS OF ANOTHER FUEL SYSTEM ARE ALCOHOL COMPATIBLE. SYSTEMS MAY NOT BE INTERCONNECTED.

FOR MULTIPLE TANKS ON A SINGLE PRODUCT, 2" SINGLE–WALL FIBERGLASS SIPHON LOOP PREFERRED AS LONG AS BOTH TANKS ARE DOUBLE–WALL. SEE DRAWING D9901300.

⚠1 FOR DIESEL INSTALLATIONS, NEITHER STAGE I NOR STAGE II VAPOR RECOVERY IS REQUIRED. HOWEVER, MULTIPLE TANKS MAY BE MANIFOLDED TOGETHER FOR VENTING PUPOSES IF ALL SUCH TANKS ARE DIESEL. DO NOT INTERCONNECT DIESEL TANKS WITH GASOLINE, GASOHOLS, OR ALCOHOL TANKS.





LOCATION OF STEP DEPENDS UPON TANK DIAMETER SELECTED

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REV	DATE	DESCRIPTION OF REVISION	BY	APP
1	JAN 2000	SEMI–ANNUAL UPDATE	JDS	GRM

EQUILON ENTERPRISES LLC
MOTIVA ENTERPRISES LLC
EQUIVA SERVICES LLC
Shell
Texaco

12700 Northborough Drive
Houston TX 77067-2508

APPROVALS

DISTRICT MANAGER

AREA TECHNICAL MANAGER

TERMINAL MANAGER

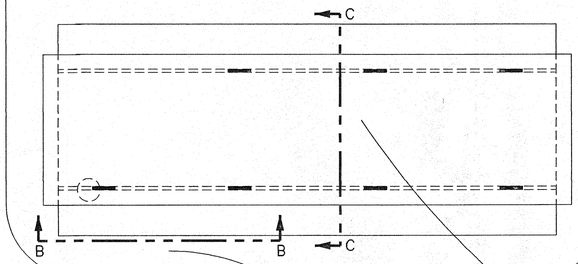
ENGINEER

0 0 0
GRAPHIC SCALE

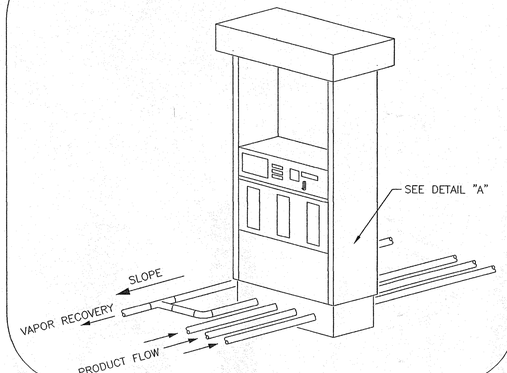
TEXACO SERVICE STATION
9069 GRAPEVINE WEST
LEBEC, CA

SCALE:	SAP/WIC #	DATE:	DRAWN:	REQUESTED BY:	
NONE	800062	30 SE 1999	SHEDDRICK	MARSHALL	D9900400

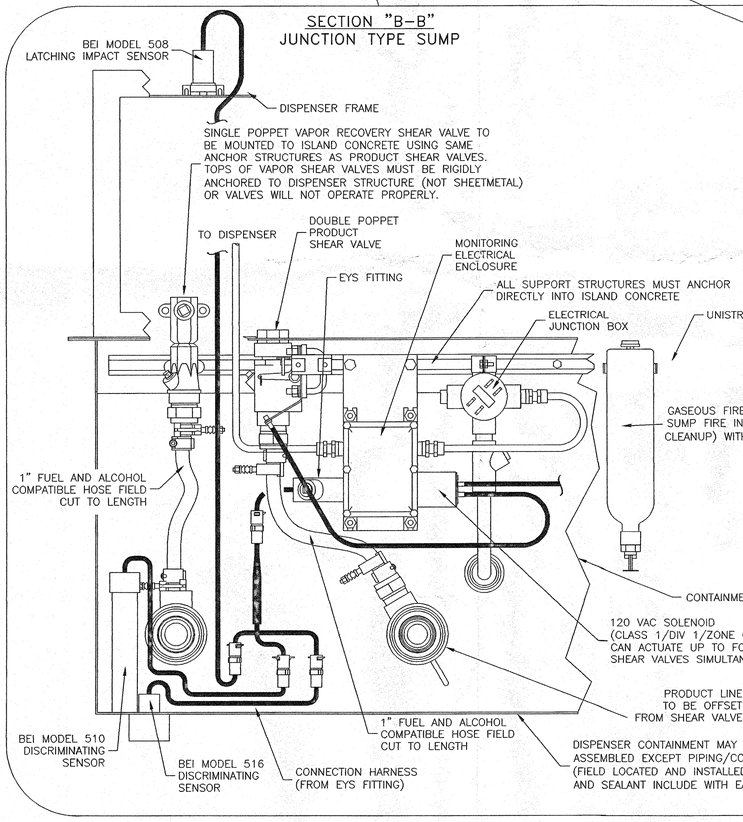
PLAN VIEW
TYPICAL MULTIPRODUCT DISPENSER



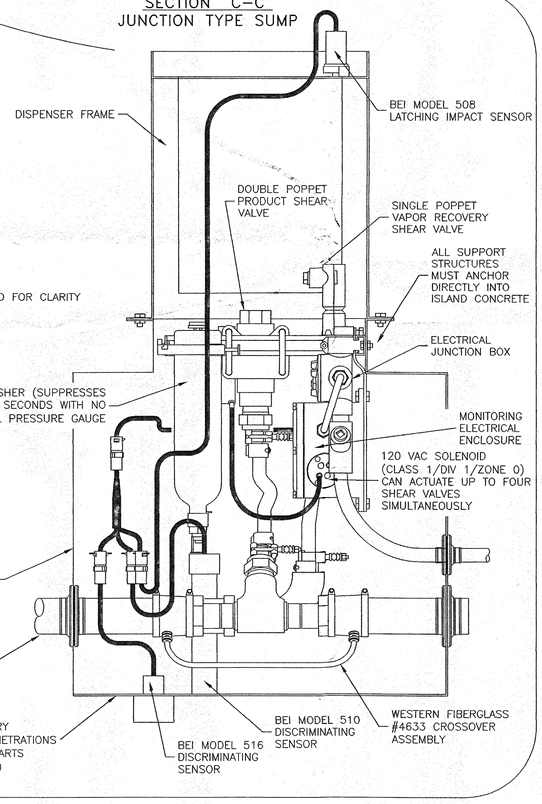
ISOMETRIC
TYPICAL MULTIPRODUCT DISPENSER



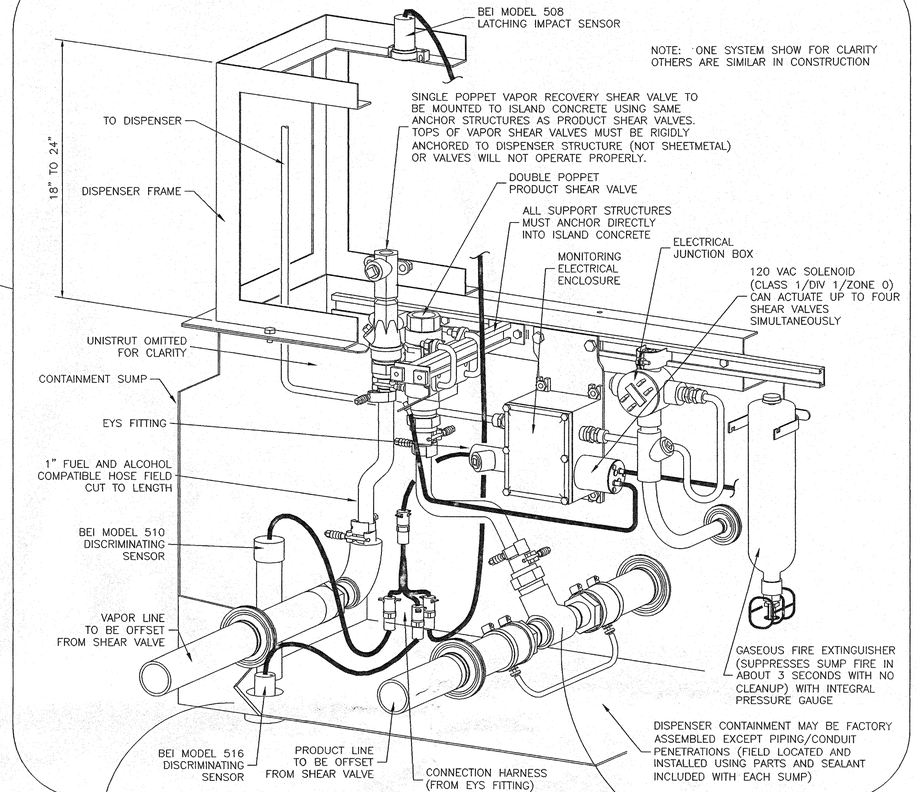
SECTION "B–B"
JUNCTION TYPE SUMP



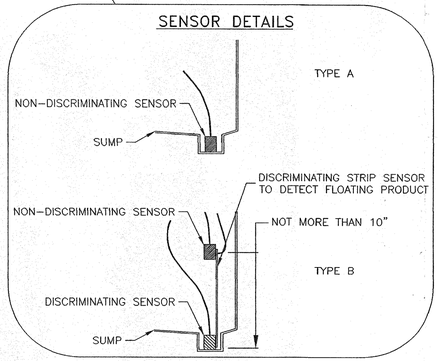
SECTION "C–C"
JUNCTION TYPE SUMP



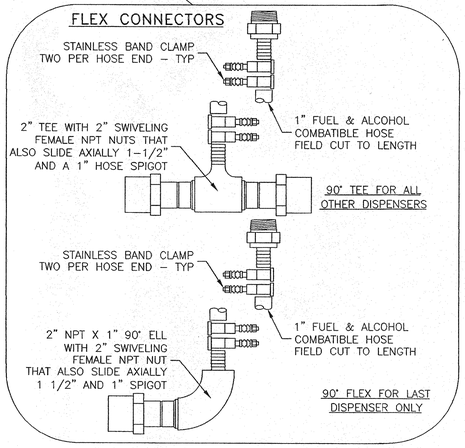
DETAIL "A"
DISPENSER CONTAINMENT



SENSOR DETAILS



FLEX CONNECTORS



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EQUILON ENTERPRISES LLC
MOTIVA ENTERPRISES LLC
EQUIVA SERVICES LLC
Shell
Texaco
12700 Northborough Drive
Houston TX 77067-2508

APPROVALS

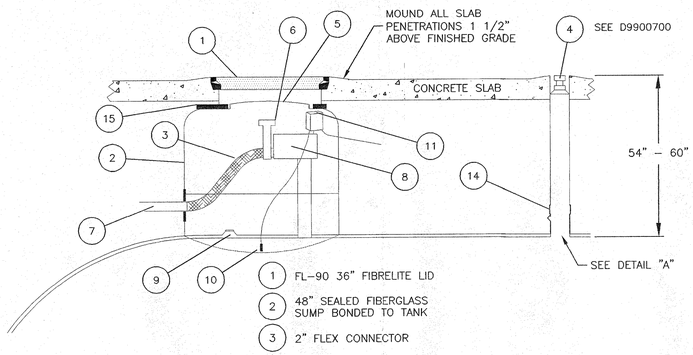
DISTRICT MANAGER
AREA TECHNICAL MANAGER
TERMINAL MANAGER
ENGINEER

0 0 0
GRAPHIC SCALE

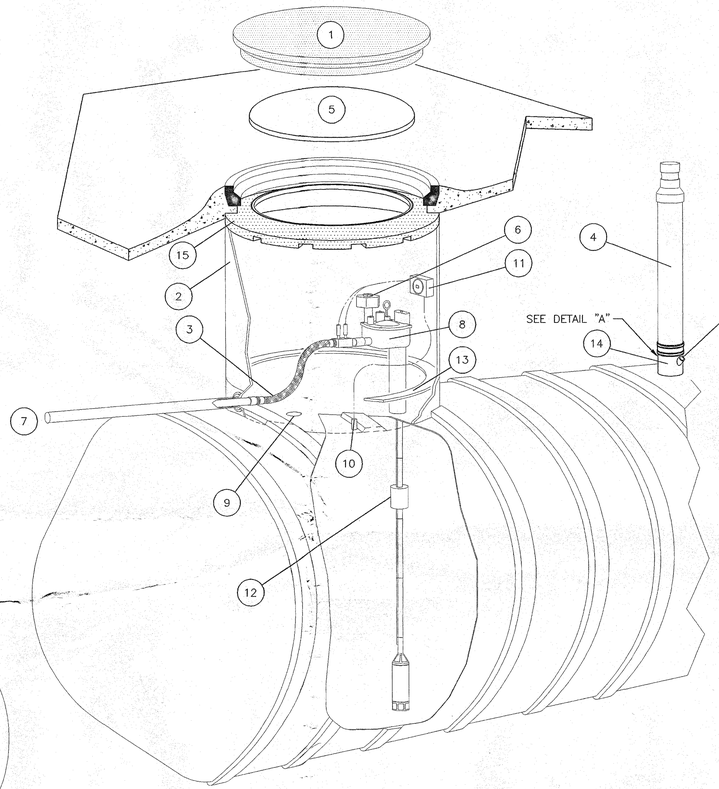
TEXACO SERVICE STATION
9069 GRAPEVINE WEST
LEBEC, CA

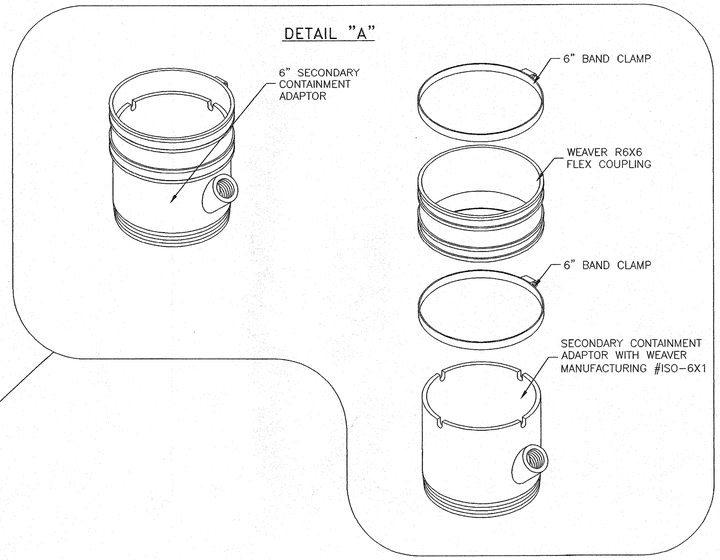
SCALE:	SAP/WIC #	DATE:	DRAWN:	REQUESTED BY:	
NONE	800062	30 SE 1999	SHEDDRICK	MARSHALL	D9900500

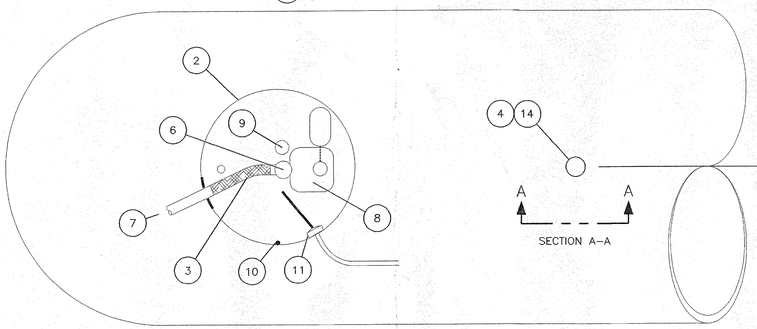
TURBINE SUMP

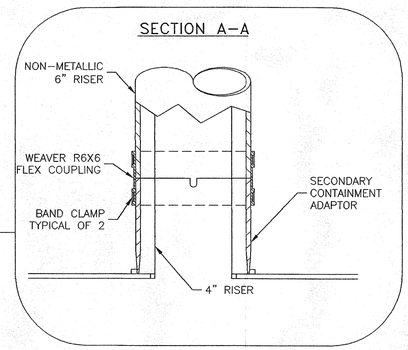


1. FL–90 36" FIBRELITE LID
2. 48" SEALED FIBERGLASS SUMP BONDED TO TANK
3. 2" FLEX CONNECTOR
4. ELECTRONIC TANK GAUGE AND NON–METALLIC RISER
5. SUMP CAP
6. ELECTRONIC LINE LEAK DETECTOR
7. 2"/3" OR 2"/4" DOUBLE WALL FIBERGLASS PRODUCT LINE
8. TURBINE
9. SPARE BUNG
10. ELECTRONIC LIQUID SENSOR
11. EYS SEALOFF, X–PROOF J–BOX, AND CONDUIT
12. FE PETRO VL "Z" LENGTH ADJUSTMENT DEVICE
13. BONDED FLANGE – NO BOLTS
14. WEAVER SECONDARY CONTAINMENT ADAPTOR
15. 2 LAYERS OF 1" FOAM PADDING WITH DRAINAGE SLOTS IN BOTTOM LAYER









REFERENCE DRAWING – D9900700

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REV	DATE	DESCRIPTION OF REVISION	BY	APP
1	JAN 2000	SEMI–ANNUAL UPDATE	JDS	GRM

EQUILON ENTERPRISES LLC (Shell & Texaco Working Together)
MOTIVA ENTERPRISES LLC (Shell, Texaco & Saudi Aramco Working Together)
Shell
Texaco
EQUIVA SERVICES LLC

12700 Northborough Drive
Houston TX 77067-2508

APPROVALS

DISTRICT MANAGER

AREA TECHNICAL MANAGER

TERMINAL MANAGER

ENGINEER G. D. Marshall

0 0 0
GRAPHIC SCALE

TEXACO SERVICE STATION
9069 GRAPEVINE WEST
LEBEC, CA

SCALE:	SAP/WIC #	DATE:	DRAWN:	REQUESTED BY:	
NONE	800062	6 MAY 1999	SHEDDRICK	MARSHALL	D9900600

MILLER BROOKS
Environmental, Inc.

2442

March 17, 2006

03-21-06 16:51 RCVD

Ms. Laurel Funk
Kern County Resource Management Agency
Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, California 93301-2370

SITE: SHELL SERVICE STATION
9069 GRAPEVINE ROAD
LEBEC, CALIFORNIA
SAP No. 121190

RE: WASTE REMOVAL

Dear Ms. Funk:

Miller Brooks Environmental, Inc. (Miller Brooks), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), submits the enclosed non-hazardous waste manifests to document the removal of waste materials generated during Phase II investigation activities conducted in January/February 2006 at the Shell Service Station located at 9069 Grapevine Road, Lebec, California. Soil was removed from the site on March 1, 2006, and transported to the TPS Technologies, Inc. facility in Adelanto, California, for recycling. Decontamination rinse water was removed from the site on March 6, 2006, and transported to the Crosby & Overton facility in Long Beach, California, for recycling. This letter is submitted as a follow-up to the *Phase II Site Assessment Report* dated March 3, 2006.

If you have any questions regarding this site, please call me at (714) 500-5400 or Jeff Whitworth of Shell at (415) 924-6298.

Sincerely,
MILLER BROOKS ENVIRONMENTAL, INC.

Jeffrey R. Maxwell

Jeffrey R. Maxwell, PG 5648
Vice President/Senior Geologist

Enclosure: Non-Hazardous Waste Manifests

cc: Jeff Whitworth, Shell Oil Products US

01-155-0260-01

03100609

NO. 653419

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

GENERATING SITE: SHELL OIL # 121190

EPA I.D. NO. NOT REQUIRED

NAME: SHELL OIL PRODUCTS US

PROFILE NO.

ADDRESS: 20945 S. WILMINGTON — 9069 Grapevine

CITY, STATE ZIP: CARSON, CA 90810 — Lebec, CA 93243 — PHONE NO. ( )

ATTN: Jeff Whitworth

CONTAINERS: No. 1 VOLUME 55 GALLONS WEIGHT

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☒ DRUMS ☐ CARTONS ☐ OTHER

WASTE DESCRIPTION: NON-HAZARDOUS DECON WATER — GENERATING PROCESS: DECON RINSATE WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1 WATER		95-100%	5 RIPR #51351		
2 TPH		< 1%	6 INCIDENT # 97645228		
3 SOLIDS		0 - 5 %	7 BESI # 122553.02		
4			8		

PROPERTIES: pH 4-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: 24-HOUR EMERGENCY PHONE (800) 424-9300

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

LARRY MOOTHART (BESI on behalf of SOP US) — 3/6/06

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

EPA I.D. NO

NAME: B.E.S.I.

ADDRESS: 25971 TOWNE CENTRE DRIVE — SERVICE ORDER NO

CITY, STATE ZIP: LAKE FOREST, CA 92610 — PICK UP DATE

PHONE NO. 949-460-5200

ANDRES RIO — 3/6/06

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRUCK, UNIT, I.D. NO.

TSD FACILITY

EPA I.D. NO

NAME: CROSBY & OVERTON

DISPOSAL METHOD

ADDRESS: 1630 W 17TH STREET — ☐ LANDFILL ☒ OTHER 15

CITY, STATE, ZIP: LONG BEACH, CA 90813

PHONE NO: (562)532-5445

FAC# 121190

ID# 137104

Joe Duran — 3/10/06

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

GEN	OLD/NEW	L A	TONS	
TRANS		S B		
C/Q		RT/CD	HWDF NONE	DISCREPANCY

Manifest

TPST Soil Recyclers of CA
Non-Hazardous Soils

Manifest #:

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPST:	Load #
2-1-06		707/733	107	Zeolite	9 of 1

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	Generator's US EPA ID No
Shell Oil Products US 20345 S Wilmington Ave Carson, CA 90810	Person to Contact: Whitworth, Jeff FAX#:	Customer Account Number with TPST:
Consultant's Name and Billing Address:	**Consultant's Phone #:**	
Miller Brooks	(714) 960-4088 Person to Contact: Darlene Kelley FAX#:	Customer Account Number with TPST:
Generation Site (Transport from): *(name & address)*	**Site Phone #:**	**BTEX Levels** INCIDENT#:97645228
Shell Oil # 121190 9069 Grapevine Lebec, CA	Person to Contact:	**TPH Levels** SAP: 121190
	FAX#:	**AVC. Levels** RPR #:51350
Designated Facility (Transport to): *(name & address)*	**Facility Phone #:** (800) 862-8001	**Facility Permit Numbers**
TPST Soil Recyclers of California 12328 Hibiscus Avenue Adelanto, CA 92301	Person to Contact: Dellena Jeffrey FAX#: (760) 246-8004	
Transporter Name and Mailing Address:	**Transporter's Phone #:** (949) 460-5200	**Transporter's US EPA ID No:** CAR000165175
Belshire Environmental Services, Inc. 25971 Towne Centre Dr. Foothill Ranch, CA 92610 BES#: 121209.03	Person to Contact: Brian Cass FAX#: (949) 460-5210	**Transporter's DOT No:** 450847 **Customer Account Number with TPST:** 1000193

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐		Soil	51820	35760	16060
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					8.02

List any exception to items listed above: Scale Ticket# 30505

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way

Print or Type Name: Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year
Larry Moothart (BES) on behalf of SOP (US)		3	1	06

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
FRANK Salazar (Rig #1835ML)		3	1	06

Recycling Facility

Discrepancies:

FAC# 121190
ID# 136371

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
D. JEFFREY / J. PROVANSOL	3-1-6

Please print or type.

TRANSPORTER COPY

2442

330035

RO 0000319

MILLER BROOKS
Environmental, Inc.

March 10, 2006

~~03-13905804812OPAIN~~

Ms. Laurel Funk
Kern County Resource Management Agency
Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, California 93301-2370

~~03-13-06 16:30 ARNV~~

03-13-06 16:30 RCVD

SITE: SHELL SERVICE STATION
9069 GRAPEVINE ROAD
LEBEC, CALIFORNIA
SAP No. 121190

RE: PHASE II SITE ASSESSMENT REPORT

Dear Ms. Funk:

Miller Brooks Environmental, Inc. (Miller Brooks), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), submits the enclosed *Phase II Site Assessment Report* dated March 3, 2006, for the Shell Service Station located at 9069 Grapevine Road, Lebec, California. The report summarizes the results of Phase II drilling and soil sampling activities conducted at the site in January/February 2006 as part of site divestiture activities. Based on the investigation findings, which indicate no evidence of a significant petroleum hydrocarbon release to the subsurface adjacent to the gasoline and diesel underground storage tanks (USTs), waste oil UST, or fuel dispensers, it is the opinion of Miller Brooks that no further action is warranted at this site.

If you have any questions regarding this report, please call me at (714) 500-5400 or Jeff Whitworth of Shell at (415) 924-6298.

Sincerely,
MILLER BROOKS ENVIRONMENTAL, INC.

Jeffrey R. Maxwell

Jeffrey R. Maxwell, PG 5648
Vice President/Senior Geologist

Enclosure

cc: Jeff Whitworth, Shell Oil Products US (w/o encl.)

01-155-0261-01

2124 Main Street, Ste. 200 • Huntington Beach, CA 92648-6450 • Telephone: (714) 960-4088 • Fax: (714) 960-2462

PHASE II
SITE ASSESSMENT REPORT

SHELL SERVICE STATION
9069 GRAPEVINE ROAD
LEBEC, CALIFORNIA

MARCH 3, 2006

MILLER BROOKS
Environmental, Inc.

PHASE II
SITE ASSESSMENT REPORT

SHELL SERVICE STATION
9069 GRAPEVINE ROAD
LEBEC, CALIFORNIA

Prepared For:

Mr. Jeff Whitworth
SHELL OIL PRODUCTS US
20945 S. Wilmington Avenue
Carson, California 90810

By:

MILLER BROOKS ENVIRONMENTAL, INC.
2124 Main Street, Suite 200
Huntington Beach, California 92648
(714) 500-5400

Project Number 01-155-0261-01

March 3, 2006

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1 Results of Laboratory Analysis of Soil Samples

Figures

1 Vicinity Map
2 Site Plan

Appendices

A General Field Procedures and Boring Logs
B Official Laboratory Reports and Chain of Custody Records

1.0 INTRODUCTION

This report presents the results of Phase II environmental site assessment activities performed at the Shell Service Station located at 9069 Grapevine Road, Lebec, California (see Figure 1). The purpose of this investigation was to identify and assess environmental characteristics of the site that could impact the present or future use.

Work activities conducted as part of this investigation included the performance of site investigation in the areas of the gasoline and diesel underground storage tanks (USTs), waste oil UST, and fuel dispenser islands to evaluate the potential impacts to the subsurface from petroleum hydrocarbons stored on site.

2.0 SITE DESCRIPTION

The site, located on the western corner of the intersection of Frontage Road – Grapevine West and "D" Street in Lebec, is currently occupied by a Shell Service Station. Current service station facilities include one 12,000-gallon and one 10,000-gallon premium gasoline USTs, one 12,000-gallon and one 10,000-gallon regular gasoline USTs, one 10,000-gallon diesel UST, one 550-gallon waste oil UST, three dispenser islands (each with two fuel dispensers), associated product piping, a station building, and a carwash facility. Access to the site is provided from Frontage Road – Grapevine West on the northeast, and from "D" Street on the southeast.

The site vicinity is characterized by commercial development catering to travelers on the nearby Interstate 5 Freeway. Property adjacent to the southwest is developed as a ConocoPhillips 76 retail gasoline sales facility. Property adjacent to the northwest is vacant, undeveloped land. Properties southeast and northeast of the site, across Grapevine Road West and "D" Street, respectively, are developed with additional service station and restaurant facilities.

3.0 BACKGROUND

3.1 SUMMARY OF PREVIOUS WORK

In March 2000, a Phase II subsurface investigation was conducted to evaluate whether petroleum hydrocarbons related to onsite retail fuel distribution operations had impacted soil beneath the site. A total of nine soil borings (BB-1 through BB-9) were drilled and sampled to maximum depths of 35.5 feet below ground surface (bgs). Laboratory analysis revealed the presence of petroleum hydrocarbon-impacted soil near the east end of the fuel USTs (maximum concentration of 0.41 milligrams per kilogram [mg/kg] methyl tertiary butyl ether [MTBE] detected at 35 feet bgs in Boring BB-1), near the southern end of the central dispenser island (maximum concentrations of 16 mg/kg total recoverable petroleum hydrocarbons [TRPH] at 5 feet bgs and 0.0063 mg/kg MTBE at 10 feet bgs in Boring BB-3), and at the waste oil UST (maximum concentrations of 17 mg/kg TRPH at 5 feet bgs and 0.0064 mg/kg MTBE at 10 feet bgs in Boring BB-7). Petroleum hydrocarbon concentrations were not detected at the remaining sampling locations.

3.2 GEOLOGY AND HYDROGEOLOGY

The site is located at an elevation of approximately 1,500 feet above mean sea level (National Geodetic Vertical Datum [NGVD], 1929) at the southern margin of the San Joaquin Valley, a northwest-southeast trending synclinal trough. Sediments in the area of the site are comprised of alluvial deposits derived from outwash from the Tehachapi Mountains to the south and east. These sediments generally consist of unconsolidated sand and silty sand with varying gravel content (California Division of Mines and Geology, 1969; Norris & Webb, 1976; United States Geological Survey, 1966). Data obtained from onsite investigations indicate that subsurface sediments consist primarily of fine- to coarse-grained sand, silty sand, and fine gravel from the ground surface to a depth of approximately 40 feet bgs (maximum depth of investigation).

According to previous communication with Laurel Funk of the Kern County Environmental Health Services Department (KCEHSD), the depth to groundwater in the area of the site is estimated to be greater than 600 feet bgs. Based on information obtained during a sensitive receptor survey conducted for a nearby Shell property, no water supply wells are located within a 1-mile radius of the site.

4.0 SUMMARY OF PHASE II SITE INVESTIGATION

4.1 PRE-DRILLING ACTIVITIES

On the day field activities were initiated, and on each subsequent day of work, a site safety plan was provided to all workers on site during the tailgate safety meeting, which was held to inform workers of potential site hazards. Prior to drilling at each location, the soil interval from the surface to a depth of approximately 7 to 10 feet bgs was cleared using air knifing techniques to prevent damage to possible unidentified subsurface utilities.

4.2 DRILLING AND SOIL SAMPLING

Between January 23 and February 1, 2006, eleven soil borings (MBE-1 through MBE-11) were drilled at the site to evaluate subsurface conditions (see Figure 2 for the soil boring locations). Soil borings were drilled using a hollow-stem auger drilling rig as follows: Borings MBE-1 and MBE-2 were drilled to depths of 39 feet bgs adjacent to the northeastern-most dispenser island; Boring MBE-3 was drilled to a depth of 39 feet bgs adjacent to the north of the central dispenser island; Borings MBE-7 and MBE-8 were drilled to depths of 39.5 and 30.5 feet bgs, respectively, adjacent to the southwestern-most dispenser island; Borings MBE-5, MBE-6, MBE-9, and MBE-10 were drilled to depths of 31.5, 40, 39, and 39 feet bgs, respectively, adjacent to the fuel USTs; and Boring MBE-11 was drilled to a depth of 40 feet bgs adjacent to the waste oil UST. The location for Boring MBE-4 was initially cleared, but the borehole was not completed due to its proximity to Borings MBE-1 and MBE-6. Soil samples were generally collected at 5-foot depth intervals for soil description, field hydrocarbon vapor screening, and laboratory analysis. A detailed description of general field procedures is included with the boring logs in Appendix A.

Soil generated during drilling and sampling activities was temporarily stored on site in a sealed, roll-off soil bin pending waste profiling and offsite transport to an appropriate facility for recycling. A copy of the non-hazardous waste manifest will be provided under separate cover when available.

5.0 LABORATORY ANALYSIS

Soil samples collected during this investigation were submitted to a State-certified laboratory for analysis. Each sample was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D) using the California Department of Health Services Leaking Underground Fuel Tank (DHS LUFT) Method for gasoline and diesel, respectively, and for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and other fuel oxygenates (diisopropyl ether [DIPE], ethyl tertiary butyl ether [ETBE], tertiary amyl methyl ether [TAME], and tertiary butyl alcohol [TBA]) using Environmental Protection Agency (EPA) Method 8260B. In addition, selected samples were analyzed for ethanol using EPA Method 8260B. Results of laboratory analysis of soil samples collected during this investigation are presented in Table 1. Copies of the official laboratory reports and chain of custody records are included in Appendix B.

6.0 FINDINGS

Sediments observed in the subsurface beneath the Shell Service Station generally consist of fine- to coarse-grained sand, silty sand, and fine gravel from the ground surface to a depth of approximately 40 feet bgs (maximum depth of investigation). Groundwater was not observed during this investigation.

Results of laboratory analysis of soil samples collected during this investigation indicated the following:

- Gasoline-range petroleum hydrocarbons are present at a depth of 5 feet bgs near the northern-most dispenser (Boring MBE-2). Gasoline range petroleum hydrocarbons were not detected at depths greater than 5 feet bgs at this location.

- Diesel-range petroleum hydrocarbons are present at a depth of approximately 10 feet bgs near the southern-most dispenser (Boring MBE-7), and at a depth of approximately 11 feet bgs near the waste oil UST (Boring MBE-11). Significant diesel-range petroleum hydrocarbons were not detected in these two locations at depths greater than approximately 10 feet and 11 feet bgs, respectively.

- Significant petroleum hydrocarbon concentrations were not detected near the remaining dispensers or the fuel USTs (Borings MBE-1, MBE-3 through MBE-6, MBE-8, MBE-9, and MBE-10).

7.0 CONCLUSIONS

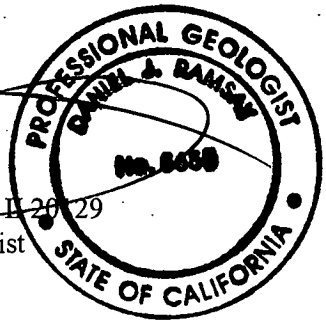
Results of the current Phase II site assessment conducted at the Shell Service Station indicate no evidence of a significant petroleum hydrocarbon release to the subsurface adjacent to the gasoline and diesel USTs, waste oil UST, or fuel dispensers. The relatively low hydrocarbon concentrations detected during this investigation are confined to shallow soil. The shallow hydrocarbon-impacted soil detected beneath the site does not represent a threat to groundwater resources based on the anticipated depth to groundwater in the site vicinity (approximately 600 feet bgs). These findings are consistent with the findings of the previous Phase II investigation. Based on the findings of this and the previous Phase II investigation, it is the opinion of Miller Brooks that no further investigation is warranted at this site.

8.0 STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The conclusions presented herein are based solely upon the agreed upon scope of work outlined in this report. Miller Brooks makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information, which was not found or available to Miller Brooks at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by Miller Brooks have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This investigation was supervised or personally conducted by the licensed professional whose signature and license number appear below.

For Philip Chen
Senior Staff Scientist



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9.0 REFERENCES

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U.S. Geological Survey, 1966 (Photorevised 1988), San Fernando Quadrangle, 7.5 Minute Topographic Series, Scale 1:24,000.

U.S. Geological Survey Professional Paper 1401-A, 1991, Ground Water in the Central Valley, California-A Summary Report.

TABLE

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
Shell Service Station
9069 Grapevine Road
Lebec, California

Boring/ Sample Number	Depth (feet)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
MBE-1														
MBE-1d5	5	1/23/2006	ND<0.17	ND<6.0	ND<0.00087	ND<0.00087	ND<0.00087	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.017	- -
MBE-1d11	11	2/1/2006	**0.6**	ND<5.0	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.020	ND<0.300
MBE-1d16.5	16.5	2/1/2006	ND<0.22	ND<5.0	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.022	ND<0.320
MBE-1d21	21	2/1/2006	ND<0.21	ND<5.0	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.021	ND<0.310
MBE-1d25.5	25.5	2/1/2006	ND<0.21	**8.8**	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.021	ND<0.310
MBE-1d35.5	35.5	2/1/2006	ND<0.19	ND<5.0	ND<0.00096	ND<0.00096	ND<0.00096	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.019	ND<0.290
MBE-1d39	39	2/1/2006	ND<0.18	ND<5.0	ND<0.00091	ND<0.00091	ND<0.00091	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.018	ND<0.270
MBE-2														
MBE-2d5	5	1/23/2006	**630**	**43**	ND<0.00091	**0.0017**	**0.0011**	**0.0064**	**0.015**	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.018	- -
MBE-2d11	11	1/31/2006	ND<0.996	ND<0.997	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-2d16.5	16.5	1/31/2006	ND<1.01	ND<0.992	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-2d25.5	25.5	1/31/2006	ND<0.994	**18.8**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-2d30.5	30.5	1/31/2006	ND<1.01	ND<0.995	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-2d39	39	1/31/2006	ND<0.996	**1.04**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3														
MBE-3d5	5	1/23/2006	ND<0.2	ND<5.0	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0026**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.020	- -
MBE-3d10.5	10.5	1/30/2006	ND<1.00	ND<0.983	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d16.5	16.5	1/30/2006	ND<1.00	ND<0.948	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d20.5	20.5	1/30/2006	ND<1.01	**3.38**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d26	26	1/30/2006	ND<1.00	ND<0.987	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d30.5	30.5	1/30/2006	ND<0.998	**1.00**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d36.5	36.5	1/30/2006	ND<0.990	ND<0.989	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-3d39	39	1/30/2006	ND<1.01	**1.10**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-4														
MBE-4d5	5	1/23/2006	ND<0.19	ND<5.0	ND<0.00094	ND<0.00094	ND<0.00094	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0190	- -
MBE-5														
MBE-5d5	5	1/24/2006	ND<0.2	ND<5.0	ND<0.00095	ND<0.00095	ND<0.00095	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0190	- -
MBE-5d11.5	11.5	1/30/2006	ND<1.00	ND<0.981	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-5d16.5	16.5	1/30/2006	ND<0.994	**8.52**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-5d21.5	21.5	1/30/2006	ND<0.994	ND<0.946	**0.00203**	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-5d26.5	26.5	1/30/2006	ND<0.990	**58.6**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-5d31.5	31.5	1/30/2006	ND<1.00	ND<0.995	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6														
MBE-6d5	5	1/24/2006	ND<0.2	**5.4**	ND<0.001	ND<0.001	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.020	- -
MBE-6d11.5	11.5	1/30/2006	ND<1.00	ND<0.971	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d16.5	16.5	1/30/2006	ND<0.998	ND<0.997	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d21.5	21.5	1/30/2006	ND<0.990	ND<0.979	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d26.5	26.5	1/30/2006	ND<0.990	ND<0.959	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d31.5	31.5	1/30/2006	ND<0.994	ND<0.993	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	**0.002**	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d36.5	36.5	1/30/2006	ND<0.990	ND<0.991	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	**0.002**	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-6d40	40	1/30/2006	ND<0.996	ND<0.965	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	**0.003**	ND<0.002	ND<0.005	ND<0.002	**0.334**	ND<0.200

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
Shell Service Station
9069 Grapevine Road
Lebec, California

Boring/ Sample Number	Depth (feet)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
MBE-7														
MBE-7d5	5	1/24/2006	ND<0.2	ND<5.0	ND<0.00098	ND<0.00098	ND<0.00098	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.020	- -
MBE-7d10.5	10.5	2/1/2006	ND<0.2	**110**	ND<0.001	ND<0.001	ND<0.001	**0.001**	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-7d15.5	15.5	2/1/2006	**0.2**	ND<5.0	ND<0.00095	ND<0.00095	ND<0.00095	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.019	ND<0.290
MBE-7d20.5	20.5	2/1/2006	ND<0.2	ND<5.0	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-7d25.5	25.5	2/1/2006	ND<0.2	ND<5.0	ND<0.00098	ND<0.00098	ND<0.00098	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-7d30.5	30.5	2/1/2006	ND<0.2	ND<5.0	ND<0.001	ND<0.001	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-7d35.5	35.5	2/1/2006	ND<0.22	ND<5.0	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.022	ND<0.320
MBE-7d39.5	39.5	2/1/2006	ND<0.2	ND<5.0	ND<0.001	ND<0.001	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.310
MBE-8														
MBE-8d5	10	1/24/2006	ND<0.2	ND<5.0	ND<0.001	ND<0.001	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	- -
MBE-8d11	11	2/1/2006	ND<0.2	ND<5.0	ND<0.00098	ND<0.00098	ND<0.00098	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-8d16	16	2/1/2006	ND<0.2	ND<5.0	ND<0.001	ND<0.001	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.02	ND<0.300
MBE-8d20.5	20.5	2/1/2006	ND<0.19	**6.3**	ND<0.00095	ND<0.00095	ND<0.00095	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.019	ND<0.280
MBE-8d30.5	30.5	2/1/2006	ND<0.18	**22**	ND<0.00088	ND<0.00088	ND<0.00088	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.018	ND<0.260
MBE-9														
MBE-9d5	5	1/30/2006	ND<1.01	ND<0.975	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d11.5	11.5	1/30/2006	ND<0.996	ND<0.987	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d16.5	16.5	1/30/2006	ND<0.994	ND<0.981	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d20.5	20.5	1/30/2006	ND<1.00	ND<0.969	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d25.5	25.5	1/30/2006	ND<1.00	ND<0.991	ND<0.0020	ND<0.0020	ND<0.0020	**0.0106**	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d30.5	30.5	1/30/2006	ND<0.996	ND<0.987	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d36	36.0	1/30/2006	ND<0.992	**1.91**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-9d39	39.0	1/30/2006	ND<1.01	ND<0.972	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10														
MBE-10d5	5	1/30/2006	ND<1.00	**1.12**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d11	11	1/30/2006	ND<0.992	ND<0.970	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d16	16	1/30/2006	ND<0.988	ND<1.00	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d21.5	21.5	1/30/2006	ND<1.01	ND<0.972	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d25.5	25.5	1/30/2006	ND<1.01	ND<0.994	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d36	36	1/30/2006	ND<1.01	ND<0.994	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-10d39	39	1/30/2006	ND<1.00	**0.979**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200

Table 1

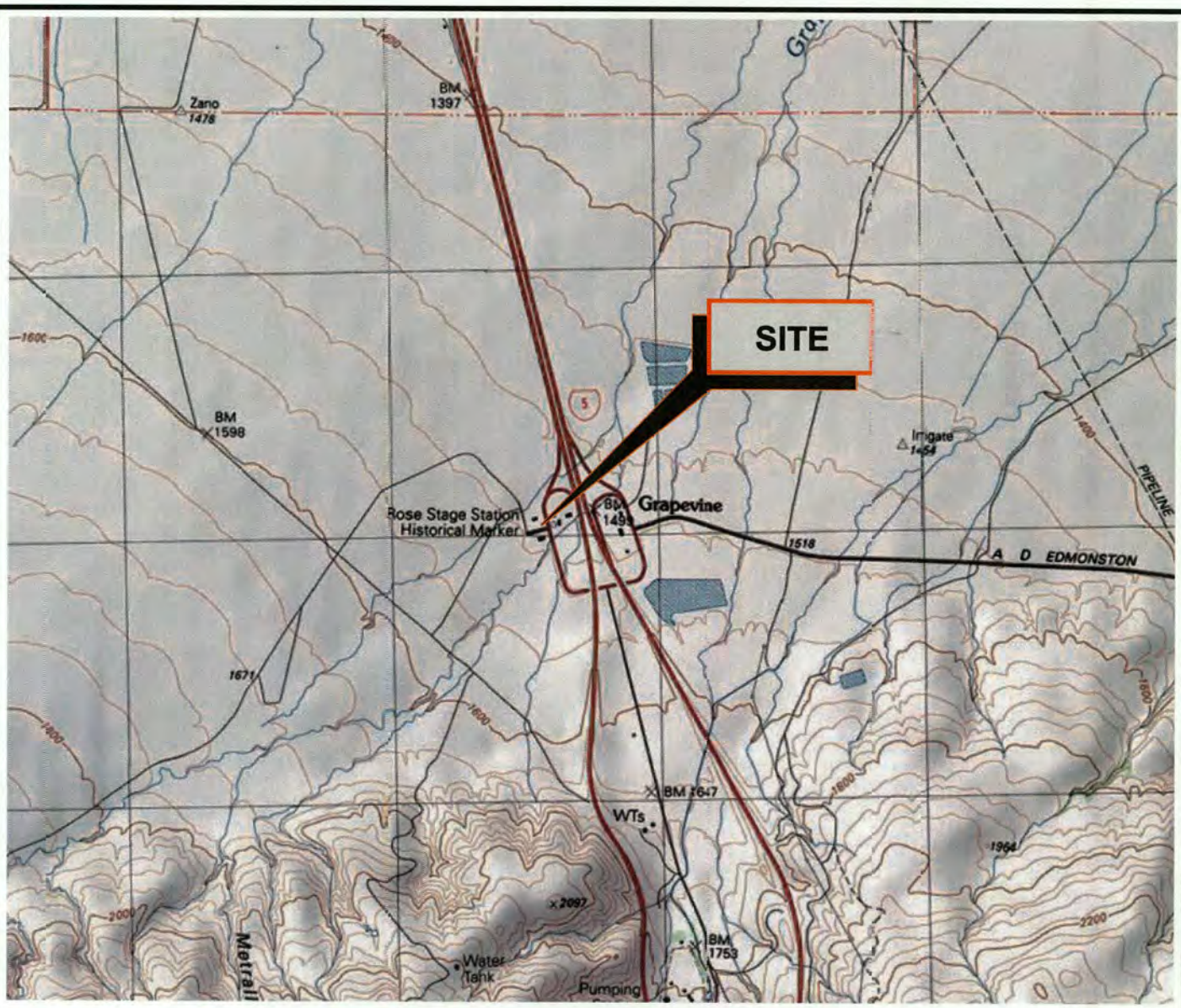
RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
Shell Service Station
9069 Grapevine Road
Lebec, California

Boring/ Sample Number	Depth (feet)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
MBE-11														
MBE-11d5	5	1/31/2006	ND<0.994	ND<0.984	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d11	11	1/31/2006	ND<1.00	**308**	ND<0.0020	**0.00268**	**0.00373**	**0.0252**	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d16	16	1/31/2006	ND<0.998	**1.33**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d21	21	1/31/2006	ND<1.01	**2.22**	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d26	26	1/31/2006	ND<1.01	ND<0.968	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d30.5	30.5	1/31/2006	ND<1.00	ND<0.963	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d36	36	1/31/2006	ND<1.00	ND<0.997	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200
MBE-11d40	40	1/31/2006	ND<0.0797	ND<0.996	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0050	ND<0.002	ND<0.002	ND<0.005	ND<0.002	ND<0.050	ND<0.200

Notes:
TPH-G = total petroleum hydrocarbons as gasoline using the California Department of Health Services Leaking Underground Fuel Tank Method
BTEX = benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8260B
MTBE = methyl tertiary butyl ether using EPA Method 8260B
DIPE = diisopropyl ether using EPA Method 8260B
ETBE = ethyl tertiary butyl ether using EPA Method 8260B
TAME = tertiary amyl methyl ether using EPA Method 8260B
TBA = tertiary butyl alcohol using EPA Method 8260B
Ethanol analyzed using EPA Method 8260B
mg/kg = milligrams per kilogram
-- = not analyzed
ND = not detected at detection limit indicated

FIGURES

A2 12/07/04



FROM: U.S. GEOLOGICAL SURVEY, 1981
QUADRANGLE: GRAPEVINE
COUNTY: KERN
SERIES: 7.5-MINUTE QUAD

NOTE: ALL BOUNDARIES AND LOCATIONS ARE APPROXIMATE

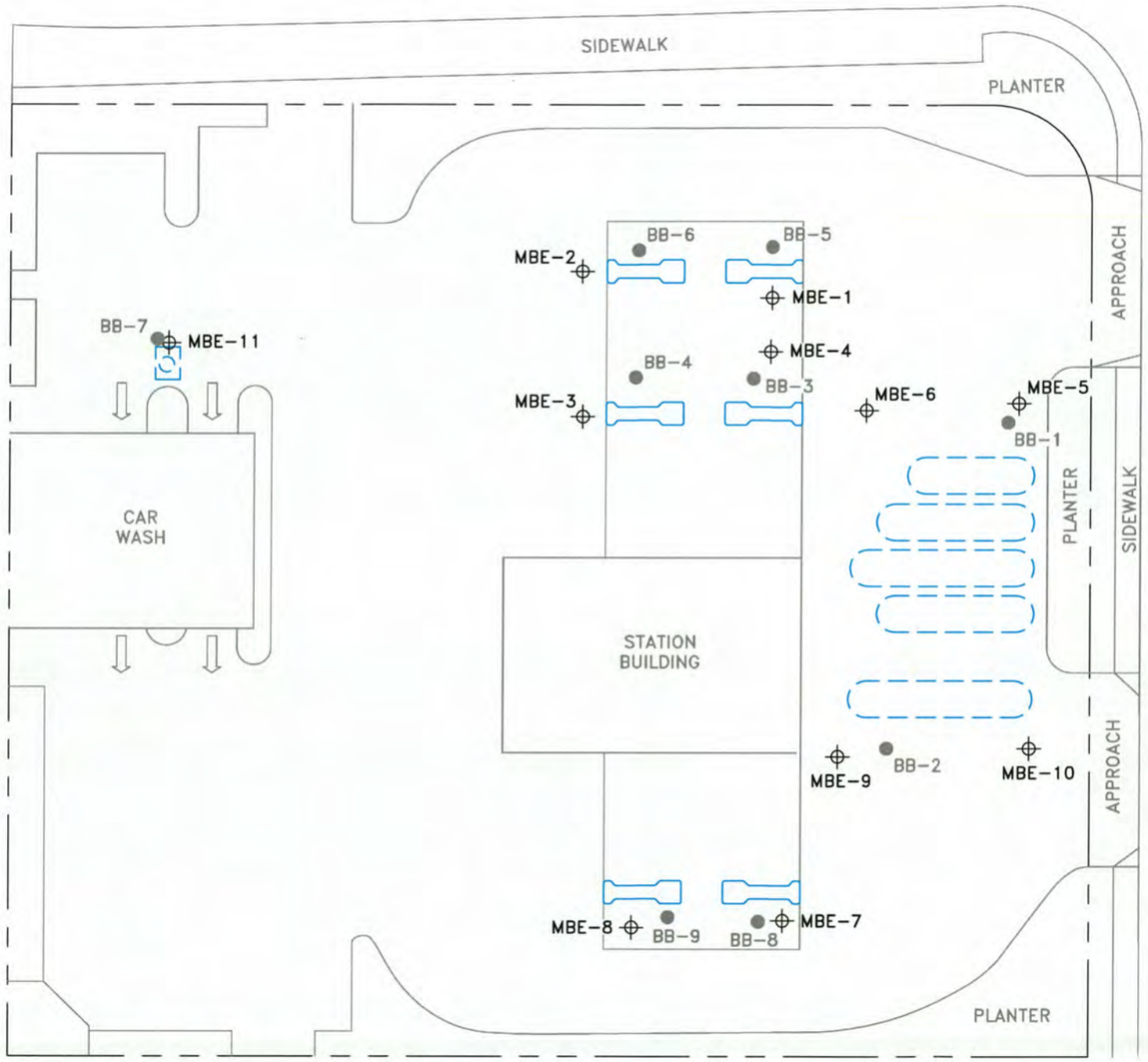
N
W E
S

0 2000 Feet
SCALE

MILLER BROOKS Environmental, Inc.	DRAWN BY: DCN DATE: 02/22/06 REVISED BY: SLS	VICINITY MAP	FIGURE 1
2124 MAIN STREET, SUITE 200 HUNTINGTON BEACH, CA. 92648 (714) 500-5400	REVISED: 02/28/06 APPROVED BY: DJR	SHELL SERVICE STATION 9069 GRAPEVINE ROAD LEBEC, CA.	
PROJECT NO. 01-155-0261	DATE: 02/28/06	PATH: K:\SHELL (FKA EQUILON)\LEBEC (9069 GRAPEVINE RD.)\ FILE: VICINITY MAP.DWG TAB: [XEROX] DATE PLOTTED: 02/28/06	

tb-b1.dwg-09/21/00

FRONTAGE ROAD - GRAPEVINE WEST



"D" STREET

LEGEND

- MBE-1 ⊕ — SOIL BORING LOCATION (MILLER BROOKS ENVIRONMENTAL)
- BB-1 ● — PREVIOUS SOIL BORING LOCATION
- UNDERGROUND STORAGE TANK
- DISPENSER ISLAND
- WASTE OIL TANK
- PROPERTY LINE

N W E S

0 30 FEET
SCALE

MILLER BROOKS Environmental, Inc.

2124 MAIN STREET, SUITE 200
HUNTINGTON BEACH, CA. 92648
(714) 500-5400

PROJECT NO. 01-155-0261-01

DRAWN BY:	DCN
DATE:	02/22/06
REVISED BY:	DCN
REVISED:	02/28/06
APPROVED BY:	DJR
DATE:	02/28/06

SITE PLAN

SHELL SERVICE STATION
9069 GRAPEVINE ROAD
LEBEC, CA.

FIGURE 2

PATH: K:\SHELL (FKA EQUILON)\LEBEC (9069 GRAPEVINE RD.)\
FILE: SP 02-22-06.DWG TAB: [F2] DATE PLOTTED: 02/28/06

APPENDIX A

APPENDIX A

GENERAL FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using continuous-flight, hollow-stem augers. Soil excavated from the hollow-stem auger borings is contained in labeled, Department of Transportation (DOT) approved, 55-gallon drums or sealed, roll-off bins and stored onsite pending appropriate disposal. Borings that are not completed as vadose or groundwater monitoring wells are grouted to within 2 feet of the ground surface with bentonite, and finished to the surface with asphalt or concrete to match the existing grade.

Soil samples are obtained from each boring for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are generally retrieved from the borings at 5-foot depth intervals using a standard penetration split-spoon sampler lined with three 2-inch diameter brass sample inserts. The sampler is driven approximately 18 inches beyond the lead auger with a 140-pound hammer dropped from a height of 30-inches.

Upon retrieval, soil samples to be analyzed for non-volatile constituents are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps. Soil samples to be analyzed for volatile organic constituents are preserved in the field using an EPA Method 5035-approved 5-gram sampling device (Encore sampler). Each sample is labeled with the project number, boring number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius for transport to an offsite state-certified laboratory. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4 degrees Celsius for possible future testing.

During sampling activities, soil adjacent to the laboratory sample is screened for organic vapors using a photoionization detector (PID). For each vapor screening event, a sample tube is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The PID probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. Alternately, soil is placed in a sealable plastic bag, and vapors allowed to fill the headspace in the bag for approximately 15 minutes. The PID probe is inserted into the bag, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample tube and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, color, density/consistency, moisture, and grading are recorded on the boring logs.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil samples selected for laboratory analysis. The chain of custody form accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

DECONTAMINATION

Drilling equipment is decontaminated by steam cleaning before being brought onsite. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution, and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between borings.

PROJECT NAME:			SITE LOCATION:	
SHELL SERVICE STATION			9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	LIMITED ACCESS RIG	SERJIO, JORGE, ALEX		FEBRUARY 1, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	39.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: olive (5Y 4/4); fine-grained; angular gravel (20 mm in diameter); moist; dense.
10		MBE-1-d11	26/50(2")	0.0				
15		MBE-1-d16.5	7/14/20	0.0				
20		MBE-1-d21	28/50(3")	0.0			SP	POORLY GRADED SAND: olive (5Y 5/4); fine-grained; dry; dense; trace mica.
25		MBE-1-d25.5	50(3")	0.0			GP	POORLY GRADED GRAVEL with SAND: subrounded to subangular (up to 40 mm in diameter); fine-grained sand; dry; very dense (logged from cuttings).
30							SW	WELL GRADED SAND with GRAVEL: olive (5Y 4/4); fine- to medium-grained; subangular gravel (10 mm in diameter); dry; dense; trace mica.
35		MBE-1-d35.5	75(5")	0.0				
40		MBE-1-d39	50(6")	0.0				Boring terminated at 39 feet below ground surface. Groundwater not observed.

NOTES:

= sample interval
= no sample recovery
= laboratory sample
= groundwater first encountered
= static groundwater
PID = photoionization detector
NM = not measured
NA = not applicable
NR = not recorded
ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-1

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:			SITE LOCATION:	
SHELL SERVICE STATION			9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE		JANUARY 31, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	39.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: brown (7.5YR 5/4); fine-grained; subangular gravel (up to 20 mm in diameter); dry; dense.
10		MBE-2-d11	30/50(6")	634			SP	POORLY GRADED SAND: olive brown (2.5Y 4/3); fine-grained; moist; dense; trace mica.
15		MBE-2-d16.5	30/40/50	>2000			GP	POORLY GRADED GRAVEL with SAND: dark yellowish brown (10YR 4/4); subangular (up to 30 mm in diameter); fine-grained sand; dry; very dense; trace mica.
20								
25		MBE-2-d25.5	50(6")	320			SW	WELL GRADED SAND with GRAVEL: yellowish brown (10YR 5/4); fine- to medium-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
30		MBE-2-d30.5	50(6")	61				
35								
40		MBE-2-d39	50(6")	44				Boring terminated at 39 feet below ground surface. Groundwater not observed.

NOTES:

☐ = sample interval
☒ = no sample recovery
▬ = laboratory sample
▽ = groundwater first encountered
▼ = static groundwater
PID = photoionization detector
NM = not measured
NA = not applicable
NR = not recorded
ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-2

PROJECT NUMBER 01-155-0261-01

PAGE 1 OF 1

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:		SITE LOCATION:		
SHELL SERVICE STATION		9069 Grapevine Rd., Lebec		
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE		JANUARY 30, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	39.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SW	Concrete surface; air-knifed to 7 feet below ground surface. WELL GRADED SAND with GRAVEL: light olive brown (2.5Y 5/4); fine- to medium-grained; subangular gravel; dry; dense; trace mica.
10		MBE-3-d10.5	50(6")	0.0				
15		MBE-3-d16.5	30/40/50	0.0				
20		MBE-3-d20.5	50(6")	0.0				
25		MBE-3-d26	50/50(4")	0.0			SP	POORLY GRADED SAND with GRAVEL: olive brown (2.5YR 4/4); fine-grained; subangular gravel; dry; dense; trace mica.
30		MBE-3-d30	50(6")	0.0				
35		MBE-3-d36.5	45/46/50(2")	0.0				
40		MBE-3-d39	50(6")	0.0			SP	POORLY GRADED SAND: olive brown (2.5Y 4/4); fine-grained; dry; dense; trace mica. Boring terminated at 39 feet below ground surface. Groundwater not observed.

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-3

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:		SITE LOCATION:	
SHELL SERVICE STATION		9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:	DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE	JANUARY 30, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):	LOGGED BY:
HOLLOW-STEM AUGER	8	31.5	P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):	REVIEWED BY:
SPLIT-SPOON	140	30	D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: light olive brown (2.5Y 5/6); fine-grained; subangular gravel; dry; medium dense; trace mica.
10		MBE-5-d11.5	15/19/21	0.0				
15		MBE-5-d16.5	20/22/24	0.0				
20		MBE-5-d21.5	20/24/26	0.0			SP	POORLY GRADED SAND with COBBLES: light olive brown (2.5Y 5/6); fine-grained; dry; dense; trace mica.
25		MBE-5-d26.5	24/25/26	0.0			GP	POORLY GRADED GRAVEL with SAND: grayish brown (2.5Y 5/2); subangular (up to 20 mm in diameter); fine-grained sand; dry.
30		MBE-5-d31.5	24/24/36	0.0			SW	WELL GRADED SAND with GRAVEL: grayish brown (2.5Y 5/2); fine- to medium-grained; subangular gravel (up to 15 mm in diameter); dry; dense; trace mica.
35								Boring terminated at 31.5 feet below ground surface. Groundwater not observed.
40								

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-5

PROJECT NUMBER 01-155-0261-01

PAGE 1 OF 1

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:			SITE LOCATION:	
SHELL SERVICE STATION			9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE		JANUARY 30, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	40.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							GW	Concrete surface; air-knifed to 7 feet below ground surface. WELL GRADED GRAVEL with SAND: olive brown (2.5Y 4/3); medium to coarse gravel; fine- to coarse-grained sand; dry; medium dense; trace mica.
10		MBE-6-d11.5	12/13/17	>2000				
							SW	WELL GRADED SAND: olive brown (2.5Y 4/4); fine- to medium-grained; moist; dense; trace mica.
15		MBE-6-d16.5	30/15/15	>2000				
							GW	WELL GRADED GRAVEL with SAND: olive brown (2.5Y 4/3); medium to coarse gravel; fine- to coarse-grained sand; dry; medium dense; trace mica.
20		MBE-6-d21.5	17/38/32	0.0				
							SP	POORLY GRADED SAND with SILT and GRAVEL: olive (5Y 4/3); fine-grained; subrounded gravel; moist; dense; trace mica.
25		MBE-6-d26.5	17/24/30	530				
							SW	WELL GRADED SAND with GRAVEL: olive gray (5Y 5/2); fine- to coarse-grained; subrounded gravel; moist; dense; trace mica.
30		MBE-6-d31.5	20/23/30	0.0				
							SP	POORLY GRADED SAND: olive (5Y 4/3); fine-grained; moist; dense; trace gravel and mica.
35		MBE-6-d36.5	15/24/30	0.0				
40		MBE-6-d40	20/24/28	0.0				Boring terminated at 40 feet below ground surface. Groundwater not observed.

NOTES:

= sample interval
= no sample recovery
= laboratory sample
= groundwater first encountered
= static groundwater
PID = photoionization detector
NM = not measured
NA = not applicable
NR = not recorded
ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-6

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:			SITE LOCATION:	
SHELL SERVICE STATION			9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	LIMITED ACCESS RIG	SERJIO, JORGE, ALEX		FEBRUARY 1, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	40.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: olive yellow (2.5Y 6/6); fine-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
10		MBE-7-d10.5	50(6")	0.0				
							SW	WELL GRADED SAND with GRAVEL: light yellowish brown (10YR 6/4); fine- to coarse-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
15		MBE-7-d15.5	50(6")	0.0				
20		MBE-7-d20.5	50(4")	0.0				
							GP	POORLY GRADED GRADED GRAVEL with SAND: very pale brown (10YR 8/2); subangular gravel (up to 30 mm in diameter); fine-grained sand; dry; very dense; trace mica.
25		MBE-7-d25.5	75(6")	0.0				
							SP	POORLY GRADED SAND with COBBLES: very pale brown (10YR 8/2); fine-grained; dry; very dense; trace mica.
30		MBE-7-d30.5	75(3")	0.0				
35		MBE-7-d35.5	75(6")	0.0				
							SW	WELL GRADED SAND: dark yellowish brown (10YR 4/6); fine- to coarse-grained; dry; very dense; trace mica.
40		MBE-7-d39.5	22/50(6")	0.0				Boring terminated at 40 feet below ground surface. Groundwater not observed.

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ■ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-7

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:			SITE LOCATION:	
SHELL SERVICE STATION			9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	LIMITED ACCESS RIG	SERJIO, JORGE, ALEX		FEBRUARY 1, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	30.5		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: olive yellow (2.5Y 6/6); fine-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
10		MBE-8-d11	21/50(6")	0.0				
							SW	WELL GRADED SAND with GRAVEL: dark yellowish brown (10YR 5/6); fine- to coarse-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
15		MBE-8-d16	25/50(6")	0.0				
20		MBE-8-d20.5	50(6")	0.0				
25								
30		MBE-8-d30.5	50(6")	0.0				Boring terminated at 30.5 feet below ground surface. Groundwater not observed.
35								
40								

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ■ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-8

PROJECT NUMBER 01-155-0261-01

PAGE 1 OF 1

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:		SITE LOCATION:	
SHELL SERVICE STATION		9069 Grapevine Rd., Lebec	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:	DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE	JANUARY 30, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):	LOGGED BY:
HOLLOW-STEM AUGER	8	39.0	P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):	REVIEWED BY:
SPLIT-SPOON	140	30	D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND with GRAVEL: yellowish brown (10YR 5/6); fine-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
10		MBE-9-d11.5	17/23/50	0.0				
15		MBE-9-d16.5	29/30/50	0.0				
20		MBE-9-d20.5	50(6")	0.0			GP	POORLY GRADED GRADED GRAVEL with SAND: olive brown (2.5Y 4/4); subangular gravel (up to 15 mm in diameter); fine-grained sand; dry; dense; trace mica.
25		MBE-9-d25.5	50(6")	0.0				
30		MBE-9-d30.5	50(6")	0.0			SW	WELL GRADED SAND with GRAVEL: yellowish brown (10YR 5/6); fine- to coarse-grained; subangular gravel (up to 30 mm in diameter); dry; dense; trace mica.
35		MBE-9-d36	45/50(6")	0.0				
40		MBE-9-d39	50(5")	0.0				Boring terminated at 39 feet below ground surface. Groundwater not observed.

NOTES:
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- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-9

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:	SITE LOCATION:		
SHELL SERVICE STATION	9069 Grapevine Rd., Lebec		
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:	DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE	JANUARY 30, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):	LOGGED BY:
HOLLOW-STEM AUGER	8	39.0	P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):	REVIEWED BY:
SPLIT-SPOON	140	30	D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SW	Concrete surface; air-knifed to 7 feet below ground surface. WELL GRADED SAND with GRAVEL: light yellowish brown (10YR 4/4); fine- to coarse-grained; subangular gravel (up to 25 mm in diameter); dry; dense; trace mica.
10		MBE-10-d11	34/50(6")	0.0				
15		MBE-10-d16	30/50(2")	0.0				
20		MBE-10-d21.5	45/45/50(4")	0.0			SP	POORLY GRADED SAND with GRAVEL: olive brown (2.5Y 4/4); fine-grained; subangular gravel (up to 20 mm in diameter); dry; dense; trace mica.
25		MBE-10-d25.5	50(6")	0.0				
30								
35		MBE-10-d36	35/50(4")	0.0				
40		MBE-10-d39	50(4")	0.0				Boring terminated at 39 feet below ground surface. Groundwater not observed.

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ■ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

DANIEL J. RAMSAY, PG 5655, REA II 20129

MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-10

PROJECT NUMBER 01-155-0261-01

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

PROJECT NAME:		SITE LOCATION:		
SHELL SERVICE STATION		9069 Grapevine Rd., Lebec		
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
BC2	CME95	DUSTIN, VINCENT, MIKE		JANUARY 31, 2006
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	40.0		P. CHEN
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		D. RAMSAY

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							SP	Concrete surface; air-knifed to 7 feet below ground surface. POORLY GRADED SAND: yellowish brown (10YR 5/8); fine-grained; dry; dense; trace mica.
10		MBE-11-d11	29/50(6")	0.0			SW	WELL GRADED SAND with GRAVEL: yellowish brown (10YR 5/6); fine- to coarse-grained; subangular gravel (up to 25 mm in diameter); dry; dense; trace mica.
15		MBE-11-d16	29/50(4")	0.0			SP	POORLY GRADED SAND with GRAVEL: olive brown (2.5Y 4/4); fine-grained; subangular gravel (up to 30 mm in diameter); dry; dense; trace mica.
20		MBE-11-d21	35/50(6")	44			SW	WELL GRADED SAND: light olive brown (2.5Y 5/6); fine- to coarse-grained; dry; dense; trace mica.
25		MBE-11-d26	40/50(6")	50			SP	POORLY GRADED SAND with GRAVEL: olive brown (2.5Y 4/4); fine-grained; subangular gravel (up to 30 mm in diameter); dry; very dense; trace mica.
30		MBE-11-d30.5	75(6")	0.0			GP	POORLY GRADED SAND: light olive brown (2.5Y 5/6); fine-grained; dry; dense; trace mica.
35		MBE-11-d36	40/50(6")	0.0				Boring terminated at 40 feet below ground surface. Groundwater not observed.
40		MBE-11-d40	25/25/25	0.0				

NOTES:
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- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not meesured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

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MILLER BROOKS Environmental, Inc.

LOG OF BORING MBE-11

PROJECT NUMBER 01-155-0261-01 | PAGE 1 OF 1

LOG OF BORINGS REVISED BORELBL01.GPJ MBE.GDT 2/23/06

APPENDIX B

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LABORATORY REPORT

Prepared For: Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project: 9069 Grapevine Road, Lebec
97645228

Sampled: 01/23/06-01/24/06
Received: 01/26/06
Issued: 02/08/06 14:54

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
IPA2232-01	MBE1d5	Soil
IPA2232-02	MBE2d5	Soil
IPA2232-03	MBE3d5	Soil
IPA2232-04	MBE4d5	Soil
IPA2232-05	MBE5d5	Soil
IPA2232-06	MBE6d5	Soil
IPA2232-07	MBE7d5	Soil
IPA2232-08	MBE8d5	Soil

Reviewed By:

Heather A Bean

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

Del Mar Analytical

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-01 (MBE1d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31060	6.0	ND	1.2	1/31/2006	1/31/2006	
Surrogate: n-Octacosane (40-125%)				*79 %*				
Sample ID: IPA2232-02 (MBE2d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	**43**	0.999	2/1/2006	2/1/2006	
Surrogate: n-Octacosane (40-125%)				*86 %*				
Sample ID: IPA2232-03 (MBE3d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	ND	0.998	2/1/2006	2/1/2006	
Surrogate: n-Octacosane (40-125%)				*86 %*				
Sample ID: IPA2232-04 (MBE4d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	ND	0.999	2/1/2006	2/1/2006	
Surrogate: n-Octacosane (40-125%)				*69 %*				
Sample ID: IPA2232-05 (MBE5d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	ND	0.999	2/1/2006	2/1/2006	
Surrogate: n-Octacosane (40-125%)				*75 %*				
Sample ID: IPA2232-06 (MBE6d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	**5.4**	0.999	2/1/2006	2/2/2006	
Surrogate: n-Octacosane (40-125%)				*67 %*				
Sample ID: IPA2232-07 (MBE7d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	ND	1	2/1/2006	2/2/2006	
Surrogate: n-Octacosane (40-125%)				*81 %*				
Sample ID: IPA2232-08 (MBE8d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6A31114	5.0	ND	1	2/1/2006	2/1/2006	
Surrogate: n-Octacosane (40-125%)				*76 %*				

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-01 (MBE1d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B01002	170	ND	0.87	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IPA2232-02 (MBE2d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B01002	180	**630**	0.914	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPA2232-03 (MBE3d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B01019	200	ND	1.01	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPA2232-04 (MBE4d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B06001	190	ND	0.936	2/6/2006	2/6/2006	
Surrogate: Dibromofluoromethane (80-125%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IPA2232-05 (MBE5d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B01019	200	ND	1.02	2/1/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*86 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				
Sample ID: IPA2232-06 (MBE6d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B02003	200	ND	0.998	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*92 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-07 (MBE7d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B02003	200	ND	0.982	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*88 %*				
Sample ID: IPA2232-08 (MBE8d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B02003	200	ND	0.998	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*91 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-01 (MBE1d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B01002	0.87	ND	0.87	2/1/2006	2/1/2006	
Ethylbenzene	EPA 8260B	6B01002	0.87	ND	0.87	2/1/2006	2/1/2006	
Toluene	EPA 8260B	6B01002	0.87	ND	0.87	2/1/2006	2/1/2006	
m,p-Xylenes	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
o-Xylene	EPA 8260B	6B01002	0.87	ND	0.87	2/1/2006	2/1/2006	
Xylenes, Total	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B01002	1.7	ND	0.87	2/1/2006	2/1/2006	
tert-Butanol (TBA)	EPA 8260B	6B01002	17	ND	0.87	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IPA2232-02 (MBE2d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B01002	0.91	ND	0.914	2/1/2006	2/1/2006	
Ethylbenzene	EPA 8260B	6B01002	0.91	**1.1**	0.914	2/1/2006	2/1/2006	
Toluene	EPA 8260B	6B01002	0.91	**1.7**	0.914	2/1/2006	2/1/2006	
m,p-Xylenes	EPA 8260B	6B01002	1.8	**4.1**	0.914	2/1/2006	2/1/2006	
o-Xylene	EPA 8260B	6B01002	0.91	**2.2**	0.914	2/1/2006	2/1/2006	
Xylenes, Total	EPA 8260B	6B01002	1.8	**6.4**	0.914	2/1/2006	2/1/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B01002	1.8	**15**	0.914	2/1/2006	2/1/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B01002	1.8	ND	0.914	2/1/2006	2/1/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B01002	1.8	ND	0.914	2/1/2006	2/1/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B01002	1.8	ND	0.914	2/1/2006	2/1/2006	
tert-Butanol (TBA)	EPA 8260B	6B01002	18	ND	0.914	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-03 (MBE3d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B01019	1.0	ND	1.01	2/1/2006	2/1/2006	
Ethylbenzene	EPA 8260B	6B01019	1.0	ND	1.01	2/1/2006	2/1/2006	
Toluene	EPA 8260B	6B01019	1.0	ND	1.01	2/1/2006	2/1/2006	
m,p-Xylenes	EPA 8260B	6B01019	2.0	ND	1.01	2/1/2006	2/1/2006	
o-Xylene	EPA 8260B	6B01019	1.0	ND	1.01	2/1/2006	2/1/2006	
Xylenes, Total	EPA 8260B	6B01019	2.0	ND	1.01	2/1/2006	2/1/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B01019	2.0	**2.6**	1.01	2/1/2006	2/1/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B01019	2.0	ND	1.01	2/1/2006	2/1/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B01019	2.0	ND	1.01	2/1/2006	2/1/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B01019	2.0	ND	1.01	2/1/2006	2/1/2006	
tert-Butanol (TBA)	EPA 8260B	6B01019	20	ND	1.01	2/1/2006	2/1/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPA2232-04 (MBE4d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B03007	0.94	ND	0.94	2/3/2006	2/3/2006	
Ethylbenzene	EPA 8260B	6B03007	0.94	ND	0.94	2/3/2006	2/3/2006	
Toluene	EPA 8260B	6B03007	0.94	ND	0.94	2/3/2006	2/3/2006	
m,p-Xylenes	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
o-Xylene	EPA 8260B	6B03007	0.94	ND	0.94	2/3/2006	2/3/2006	
Xylenes, Total	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B03007	1.9	ND	0.94	2/3/2006	2/3/2006	
tert-Butanol (TBA)	EPA 8260B	6B03007	19	ND	0.94	2/3/2006	2/3/2006	
Surrogate: Dibromofluoromethane (80-125%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-05 (MBE5d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B03007	0.95	ND	0.947	2/3/2006	2/3/2006	
Ethylbenzene	EPA 8260B	6B03007	0.95	ND	0.947	2/3/2006	2/3/2006	
Toluene	EPA 8260B	6B03007	0.95	ND	0.947	2/3/2006	2/3/2006	
m,p-Xylenes	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
o-Xylene	EPA 8260B	6B03007	0.95	ND	0.947	2/3/2006	2/3/2006	
Xylenes, Total	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B03007	1.9	ND	0.947	2/3/2006	2/3/2006	
tert-Butanol (TBA)	EPA 8260B	6B03007	19	ND	0.947	2/3/2006	2/3/2006	
Surrogate: Dibromofluoromethane (80-125%)				*108 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				
Sample ID: IPA2232-06 (MBE6d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Ethylbenzene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Toluene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
m,p-Xylenes	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
o-Xylene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Xylenes, Total	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
tert-Butanol (TBA)	EPA 8260B	6B02003	20	ND	0.998	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*92 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				

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Miller Brooks Environmental / Shell
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Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-07 (MBE7d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B02003	0.98	ND	0.982	2/2/2006	2/2/2006	
Ethylbenzene	EPA 8260B	6B02003	0.98	ND	0.982	2/2/2006	2/2/2006	
Toluene	EPA 8260B	6B02003	0.98	ND	0.982	2/2/2006	2/2/2006	
m,p-Xylenes	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
o-Xylene	EPA 8260B	6B02003	0.98	ND	0.982	2/2/2006	2/2/2006	
Xylenes, Total	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B02003	2.0	ND	0.982	2/2/2006	2/2/2006	
tert-Butanol (TBA)	EPA 8260B	6B02003	20	ND	0.982	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*88 %*				
Sample ID: IPA2232-08 (MBE8d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Ethylbenzene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Toluene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
m,p-Xylenes	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
o-Xylene	EPA 8260B	6B02003	1.0	ND	0.998	2/2/2006	2/2/2006	
Xylenes, Total	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B02003	2.0	ND	0.998	2/2/2006	2/2/2006	
tert-Butanol (TBA)	EPA 8260B	6B02003	20	ND	0.998	2/2/2006	2/2/2006	
Surrogate: Dibromofluoromethane (80-125%)				*97 %*				
Surrogate: Toluene-d8 (80-120%)				*91 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*87 %*				

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Project Manager

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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHANOL & ETHANOL BY DIRECT INJECTION GC/FID (EPA 8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPA2232-01 (MBE1d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-02 (MBE2d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-03 (MBE3d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-04 (MBE4d5 - Soil)				**Sampled: 01/23/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-05 (MBE5d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-06 (MBE6d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-07 (MBE7d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	
Sample ID: IPA2232-08 (MBE8d5 - Soil)				**Sampled: 01/24/06**				
Reporting Units: mg/kg								
Methanol	EPA 8015B	C6A2805	1.0	ND	1	1/28/2006	1/28/2006	

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Miller Brooks Environmental / Shell	Project ID: 9069 Grapevine Road, Lebec	
2124 Main Street, Suite 200	97645228	Sampled: 01/23/06-01/24/06
Huntington Beach, CA 92648	Report Number: IPA2232	Received: 01/26/06
Attention: Jeffrey Maxwell		

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6A31060 Extracted: 01/31/06										
Blank Analyzed: 01/31/2006 (6A31060-BLK1)										
DRO (C13-C22)	ND	5.0	mg/kg							
EFH (C13 - C40)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*5.31*		*mg/kg*	*6.67*		*80*	*40-125*			
LCS Analyzed: 01/31/2006 (6A31060-BS1)										
EFH (C13 - C40)	19.5	5.0	mg/kg	25.9		75	40-120			
Surrogate: n-Octacosane	*5.19*		*mg/kg*	*6.67*		*78*	*40-125*			
Matrix Spike Analyzed: 01/31/2006 (6A31060-MS1)					**Source: IPA2185-15**					
EFH (C13 - C40)	19.1	5.0	mg/kg	25.8	ND	74	30-125			
Surrogate: n-Octacosane	*5.10*		*mg/kg*	*6.65*		*77*	*40-125*			
Matrix Spike Dup Analyzed: 01/31/2006 (6A31060-MSD1)					**Source: IPA2185-15**					
EFH (C13 - C40)	18.9	5.0	mg/kg	25.9	ND	73	30-125	1	30	
Surrogate: n-Octacosane	*5.07*		*mg/kg*	*6.67*		*76*	*40-125*			
Batch: 6A31114 Extracted: 02/01/06										
Blank Analyzed: 02/01/2006 (6A31114-BLK1)										
DRO (C13-C22)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*5.53*		*mg/kg*	*6.67*		*83*	*40-125*			
LCS Analyzed: 02/01/2006 (6A31114-BS1)										
EFH (C13 - C40)	20.5	5.0	mg/kg	25.9		79	40-120			
Surrogate: n-Octacosane	*5.62*		*mg/kg*	*6.67*		*84*	*40-125*			
Matrix Spike Analyzed: 02/01/2006 (6A31114-MS1)					**Source: IPA2232-08**					
EFH (C13 - C40)	19.6	5.0	mg/kg	25.8	2.3	67	30-125			
Surrogate: n-Octacosane	*5.30*		*mg/kg*	*6.66*		*80*	*40-125*			

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6A31114 Extracted: 02/01/06										
Matrix Spike Dup Analyzed: 02/01/2006 (6A31114-MSD1)					**Source: IPA2232-08**					
EFH (C13 - C40)	22.6	5.0	mg/kg	25.8	2.3	79	30-125	14	30	
Surrogate: n-Octacosane	*5.69*		*mg/kg*	*6.65*		*86*	*40-125*			

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01002 Extracted: 02/01/06										
Blank Analyzed: 02/01/2006 (6B01002-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*45.7*		*ug/kg*	*50.0*		*91*	*80-125*			
Surrogate: Toluene-d8	*53.9*		*ug/kg*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.3*		*ug/kg*	*50.0*		*107*	*80-120*			
LCS Analyzed: 02/01/2006 (6B01002-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	704	200	ug/kg	1000		70	60-130			
Surrogate: Dibromofluoromethane	*47.4*		*ug/kg*	*50.0*		*95*	*80-125*			
Surrogate: Toluene-d8	*52.5*		*ug/kg*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.0*		*ug/kg*	*50.0*		*108*	*80-120*			
Matrix Spike Analyzed: 02/01/2006 (6B01002-MS1)					**Source: IPA1963-01**					
Volatile Fuel Hydrocarbons (C4-C12)	2160	180	ug/kg	2070	69	101	60-135			
Surrogate: Dibromofluoromethane	*43.0*		*ug/kg*	*46.1*		*93*	*80-125*			
Surrogate: Toluene-d8	*49.0*		*ug/kg*	*46.1*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.7*		*ug/kg*	*46.1*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 02/01/2006 (6B01002-MSD1)					**Source: IPA1963-01**					
Volatile Fuel Hydrocarbons (C4-C12)	2170	170	ug/kg	1930	69	109	60-135	1	25	
Surrogate: Dibromofluoromethane	*41.4*		*ug/kg*	*43.0*		*96*	*80-125*			
Surrogate: Toluene-d8	*44.8*		*ug/kg*	*43.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.9*		*ug/kg*	*43.0*		*107*	*80-120*			
Batch: 6B01019 Extracted: 02/01/06										
Blank Analyzed: 02/01/2006 (6B01019-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*48.5*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*52.1*		*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/kg*	*50.0*		*104*	*80-120*			

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97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01019 Extracted: 02/01/06										
LCS Analyzed: 02/01/2006 (6B01019-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	739	200	ug/kg	1000		74	60-130			
Surrogate: Dibromofluoromethane	*48.9*		*ug/kg*	*50.0*		*98*	*80-125*			
Surrogate: Toluene-d8	*52.9*		*ug/kg*	*50.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.4*		*ug/kg*	*50.0*		*107*	*80-120*			
Matrix Spike Analyzed: 02/01/2006 (6B01019-MS1)					**Source: IPA2232-03**					
Volatile Fuel Hydrocarbons (C4-C12)	2850	200	ug/kg	2290	ND	124	60-135			
Surrogate: Dibromofluoromethane	*48.1*		*ug/kg*	*51.1*		*94*	*80-125*			
Surrogate: Toluene-d8	*53.4*		*ug/kg*	*51.1*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*57.1*		*ug/kg*	*51.1*		*112*	*80-120*			
Matrix Spike Dup Analyzed: 02/01/2006 (6B01019-MSD1)					**Source: IPA2232-03**					
Volatile Fuel Hydrocarbons (C4-C12)	2800	210	ug/kg	2390	ND	117	60-135	2	25	
Surrogate: Dibromofluoromethane	*52.1*		*ug/kg*	*53.3*		*98*	*80-125*			
Surrogate: Toluene-d8	*56.9*		*ug/kg*	*53.3*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*60.9*		*ug/kg*	*53.3*		*114*	*80-120*			
Batch: 6B02003 Extracted: 02/02/06										
Blank Analyzed: 02/02/2006 (6B02003-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*48.4*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*46.8*		*ug/kg*	*50.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.0*		*ug/kg*	*50.0*		*92*	*80-120*			
LCS Analyzed: 02/02/2006 (6B02003-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	790	200	ug/kg	1000		79	60-130			
Surrogate: Dibromofluoromethane	*48.7*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*47.6*		*ug/kg*	*50.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.7*		*ug/kg*	*50.0*		*93*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B02003 Extracted: 02/02/06										
Matrix Spike Analyzed: 02/02/2006 (6B02003-MS1)					**Source: IPB0077-01**					
Volatile Fuel Hydrocarbons (C4-C12)	2110	200	ug/kg	2250	ND	94	60-135			
Surrogate: Dibromofluoromethane	*49.1*		*ug/kg*	*50.3*		*98*	*80-125*			
Surrogate: Toluene-d8	*48.1*		*ug/kg*	*50.3*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.1*		*ug/kg*	*50.3*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 02/02/2006 (6B02003-MSD1)					**Source: IPB0077-01**					
Volatile Fuel Hydrocarbons (C4-C12)	2010	200	ug/kg	2230	ND	90	60-135	5	25	
Surrogate: Dibromofluoromethane	*47.9*		*ug/kg*	*49.8*		*96*	*80-125*			
Surrogate: Toluene-d8	*47.1*		*ug/kg*	*49.8*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/kg*	*49.8*		*92*	*80-120*			
Batch: 6B06001 Extracted: 02/06/06										
Blank Analyzed: 02/06/2006 (6B06001-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*47.1*		*ug/kg*	*50.0*		*94*	*80-125*			
Surrogate: Toluene-d8	*52.4*		*ug/kg*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/kg*	*50.0*		*99*	*80-120*			
LCS Analyzed: 02/06/2006 (6B06001-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	1110	200	ug/kg	1000		111	60-130			
Surrogate: Dibromofluoromethane	*49.3*		*ug/kg*	*50.0*		*99*	*80-125*			
Surrogate: Toluene-d8	*52.8*		*ug/kg*	*50.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.5*		*ug/kg*	*50.0*		*101*	*80-120*			
Matrix Spike Analyzed: 02/06/2006 (6B06001-MS1)					**Source: IPB0071-02**					
Volatile Fuel Hydrocarbons (C4-C12)	2360	190	ug/kg	2080	350	97	60-135			
Surrogate: Dibromofluoromethane	*46.2*		*ug/kg*	*46.5*		*99*	*80-125*			
Surrogate: Toluene-d8	*48.9*		*ug/kg*	*46.5*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/kg*	*46.5*		*106*	*80-120*			

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VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B06001 Extracted: 02/06/06										
Matrix Spike Dup Analyzed: 02/06/2006 (6B06001-MSD1)					**Source: IPB0071-02**					
Volatile Fuel Hydrocarbons (C4-C12)	2500	200	ug/kg	2220	350	97	60-135	6	25	
Surrogate: Dibromofluoromethane	*48.9*		*ug/kg*	*49.5*		*99*	*80-125*			
Surrogate: Toluene-d8	*52.3*		*ug/kg*	*49.5*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.7*		*ug/kg*	*49.5*		*106*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01002 Extracted: 02/01/06										
Blank Analyzed: 02/01/2006 (6B01002-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Ethanol	ND	300	ug/kg							
Surrogate: Dibromofluoromethane	*45.7*		*ug/kg*	*50.0*		*91*	*80-125*			
Surrogate: Toluene-d8	*53.9*		*ug/kg*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.3*		*ug/kg*	*50.0*		*107*	*80-120*			
LCS Analyzed: 02/01/2006 (6B01002-BS1)										
Benzene	50.0	1.0	ug/kg	50.0		100	65-120			
Ethylbenzene	54.7	1.0	ug/kg	50.0		109	70-125			
Toluene	52.1	1.0	ug/kg	50.0		104	70-125			
m,p-Xylenes	105	2.0	ug/kg	100		105	70-125			
o-Xylene	50.5	1.0	ug/kg	50.0		101	70-125			
Xylenes, Total	155	2.0	ug/kg	150		103	70-125			
Methyl-tert-butyl Ether (MTBE)	52.4	2.0	ug/kg	50.0		105	55-140			
Di-isopropyl Ether (DIPE)	47.4	2.0	ug/kg	50.0		95	60-135			
Ethyl tert-Butyl Ether (ETBE)	49.4	2.0	ug/kg	50.0		99	60-135			
tert-Amyl Methyl Ether (TAME)	49.8	2.0	ug/kg	50.0		100	60-140			
tert-Butanol (TBA)	281	20	ug/kg	250		112	65-135			
Ethanol	580	300	ug/kg	500		116	35-160			
Surrogate: Dibromofluoromethane	*47.0*		*ug/kg*	*50.0*		*94*	*80-125*			
Surrogate: Toluene-d8	*52.7*		*ug/kg*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.6*		*ug/kg*	*50.0*		*109*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01002_Extracted: 02/01/06										
Matrix Spike Analyzed: 02/01/2006 (6B01002-MS1)					**Source: IPA1963-01**					
Benzene	46.2	0.92	ug/kg	46.1	ND	100	65-130			
Ethylbenzene	50.9	0.92	ug/kg	46.1	ND	110	70-130			
Toluene	47.7	0.92	ug/kg	46.1	ND	103	70-125			
m,p-Xylenes	99.8	1.8	ug/kg	92.3	ND	108	70-125			
o-Xylene	46.4	0.92	ug/kg	46.1	ND	101	70-125			
Xylenes, Total	146	1.8	ug/kg	138	ND	106	70-125			
Methyl-tert-butyl Ether (MTBE)	46.3	1.8	ug/kg	46.1	ND	100	55-150			
Di-isopropyl Ether (DIPE)	41.9	1.8	ug/kg	46.1	ND	91	60-145			
Ethyl tert-Butyl Ether (ETBE)	45.0	1.8	ug/kg	46.1	ND	98	60-140			
tert-Amyl Methyl Ether (TAME)	44.1	1.8	ug/kg	46.1	ND	96	60-145			
tert-Butanol (TBA)	251	18	ug/kg	231	ND	109	65-140			
Ethanol	591	280	ug/kg	461	ND	128	25-160			
Surrogate: Dibromofluoromethane	*43.0*		*ug/kg*	*46.1*		*93*	*80-125*			
Surrogate: Toluene-d8	*49.0*		*ug/kg*	*46.1*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.7*		*ug/kg*	*46.1*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 02/01/2006 (6B01002-MSD1)					**Source: IPA1963-01**					
Benzene	45.2	0.86	ug/kg	43.0	ND	105	65-130	2	20	
Ethylbenzene	50.6	0.86	ug/kg	43.0	ND	118	70-130	1	25	
Toluene	46.5	0.86	ug/kg	43.0	ND	108	70-125	3	20	
m,p-Xylenes	98.1	1.7	ug/kg	86.1	ND	114	70-125	2	25	
o-Xylene	46.3	0.86	ug/kg	43.0	ND	108	70-125	0	25	
Xylenes, Total	144	1.7	ug/kg	129	ND	112	70-125	1	25	
Methyl-tert-butyl Ether (MTBE)	46.5	1.7	ug/kg	43.0	ND	108	55-150	0	35	
Di-isopropyl Ether (DIPE)	42.9	1.7	ug/kg	43.0	ND	100	60-145	2	25	
Ethyl tert-Butyl Ether (ETBE)	45.3	1.7	ug/kg	43.0	ND	105	60-140	1	30	
tert-Amyl Methyl Ether (TAME)	45.3	1.7	ug/kg	43.0	ND	105	60-145	3	25	
tert-Butanol (TBA)	261	17	ug/kg	215	ND	121	65-140	4	30	
Ethanol	505	260	ug/kg	430	ND	117	25-160	16	40	
Surrogate: Dibromofluoromethane	*41.4*		*ug/kg*	*43.0*		*96*	*80-125*			
Surrogate: Toluene-d8	*44.8*		*ug/kg*	*43.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.9*		*ug/kg*	*43.0*		*107*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01019 Extracted: 02/01/06										
Blank Analyzed: 02/01/2006 (6B01019-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Surrogate: Dibromofluoromethane	*48.5*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*52.1*		*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/kg*	*50.0*		*104*	*80-120*			
LCS Analyzed: 02/01/2006 (6B01019-BS1)										
Benzene	56.8	1.0	ug/kg	50.0		114	65-120			
Ethylbenzene	60.1	1.0	ug/kg	50.0		120	70-125			
Toluene	60.0	1.0	ug/kg	50.0		120	70-125			
m,p-Xylenes	115	2.0	ug/kg	100		115	70-125			
o-Xylene	58.0	1.0	ug/kg	50.0		116	70-125			
Xylenes, Total	173	2.0	ug/kg	150		115	70-125			
Methyl-tert-butyl Ether (MTBE)	59.4	2.0	ug/kg	50.0		119	55-140			
Di-isopropyl Ether (DIPE)	56.2	2.0	ug/kg	50.0		112	60-135			
Ethyl tert-Butyl Ether (ETBE)	59.1	2.0	ug/kg	50.0		118	60-135			
tert-Amyl Methyl Ether (TAME)	58.4	2.0	ug/kg	50.0		117	60-140			
tert-Butanol (TBA)	298	20	ug/kg	250		119	65-135			
Ethanol	666	300	ug/kg	500		133	35-160			
Surrogate: Dibromofluoromethane	*50.9*		*ug/kg*	*50.0*		*102*	*80-125*			
Surrogate: Toluene-d8	*53.5*		*ug/kg*	*50.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*55.5*		*ug/kg*	*50.0*		*111*	*80-120*			

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B01019 Extracted: 02/01/06										
Matrix Spike Analyzed: 02/01/2006 (6B01019-MS1)					**Source: IPA2232-03**					
Benzene	59.3	1.0	ug/kg	51.1	ND	116	65-130			
Ethylbenzene	66.2	1.0	ug/kg	51.1	ND	130	70-130			
Toluene	61.3	1.0	ug/kg	51.1	ND	120	70-125			
m,p-Xylenes	128	2.0	ug/kg	102	ND	125	70-125			
o-Xylene	61.3	1.0	ug/kg	51.1	ND	120	70-125			
Xylenes, Total	189	2.0	ug/kg	153	ND	124	70-125			
Methyl-tert-butyl Ether (MTBE)	62.6	2.0	ug/kg	51.1	2.6	117	55-150			
Di-isopropyl Ether (DIPE)	55.3	2.0	ug/kg	51.1	ND	108	60-145			
Ethyl tert-Butyl Ether (ETBE)	59.0	2.0	ug/kg	51.1	ND	115	60-140			
tert-Amyl Methyl Ether (TAME)	58.0	2.0	ug/kg	51.1	ND	114	60-145			
tert-Butanol (TBA)	321	20	ug/kg	256	ND	125	65-140			
Surrogate: Dibromofluoromethane	*48.1*		*ug/kg*	*51.1*		*94*	*80-125*			
Surrogate: Toluene-d8	*53.4*		*ug/kg*	*51.1*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*57.1*		*ug/kg*	*51.1*		*112*	*80-120*			
Matrix Spike Dup Analyzed: 02/01/2006 (6B01019-MSD1)					**Source: IPA2232-03**					
Benzene	57.8	1.1	ug/kg	53.3	ND	108	65-130	3	20	
Ethylbenzene	64.0	1.1	ug/kg	53.3	ND	120	70-130	3	25	
Toluene	60.3	1.1	ug/kg	53.3	ND	113	70-125	2	20	
m,p-Xylenes	123	2.1	ug/kg	107	ND	115	70-125	4	25	
o-Xylene	61.0	1.1	ug/kg	53.3	ND	114	70-125	1	25	
Xylenes, Total	184	2.1	ug/kg	160	ND	115	70-125	3	25	
Methyl-tert-butyl Ether (MTBE)	61.5	2.1	ug/kg	53.3	2.6	111	55-150	2	35	
Di-isopropyl Ether (DIPE)	55.1	2.1	ug/kg	53.3	ND	103	60-145	0	25	
Ethyl tert-Butyl Ether (ETBE)	57.7	2.1	ug/kg	53.3	ND	108	60-140	2	30	
tert-Amyl Methyl Ether (TAME)	56.5	2.1	ug/kg	53.3	ND	106	60-145	3	25	
tert-Butanol (TBA)	312	21	ug/kg	267	ND	117	65-140	3	30	
Surrogate: Dibromofluoromethane	*52.1*		*ug/kg*	*53.3*		*98*	*80-125*			
Surrogate: Toluene-d8	*56.9*		*ug/kg*	*53.3*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*60.9*		*ug/kg*	*53.3*		*114*	*80-120*			

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B02003 Extracted: 02/02/06										
Blank Analyzed: 02/02/2006 (6B02003-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Surrogate: Dibromofluoromethane	*48.4*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*46.8*		*ug/kg*	*50.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.0*		*ug/kg*	*50.0*		*92*	*80-120*			
LCS Analyzed: 02/02/2006 (6B02003-BS1)										
Benzene	44.0	1.0	ug/kg	50.0		88	65-120			
Ethylbenzene	46.1	1.0	ug/kg	50.0		92	70-125			
Toluene	44.9	1.0	ug/kg	50.0		90	70-125			
m,p-Xylenes	90.5	2.0	ug/kg	100		90	70-125			
o-Xylene	45.1	1.0	ug/kg	50.0		90	70-125			
Xylenes, Total	136	2.0	ug/kg	150		91	70-125			
Methyl-tert-butyl Ether (MTBE)	47.0	2.0	ug/kg	50.0		94	55-140			
Di-isopropyl Ether (DIPE)	48.5	2.0	ug/kg	50.0		97	60-135			
Ethyl tert-Butyl Ether (ETBE)	48.2	2.0	ug/kg	50.0		96	60-135			
tert-Amyl Methyl Ether (TAME)	50.5	2.0	ug/kg	50.0		101	60-140			
tert-Butanol (TBA)	245	20	ug/kg	250		98	65-135			
Surrogate: Dibromofluoromethane	*47.7*		*ug/kg*	*50.0*		*95*	*80-125*			
Surrogate: Toluene-d8	*47.8*		*ug/kg*	*50.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.3*		*ug/kg*	*50.0*		*97*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B02003 Extracted: 02/02/06										
Matrix Spike Analyzed: 02/02/2006 (6B02003-MS1)					**Source: IPB0077-01**					
Benzene	47.1	1.0	ug/kg	50.3	ND	94	65-130			
Ethylbenzene	47.3	1.0	ug/kg	50.3	ND	94	70-130			
Toluene	47.5	1.0	ug/kg	50.3	ND	94	70-125			
m,p-Xylenes	92.0	2.0	ug/kg	101	ND	91	70-125			
o-Xylene	46.0	1.0	ug/kg	50.3	ND	91	70-125			
Xylenes, Total	138	2.0	ug/kg	151	ND	91	70-125			
Methyl-tert-butyl Ether (MTBE)	48.1	2.0	ug/kg	50.3	ND	96	55-150			
Di-isopropyl Ether (DIPE)	51.8	2.0	ug/kg	50.3	ND	103	60-145			
Ethyl tert-Butyl Ether (ETBE)	51.2	2.0	ug/kg	50.3	ND	102	60-140			
tert-Amyl Methyl Ether (TAME)	52.6	2.0	ug/kg	50.3	ND	105	60-145			
tert-Butanol (TBA)	246	20	ug/kg	252	ND	98	65-140			
Surrogate: Dibromofluoromethane	*49.1*		*ug/kg*	*50.3*		*98*	*80-125*			
Surrogate: Toluene-d8	*48.1*		*ug/kg*	*50.3*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.1*		*ug/kg*	*50.3*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 02/02/2006 (6B02003-MSD1)					**Source: IPB0077-01**					
Benzene	43.9	1.0	ug/kg	49.8	ND	88	65-130	7	20	
Ethylbenzene	46.4	1.0	ug/kg	49.8	ND	93	70-130	2	25	
Toluene	44.8	1.0	ug/kg	49.8	ND	90	70-125	6	20	
m,p-Xylenes	92.2	2.0	ug/kg	99.6	ND	93	70-125	0	25	
o-Xylene	44.5	1.0	ug/kg	49.8	ND	89	70-125	3	25	
Xylenes, Total	137	2.0	ug/kg	149	ND	92	70-125	1	25	
Methyl-tert-butyl Ether (MTBE)	45.7	2.0	ug/kg	49.8	ND	92	55-150	5	35	
Di-isopropyl Ether (DIPE)	48.6	2.0	ug/kg	49.8	ND	98	60-145	6	25	
Ethyl tert-Butyl Ether (ETBE)	48.6	2.0	ug/kg	49.8	ND	98	60-140	5	30	
tert-Amyl Methyl Ether (TAME)	49.8	2.0	ug/kg	49.8	ND	100	60-145	5	25	
tert-Butanol (TBA)	245	20	ug/kg	249	ND	98	65-140	0	30	
Surrogate: Dibromofluoromethane	*47.9*		*ug/kg*	*49.8*		*96*	*80-125*			
Surrogate: Toluene-d8	*47.1*		*ug/kg*	*49.8*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.8*		*ug/kg*	*49.8*		*92*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B03007 Extracted: 02/03/06										
Blank Analyzed: 02/03/2006 (6B03007-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Ethanol	ND	300	ug/kg							
Surrogate: Dibromofluoromethane	*52.5*		*ug/kg*	*50.0*		*105*	*80-125*			
Surrogate: Toluene-d8	*52.0*		*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.8*		*ug/kg*	*50.0*		*96*	*80-120*			
LCS Analyzed: 02/03/2006 (6B03007-BS1)										
Benzene	46.2	1.0	ug/kg	50.0		92	65-120			
Ethylbenzene	52.8	1.0	ug/kg	50.0		106	70-125			
Toluene	51.4	1.0	ug/kg	50.0		103	70-125			
m,p-Xylenes	107	2.0	ug/kg	100		107	70-125			
o-Xylene	54.0	1.0	ug/kg	50.0		108	70-125			
Xylenes, Total	161	2.0	ug/kg	150		107	70-125			
Methyl-tert-butyl Ether (MTBE)	52.2	2.0	ug/kg	50.0		104	55-140			
Di-isopropyl Ether (DIPE)	52.4	2.0	ug/kg	50.0		105	60-135			
Ethyl tert-Butyl Ether (ETBE)	51.3	2.0	ug/kg	50.0		103	60-135			
tert-Amyl Methyl Ether (TAME)	50.2	2.0	ug/kg	50.0		100	60-140			
tert-Butanol (TBA)	280	20	ug/kg	250		112	65-135			
Ethanol	413	300	ug/kg	500		83	35-160			
Surrogate: Dibromofluoromethane	*55.1*		*ug/kg*	*50.0*		*110*	*80-125*			
Surrogate: Toluene-d8	*52.0*		*ug/kg*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.3*		*ug/kg*	*50.0*		*109*	*80-120*			

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Received: 01/26/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B03007 Extracted: 02/03/06										
Matrix Spike Analyzed: 02/03/2006 (6B03007-MS1)					**Source: IPA2183-03**					
Benzene	49.1	1.0	ug/kg	52.3	ND	94	65-130			
Ethylbenzene	56.9	1.0	ug/kg	52.3	ND	109	70-130			
Toluene	54.6	1.0	ug/kg	52.3	ND	104	70-125			
m,p-Xylenes	115	2.1	ug/kg	105	ND	110	70-125			
o-Xylene	58.5	1.0	ug/kg	52.3	ND	112	70-125			
Xylenes, Total	174	2.1	ug/kg	157	ND	111	70-125			
Methyl-tert-butyl Ether (MTBE)	52.8	2.1	ug/kg	52.3	ND	101	55-150			
Di-isopropyl Ether (DIPE)	54.4	2.1	ug/kg	52.3	ND	104	60-145			
Ethyl tert-Butyl Ether (ETBE)	52.6	2.1	ug/kg	52.3	ND	101	60-140			
tert-Amyl Methyl Ether (TAME)	50.9	2.1	ug/kg	52.3	ND	97	60-145			
tert-Butanol (TBA)	309	21	ug/kg	262	ND	118	65-140			
Ethanol	495	310	ug/kg	523	ND	95	25-160			
Surrogate: Dibromofluoromethane	*55.0*		*ug/kg*	*52.3*		*105*	*80-125*			
Surrogate: Toluene-d8	*54.1*		*ug/kg*	*52.3*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*56.9*		*ug/kg*	*52.3*		*109*	*80-120*			
Matrix Spike Dup Analyzed: 02/03/2006 (6B03007-MSD1)					**Source: IPA2183-03**					
Benzene	48.0	1.0	ug/kg	52.2	ND	92	65-130	2	20	
Ethylbenzene	57.5	1.0	ug/kg	52.2	ND	110	70-130	1	25	
Toluene	55.3	1.0	ug/kg	52.2	ND	106	70-125	1	20	
m,p-Xylenes	116	2.1	ug/kg	104	ND	112	70-125	1	25	
o-Xylene	58.5	1.0	ug/kg	52.2	ND	112	70-125	0	25	
Xylenes, Total	174	2.1	ug/kg	157	ND	111	70-125	0	25	
Methyl-tert-butyl Ether (MTBE)	50.8	2.1	ug/kg	52.2	ND	97	55-150	4	35	
Di-isopropyl Ether (DIPE)	53.4	2.1	ug/kg	52.2	ND	102	60-145	2	25	
Ethyl tert-Butyl Ether (ETBE)	51.5	2.1	ug/kg	52.2	ND	99	60-140	2	30	
tert-Amyl Methyl Ether (TAME)	49.3	2.1	ug/kg	52.2	ND	94	60-145	3	25	
tert-Butanol (TBA)	320	21	ug/kg	261	ND	123	65-140	3	30	
Ethanol	546	310	ug/kg	522	ND	105	25-160	10	40	
Surrogate: Dibromofluoromethane	*53.8*		*ug/kg*	*52.2*		*103*	*80-125*			
Surrogate: Toluene-d8	*53.6*		*ug/kg*	*52.2*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*56.8*		*ug/kg*	*52.2*		*109*	*80-120*			

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Miller Brooks Environmental / Shell	Project ID: 9069 Grapevine Road, Lebec	
2124 Main Street, Suite 200	97645228	Sampled: 01/23/06-01/24/06
Huntington Beach, CA 92648	Report Number: IPA2232	Received: 01/26/06
Attention: Jeffrey Maxwell		

METHOD BLANK/QC DATA

METHANOL & ETHANOL BY DIRECT INJECTION GC/FID (EPA 8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C6A2805 Extracted: 01/28/06										
Blank Analyzed: 01/28/2006 (C6A2805-BLK1)										
Methanol	ND	1.0	mg/kg							
LCS Analyzed: 01/28/2006 (C6A2805-BS1)										
Methanol	9.70	1.0	mg/kg	10.0		97	80-125			
Matrix Spike Analyzed: 01/28/2006 (C6A2805-MS1)					**Source: IPA2232-01**					
Methanol	10.4	1.0	mg/kg	10.0	ND	104	60-130			
Matrix Spike Dup Analyzed: 01/28/2006 (C6A2805-MSD1)					**Source: IPA2232-01**					
Methanol	10.0	1.0	mg/kg	10.0	ND	100	60-130	4	25	

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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Miller Brooks Environmental / Shell	Project ID: 9069 Grapevine Road, Lebec	
2124 Main Street, Suite 200	97645228	Sampled: 01/23/06-01/24/06
Huntington Beach, CA 92648	Report Number: IPA2232	Received: 01/26/06
Attention: Jeffrey Maxwell		

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPA2232

Sampled: 01/23/06-01/24/06
Received: 01/26/06

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EPA 8015 MOD.	Soil	X	X
EPA 8260B	Soil	X	X
GC-FID	Soil		
TPH by GC/MS	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

Subcontracted Laboratories

Del Mar Analytical - Colton *California Cert #1169, Arizona Cert #AZ0062, Nevada Cert #CA-242*
1014 E. Cooley Drive, Suite AB - Colton, CA 92324
Method Performed: EPA 8015B
Samples: IPA2232-01, IPA2232-02, IPA2232-03, IPA2232-04, IPA2232-05, IPA2232-06, IPA2232-07, IPA2232-08

Del Mar Analytical, Irvine
Heather Bean For Debby Wilson
Project Manager

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SUBCONTRACT ORDER - PROJECT # IPA2232

SENDING LABORATORY:
Del Mar Analytical, Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Debby Wilson

RECEIVING LABORATORY:
Del Mar Analytical - Colton
1014 E. Cooley Drive, Suite AB
Colton, CA 92324
Phone :(909) 370-4667
Fax: (909) 370-1046

CPA0747

Analysis	Expiration	Due	Comments
Sample ID: IPA2232-01 Soil	**Sampled: 01/23/06 12:48**		
Methanol	02/06/06 12:48	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-01B)			
Sample ID: IPA2232-02 Soil	**Sampled: 01/23/06 14:30**		
Methanol	02/06/06 14:30	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-02B)			
Sample ID: IPA2232-03 Soil	**Sampled: 01/23/06 16:38**		
Methanol	02/06/06 16:38	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-03B)			
Sample ID: IPA2232-04 Soil	**Sampled: 01/23/06 18:43**		
Methanol	02/06/06 18:43	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-04B)			
Sample ID: IPA2232-05 Soil	**Sampled: 01/24/06 11:02**		
Methanol	02/07/06 11:02	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-05B)			
Sample ID: IPA2232-06 Soil	**Sampled: 01/24/06 12:29**		
Methanol	02/07/06 12:29	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-06B)			
Sample ID: IPA2232-07 Soil	**Sampled: 01/24/06 15:30**		
Methanol	02/07/06 15:30	02/03/06 12:00	sub to DMAC; shell contract
Containers Supplied: 2 oz jar (IPA2232-07B)			

Released By	Date	Time	Received By	Date	Time
	1/27/06	0810		1/27/06	0810
Released By	Date	Time	Received By	Date	Time
	1/27/06	1005		1/27/06	1005

Del Mar Analytical

1014 E. Cooley Dr., Suite A, Colton, CA 92324 Ph (909) 370-4667 Fax (909) 370-1046
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SUBCONTRACT ORDER - PROJECT # IPA2232

SENDING LABORATORY:

Del Mar Analytical, Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Debby Wilson

RECEIVING LABORATORY:

Del Mar Analytical - Colton
1014 E. Cooley Drive, Suite AB
Colton, CA 92324
Phone :(909) 370-4667
Fax: (909) 370-1046

Analysis	Expiration	Due	Comments
Sample ID: IPA2232-08 Soil	**Sampled: 01/24/06 16:40**		
Methanol	02/07/06 16:40	02/03/06 12:00	sub to DMAC; shell contract

Containers Supplied:
2 oz jar (IPA2232-08B)

SAMPLE INTEGRITY:

All containers intact: ☑ Yes ☐ No | Sample labels/COC agree: ☑ Yes ☐ No | Samples Received On Ice:: ☑ Yes ☐ No
Custody Seals Present: ☐ Yes ☑ No | Samples Preserved Properly: ☑ Yes ☐ No | Samples Received at (temp): 4°C

Released By		1/27/06	0810	Received By		1/27/06	0810
		Date	Time			Date	Time
Released By		1/27/06	1005	Received By		1/27/06	1005
		Date	Time			Date	Time

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LAB: Test America STL Other_____

SHELL Chain Of Custody Record

Lab Identification (if necessary).

- [x] TA - Irvine, California
- [ ] TA - Morgan Hill, California
- [ ] TA - Nashville, Tennessee
- [ ] STL
- [ ] Other (location)_____

Shell Project Manager to be invoiced:

- [x] ENVIRONMENTAL SERVICES — Marvin Katz
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON
- [ ] NOT FOR ENV. REMEDIATION - NO ETIM - SEND PAPER INVOICE

INCIDENT NUMBER (ES ONLY)

SAP or CRMT NUMBER (TS/CRMT)

DATE: 1·25·06

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
Miller Brooks Environmental		9069 Grapevine Road, Lebec	CA	

ADDRESS:	EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
2124 Main Street, Huntington Beach, CA 92648	Darlene Kelly	714-500-5400	dkelly@millerbrooksenv.com	155-0261-01

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Jeff Maxwell/Phil Chen	714-500-5403	714-960-2462	mbaldwin@millerbrooksenv.com

SAMPLER NAME(S) (Print): Vernon Rodriguez

LAB USE ONLY: 1FH2226

TURNAROUND TIME (STANDARD IS 10 CALENDAR DAYS): [x] STD [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED [ ]

RECEIPT VERIFICATION REQUESTED [x]

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8260B) Gas	TPH - Extractable (8015M)	Full Scan (8260B)	CAM Metals	TRPH	TPH-G	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	CAM Metals	1	BTEX (8260B)	MTBE (8260B)	TPHD (Diesel)	OXIGINET SX 8260	TEMPERATURE ON RECEIPT C°
	MBE1 d5	1/23-6	12:48	Soil	1	X												X			X	X	X	X	
	MBE2 d5	1/23-6	6:30	Soil	1	X												X			X	X	X	X	
	MBE3 d5	1/23-6	9:39	Soil	1	X												X			X	X	X	X	
	MBE4 d5	1/23-6	6:43	Soil	1	X												X			X	X	X	X	
	MBE5 d5	1/24-6	11:02	Soil	1	X												X			X	X	X	X	
	MBE6 d5	1/24-6	12:29	Soil	1	X												X			X	X	X	X	
	MBE7 d5	1/24-6	3:30	Soil	1	X												X			X	X	X	X	
	MBE8 d5	1/24-6	4:48	Soil	1	X												X			X	X	X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Vernon Rodriguez 1-25-6 10:55	Michelle May 1-25-06 1055		
Relinquished by: (Signature)	Received by: (Signature) Intact 6°C	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/18/05 Revision

Q&O Graphic (714) 898-9702

288

SHELL Chain Of Custody Record

LAB: Test America STL Other_____

Lab Identification (if necessary).

- [x] TA - Irvine, California
- [ ] TA - Morgan Hill, California
- [ ] TA - Nashville, Tennesee
- [ ] STL
- [ ] Other (location)_____

Shell Project Manager to be invoiced: Marvin Katz

- [x] ENVIRONMENTAL SERVICES
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON
- [ ] NOT FOR ENV. REMEDIATION - NO ETIM - SEND PAPER INVOICE

INCIDENT NUMBER (ES ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1.25.06

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
Miller Brooks Environmental		9069 Grapevine Road, Lebec	CA	

ADDRESS:	EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
2124 Main Street, Huntington Beach, CA 92648	Darlene Kelly	714-500-5400	dkelly@millerbrooksenv.com	155-0261-01

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Jeff Maxwell/Phil Chen	714-500-5403	714-960-2462	mbaldwin@millerbrooksenv.com

SAMPLER NAME(S) (Print): Vernon Rodriguez

LAB USE ONLY: 1FH0226

TURNAROUND TIME (STANDARD IS 10 CALENDAR DAYS): [x] STD [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED [ ]

RECEIPT VERIFICATION REQUESTED [x]

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8260B) Gas	TPH - Extractable (8015M)	Full Scan (8260B)	CAM Metals	TRPH	TPH-O	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	CAM Metals	1	BTEX (8260B)	MTBE (8260B)	TPHD (Diesel)	OXYGENATES (8260B)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE1 d5	1/23-6	12:48	Soil	1	X												X			X	X	X	X	
	MBE2 d5	1/23-6	6:30	Soil	1	X												X			X	X	X	X	
	MBE3 d5	1/23-6	4:38	Soil	1	X												X			X	X	X	X	
	MBE4 d5	1/23-6	6:43	Soil	1	X												X			X	X	X	X	
	MBE5 d5	1/24-6	11:02	SOIL	1	X												X			X	X	X	X	
	MBE6 d5	1/24-6	12:29	SOIL	1	X												X			X	X	X	X	
	MBE7 d5	1/24-6	3:30	SOIL	1	X												X			X	X	X	X	
	MBE8 d5	1/24-6	4:45	SOIL	1	X												X			X	X	X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Vernon Rodriguez 1.25.6 10:55	Michelle Mg 1-25-06 1055 Intact @ 6°C		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

11/18/05 Revision

Q&O Graphic (714) 895-8702

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LABORATORY REPORT

Prepared For: Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project: 9069 Grapevine Road, Lebec
97645228

Sampled: 02/01/06
Received: 02/02/06
Revised: 02/24/06 13:14

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL INFORMATION: Revised report 02/24/06dw to add ethanol results per chain of custody.

LABORATORY ID	CLIENT ID	MATRIX
IPB0230-01	MBE-8d11	Soil
IPB0230-02	MBE-8d16	Soil
IPB0230-03	MBE-8d20.5	Soil
IPB0230-04	MBE-8d30.5	Soil
IPB0230-05	MBE-7d10.5	Soil
IPB0230-06	MBE-7d15.5	Soil
IPB0230-07	MBE-7d20.5	Soil
IPB0230-08	MBE-7d25.5	Soil
IPB0230-09	MBE-7d30.5	Soil
IPB0230-10	MBE-7d35.5	Soil
IPB0230-11	MBE-7d39.5	Soil
IPB0230-12	MBE-1d11	Soil
IPB0230-13	MBE-1d16.5	Soil
IPB0230-14	MBE-1d21	Soil
IPB0230-15	MBE-1d25.5	Soil
IPB0230-16	MBE-1d35.5	Soil
IPB0230-17	MBE-1d39	Soil

Reviewed By:

Debby Wilson

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

Del Mar Analytical

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-01 (MBE-8d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*74 %*				
Sample ID: IPB0230-02 (MBE-8d16 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*76 %*				
Sample ID: IPB0230-03 (MBE-8d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	**6.3**	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*86 %*				
Sample ID: IPB0230-04 (MBE-8d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	**22**	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*91 %*				
Sample ID: IPB0230-05 (MBE-7d10.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	10	**110**	2	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*110 %*				
Sample ID: IPB0230-06 (MBE-7d15.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*89 %*				
Sample ID: IPB0230-07 (MBE-7d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*100 %*				
Sample ID: IPB0230-08 (MBE-7d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*69 %*				

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-09 (MBE-7d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*86 %*				
Sample ID: IPB0230-10 (MBE-7d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*92 %*				
Sample ID: IPB0230-11 (MBE-7d39.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*100 %*				
Sample ID: IPB0230-12 (MBE-1d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03056	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*82 %*				
Sample ID: IPB0230-13 (MBE-1d16.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03056	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*73 %*				
Sample ID: IPB0230-14 (MBE-1d21 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03056	5.0	ND	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*78 %*				
Sample ID: IPB0230-15 (MBE-1d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03056	5.0	**8.8**	1	2/3/2006	2/3/2006	
Surrogate: n-Octacosane (40-125%)				*99 %*				
Sample ID: IPB0230-16 (MBE-1d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*109 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-17 (MBE-1d39 - Soil)				**Sampled: 02/01/06**				
Reporting Units: mg/kg								
DRO (C13-C22)	EPA 8015 MOD.	6B03055	5.0	ND	1	2/3/2006	2/6/2006	
Surrogate: n-Octacosane (40-125%)				*97 %*				

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Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-01 (MBE-8d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	200	ND	0.984	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IPB0230-02 (MBE-8d16 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	200	ND	1	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Sample ID: IPB0230-03 (MBE-8d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	190	ND	0.949	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IPB0230-04 (MBE-8d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	180	ND	0.88	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				
Sample ID: IPB0230-05 (MBE-7d10.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	200	ND	1	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*69 %*				Z
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-06 (MBE-7d15.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	190	**200**	0.952	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-07 (MBE-7d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	200	ND	0.99	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Sample ID: IPB0230-08 (MBE-7d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B14020	200	ND	0.984	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*87 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IPB0230-09 (MBE-7d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	200	ND	1	2/15/2006	2/15/2006	R
Surrogate: Dibromofluoromethane (80-125%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-10 (MBE-7d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	220	ND	1.08	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-11 (MBE-7d39.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	200	ND	1.02	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*106 %*				
Sample ID: IPB0230-12 (MBE-1d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	200	**600**	0.998	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*109 %*				

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97645228
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Sampled: 02/01/06
Received: 02/02/06

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-13 (MBE-1d16.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	220	ND	1.08	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-14 (MBE-1d21 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	210	ND	1.04	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Sample ID: IPB0230-15 (MBE-1d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	210	ND	1.04	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Sample ID: IPB0230-16 (MBE-1d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	190	ND	0.956	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IPB0230-17 (MBE-1d39 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	6B15012	180	ND	0.914	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				

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Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-01 (MBE-8d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/14/2006	
Ethylbenzene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/14/2006	
Toluene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/14/2006	
m,p-Xylenes	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
o-Xylene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/14/2006	
Xylenes, Total	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/14/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	20	ND	0.984	2/14/2006	2/14/2006	
Ethanol	EPA 8260B	6B14020	300	ND	0.984	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*94 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				
Sample ID: IPB0230-02 (MBE-8d16 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	1.0	ND	1	2/14/2006	2/14/2006	
Ethylbenzene	EPA 8260B	6B14020	1.0	ND	1	2/14/2006	2/14/2006	
Toluene	EPA 8260B	6B14020	1.0	ND	1	2/14/2006	2/14/2006	
m,p-Xylenes	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
o-Xylene	EPA 8260B	6B14020	1.0	ND	1	2/14/2006	2/14/2006	
Xylenes, Total	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	2.0	ND	1	2/14/2006	2/14/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	20	ND	1	2/14/2006	2/14/2006	
Ethanol	EPA 8260B	6B14020	300	ND	1	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-03 (MBE-8d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.95	ND	0.949	2/14/2006	2/14/2006	
Ethylbenzene	EPA 8260B	6B14020	0.95	ND	0.949	2/14/2006	2/14/2006	
Toluene	EPA 8260B	6B14020	0.95	ND	0.949	2/14/2006	2/14/2006	
m,p-Xylenes	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
o-Xylene	EPA 8260B	6B14020	0.95	ND	0.949	2/14/2006	2/14/2006	
Xylenes, Total	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	1.9	ND	0.949	2/14/2006	2/14/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	19	ND	0.949	2/14/2006	2/14/2006	
Ethanol	EPA 8260B	6B14020	280	ND	0.949	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*96 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IPB0230-04 (MBE-8d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.88	ND	0.88	2/14/2006	2/14/2006	
Ethylbenzene	EPA 8260B	6B14020	0.88	ND	0.88	2/14/2006	2/14/2006	
Toluene	EPA 8260B	6B14020	0.88	ND	0.88	2/14/2006	2/14/2006	
m,p-Xylenes	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
o-Xylene	EPA 8260B	6B14020	0.88	ND	0.88	2/14/2006	2/14/2006	
Xylenes, Total	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	1.8	ND	0.88	2/14/2006	2/14/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	18	ND	0.88	2/14/2006	2/14/2006	
Ethanol	EPA 8260B	6B14020	260	ND	0.88	2/14/2006	2/14/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Debby Wilson
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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-05 (MBE-7d10.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.0	1.0	1	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	20	ND	1	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	300	ND	1	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*69 %*				Z
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-06 (MBE-7d15.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.95	ND	0.952	2/14/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B14020	0.95	ND	0.952	2/14/2006	2/15/2006	
Toluene	EPA 8260B	6B14020	0.95	ND	0.952	2/14/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
o-Xylene	EPA 8260B	6B14020	0.95	ND	0.952	2/14/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	1.9	ND	0.952	2/14/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	19	ND	0.952	2/14/2006	2/15/2006	
Ethanol	EPA 8260B	6B14020	290	ND	0.952	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-07 (MBE-7d20.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.99	ND	0.99	2/14/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B14020	0.99	ND	0.99	2/14/2006	2/15/2006	
Toluene	EPA 8260B	6B14020	0.99	ND	0.99	2/14/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
o-Xylene	EPA 8260B	6B14020	0.99	ND	0.99	2/14/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	2.0	ND	0.99	2/14/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	20	ND	0.99	2/14/2006	2/15/2006	
Ethanol	EPA 8260B	6B14020	300	ND	0.99	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*91 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				
Sample ID: IPB0230-08 (MBE-7d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/15/2006	
Toluene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
o-Xylene	EPA 8260B	6B14020	0.98	ND	0.984	2/14/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B14020	2.0	ND	0.984	2/14/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B14020	20	ND	0.984	2/14/2006	2/15/2006	
Ethanol	EPA 8260B	6B14020	300	ND	0.984	2/14/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*87 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-09 (MBE-7d30.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	R
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	R
Toluene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	R
m,p-Xylenes	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
o-Xylene	EPA 8260B	6B15012	1.0	ND	1	2/15/2006	2/15/2006	R
Xylenes, Total	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.0	ND	1	2/15/2006	2/15/2006	R
tert-Butanol (TBA)	EPA 8260B	6B15012	20	ND	1	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	300	ND	1	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-10 (MBE-7d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	22	ND	1.08	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	320	ND	1.08	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-11 (MBE-7d39.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	1.02	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	1.02	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.0	ND	1.02	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.0	ND	1.02	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.0	ND	1.02	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	20	ND	1.02	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	310	ND	1.02	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*106 %*				
Sample ID: IPB0230-12 (MBE-1d11 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	0.998	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	0.998	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.0	ND	0.998	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.0	ND	0.998	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.0	ND	0.998	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	20	ND	0.998	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	300	ND	0.998	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*109 %*				

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97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-13 (MBE-1d16.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.1	ND	1.08	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.2	ND	1.08	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	22	ND	1.08	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	320	ND	1.08	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*104 %*				
Sample ID: IPB0230-14 (MBE-1d21 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	21	ND	1.04	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	310	ND	1.04	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-15 (MBE-1d25.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	1.0	ND	1.04	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	2.1	ND	1.04	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	21	ND	1.04	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	310	ND	1.04	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				
Sample ID: IPB0230-16 (MBE-1d35.5 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	0.96	ND	0.956	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	0.96	ND	0.956	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	0.96	ND	0.956	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	0.96	ND	0.956	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	1.9	ND	0.956	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	19	ND	0.956	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	290	ND	0.956	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*100 %*				

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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPB0230-17 (MBE-1d39 - Soil)				**Sampled: 02/01/06**				
Reporting Units: ug/kg								
Benzene	EPA 8260B	6B15012	0.91	ND	0.914	2/15/2006	2/15/2006	
Ethylbenzene	EPA 8260B	6B15012	0.91	ND	0.914	2/15/2006	2/15/2006	
Toluene	EPA 8260B	6B15012	0.91	ND	0.914	2/15/2006	2/15/2006	
m,p-Xylenes	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
o-Xylene	EPA 8260B	6B15012	0.91	ND	0.914	2/15/2006	2/15/2006	
Xylenes, Total	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
Di-isopropyl Ether (DIPE)	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	6B15012	1.8	ND	0.914	2/15/2006	2/15/2006	
tert-Butanol (TBA)	EPA 8260B	6B15012	18	ND	0.914	2/15/2006	2/15/2006	
Ethanol	EPA 8260B	6B15012	270	ND	0.914	2/15/2006	2/15/2006	
Surrogate: Dibromofluoromethane (80-125%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*109 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*105 %*				

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Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B03055 Extracted: 02/03/06										
Blank Analyzed: 02/03/2006 (6B03055-BLK1)										
DRO (C13-C22)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*4.78*		*mg/kg*	*6.67*		*72*	*40-125*			
LCS Analyzed: 02/03/2006 (6B03055-BS1)										
EFH (C13 - C40)	22.9	5.0	mg/kg	25.9		88	40-120			
Surrogate: n-Octacosane	*5.17*		*mg/kg*	*6.67*		*78*	*40-125*			
Matrix Spike Analyzed: 02/03/2006 (6B03055-MS1)					**Source: IPB0230-08**					
EFH (C13 - C40)	22.8	5.0	mg/kg	25.9	ND	88	30-125			
Surrogate: n-Octacosane	*4.92*		*mg/kg*	*6.67*		*74*	*40-125*			
Matrix Spike Dup Analyzed: 02/03/2006 (6B03055-MSD1)					**Source: IPB0230-08**					
EFH (C13 - C40)	22.5	5.0	mg/kg	25.9	ND	87	30-125	1	30	
Surrogate: n-Octacosane	*5.02*		*mg/kg*	*6.67*		*75*	*40-125*			
Batch: 6B03056 Extracted: 02/03/06										
Blank Analyzed: 02/03/2006 (6B03056-BLK1)										
DRO (C13-C22)	ND	5.0	mg/kg							
Surrogate: n-Octacosane	*4.82*		*mg/kg*	*6.67*		*72*	*40-125*			
LCS Analyzed: 02/03/2006 (6B03056-BS1)										
EFH (C13 - C40)	21.8	5.0	mg/kg	25.9		84	40-120			
Surrogate: n-Octacosane	*5.24*		*mg/kg*	*6.67*		*79*	*40-125*			
Matrix Spike Analyzed: 02/03/2006 (6B03056-MS1)					**Source: IPB0230-14**					
EFH (C13 - C40)	20.0	5.0	mg/kg	25.9	ND	77	30-125			
Surrogate: n-Octacosane	*5.14*		*mg/kg*	*6.67*		*77*	*40-125*			

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Received: 02/02/06

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B03056 Extracted: 02/03/06										
Matrix Spike Dup Analyzed: 02/03/2006 (6B03056-MSD1)					**Source: IPB0230-14**					
EFH (C13 - C40)	20.4	5.0	mg/kg	25.9	ND	79	30-125	2	30	
Surrogate: n-Octacosane	*5.07*		*mg/kg*	*6.67*		*76*	*40-125*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B14020 Extracted: 02/14/06										
Blank Analyzed: 02/14/2006 (6B14020-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*47.2*		*ug/kg*	*50.0*		*94*	*80-125*			
Surrogate: Toluene-d8	*50.8*		*ug/kg*	*50.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/kg*	*50.0*		*98*	*80-120*			
LCS Analyzed: 02/14/2006 (6B14020-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	746	200	ug/kg	1000		75	60-130			
Surrogate: Dibromofluoromethane	*47.1*		*ug/kg*	*50.0*		*94*	*80-125*			
Surrogate: Toluene-d8	*50.6*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.8*		*ug/kg*	*50.0*		*102*	*80-120*			
Matrix Spike Analyzed: 02/14/2006 (6B14020-MS1)					**Source: IPB0230-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1830	190	ug/kg	2170	ND	84	60-135			
Surrogate: Dibromofluoromethane	*46.1*		*ug/kg*	*48.4*		*95*	*80-125*			
Surrogate: Toluene-d8	*48.8*		*ug/kg*	*48.4*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/kg*	*48.4*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 02/14/2006 (6B14020-MSD1)					**Source: IPB0230-01**					
Volatile Fuel Hydrocarbons (C4-C12)	1820	200	ug/kg	2220	ND	82	60-135	1	25	
Surrogate: Dibromofluoromethane	*47.1*		*ug/kg*	*49.6*		*95*	*80-125*			
Surrogate: Toluene-d8	*50.2*		*ug/kg*	*49.6*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/kg*	*49.6*		*103*	*80-120*			
Batch: 6B15012 Extracted: 02/15/06										
Blank Analyzed: 02/15/2006 (6B15012-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	200	ug/kg							
Surrogate: Dibromofluoromethane	*52.4*		*ug/kg*	*50.0*		*105*	*80-125*			
Surrogate: Toluene-d8	*54.1*		*ug/kg*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.1*		*ug/kg*	*50.0*		*106*	*80-120*			

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97645228
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Sampled: 02/01/06
Received: 02/02/06

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B15012 Extracted: 02/15/06										
LCS Analyzed: 02/15/2006 (6B15012-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	730	200	ug/kg	1000		73	60-130			
Surrogate: Dibromofluoromethane	*52.0*		*ug/kg*	*50.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*54.6*		*ug/kg*	*50.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.3*		*ug/kg*	*50.0*		*107*	*80-120*			
Matrix Spike Analyzed: 02/15/2006 (6B15012-MS1)					**Source: IPB0230-09**					
Volatile Fuel Hydrocarbons (C4-C12)	2480	220	ug/kg	2430	ND	102	60-135			
Surrogate: Dibromofluoromethane	*55.8*		*ug/kg*	*54.3*		*103*	*80-125*			
Surrogate: Toluene-d8	*58.6*		*ug/kg*	*54.3*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*57.6*		*ug/kg*	*54.3*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 02/15/2006 (6B15012-MSD1)					**Source: IPB0230-09**					
Volatile Fuel Hydrocarbons (C4-C12)	1730	190	ug/kg	2140	ND	81	60-135	36	25	*R*
Surrogate: Dibromofluoromethane	*47.6*		*ug/kg*	*47.7*		*100*	*80-125*			
Surrogate: Toluene-d8	*51.4*		*ug/kg*	*47.7*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/kg*	*47.7*		*104*	*80-120*			

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BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B14020 Extracted: 02/14/06										
Blank Analyzed: 02/14/2006 (6B14020-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Ethanol	ND	300	ug/kg							
Surrogate: Dibromofluoromethane	*47.2*		*ug/kg*	*50.0*		*94*	*80-125*			
Surrogate: Toluene-d8	*50.8*		*ug/kg*	*50.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/kg*	*50.0*		*98*	*80-120*			
LCS Analyzed: 02/14/2006 (6B14020-BS1)										
Benzene	45.1	1.0	ug/kg	50.0		90	65-120			
Ethylbenzene	48.7	1.0	ug/kg	50.0		97	70-125			
Toluene	46.0	1.0	ug/kg	50.0		92	70-125			
m,p-Xylenes	99.0	2.0	ug/kg	100		99	70-125			
o-Xylene	48.9	1.0	ug/kg	50.0		98	70-125			
Xylenes, Total	148	2.0	ug/kg	150		99	70-125			
Methyl-tert-butyl Ether (MTBE)	48.4	2.0	ug/kg	50.0		97	55-140			
Di-isopropyl Ether (DIPE)	41.4	2.0	ug/kg	50.0		83	60-135			
Ethyl tert-Butyl Ether (ETBE)	48.7	2.0	ug/kg	50.0		97	60-135			
tert-Amyl Methyl Ether (TAME)	53.2	2.0	ug/kg	50.0		106	60-140			
tert-Butanol (TBA)	238	20	ug/kg	250		95	65-135			
Ethanol	402	300	ug/kg	500		80	35-160			
Surrogate: Dibromofluoromethane	*48.6*		*ug/kg*	*50.0*		*97*	*80-125*			
Surrogate: Toluene-d8	*50.7*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.9*		*ug/kg*	*50.0*		*104*	*80-120*			

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Received: 02/02/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B14020 Extracted: 02/14/06										
Matrix Spike Analyzed: 02/14/2006 (6B14020-MS1)					**Source: IPB0230-01**					
Benzene	45.3	0.97	ug/kg	48.4	ND	94	65-130			
Ethylbenzene	48.8	0.97	ug/kg	48.4	ND	101	70-130			
Toluene	45.7	0.97	ug/kg	48.4	ND	94	70-125			
m,p-Xylenes	99.2	1.9	ug/kg	96.9	ND	102	70-125			
o-Xylene	48.4	0.97	ug/kg	48.4	ND	100	70-125			
Xylenes, Total	148	1.9	ug/kg	145	ND	102	70-125			
Methyl-tert-butyl Ether (MTBE)	49.0	1.9	ug/kg	48.4	ND	101	55-150			
Di-isopropyl Ether (DIPE)	42.0	1.9	ug/kg	48.4	ND	87	60-145			
Ethyl tert-Butyl Ether (ETBE)	48.8	1.9	ug/kg	48.4	ND	101	60-140			
tert-Amyl Methyl Ether (TAME)	53.3	1.9	ug/kg	48.4	ND	110	60-145			
tert-Butanol (TBA)	227	19	ug/kg	242	ND	94	65-140			
Ethanol	288	290	ug/kg	484	ND	60	25-160			
Surrogate: Dibromofluoromethane	*46.1*		*ug/kg*	*48.4*		*95*	*80-125*			
Surrogate: Toluene-d8	*48.8*		*ug/kg*	*48.4*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/kg*	*48.4*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 02/14/2006 (6B14020-MSD1)					**Source: IPB0230-01**					
Benzene	45.0	0.99	ug/kg	49.6	ND	91	65-130	1	20	
Ethylbenzene	48.5	0.99	ug/kg	49.6	ND	98	70-130	1	25	
Toluene	45.6	0.99	ug/kg	49.6	ND	92	70-125	0	20	
m,p-Xylenes	97.6	2.0	ug/kg	99.2	ND	98	70-125	2	25	
o-Xylene	48.7	0.99	ug/kg	49.6	ND	98	70-125	1	25	
Xylenes, Total	146	2.0	ug/kg	149	ND	98	70-125	1	25	
Methyl-tert-butyl Ether (MTBE)	51.1	2.0	ug/kg	49.6	ND	103	55-150	4	35	
Di-isopropyl Ether (DIPE)	41.4	2.0	ug/kg	49.6	ND	83	60-145	1	25	
Ethyl tert-Butyl Ether (ETBE)	49.6	2.0	ug/kg	49.6	ND	100	60-140	2	30	
tert-Amyl Methyl Ether (TAME)	55.8	2.0	ug/kg	49.6	ND	112	60-145	5	25	
tert-Butanol (TBA)	221	20	ug/kg	248	ND	89	65-140	3	30	
Ethanol	256	300	ug/kg	496	ND	52	25-160	12	40	
Surrogate: Dibromofluoromethane	*47.1*		*ug/kg*	*49.6*		*95*	*80-125*			
Surrogate: Toluene-d8	*50.2*		*ug/kg*	*49.6*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/kg*	*49.6*		*103*	*80-120*			

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B15012 Extracted: 02/15/06										
Blank Analyzed: 02/15/2006 (6B15012-BLK1)										
Benzene	ND	1.0	ug/kg							
Ethylbenzene	ND	1.0	ug/kg							
Toluene	ND	1.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
o-Xylene	ND	1.0	ug/kg							
Xylenes, Total	ND	2.0	ug/kg							
Methyl-tert-butyl Ether (MTBE)	ND	2.0	ug/kg							
Di-isopropyl Ether (DIPE)	ND	2.0	ug/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/kg							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/kg							
tert-Butanol (TBA)	ND	20	ug/kg							
Ethanol	ND	300	ug/kg							
Surrogate: Dibromofluoromethane	*52.4*		*ug/kg*	*50.0*		*105*	*80-125*			
Surrogate: Toluene-d8	*54.1*		*ug/kg*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.1*		*ug/kg*	*50.0*		*106*	*80-120*			
LCS Analyzed: 02/15/2006 (6B15012-BS1)										
Benzene	44.6	1.0	ug/kg	50.0		89	65-120			
Ethylbenzene	51.0	1.0	ug/kg	50.0		102	70-125			
Toluene	45.7	1.0	ug/kg	50.0		91	70-125			
m,p-Xylenes	102	2.0	ug/kg	100		102	70-125			
o-Xylene	49.4	1.0	ug/kg	50.0		99	70-125			
Xylenes, Total	152	2.0	ug/kg	150		101	70-125			
Methyl-tert-butyl Ether (MTBE)	49.4	2.0	ug/kg	50.0		99	55-140			
Di-isopropyl Ether (DIPE)	46.8	2.0	ug/kg	50.0		94	60-135			
Ethyl tert-Butyl Ether (ETBE)	49.8	2.0	ug/kg	50.0		100	60-135			
tert-Amyl Methyl Ether (TAME)	51.5	2.0	ug/kg	50.0		103	60-140			
tert-Butanol (TBA)	252	20	ug/kg	250		101	65-135			
Ethanol	429	300	ug/kg	500		86	35-160			
Surrogate: Dibromofluoromethane	*52.4*		*ug/kg*	*50.0*		*105*	*80-125*			
Surrogate: Toluene-d8	*54.0*		*ug/kg*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.4*		*ug/kg*	*50.0*		*109*	*80-120*			

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6B15012 Extracted: 02/15/06										
Matrix Spike Analyzed: 02/15/2006 (6B15012-MS1)					**Source: IPB0230-09**					
Benzene	45.8	1.1	ug/kg	54.3	ND	84	65-130			
Ethylbenzene	52.1	1.1	ug/kg	54.3	ND	96	70-130			
Toluene	46.9	1.1	ug/kg	54.3	ND	86	70-125			
m,p-Xylenes	104	2.2	ug/kg	109	ND	95	70-125			
o-Xylene	50.5	1.1	ug/kg	54.3	ND	93	70-125			
Xylenes, Total	155	2.2	ug/kg	163	ND	95	70-125			
Methyl-tert-butyl Ether (MTBE)	45.1	2.2	ug/kg	54.3	ND	83	55-150			
Di-isopropyl Ether (DIPE)	48.2	2.2	ug/kg	54.3	ND	89	60-145			
Ethyl tert-Butyl Ether (ETBE)	49.2	2.2	ug/kg	54.3	ND	91	60-140			
tert-Amyl Methyl Ether (TAME)	48.6	2.2	ug/kg	54.3	ND	90	60-145			
tert-Butanol (TBA)	284	22	ug/kg	272	ND	104	65-140			
Ethanol	485	330	ug/kg	543	ND	89	25-160			
Surrogate: Dibromofluoromethane	*55.8*		*ug/kg*	*54.3*		*103*	*80-125*			
Surrogate: Toluene-d8	*58.6*		*ug/kg*	*54.3*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*57.6*		*ug/kg*	*54.3*		*106*	*80-120*			
Matrix Spike Dup Analyzed: 02/15/2006 (6B15012-MSD1)					**Source: IPB0230-09**					
Benzene	33.9	0.95	ug/kg	47.7	ND	71	65-130	30	20	*R*
Ethylbenzene	38.8	0.95	ug/kg	47.7	ND	81	70-130	29	25	*R*
Toluene	34.6	0.95	ug/kg	47.7	ND	73	70-125	30	20	*R*
m,p-Xylenes	77.1	1.9	ug/kg	95.4	ND	81	70-125	30	25	*R*
o-Xylene	36.9	0.95	ug/kg	47.7	ND	77	70-125	31	25	*R*
Xylenes, Total	114	1.9	ug/kg	143	ND	80	70-125	30	25	*R*
Methyl-tert-butyl Ether (MTBE)	29.6	1.9	ug/kg	47.7	ND	62	55-150	41	35	*R*
Di-isopropyl Ether (DIPE)	33.7	1.9	ug/kg	47.7	ND	71	60-145	35	25	*R*
Ethyl tert-Butyl Ether (ETBE)	32.9	1.9	ug/kg	47.7	ND	69	60-140	40	30	*R*
tert-Amyl Methyl Ether (TAME)	32.3	1.9	ug/kg	47.7	ND	68	60-145	40	25	*R*
tert-Butanol (TBA)	241	19	ug/kg	239	ND	101	65-140	16	30	
Ethanol	405	290	ug/kg	477	ND	85	25-160	18	40	
Surrogate: Dibromofluoromethane	*47.6*		*ug/kg*	*47.7*		*100*	*80-125*			
Surrogate: Toluene-d8	*51.4*		*ug/kg*	*47.7*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/kg*	*47.7*		*104*	*80-120*			

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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Miller Brooks Environmental / Shell
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

DATA QUALIFIERS AND DEFINITIONS

R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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Attention: Jeffrey Maxwell

Project ID: 9069 Grapevine Road, Lebec
97645228
Report Number: IPB0230

Sampled: 02/01/06
Received: 02/02/06

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EPA 8015 MOD.	Soil	X	X
EPA 8260B	Soil	X	X
TPH by GC/MS	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Del Mar Analytical, Irvine
Debby Wilson
Project Manager

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SHELL Chain Of Custody Record

LA [redacted] 1st [redacted] Nashville [redacted]

Lab Identification (if necessary):

Address: 3960 Foster Creighton Dr.

City, State, Zip: Nashville TN, 37204

Shell Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 2/1/06

PAGE: 1 of 2

SAMPLING COMPANY: Miller Brooks Environmental	LOG CODE: MBEH	SITE ADDRESS (Street and City): 9069 Grapevine Rd, Lebec	GLOBAL ID NO.:
ADDRESS: 2124 Main St. Ste 200 Huntington Beach, CA 92648		EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley	PHONE NO.: 7145005400
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell		E-MAIL: dkelley@millerbrooksenv.com	CONSULTANT PROJECT NO.:
TELEPHONE: 1145005400	FAX: 714 960 2462	E-MAIL: Jeffmaxwell@millerbrooksenv.com	SAMPLER NAME(S) (Print): Philip Chen

LAB USE ONLY: 149830

TURNAROUND TIME (BUSINESS DAYS):
☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable - Diesel	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B--_28_		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE-8d11	2/1/06	0920	Soil	1	X	X		X	X	X															TEMPERATURE ON RECEIPT C° 2
	MBE-8d16		0925			X	X		X	X	X															
	MBE-8d20.5		0930			X	X		X	X	X															
	MBE-8d 30.5		0950			X	X		X	X	X															
	MBE-7d 10.5		1040			X	X		X	X	X															
	MBE-7d 15.5		1045			X	X		X	X	X															
	MBE-7d 20.5		1050			X	X		X	X	X															
	MBE-7d 25.5		1100			X	X		X	X	X															
	MBE-7d 30.5		1105			X	X		X	X	X															
	MBE-7d 35.5	↓	1110	↓	↓	X	X		X	X	X															

Relinquished by: (Signature) Philip Chen	Received by: (Signature)	Date: 2-2-06	Time: 1605
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 16 45
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 16:45

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address: 2960 Foster Creighton Dr.

City, State, Zip: Nashville, TN 37204

Shell Project Manager to be invoiced:

- [X] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Jeff Wentworth

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 2/1/06

PAGE: 2 of 2

SAMPLING COMPANY: Miller Brooks Environmental	LOG CODE: MBEH	SITE ADDRESS (Street and City): 9069 Grapevine Road, Lebec	GLOBAL ID NO.:
ADDRESS: 2124 Main St Ste. 200 Huntington Beach, CA 92648		EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley	PHONE NO.: 714 5005400
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell		E-MAIL: dkelley@millerbrookscnv.com	CONSULTANT PROJECT NO.:
TELEPHONE: 714 5005400	FAX: 714 9602462	E-MAIL: jeffmaxwell@millerbrookscnv.com	SAMPLER NAME(S) (Print): Philip Chen

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
- [ ] 10 DAYS
- [X] 5 DAYS
- [ ] 72 HOURS
- [ ] 48 HOURS
- [ ] 24 HOURS
- [ ] LESS THAN 24 HOURS

- [ ] LA - RWQCB REPORT FORMAT
- [x] UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED [ ]

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable Diesel	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-_28		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE-7d39.5	2/1/06	1120	Soil	1	X	X		X	X	X															
	MBE-1d11		1305			X	X		X	X	X															
	MBE-1d16.5		1310			X	X		X	X	X															
	MBE-1d21		1315			X	X		X	X	X															
	MBE-1d25.5		1320			X	X		X	X	X															
	MBE-1d35.5		1340			X	X		X	X	X															
	MBE-1d39		1350			X	X		X	X	X															

TEMPERATURE ON RECEIPT C° 2

Relinquished by: (Signature)	Received by: (Signature)	Date: 2-2-06 Time: 1645
Relinquished by: (Signature)	Received by: (Signature)	Date: 2-2-06 Time: 1645
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06 Time: 1645

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

February 08, 2006

Client: Miller Brooks Env. (H. Beach) / SHELL (13596)
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attn: Darlene Kelley

Work Order: NPB0300
Project Name: 9069 Grapevine, Lebec, CA
Project Nbr: 98995516
Date Received: 02/02/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MBE-2d11	NPB0300-01	01/31/06 08:35
MBE-2d16.5	NPB0300-02	01/31/06 08:40
MBE-2d25.5	NPB0300-03	01/31/06 08:50
MBE-2d30.5	NPB0300-04	01/31/06 09:00
MBE-2d39	NPB0300-05	01/31/06 09:05
MBE-11d11	NPB0300-06	01/31/06 09:50
MBE-11d16	NPB0300-07	01/31/06 10:00
MBE-11d21	NPB0300-08	01/31/06 10:05
MBE-11d26	NPB0300-09	01/31/06 10:10
MBE-11d30.5	NPB0300-10	01/31/06 10:15
MBE-11d36	NPB0300-11	01/31/06 10:20
MBE-11d40	NPB0300-12	01/31/06 10:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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California Certification Number: 01168CA

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Gail A Lage

Gail A Lage
Senior Project Manager

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-01 (MBE-2d11 - Soil) Sampled: 01/31/06 08:35								
General Chemistry Parameters								
% Dry Solids	93.3		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 05:20	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 05:20	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 05:20	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 05:20	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 05:20	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 05:20	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 05:20	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 05:20	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 05:20	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 05:20	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*83 %*					*02/04/06 05:20*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 05:20*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/04/06 05:20*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/04/06 05:20*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	ND		mg/kg	0.997	1	02/06/06 23:14	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*86 %*					*02/06/06 23:14*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	0.996	1	02/04/06 18:05	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*103 %*					*02/04/06 18:05*	*CA LUFT*	*6020568*
Sample ID: NPB0300-02 (MBE-2d16.5 - Soil) Sampled: 01/31/06 08:40								
General Chemistry Parameters								
% Dry Solids	91.6		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 05:50	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 05:50	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 05:50	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 05:50	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 05:50	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 05:50	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 05:50	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 05:50	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 05:50	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 05:50	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*85 %*					*02/04/06 05:50*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/04/06 05:50*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/04/06 05:50*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 05:50*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-02 (MBE-2d16.5 - Soil) - cont. Sampled: 01/31/06 08:40								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	ND		mg/kg	0.992	1	02/06/06 23:31	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*77 %*					*02/06/06 23:31*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.01	1	02/04/06 18:33	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*117 %*					*02/04/06 18:33*	*CA LUFT*	*6020568*
Sample ID: NPB0300-03 (MBE-2d25.5 - Soil) Sampled: 01/31/06 08:50								
General Chemistry Parameters								
% Dry Solids	97.5		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 06:20	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 06:20	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 06:20	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 06:20	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 06:20	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 06:20	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 06:20	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 06:20	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 06:20	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 06:20	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*83 %*					*02/04/06 06:20*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/04/06 06:20*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 06:20*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 06:20*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**18.8**		mg/kg	0.978	1	02/06/06 23:48	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*81 %*					*02/06/06 23:48*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	0.994	1	02/04/06 19:02	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*102 %*					*02/04/06 19:02*	*CA LUFT*	*6020568*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-04 (MBE-2d30.5 - Soil) Sampled: 01/31/06 09:00								
General Chemistry Parameters								
% Dry Solids	**95.0**		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 06:50	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 06:50	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 06:50	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 06:50	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 06:50	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 06:50	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 06:50	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 06:50	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 06:50	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 06:50	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*87 %*					*02/04/06 06:50*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 06:50*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/04/06 06:50*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*98 %*					*02/04/06 06:50*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	ND		mg/kg	0.995	1	02/07/06 00:05	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*87 %*					*02/07/06 00:05*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.01	1	02/04/06 19:30	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*102 %*					*02/04/06 19:30*	*CA LUFT*	*6020568*
Sample ID: NPB0300-05 (MBE-2d39 - Soil) Sampled: 01/31/06 09:05								
General Chemistry Parameters								
% Dry Solids	**97.6**		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 07:20	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 07:20	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 07:20	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 07:20	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 07:20	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 07:20	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 07:20	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 07:20	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 07:20	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 07:20	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*85 %*					*02/04/06 07:20*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/04/06 07:20*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 07:20*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*99 %*					*02/04/06 07:20*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-05 (MBE-2d39 - Soil) - cont. Sampled: 01/31/06 09:05								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	1.04		mg/kg	0.974	1	02/07/06 00:22	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*74 %*					*02/07/06 00:22*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	0.996	1	02/04/06 19:59	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/04/06 19:59*	*CA LUFT*	*6020568*
Sample ID: NPB0300-06 (MBE-11d11 - Soil) Sampled: 01/31/06 09:50								
General Chemistry Parameters								
% Dry Solids	93.6		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 07:50	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 07:50	SW846 8260B	6020524
Ethylbenzene	0.00373		mg/kg	0.00200	1	02/04/06 07:50	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 07:50	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 07:50	SW846 8260B	6020524
Toluene	0.00268		mg/kg	0.00200	1	02/04/06 07:50	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 07:50	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 07:50	SW846 8260B	6020524
Xylenes, total	0.0252		mg/kg	0.00500	1	02/04/06 07:50	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 07:50	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*86 %*					*02/04/06 07:50*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/04/06 07:50*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 07:50*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*102 %*					*02/04/06 07:50*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	308		mg/kg	9.97	10	02/06/06 14:43	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*	*Z3*				*02/06/06 14:43*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.00	1	02/04/06 20:27	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*95 %*					*02/04/06 20:27*	*CA LUFT*	*6020568*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-07 (MBE-11d16 - Soil) Sampled: 01/31/06 10:00								
General Chemistry Parameters								
% Dry Solids	**97.2**		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 08:19	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 08:19	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 08:19	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 08:19	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 08:19	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 08:19	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 08:19	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 08:19	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 08:19	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 08:19	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/04/06 08:19*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 08:19*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/04/06 08:19*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 08:19*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**1.33**		mg/kg	0.994	1	02/06/06 15:00	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*55 %*					*02/06/06 15:00*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	0.998	1	02/04/06 20:56	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*104 %*					*02/04/06 20:56*	*CA LUFT*	*6020568*
Sample ID: NPB0300-08 (MBE-11d21 - Soil) Sampled: 01/31/06 10:05								
General Chemistry Parameters								
% Dry Solids	**93.8**		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 08:49	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 08:49	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 08:49	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 08:49	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 08:49	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 08:49	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 08:49	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 08:49	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 08:49	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 08:49	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*84 %*					*02/04/06 08:49*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 08:49*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/04/06 08:49*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 08:49*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-08 (MBE-11d21 - Soil) - cont. Sampled: 01/31/06 10:05								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	2.22		mg/kg	0.970	1	02/06/06 15:17	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*93 %*					*02/06/06 15:17*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.01	1	02/04/06 21:24	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*103 %*					*02/04/06 21:24*	*CA LUFT*	*6020568*
Sample ID: NPB0300-09 (MBE-11d26 - Soil) Sampled: 01/31/06 10:10								
General Chemistry Parameters								
% Dry Solids	95.3		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 09:19	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 09:19	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 09:19	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 09:19	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 09:19	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 09:19	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 09:19	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 09:19	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 09:19	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 09:19	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/04/06 09:19*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/04/06 09:19*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 09:19*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/04/06 09:19*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	ND		mg/kg	0.968	1	02/06/06 15:34	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*94 %*					*02/06/06 15:34*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.01	1	02/04/06 21:53	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*103 %*					*02/04/06 21:53*	*CA LUFT*	*6020568*

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-10 (MBE-11d30.5 - Soil) Sampled: 01/31/06 10:15								
General Chemistry Parameters								
% Dry Solids	94.3		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 09:49	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 09:49	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 09:49	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 09:49	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 09:49	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 09:49	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 09:49	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 09:49	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 09:49	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 09:49	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/04/06 09:49*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 09:49*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/04/06 09:49*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*98 %*					*02/04/06 09:49*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	ND		mg/kg	0.963	1	02/06/06 15:51	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*89 %*					*02/06/06 15:51*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.00	1	02/04/06 22:21	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*101 %*					*02/04/06 22:21*	*CA LUFT*	*6020568*
Sample ID: NPB0300-11 (MBE-11d36 - Soil) Sampled: 01/31/06 10:20								
General Chemistry Parameters								
% Dry Solids	95.9		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 10:19	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 10:19	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 10:19	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 10:19	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 10:19	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 10:19	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 10:19	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 10:19	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 10:19	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 10:19	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/04/06 10:19*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/04/06 10:19*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 10:19*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/04/06 10:19*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0300-11 (MBE-11d36 - Soil) - cont. Sampled: 01/31/06 10:20								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	ND		mg/kg	0.997	1	02/06/06 16:08	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*95 %*					*02/06/06 16:08*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	1.00	1	02/04/06 22:50	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*109 %*					*02/04/06 22:50*	*CA LUFT*	*6020568*
Sample ID: NPB0300-12 (MBE-11d40 - Soil) Sampled: 01/31/06 10:30								
General Chemistry Parameters								
% Dry Solids	**93.2**		%	0.500	1	02/07/06 11:44	SW-846	6020532
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg	0.00200	1	02/04/06 10:49	SW846 8260B	6020524
Tertiary Butyl Alcohol	ND		mg/kg	0.050	1	02/04/06 10:49	SW846 8260B	6020524
Ethylbenzene	ND		mg/kg	0.00200	1	02/04/06 10:49	SW846 8260B	6020524
Methyl tert-Butyl Ether	ND		mg/kg	0.002	1	02/04/06 10:49	SW846 8260B	6020524
Diisopropyl Ether	ND		mg/kg	0.002	1	02/04/06 10:49	SW846 8260B	6020524
Toluene	ND		mg/kg	0.00200	1	02/04/06 10:49	SW846 8260B	6020524
Ethyl tert-Butyl Ether	ND		mg/kg	0.005	1	02/04/06 10:49	SW846 8260B	6020524
Tert-Amyl Methyl Ether	ND		mg/kg	0.002	1	02/04/06 10:49	SW846 8260B	6020524
Xylenes, total	ND		mg/kg	0.00500	1	02/04/06 10:49	SW846 8260B	6020524
Ethanol	ND		mg/kg	0.200	1	02/04/06 10:49	SW846 8260B	6020524
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/04/06 10:49*	*SW846 8260B*	*6020524*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/04/06 10:49*	*SW846 8260B*	*6020524*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/04/06 10:49*	*SW846 8260B*	*6020524*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 10:49*	*SW846 8260B*	*6020524*
Extractable Petroleum Hydrocarbons								
Diesel range organics	ND		mg/kg	0.996	1	02/06/06 16:25	CA LUFT	6020493
Surr: o-Terphenyl (56-143%)	*91 %*					*02/06/06 16:25*	*CA LUFT*	*6020493*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	ND		mg/kg	0.0797	1	02/04/06 23:18	CA LUFT	6020568
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/04/06 23:18*	*CA LUFT*	*6020568*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Miller Brooks Env. (H. Beach) / SHELL (13596)
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attn Darlene Kelley

Work Order: NPB0300
Project Name: 9069 Grapevine, Lebec, CA
Project Number: 98995516
Received: 02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
CA LUFT	6020459	NPB0300-01	50.16	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0300-02	50.39	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0300-03	51.12	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0300-04	50.24	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0300-05	51.33	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-06	50.13	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-07	50.28	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-08	51.56	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-09	51.64	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-10	51.94	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-11	50.14	1.00	02/03/06 16:00	JFP	EPA 3550B
CA LUFT	6020493	NPB0300-12	50.20	1.00	02/03/06 16:00	JFP	EPA 3550B
Purgeable Petroleum Hydrocarbons							
CA LUFT	6020568	NPB0300-01	5.02	5.00	02/03/06 11:15	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-02	4.96	5.00	02/03/06 11:20	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-03	5.03	5.00	02/03/06 11:20	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-04	4.97	5.00	02/03/06 11:20	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-05	5.02	5.00	02/03/06 11:20	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-06	5.00	5.00	02/03/06 13:15	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-07	5.01	5.00	02/03/06 13:15	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-08	4.97	5.00	02/03/06 13:15	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-09	4.95	5.00	02/03/06 13:15	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-10	4.99	5.00	02/03/06 14:00	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-11	5.00	5.00	02/03/06 14:00	SNN	EPA 5035A (GC)
CA LUFT	6020568	NPB0300-12	5.02	5.00	02/03/06 14:00	SNN	EPA 5035A (GC)
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	6020524	NPB0300-01	5.00	5.00	02/03/06 11:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-02	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-03	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-04	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-05	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-06	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-07	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-08	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-09	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-10	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-11	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-12	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	6020524	NPB0300-01	5.00	5.00	02/03/06 11:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-01	5.00	5.00	02/03/06 11:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-02	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-02	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-03	5.00	5.00	02/03/06 11:20	SNN	EPA 5035

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 8260B	6020524	NPB0300-03	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-04	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-04	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-05	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-05	5.00	5.00	02/03/06 11:20	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-06	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-06	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-07	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-07	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-08	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-08	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-09	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-09	5.00	5.00	02/03/06 13:15	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-10	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-10	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-11	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-11	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-12	5.00	5.00	02/03/06 14:00	SNN	EPA 5035
SW846 8260B	6020524	NPB0300-12	5.00	5.00	02/03/06 14:00	SNN	EPA 5035

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
6020524-BLK1						
Benzene	<0.000500		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Tertiary Butyl Alcohol	<0.018		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Ethylbenzene	<0.000500		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Methyl tert-Butyl Ether	<0.0009		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Diisopropyl Ether	<0.0006		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Toluene	<0.000970		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Ethyl tert-Butyl Ether	<0.0005		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Tert-Amyl Methyl Ether	<0.0007		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Xylenes, total	<0.00148		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Ethanol	<0.151		mg/kg	6020524	6020524-BLK1	02/04/06 04:50
Surrogate: 1,2-Dichloroethane-d4	83%			6020524	6020524-BLK1	02/04/06 04:50
Surrogate: Dibromofluoromethane	94%			6020524	6020524-BLK1	02/04/06 04:50
Surrogate: Toluene-d8	94%			6020524	6020524-BLK1	02/04/06 04:50
Surrogate: 4-Bromofluorobenzene	96%			6020524	6020524-BLK1	02/04/06 04:50
Extractable Petroleum Hydrocarbons						
6020459-BLK1						
Diesel range organics	<0.680		mg/kg	6020459	6020459-BLK1	02/06/06 16:43
Surrogate: o-Terphenyl	107%			6020459	6020459-BLK1	02/06/06 16:43
6020493-BLK1						
Diesel range organics	<0.680		mg/kg	6020493	6020493-BLK1	02/06/06 13:35
Surrogate: o-Terphenyl	92%			6020493	6020493-BLK1	02/06/06 13:35
Purgeable Petroleum Hydrocarbons						
6020568-BLK1						
GRO (C4-C12)	0.0633		mg/kg	6020568	6020568-BLK1	02/04/06 15:33
Surrogate: a,a,a-Trifluorotoluene	98%			6020568	6020568-BLK1	02/04/06 15:33

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
6020524-BS1								
Benzene	50.0	49.2		ug/L	98%	76 - 123	6020524	02/04/06 03:50
Tertiary Butyl Alcohol	500	194		ug/L	39%	38 - 150	6020524	02/04/06 03:50
Ethylbenzene	50.0	47.5		ug/L	95%	77 - 125	6020524	02/04/06 03:50
Methyl tert-Butyl Ether	50.0	35.0		ug/L	70%	63 - 140	6020524	02/04/06 03:50
Diisopropyl Ether	50.0	39.5		ug/L	79%	68 - 133	6020524	02/04/06 03:50
Toluene	50.0	44.7		ug/L	89%	79 - 122	6020524	02/04/06 03:50
Ethyl tert-Butyl Ether	50.0	38.0		ug/L	76%	64 - 138	6020524	02/04/06 03:50
Tert-Amyl Methyl Ether	50.0	37.5		ug/L	75%	59 - 142	6020524	02/04/06 03:50
Xylenes, total	150	140		ug/L	93%	71 - 129	6020524	02/04/06 03:50
Ethanol	5000	5630		ug/L	113%	48 - 159	6020524	02/04/06 03:50
Surrogate: 1,2-Dichloroethane-d4	50.0	44.0			88%	72 - 125	6020524	02/04/06 03:50
Surrogate: Dibromofluoromethane	50.0	47.0			94%	73 - 124	6020524	02/04/06 03:50
Surrogate: Toluene-d8	50.0	47.7			95%	80 - 124	6020524	02/04/06 03:50
Surrogate: 4-Bromofluorobenzene	50.0	48.7			97%	25 - 185	6020524	02/04/06 03:50
Extractable Petroleum Hydrocarbons								
6020459-BS1								
Diesel range organics	20.0	21.5		mg/kg	108%	54 - 126	6020459	02/06/06 17:00
Surrogate: o-Terphenyl	0.400	0.419			105%	56 - 143	6020459	02/06/06 17:00
6020493-BS1								
Diesel range organics	20.0	20.3		mg/kg	102%	54 - 126	6020493	02/06/06 13:52
Surrogate: o-Terphenyl	0.400	0.396			99%	56 - 143	6020493	02/06/06 13:52
Purgeable Petroleum Hydrocarbons								
6020568-BS2								
GRO (C4-C12)	10000	10500		ug/L	105%	67 - 130	6020568	02/05/06 01:12
Surrogate: a,a,a-Trifluorotoluene	30.0	63.4	Z2		211%	56 - 145	6020568	02/05/06 01:12

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
6020524-MS1										
Benzene	0.940	51.6		ug/L	50.0	101%	48 - 138	6020524	NPB0300-12	02/04/06 14:33
Tertiary Butyl Alcohol	ND	485		ug/L	500	97%	16 - 179	6020524	NPB0300-12	02/04/06 14:33
Ethylbenzene	ND	50.8		ug/L	50.0	102%	19 - 146	6020524	NPB0300-12	02/04/06 14:33
Methyl tert-Butyl Ether	ND	51.6		ug/L	50.0	103%	47 - 148	6020524	NPB0300-12	02/04/06 14:33
Diisopropyl Ether	ND	45.5		ug/L	50.0	91%	50 - 143	6020524	NPB0300-12	02/04/06 14:33
Toluene	1.57	46.2		ug/L	50.0	89%	40 - 143	6020524	NPB0300-12	02/04/06 14:33
Ethyl tert-Butyl Ether	ND	47.4		ug/L	50.0	95%	48 - 145	6020524	NPB0300-12	02/04/06 14:33
Tert-Amyl Methyl Ether	ND	56.0		ug/L	50.0	112%	43 - 150	6020524	NPB0300-12	02/04/06 14:33
Xylenes, total	0.900	154		ug/L	150	102%	36 - 144	6020524	NPB0300-12	02/04/06 14:33
Ethanol	ND	3940		ug/L	5000	79%	25 - 177	6020524	NPB0300-12	02/04/06 14:33
Surrogate: 1,2-Dichloroethane-d4		44.2		ug/L	50.0	88%	72 - 125	6020524	NPB0300-12	02/04/06 14:33
Surrogate: Dibromofluoromethane		49.2		ug/L	50.0	98%	73 - 124	6020524	NPB0300-12	02/04/06 14:33
Surrogate: Toluene-d8		46.3		ug/L	50.0	93%	80 - 124	6020524	NPB0300-12	02/04/06 14:33
Surrogate: 4-Bromofluorobenzene		46.3		ug/L	50.0	93%	25 - 185	6020524	NPB0300-12	02/04/06 14:33
Extractable Petroleum Hydrocarbons										
6020459-MS1										
Diesel range organics	ND	16.6		mg/kg	19.3	86%	28 - 143	6020459	NPB0294-23	02/06/06 17:17
Surrogate: o-Terphenyl		0.339		mg/kg	0.386	88%	56 - 143	6020459	NPB0294-23	02/06/06 17:17
6020493-MS1										
Diesel range organics	1.33	18.4		mg/kg	20.0	85%	28 - 143	6020493	NPB0300-07	02/06/06 14:09
Surrogate: o-Terphenyl		0.354		mg/kg	0.400	88%	56 - 143	6020493	NPB0300-07	02/06/06 14:09

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
6020524-MSD1												
Benzene	0.940	50.2		ug/L	50.0	99%	48 - 138	3	34	6020524	NPB0300-12	02/04/06 15:03
Tertiary Butyl Alcohol	ND	673		ug/L	500	135%	16 - 179	32	45	6020524	NPB0300-12	02/04/06 15:03
Ethylbenzene	ND	47.7		ug/L	50.0	95%	19 - 146	6	44	6020524	NPB0300-12	02/04/06 15:03
Methyl tert-Butyl Ether	ND	51.4		ug/L	50.0	103%	47 - 148	0.4	39	6020524	NPB0300-12	02/04/06 15:03
Diisopropyl Ether	ND	44.5		ug/L	50.0	89%	50 - 143	2	41	6020524	NPB0300-12	02/04/06 15:03
Toluene	1.57	43.8		ug/L	50.0	84%	40 - 143	5	41	6020524	NPB0300-12	02/04/06 15:03
Ethyl tert-Butyl Ether	ND	47.6		ug/L	50.0	95%	48 - 145	0.4	37	6020524	NPB0300-12	02/04/06 15:03
Tert-Amyl Methyl Ether	ND	60.8		ug/L	50.0	122%	43 - 150	8	39	6020524	NPB0300-12	02/04/06 15:03
Xylenes, total	0.900	145		ug/L	150	96%	36 - 144	6	35	6020524	NPB0300-12	02/04/06 15:03
Ethanol	ND	9550	M7	ug/L	5000	191%	25 - 177	83	59	6020524	NPB0300-12	02/04/06 15:03
Surrogate: 1,2-Dichloroethane-d4		44.7		ug/L	50.0	89%	72 - 125			6020524	NPB0300-12	02/04/06 15:03
Surrogate: Dibromofluoromethane		50.0		ug/L	50.0	100%	73 - 124			6020524	NPB0300-12	02/04/06 15:03
Surrogate: Toluene-d8		44.8		ug/L	50.0	90%	80 - 124			6020524	NPB0300-12	02/04/06 15:03
Surrogate: 4-Bromofluorobenzene		46.0		ug/L	50.0	92%	25 - 185			6020524	NPB0300-12	02/04/06 15:03
Extractable Petroleum Hydrocarbons												
6020459-MSD1												
Diesel range organics	ND	17.3		mg/kg	19.9	87%	28 - 143	4	51	6020459	NPB0294-23	02/06/06 18:08
Surrogate: o-Terphenyl		0.329		mg/kg	0.397	83%	56 - 143			6020459	NPB0294-23	02/06/06 18:08
6020493-MSD1												
Diesel range organics	1.33	12.2		mg/kg	19.7	55%	28 - 143	41	51	6020493	NPB0300-07	02/06/06 14:26
Surrogate: o-Terphenyl		0.227		mg/kg	0.393	58%	56 - 143			6020493	NPB0300-07	02/06/06 14:26

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	California
CA LUFT	Soil	N/A	X	X
NA	Soil			
SW846 8260B	Soil	N/A	X	X
SW-846	Soil			

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte
SW-846	Soil	% Dry Solids
SW846 8260B	Soil	Diisopropyl Ether

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0300
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

DATA QUALIFIERS AND DEFINITIONS

M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

Z2 Surrogate recovery was above the acceptance limits. Data not impacted.

Z3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

METHOD MODIFICATION NOTES

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

NPB0300

COOLER RECEIPT FORM BC#

Client Name : Miller Brooks

Cooler Received/Opened On: 2/02/06 **Accessioned By:** James D. Jacobs

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many and where: 1 Front
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES....NO...NA
5. Were custody papers inside cooler?..... YES....NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES....NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

    1540, 1551

    Fed-Ex UPS Velocity DHL Route Off-street Misc.
19. If a Non-Conformance exists, see attached or comments below:

BIS = Broken in shipment
Cooler Receipt Form

LF-1
End of Form

Revised 4/5/05

LAB: Del Mar

SHELL Chain Of Custody Record

009

Lab Identification (if necessary):

Address: 17461 Derian Ave, #100

City, State, Zip: Irvine CA

Shell Project Manager to be Invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/31/06

PAGE: 1 of 2

SAMPLING COMPANY: Miller Brooks

LOG CODE: MBEH

SITE ADDRESS (Street and City): 9061 Grapevine, Lebec

GLOBAL ID NO.:

ADDRESS: 2124 Main St. Ste 200 Huntington Beach

EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley

PHONE NO.: 7145005400

E-MAIL: dkelley@millerbrooksenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell

SAMPLER NAME(S) (Print): Philip Chen

LAB USE ONLY: NPB0300

02/09/06 17:00

TELEPHONE: 7145005400

FAX: 7149602462

E-MAIL: Jeffmaxwell@millerbrooksenv.com

TURNAROUND TIME (BUSINESS DAYS):

☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, ~~Purgeable~~ Diesel	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-- 28)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	
	MBE-2d11	1/31/06	0835	Soil	1	X	X		X	X	X															NPB0300-01
	MBE-2d16.5		0840			X	X		X	X	X															-02
	MBE-2d25.5		0850			X	X		X	X	X															-03
	MBE-2d30.5		0900			X	X		X	X	X															-04
	MBE-2d39		0905			X	X		X	X	X															-05
	MBE-11d11		0950			X	X		X	X	X															-06
	MBE-11d16 PC MBE-11d16		1000			X	X		X	X	X															-07
	MBE-11d21		1005			X	X		X	X	X															-08
	MBE-11d26		1010			X	X		X	X	X															-09
	MBE-11d30.5		1015			X	X		X	X	X															-10

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 3

Relinquished by: (Signature) Phil	Received by: (Signature)	Date: 1/31/06	Time: 13:40
Relinquished by: (Signature)	Received by: (Signature) Shipped to Nashville	Date: 02/01/06	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 255

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

O&D Graphic (714) 898-9712

LAB: Del Mar

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address: 17461 Derian Ave #100

City, State, Zip: Irvine, CA

Shell Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/31/06

PAGE: 2 of 2

SAMPLING COMPANY: Miller Brooks	LOG CODE: MBEH
ADDRESS: 2124 Main St Ste 200 Huntington Beach	
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell	
TELEPHONE: 7145005400	FAX: 7149602462
E-MAIL: Jeffmaxwell@millerbrooksenv.com	
TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS	
☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:	
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____	
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐	

SITE ADDRESS (Street and City): 9069 Grapevine	GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley	PHONE NO.: 7145005400
E-MAIL: dkelley@millerbrooksenv.com	CONSULTANT PROJECT NO.:
SAMPLER NAME(S) (Print): Philip Chen	LAB USE ONLY

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, ~~Purgeable~~ Diesel	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-- 28)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note
	MBE-11d36	1/31/06	1020	Soil	1	X	X		X	X	X														
	MBE-11d40	↓	1030	↓	1	X	X		X	X	X														

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 3

NPB0300-11
1 of 2

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/31/06	Time: 13:40
Relinquished by: (Signature)	Received by: (Signature) Ship to Nashville	Date: 02/01/06	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 255

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

OES Graphic (714) 895-9709

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

February 12, 2006

Client: Miller Brooks Env. (H. Beach) / SHELL (13596)
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attn: Darlene Kelley

Work Order: NPB0294
Project Name: 9069 Grapevine, Lebec, CA
Project Nbr: 98995516
Date Received: 02/02/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MBE-6d11.5	NPB0294-01	01/30/06 09:45
MBE-6d16.5	NPB0294-02	01/30/06 09:55
MBE-6d21.5	NPB0294-03	01/30/06 10:00
MBE-6d26.5	NPB0294-04	01/30/06 10:05
MBE-6d31.5	NPB0294-05	01/30/06 10:10
MBE-6d36.5	NPB0294-06	01/30/06 10:15
MBE-6d40	NPB0294-07	01/30/06 10:20
MBE-5d11.5	NPB0294-08	01/30/06 11:05
MBE-5d16.5	NPB0294-09	01/30/06 11:10
MBE-5d21.5	NPB0294-10	01/30/06 11:15
MBE-5d26.5	NPB0294-11	01/30/06 11:20
MBE-5d31.5	NPB0294-12	01/30/06 11:25
MBE-9d5	NPB0294-13	01/30/06 11:16
MBE-3d10.5	NPB0294-14	01/30/06 12:20
MBE-3d16.5	NPB0294-15	01/30/06 12:25
MBE-3d20.5	NPB0294-16	01/30/06 12:30
MBE-3d26	NPB0294-17	01/30/06 12:35
MBE-3d30.5	NPB0294-18	01/30/06 12:43
MBE-3d36.5	NPB0294-19	01/30/06 12:45
MBE-3d39	NPB0294-20	01/30/06 12:50
MBE-10d5	NPB0294-21	01/30/06 12:51
MBE-9d11.5	NPB0294-22	01/30/06 14:40
MBE-9d16.5	NPB0294-23	01/30/06 14:45
MBE-9d20.5	NPB0294-24	01/30/06 14:50
MBE-9d25.5	NPB0294-25	01/30/06 14:52
MBE-9d30.5	NPB0294-26	01/30/06 14:55

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

MBE-9d36	NPB0294-27	01/30/06 15:00
MBE-9d39	NPB0294-28	01/30/06 15:10
MBE-10d11	NPB0294-29	01/30/06 15:45
MBE-10d16	NPB0294-30	01/30/06 15:50
MBE-11d5	NPB0294-31	01/30/06 15:51
MBE-10d21.5	NPB0294-32	01/30/06 15:55
MBE-10d25.5	NPB0294-33	01/30/06 16:00
MBE-10d36	NPB0294-34	01/30/06 16:10
MBE-10d39	NPB0294-35	01/30/06 16:15

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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California Certification Number: 01168CA

The Chain(s) of Custody, 5 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Gail A Lage

Gail A Lage
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-01 (MBE-6d11.5 - Soil) Sampled: 01/30/06 09:45								
General Chemistry Parameters								
% Dry Solids	**86.3**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 16:22	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 16:22	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 16:22	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:22	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:22	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 16:22	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 16:22	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:22	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 16:22	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 16:22	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/03/06 16:22*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/03/06 16:22*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 16:22*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 16:22*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.971		mg/kg	0.971	1	02/05/06 04:05	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*95 %*					*02/05/06 04:05*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 19:35	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*101 %*					*02/03/06 19:35*	*CA LUFT*	*6020376*
Sample ID: NPB0294-02 (MBE-6d16.5 - Soil) Sampled: 01/30/06 09:55								
General Chemistry Parameters								
% Dry Solids	**89.8**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 16:52	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 16:52	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 16:52	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:52	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:52	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 16:52	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 16:52	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 16:52	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 16:52	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 16:52	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 16:52*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 16:52*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 16:52*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/03/06 16:52*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-02 (MBE-6d16.5 - Soil) - cont. Sampled: 01/30/06 09:55								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.997		mg/kg	0.997	1	02/05/06 04:22	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*100 %*					*02/05/06 04:22*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.998		mg/kg	0.998	1	02/03/06 20:03	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*100 %*					*02/03/06 20:03*	*CA LUFT*	*6020376*
Sample ID: NPB0294-03 (MBE-6d21.5 - Soil) Sampled: 01/30/06 10:00								
General Chemistry Parameters								
% Dry Solids	**93.8**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 17:22	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 17:22	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 17:22	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:22	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:22	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 17:22	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 17:22	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:22	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 17:22	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 17:22	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*84 %*					*02/03/06 17:22*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 17:22*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 17:22*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 17:22*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.979		mg/kg	0.979	1	02/05/06 04:38	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*78 %*					*02/05/06 04:38*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.990		mg/kg	0.990	1	02/03/06 20:32	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*100 %*					*02/03/06 20:32*	*CA LUFT*	*6020376*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-04 (MBE-6d26.5 - Soil) Sampled: 01/30/06 10:05								
General Chemistry Parameters								
% Dry Solids	91.4		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 17:52	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 17:52	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 17:52	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:52	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:52	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 17:52	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 17:52	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 17:52	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 17:52	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 17:52	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 17:52*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 17:52*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 17:52*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/03/06 17:52*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.959		mg/kg	0.959	1	02/05/06 04:55	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*86 %*					*02/05/06 04:55*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.990		mg/kg	0.990	1	02/03/06 21:00	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*103 %*					*02/03/06 21:00*	*CA LUFT*	*6020376*
Sample ID: NPB0294-05 (MBE-6d31.5 - Soil) Sampled: 01/30/06 10:10								
General Chemistry Parameters								
% Dry Solids	95.7		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 18:22	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 18:22	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 18:22	SW846 8260B	6020543
Methyl tert-Butyl Ether	0.002		mg/kg	0.002	1	02/03/06 18:22	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 18:22	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 18:22	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 18:22	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 18:22	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 18:22	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 18:22	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/03/06 18:22*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 18:22*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 18:22*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 18:22*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-05 (MBE-6d31.5 - Soil) - cont. Sampled: 01/30/06 10:10								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.993		mg/kg	0.993	1	02/05/06 05:12	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*98 %*					*02/05/06 05:12*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.994		mg/kg	0.994	1	02/03/06 21:29	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*100 %*					*02/03/06 21:29*	*CA LUFT*	*6020376*
Sample ID: NPB0294-06 (MBE-6d36.5 - Soil) Sampled: 01/30/06 10:15								
General Chemistry Parameters								
% Dry Solids	**88.1**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 18:52	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 18:52	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 18:52	SW846 8260B	6020543
Methyl tert-Butyl Ether	**0.002**		mg/kg	0.002	1	02/03/06 18:52	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 18:52	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 18:52	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 18:52	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 18:52	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 18:52	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 18:52	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*86 %*					*02/03/06 18:52*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 18:52*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 18:52*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 18:52*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.991		mg/kg	0.991	1	02/05/06 05:28	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*72 %*					*02/05/06 05:28*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.990		mg/kg	0.990	1	02/03/06 21:57	CA LUFT	6020376
Surr: a,a,a-Trifluorotoluene (56-145%)	*103 %*					*02/03/06 21:57*	*CA LUFT*	*6020376*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-07 (MBE-6d40 - Soil) Sampled: 01/30/06 10:20								
General Chemistry Parameters								
% Dry Solids	**83.1**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 19:22	SW846 8260B	6020543
Tertiary Butyl Alcohol	**0.334**		mg/kg	0.050	1	02/03/06 19:22	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 19:22	SW846 8260B	6020543
Methyl tert-Butyl Ether	**0.003**		mg/kg	0.002	1	02/03/06 19:22	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 19:22	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 19:22	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 19:22	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 19:22	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 19:22	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 19:22	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/03/06 19:22*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 19:22*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 19:22*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/03/06 19:22*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.965		mg/kg	0.965	1	02/05/06 05:45	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*75 %*					*02/05/06 05:45*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.996		mg/kg	0.996	1	02/03/06 18:01	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*97 %*					*02/03/06 18:01*	*CA LUFT*	*6014850*
Sample ID: NPB0294-08 (MBE-5d11.5 - Soil) Sampled: 01/30/06 11:05								
General Chemistry Parameters								
% Dry Solids	**88.9**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 19:52	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 19:52	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 19:52	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 19:52	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 19:52	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 19:52	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 19:52	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 19:52	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 19:52	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 19:52	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*84 %*					*02/03/06 19:52*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 19:52*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 19:52*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 19:52*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-08 (MBE-5d11.5 - Soil) - cont. Sampled: 01/30/06 11:05								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.981		mg/kg	0.981	1	02/05/06 06:35	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*82 %*					*02/05/06 06:35*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 18:34	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*110 %*					*02/03/06 18:34*	*CA LUFT*	*6014850*
Sample ID: NPB0294-09 (MBE-5d16.5 - Soil) Sampled: 01/30/06 11:10								
General Chemistry Parameters								
% Dry Solids	**88.1**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 20:22	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 20:22	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 20:22	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:22	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:22	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 20:22	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 20:22	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:22	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 20:22	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 20:22	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 20:22*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/03/06 20:22*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 20:22*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 20:22*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**8.52**		mg/kg	0.970	1	02/05/06 06:52	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*81 %*					*02/05/06 06:52*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.994		mg/kg	0.994	1	02/03/06 19:08	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*117 %*					*02/03/06 19:08*	*CA LUFT*	*6014850*

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-10 (MBE-5d21.5 - Soil) Sampled: 01/30/06 11:15								
General Chemistry Parameters								
% Dry Solids	**96.1**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	**0.00203**		mg/kg	0.00200	1	02/03/06 20:52	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 20:52	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 20:52	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:52	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:52	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 20:52	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 20:52	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 20:52	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 20:52	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 20:52	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*85 %*					*02/03/06 20:52*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 20:52*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 20:52*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/03/06 20:52*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.946		mg/kg	0.946	1	02/05/06 07:08	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*90 %*					*02/05/06 07:08*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.994		mg/kg	0.994	1	02/03/06 19:42	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*104 %*					*02/03/06 19:42*	*CA LUFT*	*6014850*
Sample ID: NPB0294-11 (MBE-5d26.5 - Soil) Sampled: 01/30/06 11:20								
General Chemistry Parameters								
% Dry Solids	**89.7**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 21:21	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 21:21	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 21:21	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:21	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:21	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 21:21	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 21:21	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:21	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 21:21	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 21:21	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*83 %*					*02/03/06 21:21*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 21:21*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 21:21*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*99 %*					*02/03/06 21:21*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-11 (MBE-5d26.5 - Soil) - cont. Sampled: 01/30/06 11:20								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	**58.6**		mg/kg	0.994	1	02/05/06 07:25	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*116 %*					*02/05/06 07:25*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.990		mg/kg	0.990	1	02/03/06 20:15	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/03/06 20:15*	*CA LUFT*	*6014850*
Sample ID: NPB0294-12 (MBE-5d31.5 - Soil) Sampled: 01/30/06 11:25								
General Chemistry Parameters								
% Dry Solids	**94.5**		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 21:51	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 21:51	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 21:51	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:51	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:51	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 21:51	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 21:51	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 21:51	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 21:51	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 21:51	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 21:51*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 21:51*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/03/06 21:51*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/03/06 21:51*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.995		mg/kg	0.995	1	02/05/06 07:42	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*107 %*					*02/05/06 07:42*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 20:49	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*116 %*					*02/03/06 20:49*	*CA LUFT*	*6014850*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-13 (MBE-9d5 - Soil) Sampled: 01/30/06 11:16								
General Chemistry Parameters								
% Dry Solids	86.4		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 22:21	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 22:21	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 22:21	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:21	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:21	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 22:21	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 22:21	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:21	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 22:21	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 22:21	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*84 %*					*02/03/06 22:21*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 22:21*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 22:21*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/03/06 22:21*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.975		mg/kg	0.975	1	02/05/06 07:58	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*97 %*					*02/05/06 07:58*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/03/06 21:22	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*108 %*					*02/03/06 21:22*	*CA LUFT*	*6014850*
Sample ID: NPB0294-14 (MBE-3d10.5 - Soil) Sampled: 01/30/06 12:20								
General Chemistry Parameters								
% Dry Solids	96.8		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 22:51	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 22:51	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 22:51	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:51	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:51	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 22:51	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 22:51	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 22:51	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 22:51	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 22:51	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/03/06 22:51*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/03/06 22:51*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 22:51*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/03/06 22:51*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-14 (MBE-3d10.5 - Soil) - cont. Sampled: 01/30/06 12:20								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.983		mg/kg	0.983	1	02/05/06 08:15	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*84 %*					*02/05/06 08:15*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 21:56	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/03/06 21:56*	*CA LUFT*	*6014850*
Sample ID: NPB0294-15 (MBE-3d16.5 - Soil) Sampled: 01/30/06 12:25								
General Chemistry Parameters								
% Dry Solids	90.0		%	0.500	1	02/06/06 11:11	SW-846	6020534
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 23:21	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 23:21	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 23:21	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:21	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:21	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 23:21	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 23:21	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:21	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 23:21	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 23:21	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 23:21*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 23:21*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 23:21*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/03/06 23:21*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.948		mg/kg	0.948	1	02/05/06 08:32	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*85 %*					*02/05/06 08:32*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 22:29	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*114 %*					*02/03/06 22:29*	*CA LUFT*	*6014850*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-16 (MBE-3d20.5 - Soil) Sampled: 01/30/06 12:30								
General Chemistry Parameters								
% Dry Solids	**94.0**		%	0.500	1	02/08/06 09:49	SW-846	6021107
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/03/06 23:51	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/03/06 23:51	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/03/06 23:51	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:51	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:51	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/03/06 23:51	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/03/06 23:51	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/03/06 23:51	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/03/06 23:51	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/03/06 23:51	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/03/06 23:51*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/03/06 23:51*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/03/06 23:51*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/03/06 23:51*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**3.38**		mg/kg	0.985	1	02/05/06 08:48	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*79 %*					*02/05/06 08:48*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/03/06 23:03	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*107 %*					*02/03/06 23:03*	*CA LUFT*	*6014850*
Sample ID: NPB0294-17 (MBE-3d26 - Soil) Sampled: 01/30/06 12:35								
General Chemistry Parameters								
% Dry Solids	**96.2**		%	0.500	1	02/08/06 09:49	SW-846	6021107
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 00:21	SW846 8260B	6020543
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 00:21	SW846 8260B	6020543
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 00:21	SW846 8260B	6020543
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 00:21	SW846 8260B	6020543
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 00:21	SW846 8260B	6020543
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 00:21	SW846 8260B	6020543
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 00:21	SW846 8260B	6020543
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 00:21	SW846 8260B	6020543
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 00:21	SW846 8260B	6020543
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 00:21	SW846 8260B	6020543
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/04/06 00:21*	*SW846 8260B*	*6020543*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/04/06 00:21*	*SW846 8260B*	*6020543*
Surr: Toluene-d8 (80-124%)	*94 %*					*02/04/06 00:21*	*SW846 8260B*	*6020543*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 00:21*	*SW846 8260B*	*6020543*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-17 (MBE-3d26 - Soil) - cont. Sampled: 01/30/06 12:35								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.987		mg/kg	0.987	1	02/05/06 09:05	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*116 %*					*02/05/06 09:05*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/03/06 23:36	CA LUFT	6014850
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/03/06 23:36*	*CA LUFT*	*6014850*
Sample ID: NPB0294-18 (MBE-3d30.5 - Soil) Sampled: 01/30/06 12:43								
General Chemistry Parameters								
% Dry Solids	**93.8**		%	0.500	1	02/08/06 09:49	SW-846	6021107
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 20:03	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 20:03	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 20:03	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:03	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:03	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 20:03	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 20:03	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:03	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 20:03	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 20:03	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*76 %*					*02/04/06 20:03*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*96 %*					*02/04/06 20:03*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/04/06 20:03*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/04/06 20:03*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**1.00**		mg/kg	0.980	1	02/05/06 09:22	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*99 %*					*02/05/06 09:22*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.998		mg/kg	0.998	1	02/04/06 14:58	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/04/06 14:58*	*CA LUFT*	*6020528*

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-19 (MBE-3d36.5 - Soil) Sampled: 01/30/06 12:45								
General Chemistry Parameters								
% Dry Solids	94.1		%	0.500	1	02/08/06 09:49	SW-846	6021107
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 20:33	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 20:33	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 20:33	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:33	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:33	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 20:33	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 20:33	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 20:33	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 20:33	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 20:33	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*79 %*					*02/04/06 20:33*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 20:33*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/04/06 20:33*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*94 %*					*02/04/06 20:33*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.989		mg/kg	0.989	1	02/05/06 09:39	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*91 %*					*02/05/06 09:39*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.990		mg/kg	0.990	1	02/04/06 15:32	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/04/06 15:32*	*CA LUFT*	*6020528*
Sample ID: NPB0294-20 (MBE-3d39 - Soil) Sampled: 01/30/06 12:50								
General Chemistry Parameters								
% Dry Solids	96.0		%	0.500	1	02/08/06 09:49	SW-846	6021107
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 21:03	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 21:03	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 21:03	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:03	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:03	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 21:03	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 21:03	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:03	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 21:03	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 21:03	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*79 %*					*02/04/06 21:03*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 21:03*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/04/06 21:03*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*94 %*					*02/04/06 21:03*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-20 (MBE-3d39 - Soil) - cont. Sampled: 01/30/06 12:50								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	**1.10**		mg/kg	0.963	1	02/05/06 09:55	CA LUFT	6020458
Surr: o-Terphenyl (56-143%)	*86 %*					*02/05/06 09:55*	*CA LUFT*	*6020458*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/04/06 16:05	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/04/06 16:05*	*CA LUFT*	*6020528*
Sample ID: NPB0294-21 (MBE-10d5 - Soil) Sampled: 01/30/06 12:51								
General Chemistry Parameters								
% Dry Solids	**86.8**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 21:33	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 21:33	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 21:33	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:33	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:33	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 21:33	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 21:33	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 21:33	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 21:33	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 21:33	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/04/06 21:33*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 21:33*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/04/06 21:33*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*94 %*					*02/04/06 21:33*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**1.12**		mg/kg	0.988	1	02/06/06 18:26	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*74 %*					*02/06/06 18:26*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/04/06 16:39	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*108 %*					*02/04/06 16:39*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-22 (MBE-9d11.5 - Soil) Sampled: 01/30/06 14:40								
General Chemistry Parameters								
% Dry Solids	96.7		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 22:03	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 22:03	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 22:03	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:03	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:03	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 22:03	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 22:03	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:03	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 22:03	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 22:03	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/04/06 22:03*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 22:03*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/04/06 22:03*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/04/06 22:03*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.987		mg/kg	0.987	1	02/06/06 18:43	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*84 %*					*02/06/06 18:43*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.996		mg/kg	0.996	1	02/04/06 17:12	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*115 %*					*02/04/06 17:12*	*CA LUFT*	*6020528*
Sample ID: NPB0294-23 (MBE-9d16.5 - Soil) Sampled: 01/30/06 14:45								
General Chemistry Parameters								
% Dry Solids	95.5		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 22:33	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 22:33	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 22:33	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:33	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:33	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 22:33	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 22:33	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 22:33	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 22:33	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 22:33	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/04/06 22:33*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*95 %*					*02/04/06 22:33*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/04/06 22:33*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*94 %*					*02/04/06 22:33*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-23 (MBE-9d16.5 - Soil) - cont. Sampled: 01/30/06 14:45								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.981		mg/kg	0.981	1	02/06/06 19:00	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*117 %*					*02/06/06 19:00*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.994		mg/kg	0.994	1	02/04/06 17:46	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*117 %*					*02/04/06 17:46*	*CA LUFT*	*6020528*
Sample ID: NPB0294-24 (MBE-9d20.5 - Soil) Sampled: 01/30/06 14:50								
General Chemistry Parameters								
% Dry Solids	**94.9**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 23:02	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 23:02	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 23:02	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:02	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:02	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 23:02	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 23:02	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:02	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/04/06 23:02	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 23:02	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/04/06 23:02*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/04/06 23:02*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/04/06 23:02*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/04/06 23:02*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.969		mg/kg	0.969	1	02/06/06 19:17	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*86 %*					*02/06/06 19:17*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/04/06 18:19	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/04/06 18:19*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-25 (MBE-9d25.5 - Soil) Sampled: 01/30/06 14:52								
General Chemistry Parameters								
% Dry Solids	**98.1**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/04/06 23:32	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/04/06 23:32	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/04/06 23:32	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:32	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:32	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/04/06 23:32	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/04/06 23:32	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/04/06 23:32	SW846 8260B	6020544
Xylenes, total	**0.0106**		mg/kg	0.00500	1	02/04/06 23:32	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/04/06 23:32	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/04/06 23:32*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/04/06 23:32*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/04/06 23:32*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/04/06 23:32*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.991		mg/kg	0.991	1	02/06/06 19:34	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*83 %*					*02/06/06 19:34*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/04/06 18:53	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*109 %*					*02/04/06 18:53*	*CA LUFT*	*6020528*
Sample ID: NPB0294-26 (MBE-9d30.5 - Soil) Sampled: 01/30/06 14:55								
General Chemistry Parameters								
% Dry Solids	**93.6**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 00:02	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 00:02	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 00:02	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:02	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:02	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 00:02	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 00:02	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:02	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 00:02	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 00:02	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*81 %*					*02/05/06 00:02*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/05/06 00:02*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*91 %*					*02/05/06 00:02*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/05/06 00:02*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-26 (MBE-9d30.5 - Soil) - cont. Sampled: 01/30/06 14:55								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.987		mg/kg	0.987	1	02/06/06 19:51	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*115 %*					*02/06/06 19:51*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.996		mg/kg	0.996	1	02/04/06 19:26	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*122 %*					*02/04/06 19:26*	*CA LUFT*	*6020528*
Sample ID: NPB0294-27 (MBE-9d36 - Soil) Sampled: 01/30/06 15:00								
General Chemistry Parameters								
% Dry Solids	**97.0**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 00:32	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 00:32	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 00:32	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:32	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:32	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 00:32	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 00:32	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 00:32	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 00:32	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 00:32	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/05/06 00:32*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/05/06 00:32*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/05/06 00:32*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*98 %*					*02/05/06 00:32*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	**1.91**		mg/kg	0.961	1	02/06/06 20:08	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*84 %*					*02/06/06 20:08*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.992		mg/kg	0.992	1	02/04/06 20:00	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/04/06 20:00*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-28 (MBE-9d39 - Soil) Sampled: 01/30/06 15:10								
General Chemistry Parameters								
% Dry Solids	**93.6**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 01:02	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 01:02	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 01:02	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:02	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:02	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 01:02	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 01:02	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:02	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 01:02	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 01:02	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/05/06 01:02*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/05/06 01:02*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/05/06 01:02*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/05/06 01:02*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.972		mg/kg	0.972	1	02/06/06 20:25	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*69 %*					*02/06/06 20:25*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/04/06 20:33	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*104 %*					*02/04/06 20:33*	*CA LUFT*	*6020528*
Sample ID: NPB0294-29 (MBE-10d11 - Soil) Sampled: 01/30/06 15:45								
General Chemistry Parameters								
% Dry Solids	**96.5**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 01:32	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 01:32	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 01:32	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:32	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:32	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 01:32	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 01:32	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 01:32	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 01:32	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 01:32	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*80 %*					*02/05/06 01:32*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*95 %*					*02/05/06 01:32*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/05/06 01:32*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*97 %*					*02/05/06 01:32*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-29 (MBE-10d11 - Soil) - cont. Sampled: 01/30/06 15:45								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.970		mg/kg	0.970	1	02/06/06 20:42	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*74 %*					*02/06/06 20:42*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.992		mg/kg	0.992	1	02/04/06 21:07	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*107 %*					*02/04/06 21:07*	*CA LUFT*	*6020528*
Sample ID: NPB0294-30 (MBE-10d16 - Soil) Sampled: 01/30/06 15:50								
General Chemistry Parameters								
% Dry Solids	**95.8**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 02:02	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 02:02	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 02:02	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:02	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:02	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 02:02	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 02:02	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:02	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 02:02	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 02:02	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/05/06 02:02*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*93 %*					*02/05/06 02:02*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*93 %*					*02/05/06 02:02*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*95 %*					*02/05/06 02:02*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<1.00		mg/kg	1.00	1	02/06/06 20:59	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*75 %*					*02/06/06 20:59*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.988		mg/kg	0.988	1	02/04/06 21:40	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*119 %*					*02/04/06 21:40*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-31 (MBE-11d5 - Soil) Sampled: 01/30/06 15:51								
General Chemistry Parameters								
% Dry Solids	**86.9**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/09/06 11:19	SW846 8260B	6021538
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/09/06 11:19	SW846 8260B	6021538
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/09/06 11:19	SW846 8260B	6021538
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:19	SW846 8260B	6021538
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:19	SW846 8260B	6021538
Toluene	<0.00200		mg/kg	0.00200	1	02/09/06 11:19	SW846 8260B	6021538
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/09/06 11:19	SW846 8260B	6021538
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:19	SW846 8260B	6021538
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/09/06 11:19	SW846 8260B	6021538
Ethanol	<0.200		mg/kg	0.200	1	02/09/06 11:19	SW846 8260B	6021538
Surr: 1,2-Dichloroethane-d4 (72-125%)	*87 %*					*02/09/06 11:19*	*SW846 8260B*	*6021538*
Surr: Dibromofluoromethane (73-124%)	*90 %*					*02/09/06 11:19*	*SW846 8260B*	*6021538*
Surr: Toluene-d8 (80-124%)	*89 %*					*02/09/06 11:19*	*SW846 8260B*	*6021538*
Surr: 4-Bromofluorobenzene (25-185%)	*90 %*					*02/09/06 11:19*	*SW846 8260B*	*6021538*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.984		mg/kg	0.984	1	02/06/06 21:16	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*88 %*					*02/06/06 21:16*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<0.994		mg/kg	0.994	1	02/04/06 22:13	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*109 %*					*02/04/06 22:13*	*CA LUFT*	*6020528*
Sample ID: NPB0294-32 (MBE-10d21.5 - Soil) Sampled: 01/30/06 15:55								
General Chemistry Parameters								
% Dry Solids	**95.5**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/09/06 11:50	SW846 8260B	6021538
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/09/06 11:50	SW846 8260B	6021538
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/09/06 11:50	SW846 8260B	6021538
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:50	SW846 8260B	6021538
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:50	SW846 8260B	6021538
Toluene	<0.00200		mg/kg	0.00200	1	02/09/06 11:50	SW846 8260B	6021538
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/09/06 11:50	SW846 8260B	6021538
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/09/06 11:50	SW846 8260B	6021538
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/09/06 11:50	SW846 8260B	6021538
Ethanol	<0.200		mg/kg	0.200	1	02/09/06 11:50	SW846 8260B	6021538
Surr: 1,2-Dichloroethane-d4 (72-125%)	*88 %*					*02/09/06 11:50*	*SW846 8260B*	*6021538*
Surr: Dibromofluoromethane (73-124%)	*92 %*					*02/09/06 11:50*	*SW846 8260B*	*6021538*
Surr: Toluene-d8 (80-124%)	*89 %*					*02/09/06 11:50*	*SW846 8260B*	*6021538*
Surr: 4-Bromofluorobenzene (25-185%)	*89 %*					*02/09/06 11:50*	*SW846 8260B*	*6021538*
Extractable Petroleum Hydrocarbons								

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-32 (MBE-10d21.5 - Soil) - cont. Sampled: 01/30/06 15:55								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	<0.972		mg/kg	0.972	1	02/06/06 21:33	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*72 %*					*02/06/06 21:33*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/04/06 22:47	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/04/06 22:47*	*CA LUFT*	*6020528*
Sample ID: NPB0294-33 (MBE-10d25.5 - Soil) Sampled: 01/30/06 16:00								
General Chemistry Parameters								
% Dry Solids	97.2		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/09/06 12:22	SW846 8260B	6021538
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/09/06 12:22	SW846 8260B	6021538
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/09/06 12:22	SW846 8260B	6021538
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:22	SW846 8260B	6021538
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:22	SW846 8260B	6021538
Toluene	<0.00200		mg/kg	0.00200	1	02/09/06 12:22	SW846 8260B	6021538
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/09/06 12:22	SW846 8260B	6021538
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:22	SW846 8260B	6021538
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/09/06 12:22	SW846 8260B	6021538
Ethanol	<0.200		mg/kg	0.200	1	02/09/06 12:22	SW846 8260B	6021538
Surr: 1,2-Dichloroethane-d4 (72-125%)	*92 %*					*02/09/06 12:22*	*SW846 8260B*	*6021538*
Surr: Dibromofluoromethane (73-124%)	*91 %*					*02/09/06 12:22*	*SW846 8260B*	*6021538*
Surr: Toluene-d8 (80-124%)	*89 %*					*02/09/06 12:22*	*SW846 8260B*	*6021538*
Surr: 4-Bromofluorobenzene (25-185%)	*91 %*					*02/09/06 12:22*	*SW846 8260B*	*6021538*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.994		mg/kg	0.994	1	02/06/06 22:24	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*84 %*					*02/06/06 22:24*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/04/06 23:20	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*105 %*					*02/04/06 23:20*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-34 (MBE-10d36 - Soil) Sampled: 01/30/06 16:10								
General Chemistry Parameters								
% Dry Solids	**88.4**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/09/06 12:53	SW846 8260B	6021538
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/09/06 12:53	SW846 8260B	6021538
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/09/06 12:53	SW846 8260B	6021538
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:53	SW846 8260B	6021538
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:53	SW846 8260B	6021538
Toluene	<0.00200		mg/kg	0.00200	1	02/09/06 12:53	SW846 8260B	6021538
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/09/06 12:53	SW846 8260B	6021538
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/09/06 12:53	SW846 8260B	6021538
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/09/06 12:53	SW846 8260B	6021538
Ethanol	<0.200		mg/kg	0.200	1	02/09/06 12:53	SW846 8260B	6021538
Surr: 1,2-Dichloroethane-d4 (72-125%)	*99 %*					*02/09/06 12:53*	*SW846 8260B*	*6021538*
Surr: Dibromofluoromethane (73-124%)	*98 %*					*02/09/06 12:53*	*SW846 8260B*	*6021538*
Surr: Toluene-d8 (80-124%)	*87 %*					*02/09/06 12:53*	*SW846 8260B*	*6021538*
Surr: 4-Bromofluorobenzene (25-185%)	*94 %*					*02/09/06 12:53*	*SW846 8260B*	*6021538*
Extractable Petroleum Hydrocarbons								
Diesel range organics	<0.994		mg/kg	0.994	1	02/06/06 22:41	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*84 %*					*02/06/06 22:41*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.01		mg/kg	1.01	1	02/04/06 23:54	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*107 %*					*02/04/06 23:54*	*CA LUFT*	*6020528*
Sample ID: NPB0294-35 (MBE-10d39 - Soil) Sampled: 01/30/06 16:15								
General Chemistry Parameters								
% Dry Solids	**95.7**		%	0.500	1	02/06/06 12:14	SW-846	6020533
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	<0.00200		mg/kg	0.00200	1	02/05/06 02:32	SW846 8260B	6020544
Tertiary Butyl Alcohol	<0.050		mg/kg	0.050	1	02/05/06 02:32	SW846 8260B	6020544
Ethylbenzene	<0.00200		mg/kg	0.00200	1	02/05/06 02:32	SW846 8260B	6020544
Methyl tert-Butyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:32	SW846 8260B	6020544
Diisopropyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:32	SW846 8260B	6020544
Toluene	<0.00200		mg/kg	0.00200	1	02/05/06 02:32	SW846 8260B	6020544
Ethyl tert-Butyl Ether	<0.005		mg/kg	0.005	1	02/05/06 02:32	SW846 8260B	6020544
Tert-Amyl Methyl Ether	<0.002		mg/kg	0.002	1	02/05/06 02:32	SW846 8260B	6020544
Xylenes, total	<0.00500		mg/kg	0.00500	1	02/05/06 02:32	SW846 8260B	6020544
Ethanol	<0.200		mg/kg	0.200	1	02/05/06 02:32	SW846 8260B	6020544
Surr: 1,2-Dichloroethane-d4 (72-125%)	*82 %*					*02/05/06 02:32*	*SW846 8260B*	*6020544*
Surr: Dibromofluoromethane (73-124%)	*94 %*					*02/05/06 02:32*	*SW846 8260B*	*6020544*
Surr: Toluene-d8 (80-124%)	*92 %*					*02/05/06 02:32*	*SW846 8260B*	*6020544*
Surr: 4-Bromofluorobenzene (25-185%)	*96 %*					*02/05/06 02:32*	*SW846 8260B*	*6020544*
Extractable Petroleum Hydrocarbons								

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPB0294-35 (MBE-10d39 - Soil) - cont. Sampled: 01/30/06 16:15								
Extractable Petroleum Hydrocarbons - cont.								
Diesel range organics	**0.979**		mg/kg	0.971	1	02/06/06 22:58	CA LUFT	6020459
Surr: o-Terphenyl (56-143%)	*56 %*					*02/06/06 22:58*	*CA LUFT*	*6020459*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12)	<1.00		mg/kg	1.00	1	02/05/06 00:27	CA LUFT	6020528
Surr: a,a,a-Trifluorotoluene (56-145%)	*106 %*					*02/05/06 00:27*	*CA LUFT*	*6020528*

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
CA LUFT	6020458	NPB0294-01	51.49	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-02	50.16	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-03	51.07	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-04	52.12	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-05	50.36	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-06	50.47	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-07	51.79	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-08	50.99	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-09	51.52	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-10	52.86	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-11	50.31	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-12	50.24	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-13	51.27	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-14	50.89	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-15	52.73	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-16	50.74	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-17	50.66	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-18	51.03	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-19	50.57	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020458	NPB0294-20	51.93	1.00	02/02/06 19:15	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-21	50.63	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-22	50.67	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-23	50.99	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-24	51.59	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-25	50.46	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-26	50.68	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-27	52.03	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-28	51.45	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-29	51.55	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-30	50.02	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-31	50.82	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-32	51.46	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-33	50.30	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-34	50.32	1.00	02/02/06 20:20	JFP	EPA 3550B
CA LUFT	6020459	NPB0294-35	51.50	1.00	02/02/06 20:20	JFP	EPA 3550B
Purgeable Petroleum Hydrocarbons							
CA LUFT	6020376	NPB0294-01	4.99	5.00	02/03/06 09:40	SNN	EPA 5035A (GC)
CA LUFT	6020376	NPB0294-02	5.01	5.00	02/03/06 09:40	SNN	EPA 5035A (GC)
CA LUFT	6020376	NPB0294-03	5.05	5.00	02/03/06 09:40	SNN	EPA 5035A (GC)
CA LUFT	6020376	NPB0294-04	5.05	5.00	02/03/06 10:43	SNN	EPA 5035A (GC)
CA LUFT	6020376	NPB0294-05	5.03	5.00	02/03/06 10:43	SNN	EPA 5035A (GC)
CA LUFT	6020376	NPB0294-06	5.05	5.00	02/03/06 10:43	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-07	5.02	5.00	02/03/06 10:43	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-08	4.99	5.00	02/03/06 11:11	SNN	EPA 5035A (GC)

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Client Miller Brooks Env. (H. Beach) / SHELL (13596)
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attn Darlene Kelley

Work Order: NPB0294
Project Name: 9069 Grapevine, Lebec, CA
Project Number: 98995516
Received: 02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
CA LUFT	6014850	NPB0294-09	5.03	5.00	02/03/06 11:11	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-10	5.03	5.00	02/03/06 11:11	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-11	5.05	5.00	02/03/06 11:11	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-12	4.99	5.00	02/03/06 11:36	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-13	4.95	5.00	02/03/06 11:36	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-14	4.99	5.00	02/03/06 11:36	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-15	4.99	5.00	02/03/06 11:36	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-16	4.95	5.00	02/03/06 12:04	SNN	EPA 5035A (GC)
CA LUFT	6014850	NPB0294-17	5.00	5.00	02/03/06 12:04	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-18	5.01	5.00	02/03/06 14:12	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-19	5.05	5.00	02/03/06 14:18	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-20	4.95	5.00	02/03/06 14:18	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-21	4.99	5.00	02/03/06 14:18	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-22	5.02	5.00	02/03/06 14:18	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-23	5.03	5.00	02/03/06 15:30	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-24	5.00	5.00	02/03/06 15:30	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-25	4.98	5.00	02/03/06 15:30	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-26	5.02	5.00	02/03/06 15:30	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-27	5.04	5.00	02/03/06 16:00	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-28	4.97	5.00	02/03/06 16:00	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-29	5.04	5.00	02/03/06 16:00	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-30	5.06	5.00	02/03/06 16:00	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-31	5.03	5.00	02/03/06 16:29	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-32	4.95	5.00	02/03/06 16:29	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-33	4.95	5.00	02/03/06 16:29	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-34	4.95	5.00	02/03/06 16:29	SNN	EPA 5035A (GC)
CA LUFT	6020528	NPB0294-35	4.99	5.00	02/03/06 16:55	SNN	EPA 5035A (GC)
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	6020543	NPB0294-01	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-02	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-03	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-04	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-05	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-06	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-07	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-08	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-09	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-10	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-11	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-12	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-13	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-14	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-15	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-16	5.00	5.00	02/03/06 12:04	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-17	5.00	5.00	02/03/06 12:04	NKN	EPA 5035

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 8260B	6020544	NPB0294-18	5.00	5.00	02/03/06 14:12	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-19	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-20	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-21	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-22	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-23	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-24	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-25	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-26	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-27	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-28	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-29	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-30	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-31	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-32	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-33	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-34	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-35	5.00	5.00	02/03/06 16:55	NKN	EPA 5035
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	6020543	NPB0294-01	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-01	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-02	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-02	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-03	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-03	5.00	5.00	02/03/06 09:40	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-04	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-04	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-05	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-05	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-06	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-06	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-07	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-07	5.00	5.00	02/03/06 10:43	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-08	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-08	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-09	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-09	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-10	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-10	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-11	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-11	5.00	5.00	02/03/06 11:11	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-12	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-12	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-13	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-13	5.00	5.00	02/03/06 11:36	NKN	EPA 5035

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Miller Brooks Env. (H. Beach) / SHELL (13596)
2124 Main Street, Suite 200
Huntington Beach, CA 92648
Attn Darlene Kelley

Work Order: NPB0294
Project Name: 9069 Grapevine, Lebec, CA
Project Number: 98995516
Received: 02/02/06 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 8260B	6020543	NPB0294-14	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-14	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-15	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-15	5.00	5.00	02/03/06 11:36	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-16	5.00	5.00	02/03/06 12:04	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-16	5.00	5.00	02/03/06 12:04	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-17	5.00	5.00	02/03/06 12:04	NKN	EPA 5035
SW846 8260B	6020543	NPB0294-17	5.00	5.00	02/03/06 12:04	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-18	5.00	5.00	02/03/06 14:12	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-18	5.00	5.00	02/03/06 14:12	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-19	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-19	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-20	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-20	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-21	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-21	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-22	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-22	5.00	5.00	02/03/06 14:18	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-23	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-23	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-24	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-24	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-25	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-25	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-26	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-26	5.00	5.00	02/03/06 15:30	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-27	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-27	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-28	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-28	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-29	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-29	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-30	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-30	5.00	5.00	02/03/06 16:00	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-31	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-31	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-32	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-32	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-33	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-33	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-34	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6021538	NPB0294-34	5.00	5.00	02/03/06 16:29	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-35	5.00	5.00	02/03/06 16:55	NKN	EPA 5035
SW846 8260B	6020544	NPB0294-35	5.00	5.00	02/03/06 16:55	NKN	EPA 5035

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
6020543-BLK1						
Benzene	<0.000500		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Tertiary Butyl Alcohol	<0.018		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Ethylbenzene	<0.000500		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Methyl tert-Butyl Ether	<0.0009		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Diisopropyl Ether	<0.0006		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Toluene	<0.000970		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Ethyl tert-Butyl Ether	<0.0005		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Tert-Amyl Methyl Ether	<0.0007		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Xylenes, total	<0.00148		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Ethanol	<0.151		mg/kg	6020543	6020543-BLK1	02/03/06 15:52
Surrogate: 1,2-Dichloroethane-d4	82%			6020543	6020543-BLK1	02/03/06 15:52
Surrogate: Dibromofluoromethane	92%			6020543	6020543-BLK1	02/03/06 15:52
Surrogate: Toluene-d8	94%			6020543	6020543-BLK1	02/03/06 15:52
Surrogate: 4-Bromofluorobenzene	98%			6020543	6020543-BLK1	02/03/06 15:52
6020544-BLK1						
Benzene	<0.000500		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Tertiary Butyl Alcohol	<0.018		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Ethylbenzene	<0.000500		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Methyl tert-Butyl Ether	<0.0009		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Diisopropyl Ether	<0.0006		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Toluene	<0.000970		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Ethyl tert-Butyl Ether	<0.0005		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Tert-Amyl Methyl Ether	<0.0007		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Xylenes, total	<0.00148		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Ethanol	<0.151		mg/kg	6020544	6020544-BLK1	02/04/06 17:33
Surrogate: 1,2-Dichloroethane-d4	77%			6020544	6020544-BLK1	02/04/06 17:33
Surrogate: Dibromofluoromethane	93%			6020544	6020544-BLK1	02/04/06 17:33
Surrogate: Toluene-d8	91%			6020544	6020544-BLK1	02/04/06 17:33
Surrogate: 4-Bromofluorobenzene	94%			6020544	6020544-BLK1	02/04/06 17:33
6021538-BLK1						
Benzene	<0.000500		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Tertiary Butyl Alcohol	<0.018		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Ethylbenzene	<0.000500		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Methyl tert-Butyl Ether	<0.0009		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Diisopropyl Ether	<0.0006		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Toluene	<0.000970		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Ethyl tert-Butyl Ether	<0.0005		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Tert-Amyl Methyl Ether	<0.0007		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Xylenes, total	<0.00148		mg/kg	6021538	6021538-BLK1	02/09/06 10:48
Ethanol	<0.151		mg/kg	6021538	6021538-BLK1	02/09/06 10:48

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
6021538-BLK1						
Surrogate: 1,2-Dichloroethane-d4	90%			6021538	6021538-BLK1	02/09/06 10:48
Surrogate: Dibromofluoromethane	90%			6021538	6021538-BLK1	02/09/06 10:48
Surrogate: Toluene-d8	89%			6021538	6021538-BLK1	02/09/06 10:48
Surrogate: 4-Bromofluorobenzene	89%			6021538	6021538-BLK1	02/09/06 10:48
Extractable Petroleum Hydrocarbons						
6020458-BLK1						
Diesel range organics	<0.680		mg/kg	6020458	6020458-BLK1	02/05/06 02:58
Surrogate: o-Terphenyl	61%			6020458	6020458-BLK1	02/05/06 02:58
6020459-BLK1						
Diesel range organics	<0.680		mg/kg	6020459	6020459-BLK1	02/06/06 16:43
Surrogate: o-Terphenyl	107%			6020459	6020459-BLK1	02/06/06 16:43
Purgeable Petroleum Hydrocarbons						
6014850-BLK1						
GRO (C4-C12)	<0.0775		mg/kg	6014850	6014850-BLK1	02/03/06 11:56
Surrogate: a,a,a-Trifluorotoluene	117%			6014850	6014850-BLK1	02/03/06 11:56
6020376-BLK1						
GRO (C4-C12)	<0.0775		mg/kg	6020376	6020376-BLK1	02/03/06 15:39
Surrogate: a,a,a-Trifluorotoluene	97%			6020376	6020376-BLK1	02/03/06 15:39
6020528-BLK1						
GRO (C4-C12)	<0.0775		mg/kg	6020528	6020528-BLK1	02/04/06 13:23
Surrogate: a,a,a-Trifluorotoluene	106%			6020528	6020528-BLK1	02/04/06 13:23

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
6020543-BS1								
Benzene	50.0	53.9		ug/L	108%	76 - 123	6020543	02/03/06 14:52
Tertiary Butyl Alcohol	500	367		ug/L	73%	38 - 150	6020543	02/03/06 14:52
Ethylbenzene	50.0	53.5		ug/L	107%	77 - 125	6020543	02/03/06 14:52
Methyl tert-Butyl Ether	50.0	47.0		ug/L	94%	63 - 140	6020543	02/03/06 14:52
Diisopropyl Ether	50.0	45.3		ug/L	91%	68 - 133	6020543	02/03/06 14:52
Toluene	50.0	49.8		ug/L	100%	79 - 122	6020543	02/03/06 14:52
Ethyl tert-Butyl Ether	50.0	47.1		ug/L	94%	64 - 138	6020543	02/03/06 14:52
Tert-Amyl Methyl Ether	50.0	50.6		ug/L	101%	59 - 142	6020543	02/03/06 14:52
Xylenes, total	150	161		ug/L	107%	71 - 129	6020543	02/03/06 14:52
Ethanol	5000	4830		ug/L	97%	48 - 159	6020543	02/03/06 14:52
Surrogate: 1,2-Dichloroethane-d4	50.0	42.5			85%	72 - 125	6020543	02/03/06 14:52
Surrogate: Dibromofluoromethane	50.0	47.6			95%	73 - 124	6020543	02/03/06 14:52
Surrogate: Toluene-d8	50.0	47.5			95%	80 - 124	6020543	02/03/06 14:52
Surrogate: 4-Bromofluorobenzene	50.0	47.4			95%	25 - 185	6020543	02/03/06 14:52
6020544-BS1								
Benzene	50.0	54.6		ug/L	109%	76 - 123	6020544	02/04/06 16:33
Tertiary Butyl Alcohol	500	434		ug/L	87%	38 - 150	6020544	02/04/06 16:33
Ethylbenzene	50.0	48.5		ug/L	97%	77 - 125	6020544	02/04/06 16:33
Methyl tert-Butyl Ether	50.0	52.0		ug/L	104%	63 - 140	6020544	02/04/06 16:33
Diisopropyl Ether	50.0	46.6		ug/L	93%	68 - 133	6020544	02/04/06 16:33
Toluene	50.0	46.9		ug/L	94%	79 - 122	6020544	02/04/06 16:33
Ethyl tert-Butyl Ether	50.0	49.6		ug/L	99%	64 - 138	6020544	02/04/06 16:33
Tert-Amyl Methyl Ether	50.0	58.5		ug/L	117%	59 - 142	6020544	02/04/06 16:33
Xylenes, total	150	145		ug/L	97%	71 - 129	6020544	02/04/06 16:33
Ethanol	5000	4720		ug/L	94%	48 - 159	6020544	02/04/06 16:33
Surrogate: 1,2-Dichloroethane-d4	50.0	42.4			85%	72 - 125	6020544	02/04/06 16:33
Surrogate: Dibromofluoromethane	50.0	48.6			97%	73 - 124	6020544	02/04/06 16:33
Surrogate: Toluene-d8	50.0	46.0			92%	80 - 124	6020544	02/04/06 16:33
Surrogate: 4-Bromofluorobenzene	50.0	46.4			93%	25 - 185	6020544	02/04/06 16:33
6021538-BS1								
Benzene	50.0	49.9		ug/L	100%	76 - 123	6021538	02/09/06 09:27
Tertiary Butyl Alcohol	500	496		ug/L	99%	38 - 150	6021538	02/09/06 09:27
Ethylbenzene	50.0	50.1		ug/L	100%	77 - 125	6021538	02/09/06 09:27
Methyl tert-Butyl Ether	50.0	49.5		ug/L	99%	63 - 140	6021538	02/09/06 09:27
Diisopropyl Ether	50.0	49.0		ug/L	98%	68 - 133	6021538	02/09/06 09:27
Toluene	50.0	47.4		ug/L	95%	79 - 122	6021538	02/09/06 09:27
Ethyl tert-Butyl Ether	50.0	47.7		ug/L	95%	64 - 138	6021538	02/09/06 09:27
Tert-Amyl Methyl Ether	50.0	49.4		ug/L	99%	59 - 142	6021538	02/09/06 09:27
Xylenes, total	150	148		ug/L	99%	71 - 129	6021538	02/09/06 09:27
Ethanol	5000	6060		ug/L	121%	48 - 159	6021538	02/09/06 09:27

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
6021538-BS1								
Surrogate: 1,2-Dichloroethane-d4	50.0	44.8			90%	72 - 125	6021538	02/09/06 09:27
Surrogate: Dibromofluoromethane	50.0	44.9			90%	73 - 124	6021538	02/09/06 09:27
Surrogate: Toluene-d8	50.0	44.6			89%	80 - 124	6021538	02/09/06 09:27
Surrogate: 4-Bromofluorobenzene	50.0	44.1			88%	25 - 185	6021538	02/09/06 09:27
Extractable Petroleum Hydrocarbons								
6020458-BS1								
Diesel range organics	20.0	17.2		mg/kg	86%	54 - 126	6020458	02/05/06 03:15
Surrogate: o-Terphenyl	0.400	0.362			90%	56 - 143	6020458	02/05/06 03:15
6020459-BS1								
Diesel range organics	20.0	21.5		mg/kg	108%	54 - 126	6020459	02/06/06 17:00
Surrogate: o-Terphenyl	0.400	0.419			105%	56 - 143	6020459	02/06/06 17:00
Purgeable Petroleum Hydrocarbons								
6014850-BS1								
GRO (C4-C12)	10000	9870		ug/L	99%	67 - 130	6014850	02/04/06 01:17
Surrogate: a,a,a-Trifluorotoluene	30.0	40.1			134%	56 - 145	6014850	02/04/06 01:17
6020376-BS2								
GRO (C4-C12)	10000	10700		ug/L	107%	67 - 130	6020376	02/03/06 22:55
Surrogate: a,a,a-Trifluorotoluene	30.0	65.1	Z2		217%	56 - 145	6020376	02/03/06 22:55
6020528-BS1								
GRO (C4-C12)	10000	9570		ug/L	96%	67 - 130	6020528	02/05/06 02:08
Surrogate: a,a,a-Trifluorotoluene	30.0	40.2			134%	56 - 145	6020528	02/05/06 02:08

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
6020543-MS1										
Benzene	ND	51.1		ug/L	50.0	102%	48 - 138	6020543	NPB0294-17	02/04/06 00:51
Tertiary Butyl Alcohol	ND	445		ug/L	500	89%	16 - 179	6020543	NPB0294-17	02/04/06 00:51
Ethylbenzene	ND	47.2		ug/L	50.0	94%	19 - 146	6020543	NPB0294-17	02/04/06 00:51
Methyl tert-Butyl Ether	ND	47.9		ug/L	50.0	96%	47 - 148	6020543	NPB0294-17	02/04/06 00:51
Diisopropyl Ether	ND	45.1		ug/L	50.0	90%	50 - 143	6020543	NPB0294-17	02/04/06 00:51
Toluene	ND	44.7		ug/L	50.0	89%	40 - 143	6020543	NPB0294-17	02/04/06 00:51
Ethyl tert-Butyl Ether	ND	46.7		ug/L	50.0	93%	48 - 145	6020543	NPB0294-17	02/04/06 00:51
Tert-Amyl Methyl Ether	ND	53.6		ug/L	50.0	107%	43 - 150	6020543	NPB0294-17	02/04/06 00:51
Xylenes, total	ND	140		ug/L	150	93%	36 - 144	6020543	NPB0294-17	02/04/06 00:51
Ethanol	ND	4120		ug/L	5000	82%	25 - 177	6020543	NPB0294-17	02/04/06 00:51
Surrogate: 1,2-Dichloroethane-d4		43.8		ug/L	50.0	88%	72 - 125	6020543	NPB0294-17	02/04/06 00:51
Surrogate: Dibromofluoromethane		49.4		ug/L	50.0	99%	73 - 124	6020543	NPB0294-17	02/04/06 00:51
Surrogate: Toluene-d8		47.1		ug/L	50.0	94%	80 - 124	6020543	NPB0294-17	02/04/06 00:51
Surrogate: 4-Bromofluorobenzene		47.3		ug/L	50.0	95%	25 - 185	6020543	NPB0294-17	02/04/06 00:51
6020544-MS1										
Benzene	0.840	43.8		ug/L	50.0	86%	48 - 138	6020544	NPB0294-35	02/05/06 03:02
Tertiary Butyl Alcohol	ND	459		ug/L	500	92%	16 - 179	6020544	NPB0294-35	02/05/06 03:02
Ethylbenzene	ND	34.3		ug/L	50.0	69%	19 - 146	6020544	NPB0294-35	02/05/06 03:02
Methyl tert-Butyl Ether	ND	46.1		ug/L	50.0	92%	47 - 148	6020544	NPB0294-35	02/05/06 03:02
Diisopropyl Ether	ND	40.8		ug/L	50.0	82%	50 - 143	6020544	NPB0294-35	02/05/06 03:02
Toluene	ND	34.8		ug/L	50.0	70%	40 - 143	6020544	NPB0294-35	02/05/06 03:02
Ethyl tert-Butyl Ether	ND	43.2		ug/L	50.0	86%	48 - 145	6020544	NPB0294-35	02/05/06 03:02
Tert-Amyl Methyl Ether	ND	51.1		ug/L	50.0	102%	43 - 150	6020544	NPB0294-35	02/05/06 03:02
Xylenes, total	ND	102		ug/L	150	68%	36 - 144	6020544	NPB0294-35	02/05/06 03:02
Ethanol	ND	4240		ug/L	5000	85%	25 - 177	6020544	NPB0294-35	02/05/06 03:02
Surrogate: 1,2-Dichloroethane-d4		43.3		ug/L	50.0	87%	72 - 125	6020544	NPB0294-35	02/05/06 03:02
Surrogate: Dibromofluoromethane		49.7		ug/L	50.0	99%	73 - 124	6020544	NPB0294-35	02/05/06 03:02
Surrogate: Toluene-d8		45.8		ug/L	50.0	92%	80 - 124	6020544	NPB0294-35	02/05/06 03:02
Surrogate: 4-Bromofluorobenzene		46.4		ug/L	50.0	93%	25 - 185	6020544	NPB0294-35	02/05/06 03:02
6021538-MS1										
Benzene	ND	49.1		ug/L	50.0	98%	48 - 138	6021538	NPB0294-31	02/09/06 14:27
Tertiary Butyl Alcohol	ND	603		ug/L	500	121%	16 - 179	6021538	NPB0294-31	02/09/06 14:27
Ethylbenzene	ND	52.0		ug/L	50.0	104%	19 - 146	6021538	NPB0294-31	02/09/06 14:27
Methyl tert-Butyl Ether	ND	47.3		ug/L	50.0	95%	47 - 148	6021538	NPB0294-31	02/09/06 14:27
Diisopropyl Ether	ND	50.2		ug/L	50.0	100%	50 - 143	6021538	NPB0294-31	02/09/06 14:27
Toluene	ND	47.5		ug/L	50.0	95%	40 - 143	6021538	NPB0294-31	02/09/06 14:27

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
6021538-MS1										
Ethyl tert-Butyl Ether	ND	47.8		ug/L	50.0	96%	48 - 145	6021538	NPB0294-31	02/09/06 14:27
Tert-Amyl Methyl Ether	ND	39.7		ug/L	50.0	79%	43 - 150	6021538	NPB0294-31	02/09/06 14:27
Xylenes, total	ND	156		ug/L	150	104%	36 - 144	6021538	NPB0294-31	02/09/06 14:27
Ethanol	ND	17600	M7	ug/L	5000	352%	25 - 177	6021538	NPB0294-31	02/09/06 14:27
Surrogate: 1,2-Dichloroethane-d4		43.9		ug/L	50.0	88%	72 - 125	6021538	NPB0294-31	02/09/06 14:27
Surrogate: Dibromofluoromethane		43.2		ug/L	50.0	86%	73 - 124	6021538	NPB0294-31	02/09/06 14:27
Surrogate: Toluene-d8		44.3		ug/L	50.0	89%	80 - 124	6021538	NPB0294-31	02/09/06 14:27
Surrogate: 4-Bromofluorobenzene		43.7		ug/L	50.0	87%	25 - 185	6021538	NPB0294-31	02/09/06 14:27
Extractable Petroleum Hydrocarbons										
6020458-MS1										
Diesel range organics	0.717	16.5		mg/kg	19.4	81%	28 - 143	6020458	NPB0294-01	02/05/06 03:31
Surrogate: o-Terphenyl		0.318		mg/kg	0.388	82%	56 - 143	6020458	NPB0294-01	02/05/06 03:31
6020459-MS1										
Diesel range organics	ND	16.6		mg/kg	19.3	86%	28 - 143	6020459	NPB0294-23	02/06/06 17:17
Surrogate: o-Terphenyl		0.339		mg/kg	0.386	88%	56 - 143	6020459	NPB0294-23	02/06/06 17:17
Purgeable Petroleum Hydrocarbons										
6014850-MS1										
GRO (C4-C12)	49.3	8050		ug/L	10000	80%	25 - 112	6014850	NPB0294-17	02/04/06 00:10
Surrogate: a,a,a-Trifluorotoluene		58.6	ZX	ug/L	30.0	195%	56 - 145	6014850	NPB0294-17	02/04/06 00:10
6020528-MS1										
GRO (C4-C12)	46.0	5560		ug/L	10000	55%	25 - 112	6020528	NPB0294-35	02/05/06 01:01
Surrogate: a,a,a-Trifluorotoluene		54.5	ZX	ug/L	30.0	182%	56 - 145	6020528	NPB0294-35	02/05/06 01:01

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
6020543-MSD1												
Benzene	ND	49.3		ug/L	50.0	99%	48 - 138	4	34	6020543	NPB0294-17	02/04/06 01:21
Tertiary Butyl Alcohol	ND	373		ug/L	500	75%	16 - 179	18	45	6020543	NPB0294-17	02/04/06 01:21
Ethylbenzene	ND	44.9		ug/L	50.0	90%	19 - 146	5	44	6020543	NPB0294-17	02/04/06 01:21
Methyl tert-Butyl Ether	ND	46.6		ug/L	50.0	93%	47 - 148	3	39	6020543	NPB0294-17	02/04/06 01:21
Diisopropyl Ether	ND	42.7		ug/L	50.0	85%	50 - 143	5	41	6020543	NPB0294-17	02/04/06 01:21
Toluene	ND	43.0		ug/L	50.0	86%	40 - 143	4	41	6020543	NPB0294-17	02/04/06 01:21
Ethyl tert-Butyl Ether	ND	44.7		ug/L	50.0	89%	48 - 145	4	37	6020543	NPB0294-17	02/04/06 01:21
Tert-Amyl Methyl Ether	ND	50.8		ug/L	50.0	102%	43 - 150	5	39	6020543	NPB0294-17	02/04/06 01:21
Xylenes, total	ND	133		ug/L	150	89%	36 - 144	5	35	6020543	NPB0294-17	02/04/06 01:21
Ethanol	ND	4090		ug/L	5000	82%	25 - 177	0.7	59	6020543	NPB0294-17	02/04/06 01:21
Surrogate: 1,2-Dichloroethane-d4		43.4		ug/L	50.0	87%	72 - 125			6020543	NPB0294-17	02/04/06 01:21
Surrogate: Dibromofluoromethane		48.8		ug/L	50.0	98%	73 - 124			6020543	NPB0294-17	02/04/06 01:21
Surrogate: Toluene-d8		46.7		ug/L	50.0	93%	80 - 124			6020543	NPB0294-17	02/04/06 01:21
Surrogate: 4-Bromofluorobenzene		47.6		ug/L	50.0	95%	25 - 185			6020543	NPB0294-17	02/04/06 01:21
6020544-MSD1												
Benzene	0.840	47.3		ug/L	50.0	93%	48 - 138	8	34	6020544	NPB0294-35	02/05/06 03:32
Tertiary Butyl Alcohol	ND	521		ug/L	500	104%	16 - 179	13	45	6020544	NPB0294-35	02/05/06 03:32
Ethylbenzene	ND	32.6		ug/L	50.0	65%	19 - 146	5	44	6020544	NPB0294-35	02/05/06 03:32
Methyl tert-Butyl Ether	ND	53.1		ug/L	50.0	106%	47 - 148	14	39	6020544	NPB0294-35	02/05/06 03:32
Diisopropyl Ether	ND	47.8		ug/L	50.0	96%	50 - 143	16	41	6020544	NPB0294-35	02/05/06 03:32
Toluene	ND	35.1		ug/L	50.0	70%	40 - 143	0.9	41	6020544	NPB0294-35	02/05/06 03:32
Ethyl tert-Butyl Ether	ND	50.1		ug/L	50.0	100%	48 - 145	15	37	6020544	NPB0294-35	02/05/06 03:32
Tert-Amyl Methyl Ether	ND	58.9		ug/L	50.0	118%	43 - 150	14	39	6020544	NPB0294-35	02/05/06 03:32
Xylenes, total	ND	97.8		ug/L	150	65%	36 - 144	4	35	6020544	NPB0294-35	02/05/06 03:32
Ethanol	ND	4760		ug/L	5000	95%	25 - 177	12	59	6020544	NPB0294-35	02/05/06 03:32
Surrogate: 1,2-Dichloroethane-d4		44.4		ug/L	50.0	89%	72 - 125			6020544	NPB0294-35	02/05/06 03:32
Surrogate: Dibromofluoromethane		50.7		ug/L	50.0	101%	73 - 124			6020544	NPB0294-35	02/05/06 03:32
Surrogate: Toluene-d8		45.5		ug/L	50.0	91%	80 - 124			6020544	NPB0294-35	02/05/06 03:32
Surrogate: 4-Bromofluorobenzene		46.7		ug/L	50.0	93%	25 - 185			6020544	NPB0294-35	02/05/06 03:32
6021538-MSD1												
Benzene	ND	49.3		ug/L	50.0	99%	48 - 138	0.4	34	6021538	NPB0294-31	02/09/06 14:59
Tertiary Butyl Alcohol	ND	582		ug/L	500	116%	16 - 179	4	45	6021538	NPB0294-31	02/09/06 14:59
Ethylbenzene	ND	49.8		ug/L	50.0	100%	19 - 146	4	44	6021538	NPB0294-31	02/09/06 14:59
Methyl tert-Butyl Ether	ND	52.7		ug/L	50.0	105%	47 - 148	11	39	6021538	NPB0294-31	02/09/06 14:59
Diisopropyl Ether	ND	54.0		ug/L	50.0	108%	50 - 143	7	41	6021538	NPB0294-31	02/09/06 14:59
Toluene	ND	46.2		ug/L	50.0	92%	40 - 143	3	41	6021538	NPB0294-31	02/09/06 14:59
Ethyl tert-Butyl Ether	ND	49.6		ug/L	50.0	99%	48 - 145	4	37	6021538	NPB0294-31	02/09/06 14:59
Tert-Amyl Methyl Ether	ND	41.5		ug/L	50.0	83%	43 - 150	4	39	6021538	NPB0294-31	02/09/06 14:59
Xylenes, total	ND	149		ug/L	150	99%	36 - 144	5	35	6021538	NPB0294-31	02/09/06 14:59
Ethanol	ND	13400	M7	ug/L	5000	268%	25 - 177	27	59	6021538	NPB0294-31	02/09/06 14:59

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
6021538-MSD1												
Surrogate: 1,2-Dichloroethane-d4		45.3		ug/L	50.0	91%	72 - 125			6021538	NPB0294-31	02/09/06 14:59
Surrogate: Dibromofluoromethane		43.8		ug/L	50.0	88%	73 - 124			6021538	NPB0294-31	02/09/06 14:59
Surrogate: Toluene-d8		43.8		ug/L	50.0	88%	80 - 124			6021538	NPB0294-31	02/09/06 14:59
Surrogate: 4-Bromofluorobenzene		43.3		ug/L	50.0	87%	25 - 185			6021538	NPB0294-31	02/09/06 14:59
Extractable Petroleum Hydrocarbons												
6020458-MSD1												
Diesel range organics	0.717	19.1		mg/kg	20.0	92%	28 - 143	15	51	6020458	NPB0294-01	02/05/06 03:48
Surrogate: o-Terphenyl		0.390		mg/kg	0.399	98%	56 - 143			6020458	NPB0294-01	02/05/06 03:48
6020459-MSD1												
Diesel range organics	ND	17.3		mg/kg	19.9	87%	28 - 143	4	51	6020459	NPB0294-23	02/06/06 18:08
Surrogate: o-Terphenyl		0.329		mg/kg	0.397	83%	56 - 143			6020459	NPB0294-23	02/06/06 18:08
Purgeable Petroleum Hydrocarbons												
6014850-MSD1												
GRO (C4-C12)	49.3	8060		ug/L	10000	80%	25 - 112	0.1	33	6014850	NPB0294-17	02/04/06 00:43
Surrogate: a,a,a-Trifluorotoluene		59.5	ZX	ug/L	30.0	198%	56 - 145			6014850	NPB0294-17	02/04/06 00:43
6020528-MSD1												
GRO (C4-C12)	46.0	6460		ug/L	10000	64%	25 - 112	15	33	6020528	NPB0294-35	02/05/06 01:34
Surrogate: a,a,a-Trifluorotoluene		55.5	ZX	ug/L	30.0	185%	56 - 145			6020528	NPB0294-35	02/05/06 01:34

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	California
CA LUFT	Soil	N/A	X	X
NA	Soil			
SW846 8260B	Soil	N/A	X	X
SW-846	Soil			

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Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte
SW-846	Soil	% Dry Solids
SW846 8260B	Soil	Diisopropyl Ether

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Miller Brooks Env. (H. Beach) / SHELL (13596)	Work Order:	NPB0294
	2124 Main Street, Suite 200	Project Name:	9069 Grapevine, Lebec, CA
	Huntington Beach, CA 92648	Project Number:	98995516
Attn	Darlene Kelley	Received:	02/02/06 07:55

DATA QUALIFIERS AND DEFINITIONS

M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

METHOD MODIFICATION NOTES

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

NPB0294

COOLER RECEIPT FORM BC#

Client Name : Miller Brooks Environmental

Cooler Received/Opened On: 2/02/06 Accessioned By: James D. Jacobs

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... (YES)...NO....NA
   a. If yes, how many and where: 1 Front
3. Were custody seals on containers?..... (NO)..YES...NA
4. Were the seals intact, signed, and dated correctly?..... (YES)....NO...NA
5. Were custody papers inside cooler?..... (YES)....NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... (YES)....NO...NA
7. Did you sign the custody papers in the appropriate place?..... (YES)...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other (None)
9. Cooling process: Ice Ice-pack (Ice (direct contact)) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... (YES)..NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... (YES)...NO...NA
12. Did all container labels and tags agree with custody papers?..... (YES)...NO...NA
13. Were correct containers used for the analysis requested?..... (YES)...NO...NA
14. a. Were VOA vials received?..... YES...(NO)..NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES..(NA)
15. Was sufficient amount of sample sent in each container?..... (YES)..NO...NA
16. Were correct preservatives used?..... YES...NO..(NA)
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES..(NA)
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

    1540, 1551

    (Fed-Ex) UPS Velocity DHL Route Off-street Misc.
19. If a Non-Conformance exists, see attached or comments below:

BIS = Broken in shipment

SHELL Chain Of Custody Record

LAB: Del Mar

Lab Identification (if necessary):
Address: 17461 Derian Ave #100
City, State, Zip: Irvine, CA

Shell Project Manager to be invoiced:
☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON
Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):
SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/30/06
PAGE: 1 of 4

SAMPLING COMPANY: Miller Brooks Environmental
LOG CODE: MBEH
ADDRESS: 2124 Main St, Ste 200 Huntington Beach, CA 92648
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell
TELEPHONE: 7145005400
FAX: 7149602462
E-MAIL: jeffmaxwell@millerbrooks.com

SITE ADDRESS (Street and City): 9069 Grapevine Lebec
GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designate): Darlene Kelley
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.:
SAMPLER NAME(S) (Print): Philip Chen

LAB USE ONLY: NPB0294
02/09/06 17:00

TURNAROUND TIME (BUSINESS DAYS):
☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES:
CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Diesel, DHS Luft	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-_28		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE-6d 11.5	1/30/06	0945	Soil	1	X	X		X	X	X						NPB	02	94	-01						PID = 72000ppm
	MBE-6d 16.5		0955			X	X		X	X	X									-02						PID = 72000ppm
	MBE-6d 21.5		1000			X	X		X	X	X									-03						
	MBE-6d 26.5		1005			X	X		X	X	X									-04						PID = 530
	MBE-6d 31.5		1010			X	X		X	X	X									-05						
	MBE-6d 36.5		1015			X	X		X	X	X									-06						
	MBE-6d 40		1020			X	X		X	X	X									-07						
	MBE-5d 11.5		1105			X	X		X	X	X									-08						
	MBE-5d 16.5		1110			X	X		X	X	X									-09						
	MBE-5d 21.5		1115			X	X		X	X	X									-10						

TEMPERATURE ON RECEIPT C° 3°C

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Relinquished by: (Signature)	Received by: (Signature) TO Mathews III	Date: 02/01/06	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 255

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10/18/00 Revision

SHELL Chain Of Custody Record

LAB: Del Mar

Lab Identification (if necessary):
Address: 17461 Derian Ave #100
City, State, Zip: Irvine, CA

Shell Project Manager to be invoiced:
☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON
Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):
SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/30/06
PAGE: 2 of 4

SAMPLING COMPANY: Miller Brooks
LOG CODE: MBEH
SITE ADDRESS (Street and City): 9069 Grapevine Lebec
GLOBAL ID NO.:
ADDRESS: 2124 Main St Ste 200, Huntington Beach
EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley
PHONE NO.: 7145005400
E-MAIL: dkelley@millerbrooksenv.com
CONSULTANT PROJECT NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell
SAMPLER NAME(S) (Print): Philip Chen
LAB USE ONLY
TELEPHONE: 7145005400
FAX: 7149602462
E-MAIL: jeffmaxwell@millerbrooksenv.com

TURNAROUND TIME (BUSINESS DAYS):
☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B- _28		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE-5d26.5	1/30/06	1120	Soil	1	X	X		X	X	X					N	PB	02	94	-11						TEMPERATURE ON RECEIPT C° 3°C
	MBE-5d31.5		1125			X	X		X	X	X									-12						
	MBE-9d5		1116			X	X		X	X	X									-13						
	MBE-3d10.5		1220			X	X		X	X	X									-14						
	MBE-3d16.5		1225			X	X		X	X	X									-15						
	MBE-3d20.5		1230			X	X		X	X	X									-16						
	MBE-3d26		1235			X	X		X	X	X									-17						
	MBE-3d30.5		1243			X	X		X	X	X									-18						
	MBE-3d36.5		1245			X	X		X	X	X									-19						
	MBE-3d39	↓	1250	↓	↓	X	X		X	X	X									-20						

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/31/06	Time: 13:40
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Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 255

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10/18/00 Revision

LAB: Del Mar

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address: 17461 Derian Ave, #100

City, State, Zip: Irvine CA

Shell Project Manager to be Invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/30/06

PAGE: 3 of 4

SAMPLING COMPANY: Miller Brooks	LOG CODE: MBEH
SITE ADDRESS (Street and City): 9069 Grapevine Lebec	GLOBAL ID NO.:
ADDRESS: 2124 Main St, Ste 200, Huntington Beach	EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley
PHONE NO.: 7145005400	E-MAIL: dkelley@millerbrooksenv.com
CONSULTANT PROJECT NO.:	
PROJECT CONTACT (Hardcopy or PDF Report to): Jeff Maxwell	SAMPLER NAME(S) (Print): Philip Chen
LAB USE ONLY	
TELEPHONE: 7145005400	FAX: 7149602467
E-MAIL: Jeff.maxwell@millerbrooksenv.com	

TURNAROUND TIME (BUSINESS DAYS):
☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Range (8015)	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-_28)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note
	MBE-10d5	1/30/06	1251	Soil	1	X	X		X	X	X					N	PB	02	94	-21					
	MBE-9d11.5		1440			X	X		X	X	X									-22					
	MBE-9d16.5		1445			X	X		X	X	X									-23					
	MBE-9d20.5		1450			X	X		X	X	X									-24					
	MBE-9d25.5		1452			X	X		X	X	X									-25					
	MBE-9d30.5		1455			X	X		X	X	X									-26					
	MBE-9d36		1500			X	X		X	X	X									-27					
	MBE-9d39		1510			X	X		X	X	X									-28					
	MBE-10d11		1545																	-29					
	MBE-10d16		1550																	-30					

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 3°C

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Relinquished by: (Signature)	Received by: (Signature) Lino Reno Nashville	Date: 02/01/06	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 955

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10/16/00 Revision

OAO Graphics (714) 898-9700

LAB: Del Mar

SHELL Chain Of Custody Record

Lab Identification (if necessary):
Address: 17461 Derian Ave, #100
City, State, Zip: Irvine CA

Shell Project Manager to be invoiced:
☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ GMRT MIDSTREAM
Jeff Whitworth

INCIDENT NUMBER (S&E ONLY):
SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/30/06
PAGE: 4 of 4

SAMPLING COMPANY: Miller Brooks Environmental | LOG CODE: MBEH
ADDRESS: 2124 Main St Ste 200 Huntington Beach
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TELEPHONE: 7145005400 | FAX: 7149602462 | E-MAIL: Jeffmaxwell@millerbrooksenv.com

SITE ADDRESS (Street and City): 9069 Grapevine Lebec
GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designee): Darlene Kelley | PHONE NO.: 7145005400 | E-MAIL: dkelley@millerbrooksenv.com | CONSULTANT PROJECT NO.:
SAMPLER NAME(S) (Print): Philip Chen
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS
☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable / Diesel	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-_28)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MBE-11d5	1/30/06	1551	So.1	1	X	X		X	X	X					N	PB	02	94	-31						TEMPERATURE ON RECEIPT C° 3 C
	MBE-10d21.5		1555			X	X		X	X	X									-32						
	MBE-10d25.5		1600			X	X		X	X	X									-33						
	MBE-10d36		1610			X	X		X	X	X									-34						
	MBE-10d39		1615			X	X		X	X	X									-35						

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/31/06	Time: 13:40
Relinquished by: (Signature)	Received by: (Signature) Nashville	Date: 02/01/06	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/2/06	Time: 255

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

PREPARED FOR: MR. RAY JOHNSTON
TEXACO REFINING & MARKETING, INC.
10 UNIVERSAL CITY PLAZA
UNIVERSAL CITY, CALIFORNIA 91608
(818) 505-2139

ENVIRONMENTAL ASSESSMENT REPORT
PRODUCT PIPING AND USED-OIL TANK REMOVAL
TEXACO RETAIL FACILITY
9069 GRAPEVINE ROAD WEST
LEBEC, CALIFORNIA

NOVEMBER 11, 1991

PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
4101 ALKEN STREET, SUITE B-1
BAKERSFIELD, CALIFORNIA 93308
(805) 589-8601

WRITTEN BY:

REGISTERED GEOLOGIST
JONATHAN PARKER
No. 4728
STATE OF CALIFORNIA

JONATHAN D. PARKER
REGISTERED GEOLOGIST
NO. 4728

REVIEWED BY:

STEPHAN A. BORK
PROJECT GEOLOGIST

GROUNDWATER TECHNOLOGY, INC.

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INTRODUCTION

Texaco Refining & Marketing, Inc. retained Groundwater Technology, Inc. to witness removal of product dispensers, associated piping and a used-oil tank at their retail facility located at 9069 Grapevine Road in Lebec, California (Figure 1). This equipment is being removed to accommodate major renovation of the site. Soil samples were collected following equipment removal to determine the presence or absence of hydrocarbons in soil. In addition, two soil borings were completed at the request of Kern County Environmental Health Services. This report documents equipment removal, analysis results, and the drilling investigation.

BACKGROUND

The facility was first constructed in 1961 and dispensed fuel from four 4,000-gallon steel tanks. The steel tanks were replaced with larger double-walled fiberglass tanks in 1985 (Figure 2). The dispenser islands were also relocated and enlarged at that time. No data is presently available regarding soil sampling conducted during tank replacement.

In May, 1991, Groundwater Technology completed 11 soil borings (B1 through B11) as part of an initial assessment (Figure 2). The purpose of the assessment was to determine if hydrocarbons were present in soil at the site prior to major reconstruction activity. Gasoline hydrocarbons were detected in three of the borings drilled at that time (Table 1). Two of these borings were slant drilled under the northern ends of the islands (B4 and B9) and one was drilled at the location of the original steel tanks (B8). Concentrations of all analytes in samples submitted from the remaining borings were below detection limits.

In July, 1991, Groundwater Technology completed an additional 8 soil borings (B12 through B19) to further constrain the extent of hydrocarbon contamination (Figure 2). This investigation indicated that contamination is present primarily adjacent to the former location of the western dispenser (Figure 3 and 4, Table 2).

SITE CHARACTERISTICS

GEOGRAPHY

The site is located at the base of the San Emigdio Range at the southern end of the San Joaquin Valley. Topography in the region slopes gently to the north away from the steep slopes of the San Emigdios. A tributary of Grapevine Creek, which flows intermittently, is present 300 feet southeast of the site. The California Aqueduct is present approximately 2 miles north of the property.

Table 1. Analytical results of soil samples (in mg/kg) from borings - 5/22/91.

Sample #	Benzene	Toluene	Ethylbenzene	Xylenes	TPH as gasoline
B1-5	<0.005	<0.005	<0.005	<0.015	<10
B1-10	<0.005	<0.005	<0.005	<0.015	<10
B1-15	<0.005	<0.005	<0.005	<0.015	<10
B1-20	<0.005	<0.005	<0.005	<0.015	<10
B2-10	<0.005	<0.005	<0.005	<0.015	<10
B4-5	<0.005	<0.005	<0.005	<0.015	<10
B4-10	<0.005	<0.005	<0.005	<0.015	82*
B4-15	<0.005	<0.005	<0.005	<0.015	<10
B4-20	<0.005	<0.005	<0.005	<0.015	<10
B5-10	<0.005	<0.005	<0.005	<0.015	<10
B7-10	<0.005	<0.005	<0.005	<0.015	<10
B8-5	<0.005	<0.005	<0.005	<0.015	<10
B8-10	<0.005	<0.005	<0.005	<0.015	<10
B8-16	<0.005	<0.005	<0.005	<0.015	<10
B9-5	<0.05	0.36	1.0	7.8	200
B9-10	<0.05	0.38	1.2	10	560
B9-15	<0.05	<0.05	1.2	9.1	490
B9-25	<0.005	<0.005	<0.005	<0.015	<10
B10-5	<0.005	<0.005	<0.005	<0.015	<10
B11-5	<0.005	<0.005	<0.005	<0.015	<10

* The chromatogram suggests the presence of a heavier hydrocarbon than gasoline.

HYDROGEOLOGY

The site overlies alluvial-fan sediments deposited from small intermittent creeks which originate in the San Emigdio Range. Sediments underlying the region consist of fluvial deposits including silt, sand and gravel. Sediments encountered during drilling activities at the site consist primarily of fine- to coarse-grained silty sand.

Data from groundwater wells present approximately 2 miles north of the site indicate the presence of an unconfined aquifer at a depth of approximately 1,000 feet (Figure 3, Kern County Water Agency, 1990). No

Table 2. Analytical results of soil samples (in mg/kg) from borings - 7/1/91-7/2/91.

Sample #	Benzene	Toluene	Ethylbenzene	Xylenes	TPH as gasoline
B12-5	<0.005	0.039	0.014	0.12	<10
B12-10	<0.005	0.017	0.005	0.029	<10
B12-15*	<0.005	0.006	<0.005	0.79	95
B13-10**	<0.05	<0.05	<0.05	2.0	580
B13-15	<0.005	0.010	<0.005	<0.015	<10
B14-5	0.059	0.30	0.086	0.71	<10
B14-10	0.026	0.065	0.011	0.072	<10
B14-15	<0.005	0.024	0.006	0.030	<10
B15-5	0.011	0.19	0.045	0.23	33
B15-10**	<0.05	<0.05	0.16	1.2	340
B15-15**	<0.05	0.05	0.48	2.1	290
B15-20	<0.005	<0.005	<0.005	<0.015	<10
B16-15	<0.005	0.007	<0.005	<0.015	<10
B17-5	0.023	0.070	0.010	0.061	<10
B17-10	<0.005	0.011	<0.005	<0.015	<10
B17-15	<0.005	0.011	<0.005	<0.015	<10
B18-5	0.015	0.14	0.068	0.55	<10
B18-10	<0.005	0.066	0.023	0.17	<10
B18-15	<0.005	0.013	0.006	0.087	<10
B19-15	<0.005	<0.005	<0.005	<0.015	<10

* This sample analyzed past holding time.
** Detection limit raised due to dilution.

data regarding this aquifer is available in the immediate vicinity of the site. A cathodic-protection well was installed by Southern California Gas Company approximately 1/2 mile west of the site in 1977. No water was reported to a depth of 600 feet (personal communication, Kern County Water Agency).

FIELD PROCEDURES

PIPING AND TANK REMOVAL SAMPLING

The facility was demolished by K.E. Curtis Construction on September 16 and 17, 1991. On September 18, Groundwater Technology collected soil samples beneath the former locations of the dispensers and piping.

County protocol (UT-30) was followed as witnessed by Mr. Chris Finberg of Kern County Environmental Health Services. On September 19, Groundwater Technology witnessed the removal of a double-walled fiberglass used-oil tank. Soil samples were again collected following County protocol as witnessed by Mr. Finberg. A visual inspection of the tank revealed no apparent holes or cracks. Following recertification by the manufacturer, Texaco intends to reinstall the tank at an alternative location.

SOIL BORINGS

Laboratory reports from the analysis of equipment-removal samples were transmitted to the County immediately upon receipt from the laboratory. The County requested additional characterization of contamination below samples P3-6' and P3-12'. In response to this request, two additional borings (B20 and B21) were drilled at the locations shown on Figure 4. Soil samples were collected at 5-foot depth increments from 15 to 30 feet in B20. Samples were collected at depths of 15, 20 and 32 feet in B21. Cobbles prevented sample collection at 25 and 30 feet.

The samples were collected with a split-spoon sampler lined with brass sample rings. The material from one sample ring was described on the lithologic log of the boring and field screened with a photoionization detector (PID) for volatile organic compound (VOC) emissions. A second ring was sealed with teflon sheets, plastic caps, and polyethylene tape. The samples were then stored in waterproof bags and placed on ice pending delivery to an analytical laboratory. Between each sampling attempt, the sampler and rings were washed with non-phosphate detergent and rinsed successively in tap and distilled water. Lithologic logs of the borings are presented in Appendix A.

ANALYTICAL RESULTS

The piping, dispenser and used-oil tank soil samples were transported to state-certified GTEL Environmental Laboratories in Torrance, California following standard chain-of-custody procedures. The dispenser and piping samples were analyzed for benzene, toluene, ethylbenzene, xylenes and total petroleum hydrocarbons as gasoline (BTEX and TPHG). Samples from two locations exhibited detectable concentrations of BTEX or TPHG (Table 3).

The used-oil tank samples were analyzed for total oil and grease, total lead, and halogenated volatile organics. Total oil and grease was detected at a concentration of 9 mg/kg in sample UO-6'. No other analytes were detected.

Table 3. Analytical results of soil samples from piping. Only samples of which the analytes exceeded method detection limits are listed.

Sample #	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH as Gasoline
P3-2'	<0.005	<0.005	<0.005	0.030	12
P3-6'	<0.05	<0.05	0.70	29	1100
P3-12'	<0.05	<0.05	8.4	120	2300
P4-6'	<0.05	<0.05	0.26	13	750
P4-12'	<0.005	<0.005	<0.005	15	400

The soil samples selected for laboratory analysis included all samples from boring B20 and the samples at depths of 20 and 32 feet in boring B21. The samples were transported to state-certified SMC Laboratories in Bakersfield, California, and analyzed for BTEX and TPHG. None of these hydrocarbons were detected. Laboratory reports of all samples analyzed are presented in Appendix B.

WASTE DISPOSITION

Because no hydrocarbons were detected in samples from the borings drill cuttings generated from the two borings were distributed at the surface of the site. Fluids from the used-oil tank were recycled at the DeMenno - Kerdoon facility in Compton, California (Appendix C)

SUMMARY

In September, 1991, Groundwater Technology witnessed the removal of dispensers, piping, and a used-oil tank at the Texaco facility located at 9069 Grapevine Road in Lebec. Two soil borings were also drilled. The information presented in this report can be summarized as follows:

- sediments at the site consist of fine- to coarse-grained silty sand;
- groundwater is estimated to be at a depth in excess of 600 feet beneath the site;
- gasoline hydrocarbons were detected in five of the equipment-removal samples submitted for laboratory analysis; and
- gasoline hydrocarbons were not detected in follow-up boring samples.

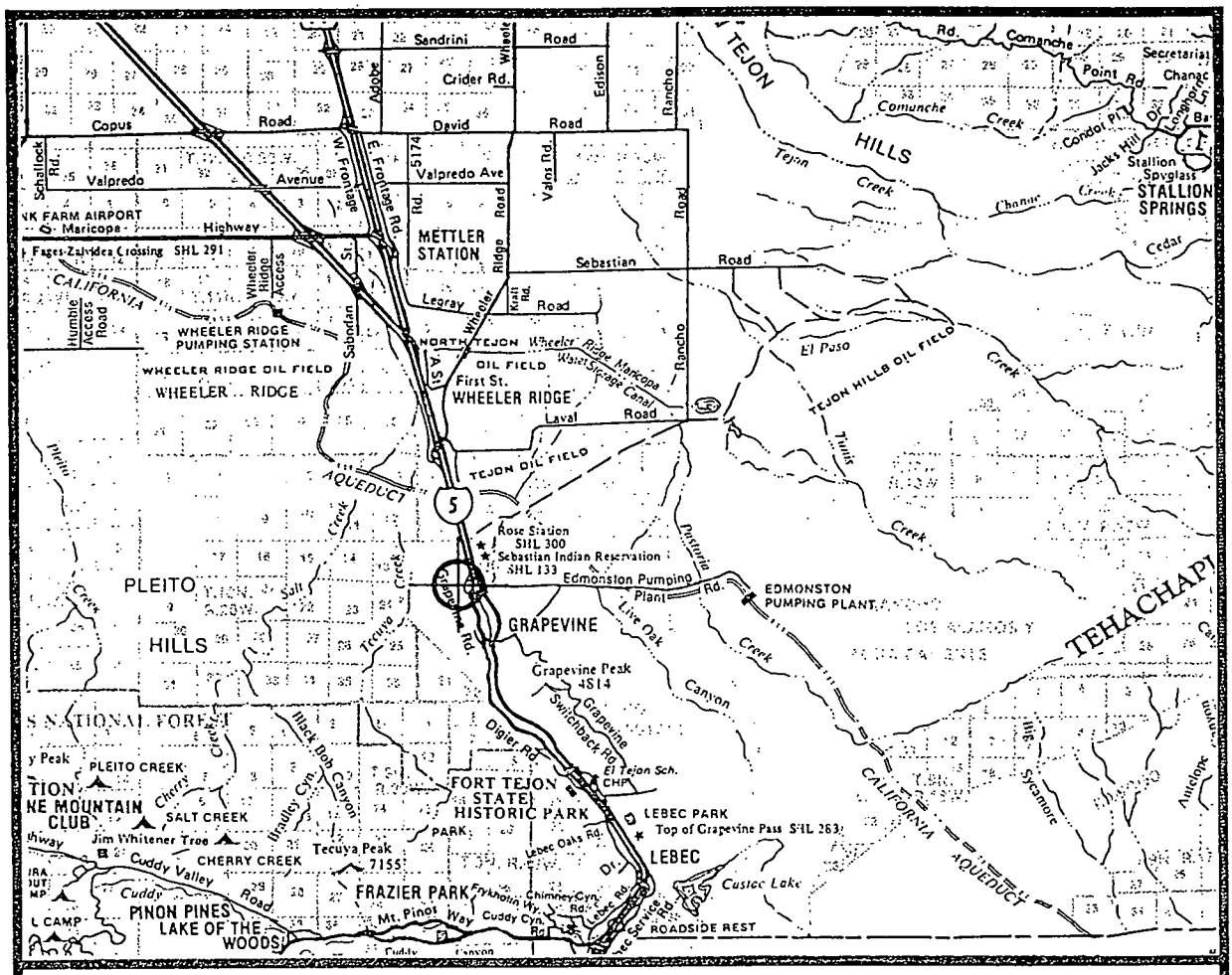
Based on the data collected from the additional borings drilled at the site, the distribution of gasoline hydrocarbons at the site is very limited. For these reasons, remedial action alternatives have not been developed. It is recommended that no further action be required at this site.

REFERENCES

Groundwater Technology, Inc., August 6, 1991, Site assessment report, Texaco retail facility, 9069 Grapevine Road West, Lebec, California.

Kern County Water Agency, 1990, Water supply report, 1989.

FIGURES



Site

N

SCALE:

4 0 2 4

miles

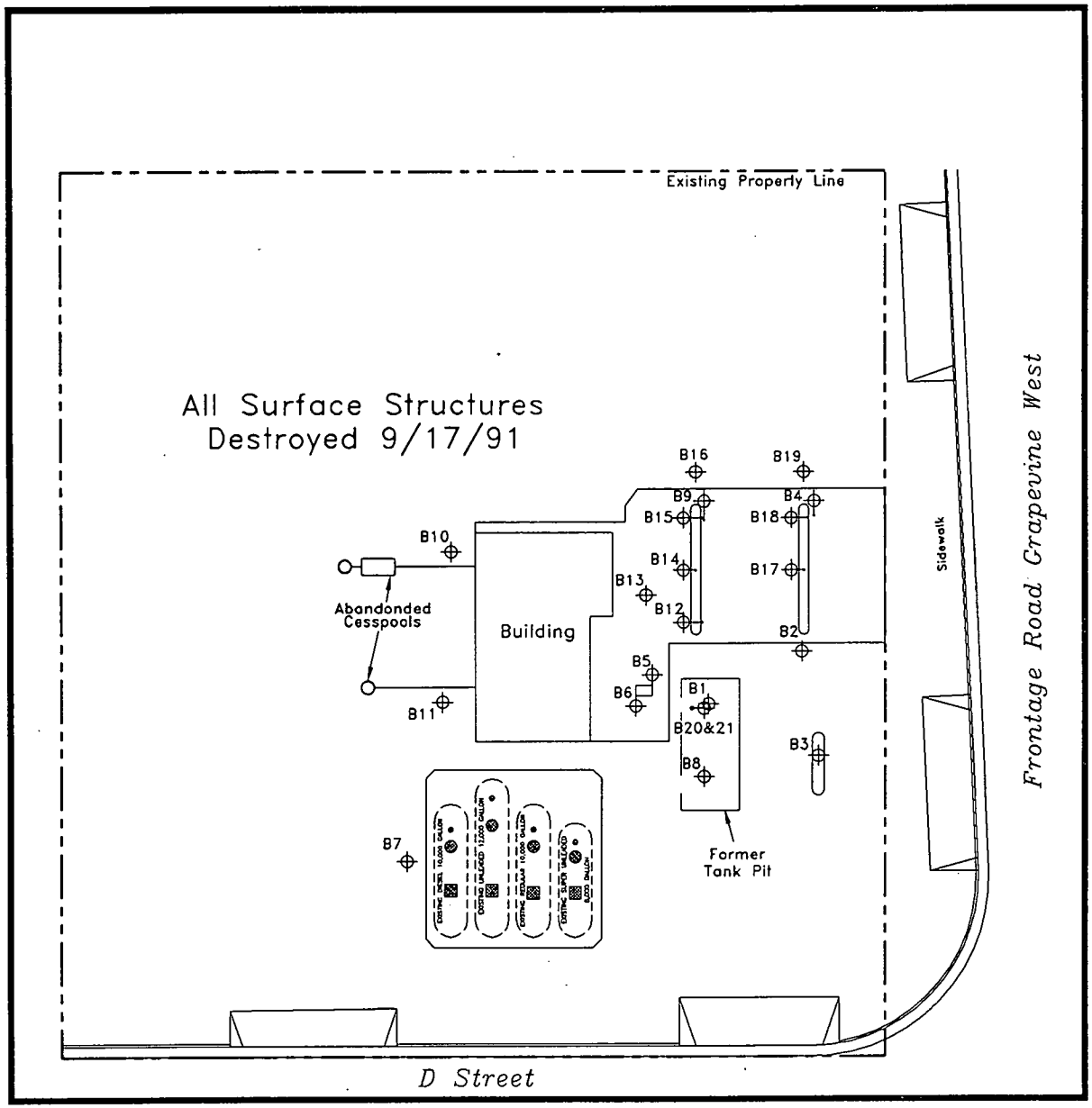
Source: Hoven & Co.

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: 9069 Grapevine Road Lebec, California			
MAP TYPE: Location Index			
DRAWN BY: JDP	DATE: 6/91	APPROVED BY: JDP	DATE: 6/91

REV	REVISION	DATE	BY

FIGURE 1

GROUNDWATER TECHNOLOGY, INC.



LEGEND

N

B10 Boring Location

SCALE:

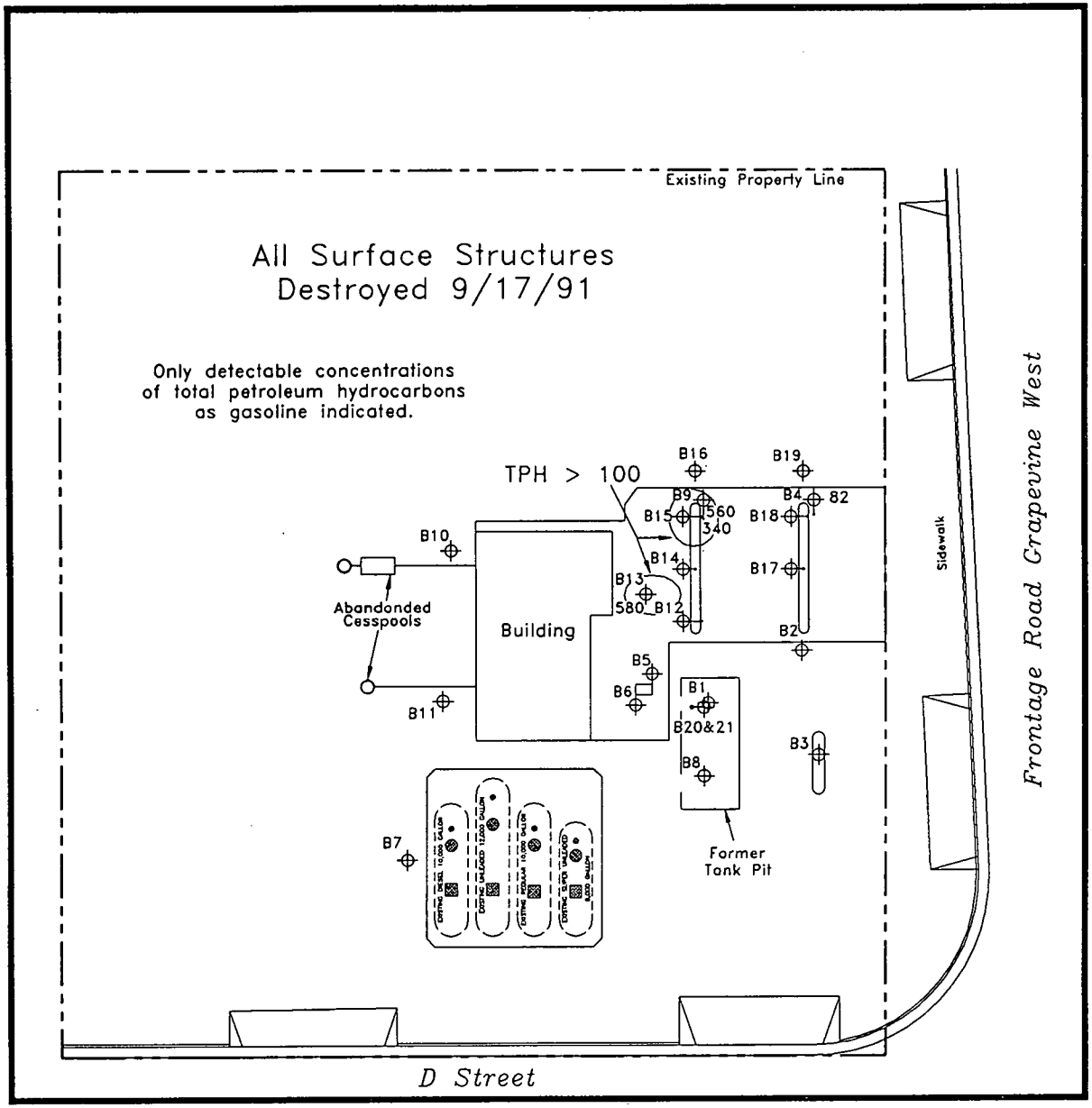
30' 0 15' 30'

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: Site Map			
DRAWN BY: JDP	DATE: 9/91	APPROVED BY: JDP	DATE: 9/91

REV	REVISION	DATE	BY

FIGURE 2

GROUNDWATER TECHNOLOGY



LEGEND

N

B10 Boring Location

SCALE:

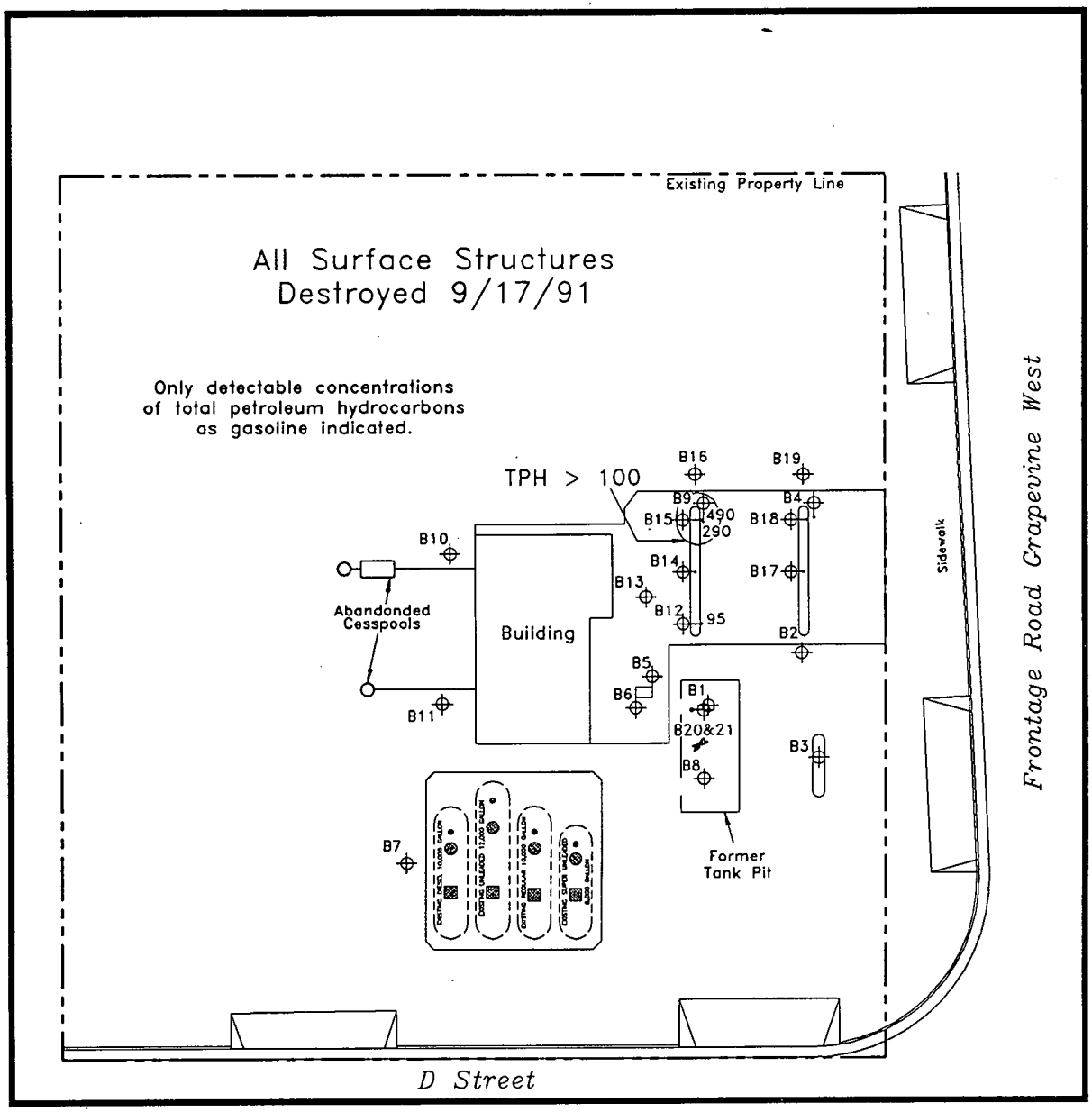
30' 0 15' 30'

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: TPHG at 10 Feet			
DRAWN BY: JDP	DATE: 9/91	APPROVED BY: JDP	DATE: 9/91

REV	REVISION	DATE	BY

FIGURE 3

GROUNDWATER TECHNOLOGY



LEGEND

N

B10 Boring Location

SCALE:

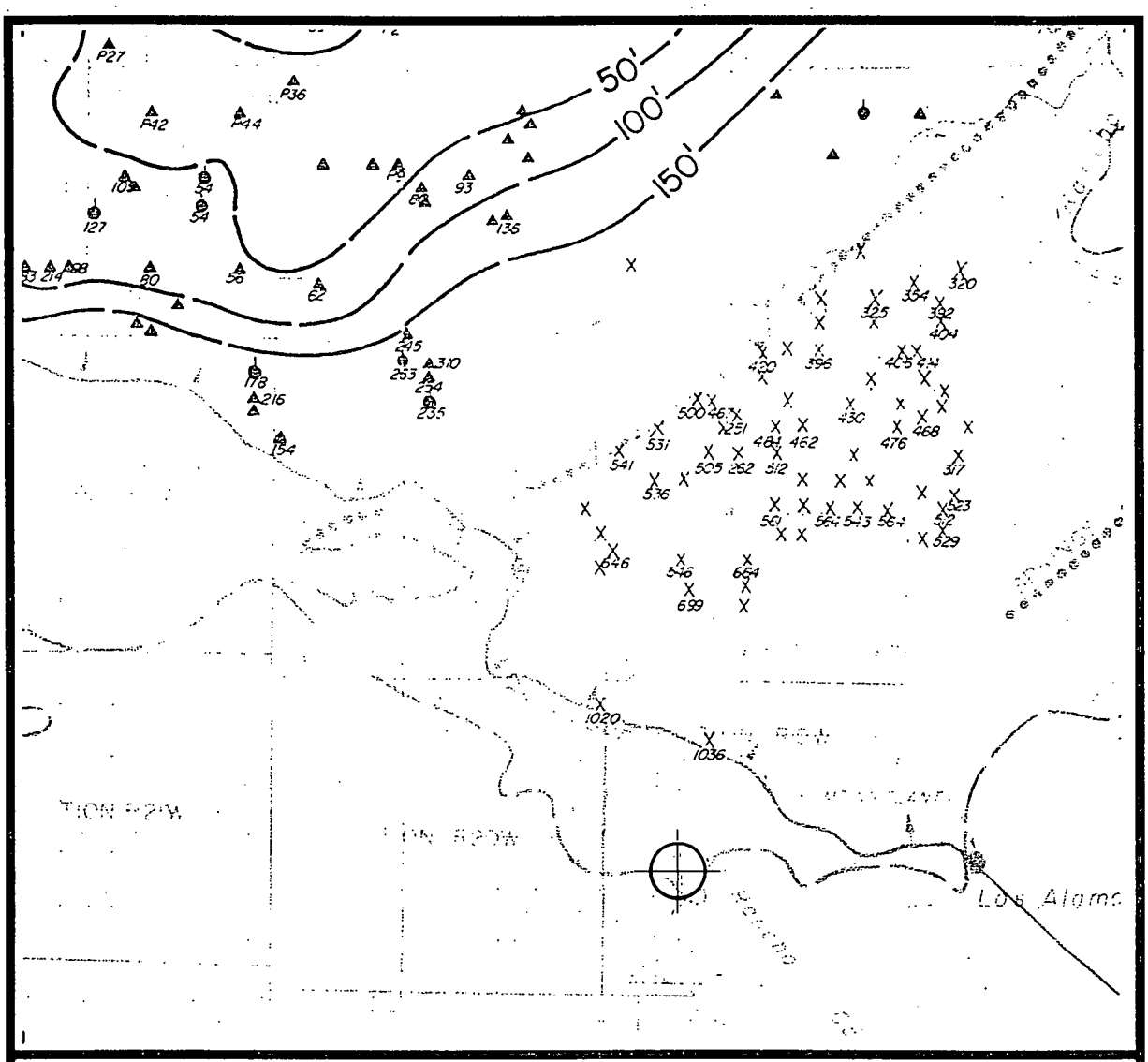
30' 0 15' 30'

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: TPHG at 15 Feet			
DRAWN BY: JDP	DATE: 9/91	APPROVED BY: JDP	DATE: 9/91

REV	REVISION	DATE	BY

FIGURE 4

GROUNDWATER TECHNOLOGY



Site

Legend

170' Depth to Groundwater

N

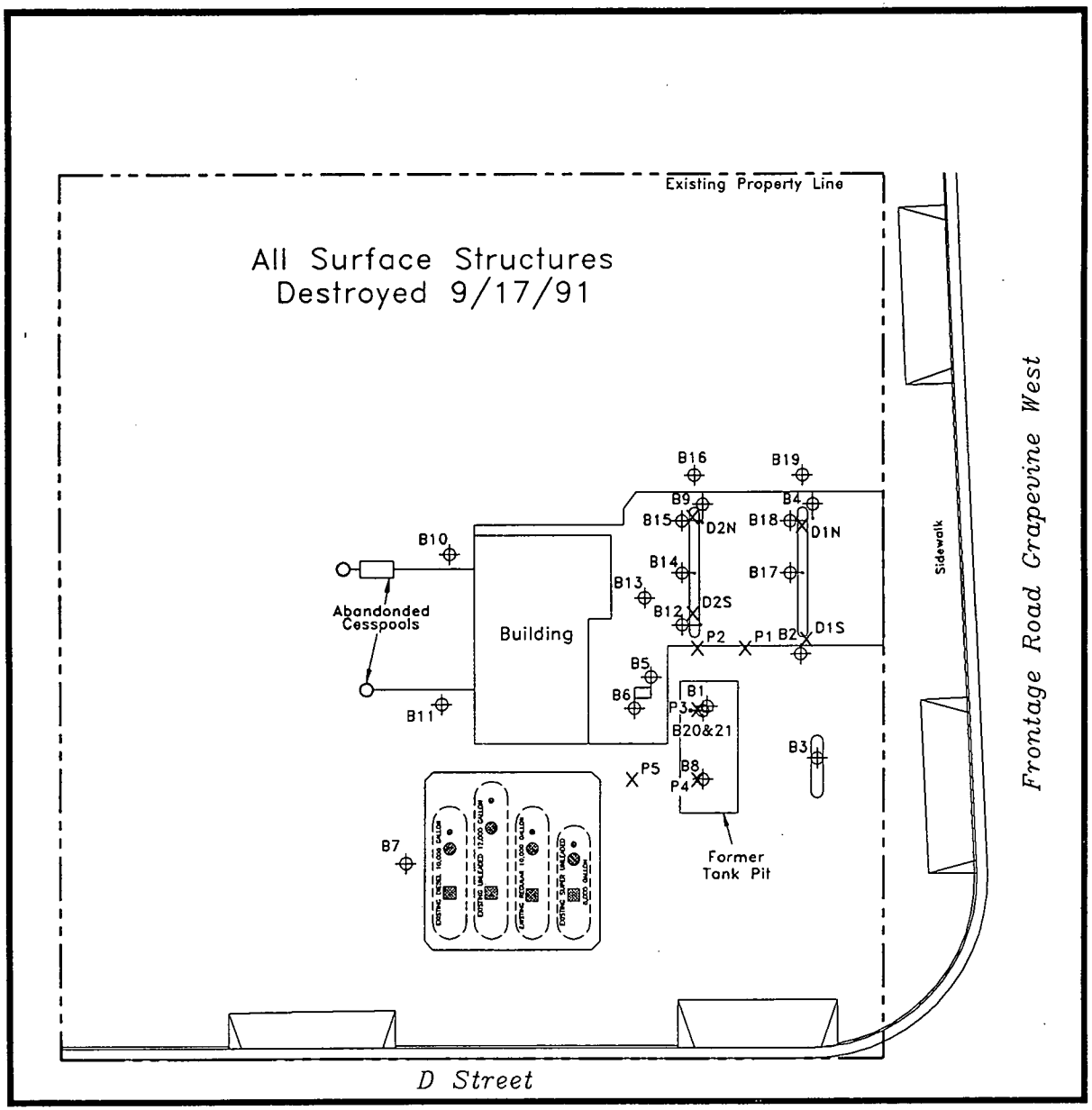
SCALE:

4 0 2 4

mile

Source: K.C.W.A. Report, 1990

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: Depth to Groundwater			
DRAWN BY: JDP	DATE: 6/91	APPROVED BY: JDP	DATE: 6/91
FIGURE 5		GROUNDWATER TECHNOLOGY	



LEGEND

N

B10 ⊕ Boring Location

P1 X Grab Sample Location

SCALE:

30' 0 15' 30'

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: Sample Locations			
DRAWN BY: JDP	DATE: 9/91	APPROVED BY: JDP	DATE: 9/91

REV	REVISION	DATE	BY

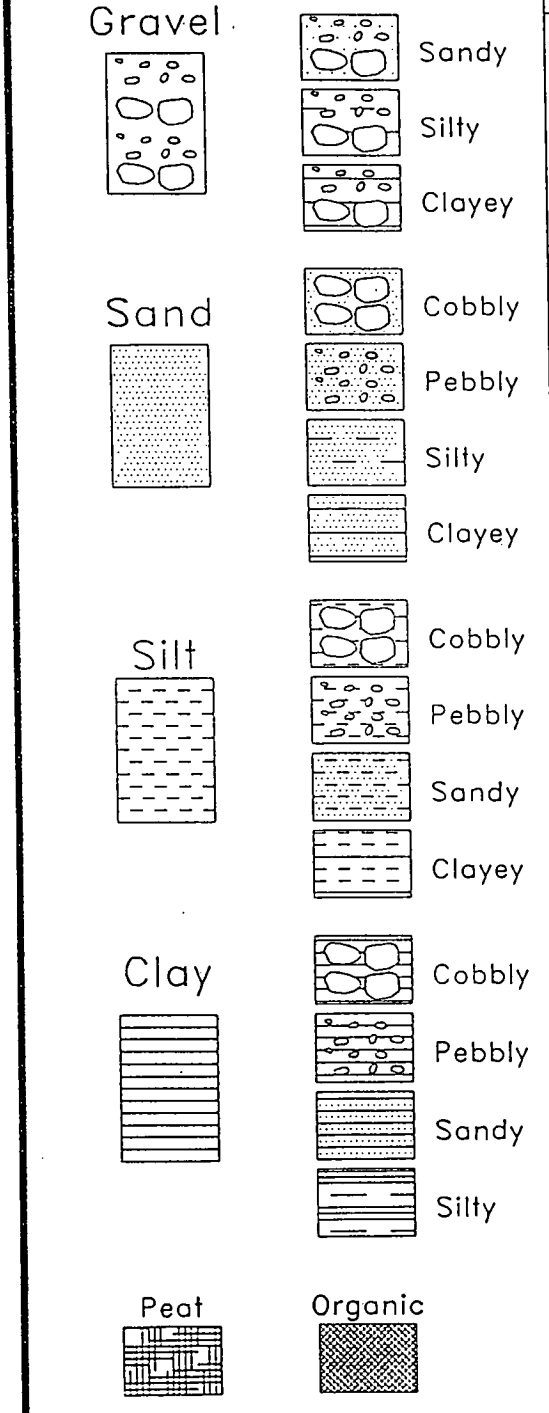
FIGURE 6

GROUNDWATER TECHNOLOGY

APPENDIX A
LITHOLOGIC LOGS

Log Legend

Lithology Symbols*

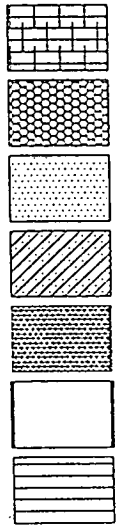


*Modified from Compton, 1962.

Unified Soil Class. Group**

Gravel, Sandy	GW,GP
Gravel, Silty	GM
Gravel, Clayey	GC
Sand, Cobbly	SW
Sand, Pebbly	SW
Sand, Silty	SM
Sand, Clayey	SC
Silt, Cobbly	ML,MH
Silt, Pebbly	ML,MH
Silt, Sandy	ML,MH
Silt, Clayey	ML,MH
Clay, Cobbly	CL,CH
Clay, Pebbly	CL,CH
Clay, Sandy	CL,CH
Clay, Silty	CL,CH
Peat, Organic	Pt – O

Construction Symbols



Sample Types

SS – Split Spoon

CC – Continuous Core

CG – Cuttings Grab

Fluid Levels

W – Water

P – Product

**

G – Gravel
S – Sand
M – Silt
C – Clay
Pt – Peat
W – Well Graded
P – Poorly Graded
L – Liquid Limit < 50
H – Liquid Limit > 50
O – Organic

GROUNDWATER TECHNOLOGY

GROUNDWATER TECHNOLOGY

Drilling / Lithologic log

Boring/Well No. B20

Project Texaco Grapevine
Owner Texaco Refining & Marketing, Inc.
Location Grapevine Road, Lebec, CA
Project Number 022501378
Date Drilled September 25, 1991
Total Depth 30 Feet
Surface Elevation --
Depth to Water --
Screen: Dia. -- Length -- Slot Size --
Casing: Dia. -- Length -- Type --
Drilling Co. Melton Drilling
Drill Method Hollow-Stem Auger
Driller M. Brayson
Logged By J. Parker

Depth (ft)	Well Const. Pipe	Well Const. Fill	PID (ppm)	Samples Number	Samples Type	Samples Blows	Graphic Log	Soil Class	Description / Soil Classification (Texture, Color, Structures)
5									
10									
15		Grout	0	B20-15'	SS	8 19 20		SW	Sand, fine to coarse grained, fine gravel (20%), coarse gravel (10%), well graded, subrounded, loose, greenish grey, damp, loose backfill, no odor.
20			0	B20-20'	SS	52 43 47		SW	Sand, fine to coarse grained, coarse gravel (10%), well graded, subangular, dense, light grey, dry, cobbly, no odor.
25			0	B20-25'	SS	24 23 21		SW	Sand, fine to coarse grained, fine gravel (20%), well graded, subangular, dense, light grey, dry, no odor.
								SW	Sand, fine to coarse grained, fine gravel (20%), well graded, subangular, dense, light grey, dry, no odor.

GROUNDWATER TECHNOLOGY

Drilling / Lithologic log

Project Texaco Grapevine

Boring/Well No. B20

Depth (ft)	Well Const. Pipe	Well Const. Fill	PID (ppm)	Samples Number	Samples Type	Samples Blows	Graphic Log	Soil Class	Description / Soil Classification (Texture, Color, Structures)
30			0	B20–30'	SS	24 24 24		SW	Sand, fine to coarse grained, fine gravel (20%), well graded, subangular, dense, light grey, dry, no odor.
35									
40									
45									
50									
55									
60									

GROUNDWATER TECHNOLOGY

Drilling / Lithologic log

Boring/Well No. B21

Project Texaco Grapevine
Location Grapevine Road, Lebec, CA
Date Drilled September 25, 1991
Surface Elevation --
Screen: Dia. -- Length -- Slot Size --
Casing: Dia. -- Length -- Type --
Drilling Co. Melton Drilling
Driller M. Brayson

Owner Texaco Refining & Marketing, Inc.
Project Number 022501378
Total Depth 32 Feet*
Depth to Water --
Drill Method Hollow-Stem Auger
Logged By J. Parker

Depth (ft)	Well Const. Pipe	Well Const. Fill	PID (ppm)	Samples Number	Samples Type	Samples Blows	Graphic Log	Soil Class	Description / Soil Classification (Texture, Color, Structures)
5								SW	Sand, fine to coarse grained, fine gravel (20%), well graded, subangular, dense, greenish grey, damp, no odor.
10									
15		Grout	0	B21-15'	SS	13 16 21			
20			0	B21-20'	SS	38 50		SW	Sand, fine to coarse grained, fine gravel (15%), coarse gravel (5%), well graded, subangular, dense, light grey, dry, no odor.
25									No sample recovery - cobbles at 25 and 30 feet.

GROUNDWATER TECHNOLOGY

Drilling / Lithologic log

Project Texaco Grapevine

Boring/Well No. B21

Depth (ft)	Well Const. Pipe	Well Const. Fill	PID (ppm)	Samples Number	Samples Type	Samples Blows	Graphic Log	Soil Class	Description / Soil Classification (Texture, Color, Structures)
30		Grout	0	B21–32'	SS	38 48 50		SW	Sand, fine to coarse grained, fine gravel (15%), coarse gravel (5%), well graded, subangular, dense, light grey, dry, no odor. * Boring plunges 75° due west.
35									
40									
45									
50									
55									
60									

APPENDIX B
LABORATORY REPORTS

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

September 27, 1991

Mr. Jon Parker
Groundwater Technology, Inc.
4101 Alken Road Ste. B-1
Bakersfield, CA 93308

Dear Mr. Parker,

Enclosed please find the analytical results report prepared by GTEL for samples received on 9/19/91, under chain of custody number 76-8793.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

If you have any question concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Minsoon Song
Laboratory Director

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		1A	2A	3A	4A
Client Identification		P2-2	P2-6	P5-2	P5-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/24/91	9/23/91	9/23/91	9/23/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %		87.2	88.2	86.2	85.4

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		5A	6A	7A	8A
Client Identification		DIN-2	DIN-6	DIS-2	DIS-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/23/91	9/23/91	9/23/91	9/23/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %		85.6	85.9	85.6	86.2

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		9A	10A	11A	12A
Client Identification		D2N-2	D2N-6	D2S-2	D2S-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/24/91	9/24/91	9/24/91	9/24/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %		87.2	88.2	89.2	87.2

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		13A	14A		
Client Identification		P1-2	P1-6		
Date Sampled		9/18/91	9/18/91		
Date Extracted		9/23/91	9/23/91		
Date Analyzed		9/24/91	9/24/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005		
Toluene	0.005	<0.005	<0.005		
Ethylbenzene	0.005	<0.005	<0.005		
Xylene, total	0.015	<0.015	<0.015		
BTEX, total	--	--	--		
TPH as Gasoline	10	<10	<10		
Detection Limit Multiplier		1	1		
Percent Solids, %		91.0	89.2		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 2

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A*	3A*	4A
Client Identification		P3-2	P3-6	P3-12	P4-2
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/20/91	9/20/91	9/20/91	9/20/91
Date Analyzed		9/21/91	9/21/91	9/21/91	9/21/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.05	<0.05	<0.005
Toluene	0.005	<0.005	<0.05	<0.05	<0.005
Ethyl Benzene	0.005	<0.005	0.70	8.4	<0.005
Xylene (total)	0.015	0.030	29	120	<0.015
BTEX (total)	---	0.030	30	130	--
TPH as Gasoline	10	12	1100	2300	<10
Detection Limit Multiplier		1	10	10	1
Percent Solids, %		87.2	88.2	85.8	84.2

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.
b. Concentrations calculated on wet basis.
*. Detection limit raised due to dilution.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 2 Con't

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		5A*	6A		
Client Identification		P4-6	P4-10		
Date Sampled		9/18/91	9/18/91		
Date Extracted		9/20/91	9/20/91		
Date Analyzed		9/22/91	9/22/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.05	<0.005		
Toluene	0.005	<0.05	<0.005		
Ethyl Benzene	0.005	0.26	<0.005		
Xylene (total)	0.015	13	15		
BTEX (total)	---	13	15		
TPH as Gasoline	10	750	400		
Detection Limit Multiplier		10	1		
Percent Solids, %		85.4	85.6		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.
b. Concentrations calculated on wet basis.
*. Detection limit raised due to dilution.

GTEL ENVIRONMENTAL LABORATORIES, INC.

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76- 8791

Project Manager: Jon Parker

Phone #: 805 589 8601

FAX #: 805 589 8605

Address: 4101 Alken St #B1 Bakersfield

Site location: Lebec

Project Number: 022501378

Project Name: Grapevine Texaco

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Jon Parker

	Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
V	D1N-2'	Grab	9 ~~10~~	1		X							X			9/18	1000
V	D1N-6'	"	10 ~~11~~	1													1005
V	D1S-2'	"	11 ~~12~~	1													1010
V	D1S-6'	"	12 ~~13~~	1													1015
V	D2N-2'	"	13 ~~14~~	1													1020
V	D2N-6'	"	14 ~~15~~	1													1025
V	D2S-2'	"	15 ~~16~~	1													1030
V	D2S-6'	"	16 ~~17~~	1													1035
V	P1-2'	"	17 ~~18~~	1													1040
V	P1-6'	"	18 ~~19~~	1													1045

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																

SPECIAL HANDLING

24 HOURS ☐

EXPEDITED 48 Hours ☐

SEVEN DAY ☐

OTHER 10 (#) BUSINESS DAYS

QA/QC CLP Level ☐ Blue Level ☐

FAX ☐

SPECIAL DETECTION LIMITS (Specify)

67°

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: Texaco Contract

Lab Use Only Storage Location

Lot #: Work Order #: T1-09-391 → 392

CUSTODY RECORD

	Relinquished by Sampler:	Relinquished by:	Relinquished by:
Received by:			
Received by:			
Received by Laboratory:			
Date	9/18/91		R19
Time	1600		9 Hr
Way bill #			

GTEL ENVIRONMENTAL LABORATORIES, INC.

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76- 8793

CUSTODY RECORD

Project Manager: Jon Parker

Phone #: 805 589 8601

FAX #: 805 589 8605

Address: 4101 Aiken St #B1 Bakersfield

Site location: Lebec

Project Number: C225013.78

Project Name: Grapevine Terrace

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Jon Parker

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
P2-2	Grab	1	1	X								X			9/18/91	1050
P2-6	"	2	1													1055
P3-2	"	3	1													1100
P3-6	"	-1	1													1105
P3-12	"	-2	1													1110
P4-2	"	4	1													1115
P4-6	"	5	1													1120
P4-10	"	6	1													1125
P5-2	"	7	1													1130
P5-6	"	8	1													1135
		9														

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																

Received by: Date 9/18/91 Time 1600

Received by: Date Time

Received by Laboratory: Date 9-19 Time 9 30 AM

Way bill #

SPECIAL HANDLING

24 HOURS ☐

EXPEDITED 48 Hours ☐

SEVEN DAY ☐ see remarks

OTHER 10 (#) BUSINESS DAYS

QA/QC CLP Level ☐ Blue Level ☐

FAX ☐

SPECIAL DETECTION LIMITS (Specify)

10°C

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: Please expedite Sample P3-12 and P3-6 for 48 hr Turnaround Terrace Contract

Lab Use Only

Storage Location

Lot #:

Work Order #: T1-09-391,392

Relinquished by Sampler: Jon Parker

Relinquished by:

Relinquished by:

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 1

ANALYTICAL RESULTS

Oil and Grease in Soil by Infrared
Modified EPA Method 3550/Standard Method 503B/EPA 413.2

Sample Identification		Date Sampled	Date Extracted	Date Analyzed	Concentration, mg/Kg[a]	Percent Solids, %
GTEL No.	Client ID					
1A	UO-2'	9/19/91	9/24/91	9/25/91	<5	
2A	UO-6'	9/19/91	9/24/91	9/25/91	9	

a. Method detection limit = 5 mg/Kg; analyte below this level would not be detected. Concentrations calculated on wet basis.

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 2
ANALYTICAL RESULTS
Halogenated Volatile Organics in Soil
EPA Method 8010[a]

GTEL Sample Number		1A	2A		
Client Identification		UO-2'	UO-6'		
Date Sampled		9/19/91	9/19/91		
Date Extracted		9/23/91	9/23/91		
Date Analyzed		9/24/91	9/24/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1.0	<1.0	<1.0		
Chloroethane	0.5	<0.5	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
trans-1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	<0.5	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1.0	<1.0	<1.0		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Detection Limit Multiplier		1	1		
Percent Solids, %		93.6	91.8		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample prepared by EPA Method 5030 (high-level solvent extraction and purge and trap).

b. Concentration calculated on wet basis.

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 3

ANALYTICAL RESULTS

Total Lead in Soil by Flame AA
EPA Method 7420[a]

Sample Identification		Date Sampled	Date Extracted	Date Analyzed	Concentration, mg/kg[b]	Percent Solids, %
GTEL No.	Client ID					
1A	UO-2'	9/19/91	9/24/91	9/25/91	<5	87.2
2A	UO-6'	9/19/91	9/24/91	9/25/91	<5	83.0

a. Digested by EPA Method 3050

b. Method detection limit = 5 mg/kg; analyte below this level would not be detected. Concentrations calculated on wet basis.

002 G.T.E.L. 11/14/91 10:28 FAX 1 213 371 8720

GTEL ENVIRONMENTAL LABORATORIES, INC.

20000 Mariner Dr., Suite #300
Torrance, CA 90503
213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76- 8792

Project Manager: Jon Parker
Phone #: 805 589 8601
FAX #: 805 589 8605
Address: 4101 Alken St #B1 Bakersfield
Site location: Lebec
Project Number: 022501378
Project Name: Grapevine Texaco
I attest that the proper field sampling procedures were used during the collection of these samples.
Sampler Name (Print): Jon Parker

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
U0-2'	Grab	1	1		X							X			9/19	930
U0-6'	1	2	1		X							X			9/19	935

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☒ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☒ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☒ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
				X		X									X		

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER 10 (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: Texaco contract

Lab Use Only
Storage Location
Lot #: 60C
Work Order #: TI-09-462 → 464

CUSTODY RECORD

Relinquished by Sampler:	Received by:	Received by Laboratory:
Date 9/19/91 Time 4:00	Date	Date
Relinquished by:	Received by:	Received by:
Date	Date	Date 9/20/91 Time 9:30am
Relinquished by:	Received by:	Way bill #
Date	Time	

SMC Laboratory

Analytical Chemistry

Client Name: Groundwater Technology, Inc.
Address : 4101 Alken Street., B-1
Bakersfield, Ca.93308

Date samples received : 9-25-91
Date analysis completed: 9-26-91
Date of report : 9-26-91

Project Name: Grapevine Texaco
P.O. # : 084CRJ

RESULTS OF ANALYSIS:

#3593 ID:B20-15	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3594 ID:B20-20	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Method of Analysis for BTX: 5030/8020 (PID)
Method of Analysis for TPH (Gasoline) 8015 (Modified)
PQL = Practical Quantitation Level
TPH = Total Petroleum Hydrocarbons
ugm/gm = micrograms per gram (ppm)
ND = None Detected

Stan Comer
Stan Comer
Analytical Chemist

3155 Pegasus Drive • Bakersfield, CA 93308 • (805) 393-3597
P.O. Box 80835 • Bakersfield, CA 93380 • FAX (805) 393-3623

RESULTS OF ANALYSIS

#3595 ID:B20-25	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3596 ID:B20-30	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

#3597 ID:B21-20	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Stan Comer

Stan Comer
Analytical Chemist

RESULTS OF ANALYSIS

#3598 ID:B21-32	ugm/gm	PQL,ugm/gm
Benzene	ND	0.0063
Toluene	ND	0.0063
Ethylbenzene	ND	0.0063
p-Xylene	ND	0.0063
m-Xylene	ND	0.0063
o-Xylene	ND	0.0063
Isopropylbenzene	ND	0.0063
TPH (Gasoline)	ND	1.0

Stan Comer
Analytical Chemist

CHAIN OF CUSTODY RECORD

Location of Sampling
Name: Grapevine Texaco
Company: Texaco
Address: Grapevine Rd & D street
Lebec CA 93243
Telephone: (818) 505 9139

Collector
Name: Jon Parker
Company: Groundwater Technology
Address: 4101 Alken St #B1
Bakersfield CA 93308
Telephone: (805) 589 8601
FAX 589 8605

SMC Laboratory
3155 Pegasus Drive
Bakersfield, CA 93308
Telephone: (805) 393-3597
FAX: (805) 393-3623

Sampling Method: Hollow stem Auger Sample Type: Soil Preservation Methods: Ice

Sample No.	Date	Time	Description	Analysis Requested	Laboratory No.
B20-15'	9/25/91	12:20		5030-8020/8015 BTEX and TPH as Gasoline	3593
B20-20'	"	12:32		"	3594
B20-25'	"	12:40		"	3595
B20-30'	"	12:58		"	3596
B21-20'	"	13:54		"	3597
B21-32'	"	14:27		"	3598
				"	~~3599~~
				24 hr rush on all samples	

Relinquished By: Jon Parker Company: Groundwater Technology Date: 9/25/91 16
Received By: Thom Ward Company: SMC Laboratory Date: 9/25/91 16
Relinquished By: Company: Date:
Received By: Company: Date:
Relinquished By: Company: Date:
Received By: Company: Date:

REQUEST VERBAL ASAP

Sheet of

APPENDIX C
DISPOSAL DOCUMENTS

WASTE MANIFEST CAL [illegible] 93277 [illegible]

Generator's Name and Mailing Address: TEXACO REFINING & MKTG INC / TEXACO Universal City Co-Gen / 6E Pac 95243 / ATTN: RAY JOHNSTON / 661 58002

Generator's Phone: 818 2052139

Transporter 1 Company Name: ADAMS TRUCKING — 6. US EPA ID Number

Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: DEMENNO KERDOON / 2000 N. ALAMEDA / COMPTON, CA 90222 — 10. US EPA ID Number: CAT080013352

A. State Manifest Document Number: 90737819

B. State Generator's ID: [illegible]

C. State Transporter's ID: 102465

D. Transporter's Phone: 213 321-2451

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID: [illegible]

H. Facility's Phone: 213 537 7100

US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
NON HAZARDOUS WASTE LIQUID	001	TT	00700		STATE 241
					EPA/Other
					State
					EPA/Other
					State
					EPA/Other
					State
					EPA/Other

THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.

J. Additional Descriptions for Materials Listed Above: WASTE OIL WATER MIXTURE

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Typed Name	Signature	Month	Day	Year
RAY JOHNSTON	Ray Johnston			

17. Transporter 1 Acknowledgement of Receipt of Materials

Typed Name	Signature	Month	Day	Year
CHAD CHRISTIE	Chad Christie	09	30	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Typed Name	Signature	Month	Day	Year
JK PAPP	[illegible]	10	10	91

Do Not Write Below This Line

Previous editions are obsolete.

Yellow: USER KEEPS THIS COPY FOR RECORDS FOR THE NEXT 30 DAYS

CONTRACT OPTIONS FOR LEAKING TANKS
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 15	
Employee Signature [signature]	#9
Site Name or Address Texaco - I-5 & Grapevine	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
11/21/91	2	15		1.0

Notes: Reviewed Closure Report — OK for Closure Letter Signature

Data Entered By: Date:

CONTRACT OPTIONS FOR LEAKING TANK
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 15	
Employee Signature	Took 9
Site Name ~~or Address~~ Texaco - Grapevine	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
10/18/91	8	15		1.0

Notes: Reviewed File & Reports —
Rehov a CA-3 (B-20) Shows Regular Removal —
no further action is indicated — Closure letter

Data Entered By: Date:

CONTRACT OPTIONS FOR LEAKING TANKS
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 25	
Employee Signature	Tank #7
Site Name or Address Exxon-Ridgeview	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
9/25/91	8	16/12		0.5

Notes: Temp Env K - Review Field & Lab Report Copies Lab Results of Increased with depth - Env K to Bore to define Plume thru JM with Rapid Turnaround by Lab Analyses.

Data Entered By: Date:

CONTRACT OPTIONS FOR LEAKING TANK
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 15	
Employee Signature	Tank 5
Site Name or Address Texaco – Grapevine ET5	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
9/18/91	8	15		2.0

Notes: Reviewed file & data – Review SC w/ proposal & file Characterization Report as OK'd by UST Section – Need for Completion of WP Tank Removal this date –

Data Entered By: Date:

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

SERVICE AND COMPLAINT FORM

Date 8/02/91 Time: 3:00

☒ Service Request ☐ Complaint CT No. 330035 Assigned to: ~~Chris Burgett~~ Jane 8/29/91

Location Texaco City

Directions Grapevine & I-5 LEBEC, CA

Reporting Person Address Phone

Property Owner Address Phone

Reason for Request Referring care to C.O.L.T based on TPH at boring # B-9.

Information Taken by Chris F.

RESULTS OF INVESTIGATION Enrolled in C.O.L.T 08/13/91 J.S

Complainant notified of results Investigated by Date

Environmental Health 580 4113 2029 (Rev. 9/89)

CONTRACT OPTIONS FOR LEAKING TANKS
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 13	Task 4
Employee Signature [illegible]	
Site Name or Address Mexico	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
		10	Identification and notification of RP	0.5

Notes: Prepared case for enrollment in C.O.L.T.

Accepted by Chris Finier

4-6

NFS

Data Entered By: Date:

CONTRACT OPTIONS FOR LEAKING TANKS
Site Specific Time Accounting Sheet

Permit # 330035	Site Specific Status Changes:
Employee # 13	Task 4
Employee Signature Lydia V. von Aydow	
Site Name or Address Texaco	
Funding (Local, State, of Federal)	

Date	Category Code	Activity Code	Description	Hours (10ths)
		00	Identification and notification of RP.	0.5

Notes: Prepared case for enrollment in C.O.L.T.

Verified by Chris Imberg

YES

Data Entered By: Date:

RESOURCE MANAGEMENT AGENCY

RANDALL L. ABBOTT
DIRECTOR

DAVID PRICE III
ASSISTANT DIRECTOR



Environmental Health Services Department
STEVE McCALLEY, REHS, DIRECTOR

Air Pollution Control District
WILLIAM J. RODDY, APCO

Planning & Development Services Department
TED JAMES, AICP, DIRECTOR

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

November 4, 1991

Ray Johnston
Texaco Refining & Marketing
10 Universal Plaza
Universal City, CA 91608-7812

SUBJECT: Location : 9069 Grapevine/Interstate 5

Known As : Texaco Service Station
Permit # : 330035

Dear Mr. Johnston:

This letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact **Flora Darling** at (805) 861-3636, Extension 549.

Sincerely,

Chris Burger, R.E.H.S.
Hazardous Materials Specialist IV
Hazardous Materials Management Program

CB:FD:cas
\330035.b

WATER RESOURES CONTROL BOARD
DIVISION OF WATER QUALITY
UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT

CONTRACTOR NO: 15000 SOURCE OF FUNDS: L SUBSTANCE: 8006619
SITE NO: 330035 FEDERAL EXEMPT: N PETROLEUM: Y
SITE NAME: TEXACO DATE REPORTED: 06/02/91
ADDRESS: 9069 GRAPEVINE ROAD WEST DATE CONFIRMED: 06/02/91
CITY/ZIP: LEBEC, CA 93243 MULTIPLE R.P's: Y

---------- SITE STATUS ----------

CASE TYPE: S CONTRACT STATUS: 9 EMERGENCY RESPONSE:
RP SEARCH: S DATE UNDERWAY: 06/02/91 DATE COMPLETED: 06/02/91
PRELIMINARY ASSESSMENT: C DATE UNDERWAY: 05/21/91 DATE COMPLETED: 08/19/91
REMEDIAL INVESTIGATION: C DATE UNDERWAY: 09/27/91 DATE COMPLETED: 10/08/90
REMEDIAL ACTION: DATE UNDERWAY: / / DATE COMPLETED: / /
POST REMEDIAL ACTION MONITORING: DATE UNDERWAY: / / DATE COMPLETED:
ENFORCEMENT ACTION TAKEN: TYPE: DATE TAKEN:
LUFT FIELD MANUAL CONSIDERATION (CATEGORY 1, 2, 3, PLUS H, S, C, A, R, W, G, OR O AS APPLICABLE) 2, S, C, A.
CASE CLOSED: Y DATE CLOSED: 11/22/91
DATE EXCAVATION STARTED: / / REMEDIAL ACTIONS TAKEN: NA

---------- RESPONSIBLE PARTY ----------

CONTACT NAME: RAY JOHNSTON
COMPANY NAME: TEXACO REFINING & MKT.
ADDRESS: 10 UNIVERSAL PLAZA
CITY/ZIP: UNIVERSAL CITY, CA 91608
PHONE #: ( ) -

SPECIALIST: 15
SENSITIVITY: NES
ABANDONMENT #: A -
DATE OF REPORT: 11/06/91
LEAK REPORT: Y

CONTACT NAME:
COMPANY NAME: TEJON RANCH
ADDRESS: P. O. BOX 1000
CITY/ZIP: LEBEC, CA 93243
PHONE #: ( ) -

CONTACT NAME:
COMPANY NAME:
ADDRESS:
CITY/ZIP:
PHONE #:

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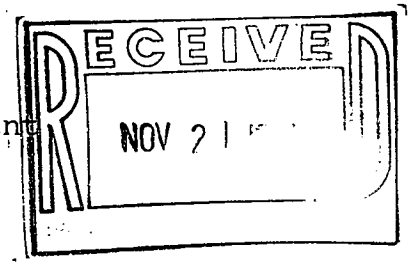
PHONE #:

CONTACT NAME:
COMPANY NAME:
ADDRESS:
CITY/ZIP:
PHONE #:

Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

November 18, 1991



Ms. Flora Darling
Hazardous Materials Specialist
Kern County Environmental Health Department
Resource Management Agency
2700 M. Street
Bakersfield, California 93301

Re: Texaco Station 9069 Grapevine/I-5

Dear Ms. Darling:

Attached please find the Product Piping and Used Oil Tank Removal Report for the above location.

If you have any questions or comments, please call me at (818) 505-2139.

Very truly yours,

Ray Johnston
Project Coordinator
Texaco Environmental Services

CRJ:crj

Enclosure

Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

October 21, 1991



RE: Texaco Service Station
9069 Grapevine/I-5
Lebec, CA

Flora Darling
Hazardous Materials Speicalists
Kern County Environmental Health Department
Resource managemnet Agency
2700 m. Street
Bakersfield, CA 93301

Dear Ms. Darling:

Enclosed please find the Third Quarter Report for the Texaco Service Station located at the above address.

If you have any questions or comments, please contact me at (818)505-2139.

Very truly yours,

Ray Johnston
Environmental Coordinator
Texaco Environmental Services

CRJ:crj

Enclosure

GROUNDWATER TECHNOLOGY, INC.

4101 Alken Street, Suite B-1, Bakersfield, CA 93308 (805) 589-8601
Fax: (805) 589-8605

October 9, 1991

Mr. Ray Johnston
Environmental Supervisor
Texaco Refining and Marketing, Inc.
10 Universal City Plaza
Universal City, CA 91608 7812

RE: Third Quarter Status Report, Grapevine Texaco, Lebec, California

Dear Mr. Johnston:

A description of activities completed at the site during this quarter:

Overview: Groundwater Technology witnessed piping and dispenser removal on September 18 and the removal of a used-oil tank on September 19. As requested by the County, two additional borings were completed on September 25 at the location of two piping samples which exhibited TPH concentrations above 1000 mg/kg.

Investigation Results: No hydrocarbons were detected at almost all piping, dispenser, and used-oil tank sampling locations. At one location, concentrations of TPH reached 2300 mg/kg. Two borings were completed at this location at the request of the County. TPH was not detected in all samples collected from the borings.

Correspondence: A *Site Assessment Report* (August 6, 1991) was submitted to the County for their review. The laboratory reports for all piping removal and boring samples were also submitted to the County with a cover letter from Texaco Environmental Services on September 27.

Waste Disposal: Drill cuttings generated from the assessment activities completed in July were disposed of at Laidlaw's Buttonwillow facility (manifest attached). Drill cuttings generated from the two borings completed in September were distributed at the surface of the site because no hydrocarbons were detected in boring samples.

Future Work: Completion of draft closure report.

Should you have any questions regarding this status report please contact me at (805) 589-8601.

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Jonathan D. Parker, R.G.
Project Manager

RECEIVED
OCT 1991

Texaco Refining and Marketing Inc
10 Universal City Plaza
Universal City CA 91608

September 27, 1991

Ms. Flora Darling
Hazardous Materials Specialist
Kern County Environmental Health Department
Resource Management Agency
2700 M. Street
Bakersfield, California 93301

RE: Sample Results, Grapevine Texaco, Lebec, California

Dear Ms. Darling:

Attached are laboratory reports for samples collected during piping, and used-oil tank removal at Texaco's Grapevine facility. The dispenser and piping samples were analyzed for benzene, toluene, ethylbenzene, xylenes and total petroleum hydrocarbons as gasoline (BTEX and TPHG). Results from samples with detectable concentrations of these analytes are listed in Table 1. The used-oil tank samples were analyzed for total oil and grease, total lead, and halogenated volatile organics. Total oil and grease was detected at a concentration of 9 mg/kg in sample UO-6'. No other analytes were detected.

At the request of the County, two borings were drilled in the immediate vicinity of sample location P3 (Figure 1). Field procedures and sampling protocol as described in a site specific work plan (June 26, 1991) were followed. Boring B20 was drilled vertically approximately 18" east of where the P3 samples were collected. Samples were collected at 5-foot increments beginning at a depth of 15 feet to a total depth of 30 feet.

Boring B21 was drilled from the same surface location as B20 at an angle of 15° from vertical toward 90° west. Sampling was attempted at 5-foot increments beginning at a depth of 15 feet. Samples could only be collected at depths of 15, 20 and 32 feet due to the presence of cobbies at other depths.

With the exception of the sample collected at a depth of 15 feet in B21, all samples from both borings were analyzed for BTEX and TPHG. None of these hydrocarbons were detected in any of the borings samples.

Texaco Environmental Services requests that no further action be required at this site for the following reasons:

- hydrocarbon contamination is limited in extent;
- the site will shortly be capped with concrete; and
- groundwater in the region is at a depth in excess of 600 feet.

A report documenting sampling and drilling activities completed at the site will be completed and forward shortly. If you have any questions please contact me at (818) 505-2139.

Sincerely,

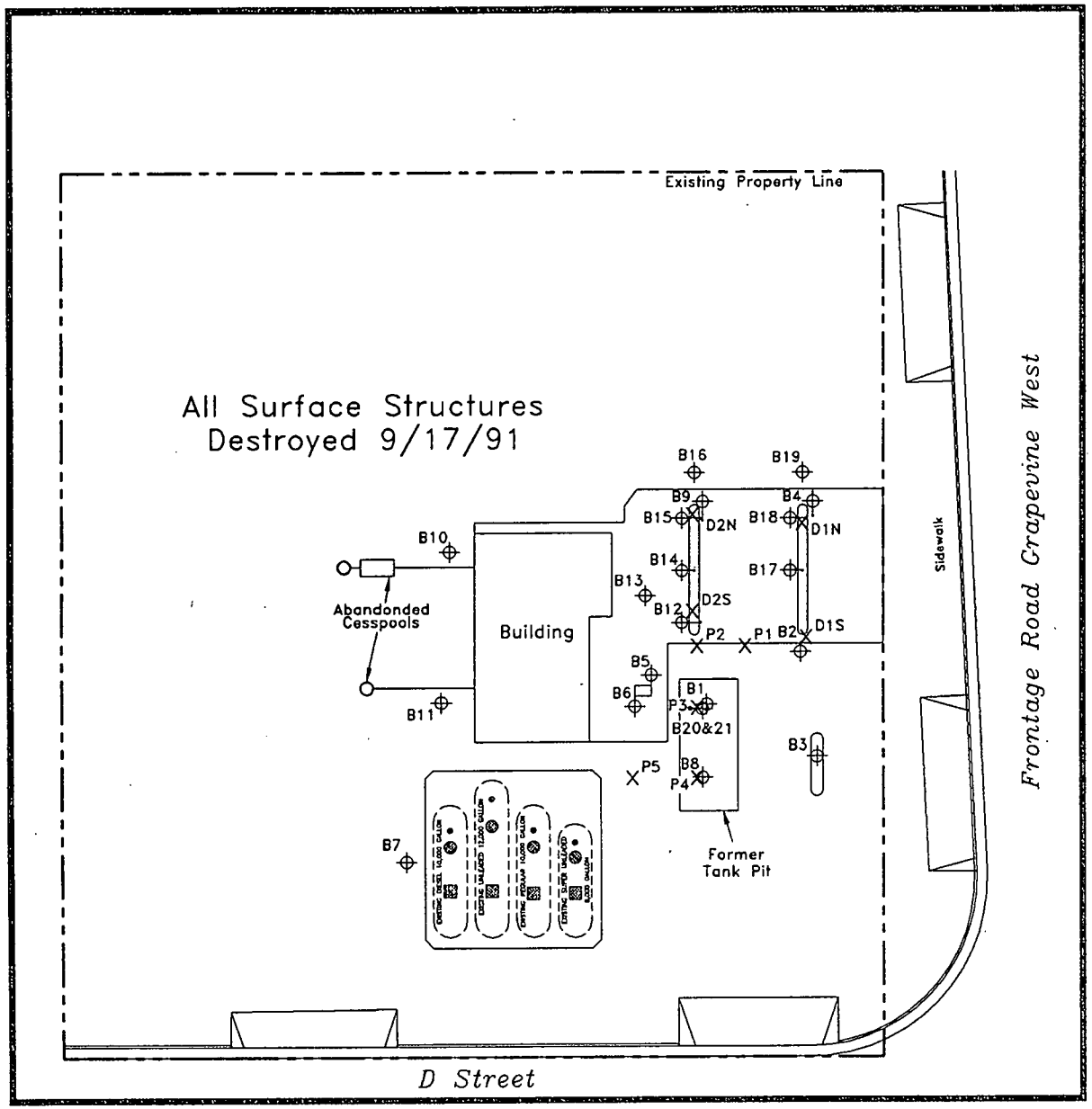
Ray Johnston,
Environmental Supervisor

cc: Chris Finberg
Gary Wing

Attachments

Table 1. Analytical results for piping and dispenser removal samples. Only samples which exceed method detection limits (MDL) are listed.

Sample #	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH as Gasoline
P3-2'	<0.005	<0.005	<0.005	0.030	12
P3-6'	<0.05	<0.05	0.70	29	1100
P3-12'	<0.05	<0.05	8.4	120	2300
P4-6'	<0.05	<0.05	0.26	13	750
P4-12'	<0.005	<0.005	<0.005	15	400



LEGEND

N

B10 ⊕ Boring Location

P1 X Grab Sample Location

SCALE:

30' 0 15' 30'

SITE: Grapevine Texaco			JOB #02250 1378
SITE LOC: Lebec, California			
MAP TYPE: Sampling Locations			
DRAWN BY: JDP	DATE: 9/91	APPROVED BY: JDP	DATE: 9/91

REV	REVISION	DATE	BY

FIGURE 1

GROUNDWATER TECHNOLOGY

Client Number: GTI78.TEX01
Project ID: Grapeline Texaco
Work Order Number: T1-09-392

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A*	3A*	4A
Client Identification		P3-2	P3-6	P3-12	P4-2
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/20/91	9/20/91	9/20/91	9/20/91
Date Analyzed		9/21/91	9/21/91	9/21/91	9/21/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.05	<0.05	<0.005
Toluene	0.005	<0.005	<0.05	<0.05	<0.005
Ethyl Benzene	0.005	<0.005	0.70	8.4	<0.005
Xylene (total)	0.015	0.030	29	120	<0.015
BTEX (total)	---	0.030	30	130	–
TPH as Gasoline	10	12	1100	2300	<10
Detection Limit Multiplier		1	10	10	1
Percent Solids, %		87.2	88.2	85.8	84.2

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.
b. Concentrations calculated on wet basis.
*. Detection limit raised due to dilution.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: GTI78.TEX01
Project ID: Grapeline Texaco
Work Order Number: T1-09-392

Table 1 Con't

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		5A*	6A		
Client Identification		P4-6	P4-10		
Date Sampled		9/18/91	9/18/91		
Date Extracted		9/20/91	9/20/91		
Date Analyzed		9/22/91	9/22/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.05	<0.005		
Toluene	0.005	<0.05	<0.005		
Ethyl Benzene	0.005	0.26	<0.005		
Xylene (total)	0.015	13	15		
BTEX (total)	—	13	15		
TPH as Gasoline	10	750	400		
Detection Limit Multiplier		10	1		
Percent Solids, %		85.4	85.6		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.
b. Concentrations calculated on wet basis.
*. Detection limit raised due to dilution.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		13A	14A		
Client Identification		P1-2	P1-6		
Date Sampled		9/18/91	9/18/91		
Date Extracted		9/23/91	9/23/91		
Date Analyzed		9/24/91	9/24/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005		
Toluene	0.005	<0.005	<0.005		
Ethylbenzene	0.005	<0.005	<0.005		
Xylene, total	0.015	<0.015	<0.015		
BTEX, total	–	–	–		
TPH as Gasoline	10	<10	<10		
Detection Limit Multiplier		1	1		
Percent Solids, %					

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		1A	2A	3A	4A
Client Identification		P2-2	P2-6	P5-2	P5-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/24/91	9/23/91	9/23/91	9/23/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %					

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		5A	6A	7A	8A
Client Identification		DIN-2	DIN-6	DIS-2	DIS-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/23/91	9/23/91	9/23/91	9/23/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %					

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: GTI78.TEX03
Project ID: Grapevine Texaco
Work Order Number: T1-09-391

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Soil

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		9A	10A	11A	12A
Client Identification		D2N-2	D2N-6	D2S-2	D2S-6
Date Sampled		9/18/91	9/18/91	9/18/91	9/18/91
Date Extracted		9/23/91	9/23/91	9/23/91	9/23/91
Date Analyzed		9/23/91	9/23/91	9/23/91	9/23/91
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent Solids, %					

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.
b. Concentrations calculated on wet basis.

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 1

ANALYTICAL RESULTS

Oil and Grease in Soil by Infrared
Modified EPA Method 3550/Standard Method 503B/EPA 413.2

Sample Identification		Date Sampled	Date Extracted	Date Analyzed	Concentration, mg/Kg[a]	Percent Solids, %
GTEL No.	Client ID					
1A	UO-2'	9/19/91	9/24/91	9/25/91	<5	
2A	UO-6'	9/19/91	9/24/91	9/25/91	9	

a. Method detection limit = 5 mg/Kg; analyte below this level would not be detected. Concentrations calculated on wet basis.

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 2
ANALYTICAL RESULTS
Halogenated Volatile Organics in Soil
EPA Method 8010[a]

GTEL Sample Number		1A	2A		
Client Identification		UO-2'	UO-6'		
Date Sampled		9/19/91	9/19/91		
Date Extracted		9/23/91	9/23/91		
Date Analyzed		9/24/91	9/24/91		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg[b]			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1.0	<1.0	<1.0		
Chloroethane	0.5	<0.5	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
trans-1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	<0.5	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1.0	<1.0	<1.0		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Detection Limit Multiplier		1	1		
Percent Solids, %		93.8	91.8		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample prepared by EPA Method 5030 (high-level solvent extraction and purge and trap).

b. Concentration calculated on wet basis.

Client Number: 022501378
Project ID: Grapevine Texaco
Work Order Number: T1-09-462

Table 3

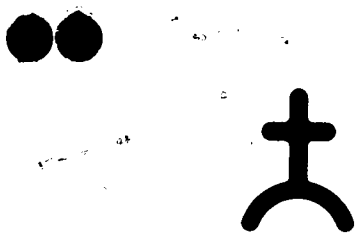
ANALYTICAL RESULTS

Total Lead in Soil by Flame AA
EPA Method 7420[a]

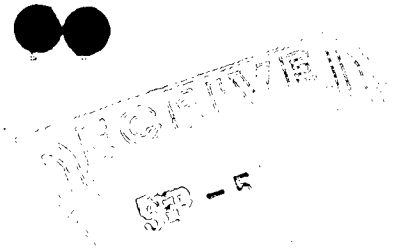
Sample Identification		Date Sampled	Date Extracted	Date Analyzed	Concentration, mg/kg[b]	Percent Solids, %
GTEL No.	Client ID					
1A	UO-2'	9/19/91	9/24/91	9/25/91	<5	87.2
2A	UO-6'	9/19/91	9/24/91	9/25/91	<5	88.0

a. Digested by EPA Method 3050

b. Method detection limit = 5 mg/kg; analyte below this level would not be detected. Concentrations calculated on wet basis.



TEJON RANCH
Since 1843



September 4, 1991

Ms. Flora Darling
County of Kern
Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, CA 93301

Re: Texaco Service Station
9069 Grapevine Road West
County Permit #330035

Dear Ms. Darling:

By letter dated August 27, 1991, the Environmental Health Services Department of the County of Kern informed Tejon Ranch Company that it is considered a party responsible for the clean up of certain hazardous materials which were released on the captioned property.

As mentioned during our September 3, 1991 telephone conversation, Texaco Inc. operates a service station on this site in accordance with the terms of a Ground Lease with Tejon. Tejon is the landlord and owns the demised premises as well as adjoining lands. Tejon is not invloved in the actual operation of the service station.

Under the terms of our lease with Texaco, the lessee is obligated to operate the facility in full compliance with all applicable laws and regulations and is responsible for indemnifying Tejon against any claims or causes of action which may result from Texaco's failure to operate in accordance with such regulations.

By letter of even date herewith, Tejon has reminded Texaco of its contractual obligations and has indicated that it expects Texaco to timely respond to the subject Notice and remedy the situation as rapidly as possible under the direct supervision of your department.

Should you not receive a timely and satisfactory response from Texaco, please so advise Tejon immediately.

Respectfully,

Jeffrey H. Warren
Vice President, Lands & Minerals

TEJON RANCH
Since 1843

SEP -5 1991

September 4, 1991

Mr. Doug Elston
Texaco Refining & Marketing, Inc.
10 Universal City Plaza, Suite 400
Universal City, CA 91608

Re: Notice of Unauthorized Release of Hazardous Materials
Texaco Service Station-Grapevine Interchange
County of Kern Permit #330035

Dear Mr. Elston:

By letter dated August 27, 1991, the Environmental Health Services Department of the County of Kern informed Tejon Ranch Company that it is a party responsible for the clean up of certain hazardous materials which were released on the captioned property.

Prior to the receipt of this letter, Tejon was not aware that an unauthorized release of such material had occurred. Although Texaco contends that the amount of soil contaminated by the hazardous material is minimal and that this is a routine notice in your business, Tejon remains skeptical about the severity of the problem.

As required by the terms of our Ground Lease, Tejon expects Texaco to operate its facility in compliance with all applicable laws, ordinances and regulations of governmental authorities having jurisdiction over the demised premises. Tejon also expects Texaco to indemnify and hold Tejon free and harmless from any all liability, claims, costs and causes of action arising out of the failure of Texaco to comply with all applicable governmental laws and regulations.

On behalf of Tejon and Texaco, please respond to the Notice dated August 27, 1991, in a complete and timely manner and copy Tejon on all correspondence sent to the County on this subject. Site remediation should be completed as rapidly as possible under the direct supervision of the Environmental Health Services Department.

Should you wish to discuss this matter in greater detail, please do not hesitate to contact Tejon.

Respectfully,

Jeffrey H. Warren
Vice President, Lands & Minerals

cc: ✓Ms. Flora Darling, Environmental Health Services Department, County of Kern

Mr. Ray Johnston, Texaco Refining & Marketing, Inc.-Los Angeles

Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

September 3, 1991

Subject: **Texaco Service Station**
9069 Grapevine Road West
Lebec, CA 93243
Permit #: 330035

Steve McCalley
Kern County Environmental
Health Services Department
2700 M Street, Suite 300
Bakersfield, CA 93301
Attn: Accounting-Local Agreement Option

Dear Mr. McCalley:

In response to your letter dated August 27, 1991, regarding the above subject site, enclosed please find check no. 012369 for $1,000.00 along with the County's Local Agreement Form.

If you have any questions, please call me at (818) 505-2139.

Very truly yours,

C. Ray Johnston

C. RAY JOHNSTON
Texaco Environmental Services

Enclosures

cc: Jeff Warren
Doug Elston

Kern County Environmental Health Services Department reserves the right to cancel this agreement at any time for any reasons, including groundwater contamination or a uniquely complex hydrogeological condition. If an unexpended balance remains on deposit from the responsible party under the terms of this agreement, a refund for the unexpended balance will be issued and the agreement terminated. Once the agreement is cancelled, you, as a responsible party, will be enrolled in the State Leaking Underground Storage Tank Pilot Program; see Attachment "D".

This agreement may be cancelled any time by either party by certified registered return receipt letter to the other party within five days of said notification.

I, Ray Johnston (responsible party), have read and agree to the conditions of this agreement for the contaminated site described as:

Site Name: Texaco Service Station

Site Address: 9069 Grapevine Road West

City Lebec, CA Zip 93243

Owner: Texaco Refining and Marketing Inc.

Owner's Address: 10 Universal City Plaza

City Universal City, CA Zip 91608-7812

Telephone (818) 505-2139

Operator: Steven Beagler

Telephone (805) 322-4774

Billing Address: Attn: Ray Johnston

10 Universal City Plaza, Suite 727

Universal City, CA 91608-7812

Permit # 330035

In order for this agreement to be executed, it must be signed and accompanied by the deposit of one-thousand dollars ($1000.00).

Responsible Party: Ray Johnston, Texaco Refining and Marketing Inc.

Date: 9/03/91

For the County of Kern: _____

Date: _____

POSTED

RESOURCE MANAGEMENT AGENCY

RANDALL L. ABBOTT
DIRECTOR

DAVID PRICE III
ASSISTANT DIRECTOR

Environmental Health Services Department
STEVE McCALLEY, REHS, DIRECTOR

Air Pollution Control District
WILLIAM J. RODDY, APCO

Planning & Development Services Department
TED JAMES, AICP, DIRECTOR

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

15

August 27, 1991

Ray Johnston
Texaco Refining and Marketing
10 Universal City Plaza
Universal City, CA 91608

SUBJECT: Location: 9069 Grapevine Road West
Lebec, CA 93243
Known as: Texaco
PERMIT #: 330035

P 767 340 596

Certified Mail Receipt
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

UNITED STATES POSTAL SERVICE

RAY JOHNSTON
TEXACO REFINING & MKT.
10 UNIVERSAL CITY PLAZA
UNIVERSAL CITY, CA 91608

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	$
Postmark or Date	8-27-91

PS Form 3800, June 1990

e to inform you that the property described above has been Environmental Health Services Department to be the site of azardous materials from an underground storage tank. This our records indicate that you are a responsible party for this

SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☒ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
RAY JOHNSTON
TEXACO REFINING & MKT.
10 UNIVERSAL CITY PLAZA
UNIVERSAL CITY, CA 91608

4. Article Number P-767-340-596

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery AUG 29 1991

8. Addressee's Address *(ONLY if requested and fee paid)*

POSTED

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

2700 "M" STREET, SUITE 300

(805) 861-3636
FAX: (805) 861-3429