

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Genesis Solar Energy Project
Ford Dry Lake Site
Riverside County, California



Prepared for

Genesis Solar, LLC

Prepared by



143 Union Boulevard, Suite 1010
Lakewood, CO 80228

August 2009



CONTENTS

EXECUTIVE SUMMARY	ES-1
1. INTRODUCTION.....	1-1
1.1 PURPOSE	1-1
1.2 LIMITING CONDITIONS AND METHODOLOGY USED	1-1
1.3 SIGNIFICANT ASSUMPTIONS	1-2
1.4 LIMITATIONS AND EXCEPTIONS	1-2
1.5 SPECIAL TERMS AND CONDITIONS	1-3
1.6 USER RELIANCE	1-3
2. PROJECT DESCRIPTION	2-1
2.1 LOCATION AND LEGAL DESCRIPTION OF PROPERTY	2-1
2.2 CHARACTERISTICS OF VICINITY AND PROPERTIES.....	2-2
2.3 CURRENT USES OF THE PROPERTY	2-2
2.4 CURRENT USE OF ADJOINING PROPERTIES.....	2-2
2.5 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS	2-2
2.6 USER PROVIDED INFORMATION.....	2-2
2.6.1 Title Records.....	2-3
2.6.2 Environmental Liens.....	2-3
2.6.3 Site Improvements	2-3
3. RECORDS REVIEW	3-1
3.1 REGULATORY AGENCY DATABASE SEARCH	3-1
3.1.1 National Priorities List (Superfund)	3-2
3.1.2 Comprehensive Environmental Response, Compensation, and Liability Information System.....	3-2
3.1.3 Resource Conservation and Recovery Act Corrective Action Reports	3-3
3.1.4 Resource Conservation and Recovery Act Non-Corrective Action Reports Treatment, Storage, and Disposal Facilities.....	3-3
3.1.5 Resource Conservation and Recovery Information System	3-3
3.1.6 Federal Emergency Response Notification System List.....	3-3
3.1.7 State Hazardous Waste List (State-Equivalent NPL and CERCLIS).....	3-3
3.1.8 Landfills and/or Solid Waste Disposal Sites.....	3-4
3.1.9 Leaking Underground Storage Tank Sites.....	3-4
3.1.10 Underground Storage Tank Sites.....	3-4
3.1.11 Above Ground Storage Tanks.....	3-4
3.1.12 Toxic Chemical Release Inventory System (TRIS).....	3-4
3.1.13 Orphan Sites.....	3-4
3.2 PHYSICAL SETTING DESCRIPTION AND SOURCES	3-5
3.3 HISTORICAL USE OF THE PROPERTY	3-5
3.4 HISTORICAL USE OF ADJOINING PROPERTIES.....	3-6
4. SITE INSPECTION	4-1

CONTENTS (Continued)

4.1	METHODOLOGY AND LIMITATIONS.....	4-1
4.2	SURFACE IRREGULARITIES	4-2
4.3	OUTLYING STRUCTURES.....	4-2
5.	RESULTS OF ASSESSMENT	5-1
5.1	HAZARDOUS SUBSTANCES IN CONNECTION WITH IDENTIFIED USES	5-1
5.2	OTHER IDENTIFIED CONTAINERS	5-1
5.3	STORAGE TANKS	5-1
5.4	INDICATIONS OF SOLID WASTE.....	5-1
5.5	BUSINESS ENVIRONMENTAL RISK	5-1
5.6	HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS.....	5-1
5.7	MATERIAL THREATS	5-1
6.	FINDINGS AND CONCLUSIONS.....	6-1
6.1	LIMITATIONS AND EXCEPTIONS OF ASSESSMENTS	6-1
7.	SIGNATURE OF ENVIRONMENTAL PROFESSIONALS	7-1
8.	CERTIFICATION.....	8-1
9.	REFERENCES	9-1

FIGURES

Figure 1 Location – Genesis Solar Energy Project

APPENDICES

Appendix A Aerial Photographs and Topographic Maps

Appendix B Regulatory Database Report and Historical

Appendix C Summary of Interviews

Appendix D Site Reconnaissance Photographs

Appendix E Credentials of Environmental Professionals

ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BLM	Bureau of Land Management
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CORRACTS	Corrective Action Reports
CST	concentrating solar thermal
EFS	Environmental First Search™
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
Genesis	Genesis Solar, LLC
LUST	Leaking underground storage tank
NE	Northeast
NFRAP	No Further Remedial Action Plan
NPL	National Priority List
NW	Northwest
NW/NE	Signifies the northwest quarter of the northeast quarter
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
REC	Recognized environment condition
ROW	right of way
SE	Southeast
SW	Southwest
TRIS	Toxic Chemical Release Inventory System
TSD	treatment, storage, and disposal
TtEC	Tetra Tech EC, Inc.
USGS	U.S. Geological Survey
UST	Underground storage tank
WW II	World War II

EXECUTIVE SUMMARY

Tetra Tech EC, Inc. (TtEC) conducted a Phase I Environmental Site Assessment (ESA) for Genesis Solar, LLC (Genesis) for the Genesis Solar Energy Project – Ford Dry Lake Site (also referred to herein as the Property or Subject Property). The Property is located on Bureau of Land Management (BLM) managed land in Riverside County, California, approximately 25 miles west of the town of Blythe. The purpose of the ESA was to collect and interpret readily available data to identify recognized environmental conditions (RECs), if any, associated with the Property in accordance with ASTM Standard E1527-05. The findings are summarized below.

The site reconnaissance and interviews for this ESA were conducted between November 2008 and July 2009. In addition, Environmental First Search™ (EFS) generated an environmental regulatory database report for the Property on July 8, 2009.

The Subject Property is undeveloped desert land with no improvements, and comprises the facility footprint and transmission interconnect for the proposed solar project. The Subject Property consists of approximately 1800 acres in the following sections of Township 6 south, Range 19 east of the 6th prime meridian:

- Section 4 – most of the southern ½
- Section 5 – most of the southeast ¼ and a portion of the southwest ¼
- Section 8 – most of the northeast ¼ and a portion of the northwest ¼
- Section 9 – the northern ½
- Section 10 – most of the section with the exception of a portion of the northern ½
- Section 11 – the western ½ of the southwestern ¼
- Section 14 – the northern ½ of the northwest ¼
- Section 15 – the northern ½ of the northern ½

In addition, a proposed transmission interconnect right of way (ROW) extends southeast from the project footprint across sections 14, 13, and 24 of Township 6 south, Range 19 east; and sections 19, 29, 30, and 32 of Township 6 south, Range 20 east.

No RECs were identified through completion of the Phase I ESA process.

1. INTRODUCTION

Tetra Tech EC, Inc. (TtEC) was retained by Genesis Solar, LLC to prepare this Phase I Environmental Site Assessment (ESA) for Genesis Solar, LLC (Genesis) for the Genesis Solar Energy Project – Ford Dry Lake Site (also referred to herein as the Property or Subject Property). Figure 1 shows the general location of the Property. This ESA covers the facility footprint and transmission interconnect.

TtEC prepared this report for the sole use of Genesis within the express limitations detailed in Sections 1.2 through 1.6 and Section 6.1. The format of this report is consistent with the recommended format in “Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process,” issued by American Society for Testing and Materials (ASTM) Standard E1527-05.

1.1 Purpose

Pursuant to the scope of work and the applicable ASTM standard, the purpose of this ESA is to identify Recognized Environmental Conditions (RECs) in connection with the Property. In defining a standard of good commercial and customary practices for conducting an ESA of a parcel of property, the goal of the process established by this practice is to identify “recognized environmental conditions.” As defined in Section 1.1.1 of ASTM Standard E1527-05, “a recognized environmental condition” is “the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the Property or into the ground, groundwater, or surface water of the Property.”

1.2 Limiting Conditions and Methodology Used

Charles Senz of TtEC performed this ESA under the direction of Andrew Brack, RG. The scope of services for this project was limited to the following tasks:

- Task 1 - Site Reconnaissance
- Task 2 - Interview of Knowledgeable Individual(s)
- Task 3 - Regulatory Agency Database Search
- Task 4 - Data Analysis and Report Preparation

The above tasks were accomplished in general accordance with ASTM Standard E1527-05. There may be environmental issues or conditions at the Property that parties may wish to assess in connection with commercial real estate that are outside the scope of this standard. According to Section 13.1.5 of ASTM E1527-05, the following list contains several non-scope considerations. This list is not all-inclusive and no implication is intended as to the relative importance of inquiry.

- Asbestos-containing material
- Radon
- Lead-based paint
- Lead in drinking water
- Wetlands
- Regulatory compliance
- Cultural and historic resources
- Industrial hygiene
- Health and safety
- Ecological resources
- Endangered species
- Indoor air quality
- High voltage power lines
- Soil sampling
- Groundwater sampling

1.3 Significant Assumptions

In the completion of this report, it was assumed that the information provided by knowledgeable individuals during interviews was truthful. Otherwise, there were no significant assumptions associated with this Phase I ESA.

1.4 Limitations and Exceptions

Limitations of this Phase I ESA include the following:

- A title search was not performed by TtEC.
- No environmental samples were collected.

1.5 Special Terms and Conditions

There are no special terms and conditions.

1.6 User Reliance

This report was prepared for the sole use of Genesis Solar, LLC. This report was prepared based on review of limited data, as described herein, in accordance with generally accepted professional practices, applicable to work of similar nature and complexity of similar localities, at the time the services were performed. No warranty, express or implied, is made. TtEC's services, and the resulting scope and conclusions of this report are in accordance with the criteria of ASTM practice E1527-05 governing Phase 1 Environmental Assessments. Tetra Tech EC assumes no responsibility for conditions of which it is unaware and/or as to which there was no opportunity or request for review.

2. PROJECT DESCRIPTION

Genesis is proposing to lease the Subject Property for the development and operation of two 125-MW concentrating solar thermal (CST) generating plants. The Property is entirely undeveloped and has no improvements. This ESA covers the facility footprint and transmission interconnect, as depicted in Figure 1.

2.1 Location and Legal Description of Property

The Subject Property is irregularly shaped and is entirely devoid of any roads or improvements. The proposed solar facility footprint is located approximately 3 miles north of U.S. Interstate 10, immediately to the north of the Ford Dry Lake bed. The Subject Property consists of approximately 1800 acres in the following sections of Township 6 south, Range 19 east of the 6th prime meridian:

- Section 4 – most of the southern ½
- Section 5 – most of the southeast ¼ and a portion of the southwest ¼
- Section 8 – most of the northeast ¼ and a portion of the northwest ¼
- Section 9 – the northern ½
- Section 10 – most of the section with the exception of a portion of the northern ½
- Section 11 – the western ½ of the southwestern ¼
- Section 14 – the northern ½ of the northwest ¼
- Section 15 – the northern ½ of the northern ½

In addition, a proposed transmission right of way (ROW) extends southeast from the project footprint across sections 14, 13, and 24 of Township 6 south, Range 19 east; and sections 19, 29, 30, and 32 of Township 6 south, Range 20 east.

Figure 1 depicts the location and configuration of the Subject Property. Aerial photographs and topographic maps of the Subject Property used in the assessment are provided in Appendices A and B.

2.2 Characteristics of Vicinity and Properties

The Ford Dry Lake project area is located within an arid playa and low dune desert environment. The playa is typically devoid of any vegetation and is at an elevation of 36 meters (120 feet) above sea level. The McCoy Mountains are to the east and the Palen Mountains are to the north/northwest of the project area. There are no roads or other improvements on the Subject Property. US Interstate 10 is located 3 miles to the south, and the nearest developed property is the Chuckwalla State Prison complex, located approximately 7 miles to the southeast.

2.3 Current Uses of the Property

The Subject Property is entirely undeveloped and unused. The proposed project will be located on public lands administered by the Bureau of Land Management (BLM) Palm Springs/South Coast Field Office.

2.4 Current Use of Adjoining Properties

Properties adjoining the Subject Property are entirely undeveloped. The project area is located within the Colorado Desert Region. This environment is characterized as an arid desert with northwest to southeast trending mountain ranges with large alluvium-filled basins. The Colorado Desert climate consists of dry, mild to hot winters and dry, hot summers. Annual precipitation is sparse and averages from 2 to 10 inches a year. The Colorado River is approximately 20 miles east of the project area, and is the largest and most reliable source of water in the area.

The project area is within the Ford Dry Lake region and features land surfaces such as dunes, minor and major washes, bajadas, desert pavement, and playas and alluvial aprons. Elevations within the area range from a high of 2,837 feet (McCoy Peak) above mean sea level (amsl) to a low of 335 feet amsl at the playa. The area is subject to wind erosion and seasonal flooding. Ford Dry Lake is a dry alkaline pan that only holds water during occasional flooding. Local soils in the area reflect the lithologies of the adjacent mountains.

2.5 Descriptions of Structures, Roads, and Other Improvements

There are no roads, structures, or other improvements on the Subject Property.

2.6 User Provided Information

In addition to information retrieved by TtEC, data were provided by Genesis. These data included a site plan and aerial photo of the Property.

2.6.1 Title Records

A title record search is not included in this Phase I ESA. The title search is typically conducted by a title company contracted directly to the buyer.

2.6.2 Environmental Liens

The search for environmental liens is conducted through a review of reasonably ascertainable recorded land title records, typically performed by a title company or title professional. A search for environmental liens was not part of this Phase I ESA process. The Subject Property is entirely owned by the federal government and is administered by the BLM.

2.6.3 Site Improvements

There are no site improvements.

3. RECORDS REVIEW

The records review section of the Phase I ESA included performing database searches and reviewing physical setting information and the historical uses of the Subject Property and adjoining properties. Interviews were also conducted with individuals having relevant knowledge of property use and environmental conditions. The Subject Property and all adjacent properties are owned by the federal government and administered by the BLM. Accordingly, the interview of knowledgeable BLM personnel serves as an interview of the owners of the Subject Property and adjacent properties. Interviews were conducted with the following individuals:

- Claude Kirby, BLM Senior Realty Specialist
- Jim Ray, Indio Area Supervisor – Riverside County Environmental Health Hazardous Waste Management Division

In addition, TtEC attempted contact with the following individuals, but did not receive responses:

- Sergeant EJ Adams – Riverside County Sheriff, Colorado River Station, Blythe
- Lieutenant Marl Kirkhoff – California Highway Patrol, Blythe

Summaries of these interviews are provided in Appendix E.

3.1 Regulatory Agency Database Search

A search of readily available federal, state, regional, and local agency database listings was conducted by Environmental First Search (EFS). The Subject Property was not identified on any databases and no nearby sites were identified within the ASTM-specified search radii. The database report is presented in Appendix B. EFS searched numerous government databases as described in detail in their report, including, but not limited to the following databases specified in Section 7.2.1 of ASTM E1527-05:

- Federal National Priorities List (NPL) within 1 mile
- Federal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) within 0.5 mile
- Federal CERCLIS No Further Remedial Action Plan (NFRAP) on property or adjoining properties

- Federal Resource Conservation and Recovery Act (RCRA) Corrective Action Reports (CORRACTS) within 1 mile
- RCRA Non-CORRACTS Treatment, Storage, and Disposal (TSD) facilities within one-half mile
- Federal RCRA generators list (Resource Conservation and Recovery Information System [RCRIS]) on the Properties and adjoining properties
- Federal Emergency Response Notification System (ERNS) list on the Properties
- State-equivalent NPL sites within 1 mile
- State-equivalent CERCLIS sites within one-half mile
- Solid waste landfills and/or solid waste disposal sites within one-half mile
- Leaking underground storage tanks (LUST) sites within one-half mile
- State-registered underground storage tanks (USTs) listed on the Properties and adjoining properties

3.1.1 National Priorities List (Superfund)

The NPL identifies federal Superfund sites with the highest priority for cleanup. ASTM Standard E1527-00 requires the identification of NPL sites within 1 mile of the Subject Property. There are no NPL sites identified within 1 mile of the boundaries of the Property, nor are any NPL sites located on the Property.

3.1.2 Comprehensive Environmental Response, Compensation, and Liability Information System

The CERCLIS list identifies sites that the U.S. Environmental Protection Agency (EPA) has investigated or is in the process of investigating for potential hazardous substance contamination. A CERCLIS site may or may not become a NPL site. The ASTM Standard E1527-05 requires the identification of CERCLIS sites within one-half mile of the Subject Property. The standard also requires the identification of CERCLIS NFRAP sites on a Property or adjoining properties. There are no CERCLIS sites identified within one-half mile of the boundaries of the Property, nor are there any CERCLIS NFRAP sites on the Property or adjoining properties.

3.1.3 Resource Conservation and Recovery Act Corrective Action Reports

The RCRA CORRACTS is used to track the status and filing of any corrective actions that have taken place at a facility. ASTM Standard E1527-05 requires the identification of RCRA CORRACTS facilities within 1 mile of the Subject Property. There are no RCRA CORRACTS sites within 1 mile of the Subject Property.

3.1.4 Resource Conservation and Recovery Act Non-Corrective Action Reports Treatment, Storage, and Disposal Facilities

The RCRA non-CORRACTS TSD facilities lists those facilities where treatment, storage, and/or disposal of hazardous wastes takes place and where corrective remedial action has not been required by EPA, as defined and regulated by RCRA. ASTM Standard E1527-05 requires the identification of RCRA non-CORRACTS TSD facilities within one-half mile of the Subject Property. There were no RCRA non-CORRACTS TSD facilities within one-half mile of the boundaries of the Property.

3.1.5 Resource Conservation and Recovery Information System

RCRIS includes information on facilities that generate, transport, store, treat, and/or dispose of hazardous wastes as defined and regulated by RCRA. ASTM Standard E1527-05 requires the identification of RCRIS facilities on or adjacent to the Subject Property. This information is found in the RCRIS database for large- and small-quantity RCRIS-TSD generators. There were no RCRIS-TSD facilities identified on or adjacent to the Property. There were no RCRA large-quantity generators or small-quantity generators located on or adjacent to the Subject Property.

3.1.6 Federal Emergency Response Notification System List

The federal ERNS list records and stores information on reported releases of oil and hazardous substances. ASTM Standard E1527-05 requires the identification of ERNS on the Subject Property. The Property was not listed on the ERNS list, nor were any ERNS sites identified on the adjacent properties.

3.1.7 State Hazardous Waste List (State-Equivalent NPL and CERCLIS)

ASTM Standard E1527-05 requires that state-equivalent NPL and CERCLIS sites be identified within 1 mile of the Subject Property. The Property was not listed on the State Hazardous Waste List, nor was any properties within the search radius located on this list.

3.1.8 Landfills and/or Solid Waste Disposal Sites

Landfills and/or solid waste disposal sites are those sites that used to accept or currently accept waste of any kind for disposal onsite. ASTM Standard E1527-05 requires the identification of these sites within one-half mile of the subject properties. No landfills and/or solid waste disposal sites were identified within one-half mile of the Subject Property.

3.1.9 Leaking Underground Storage Tank Sites

The CA SWRCB LUSTIS database provides information on reported LUST incidents in California. These data show those sites containing one or more USTs that have been identified as having leaked or are potentially leaking their contents to soil or groundwater. ASTM Standard E1527-05 requires the identification of LUST sites within ½ mile of the Subject Property. No LUST sites were identified within ½ mile of the Subject Property.

3.1.10 Underground Storage Tank Sites

The CA EPA County/City UST list identifies sites containing one or more USTs that have been identified as being located on the Properties. ASTM Standard E1527-05 requires the identification of USTs on the Subject Property or adjoining properties. No USTs were identified on the subject property or adjoining properties.

3.1.11 Above Ground Storage Tanks

No regulated above ground storage tanks (ASTs) were identified on the Subject Property.

3.1.12 Toxic Chemical Release Inventory System (TRIS)

TRIS identifies facilities that release toxic chemicals to the air, water, or land in reportable quantities under SARA Title III, Section 313. No TRIS sites were identified on or within the search distance for the Subject Property

3.1.13 Orphan Sites

Certain sites are listed in the record search as orphan sites and are not mapped in the database search because of inadequate information. "Orphan" or "unmappable" are terms used in the industry referring to sites with insufficient address information to plot on the radius map from EFS. These types of sites can show up in any of the databases searched for Phase 1 ESAs. Their appearance on a database means that the site or facility has been identified, but the exact location

from a mapping standpoint has not been verified. No orphan or unmapped sites are listed in the EFS report.

3.2 Physical Setting Description and Sources

In Section 3.3.26 of the ASTM Standard E1527-05, physical setting sources are defined as “information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a property.” Section 8.2.3 of that same standard requires that the current U.S. Geological Survey (USGS) 7.5-Minute Topographic Map (or equivalent) be reviewed, provided it is reasonably ascertainable. The Subject Property is within the 1978 Ford Dry Lake, Hopkins Well, and McCoy Spring quadrangles, which are provided in Appendices A and B.

The Subject Property is located within the Colorado Desert Region. This environment is characterized as an arid desert with northwest to southeast trending mountain ranges with large alluvium-filled basins. The Colorado Desert climate consists of dry, mild to hot winters and dry, hot summers. Annual precipitation is sparse and averages from 2 to 10 inches a year. The Colorado River is approximately 20 miles east of the project area, and is the largest and most reliable source of water in the area.

The project area is within the Ford Dry Lake region and features land surfaces such as dunes, minor and major washes, bajadas, desert pavement, and playas and alluvial aprons (Sharp 1954, 1972). Elevations within the area range from a high of 2,837 feet (McCoy Peak) above mean sea level (amsl) to a low of 335 feet amsl at the playa. The area is subject to wind erosion and seasonal flooding. Ford Dry Lake is a dry alkaline pan that only holds water during occasional flooding. Local soils in the area reflect the lithologies of the adjacent mountains. The McCoy Mountains are immediately east of the project area and support permanent springs (oases) in the canyons (e.g., McCoy Springs). The valley fill consist of mixed Quaternary alluvium on the terraces just above the flood plain of gravel, pebbles, and sand, to silt, and clay (Calzia 1979).

3.3 Historical Use of the Property

The historical uses of the Property were investigated through interviews, and review of historic topographic maps (1952 and 1983) and aerial photographs (2002 and 2009). In January 2009, TtEC produced a Class II Cultural Resources Survey for the Subject Property and surroundings (TtEC 2009). Information developed in the Class II Survey was reviewed in the preparation of this Phase I ESA.

Other historical sources such as street directories and Sanborn[®] maps and street directories were not available. While ASTM Standard E1527-05 does not provide specific interview questions,

Section X.3 of ASTM Standard E 1528-05, User Questionnaire, does. These questions were used as appropriate relative to the property's condition and history during the interviews, the summaries of which are included in Appendix C.

A review of the topographic maps provided no indication of any commercial, industrial, or agricultural land use. These maps showed no evidence of structures on the Subject Property. This is consistent with information obtained through the interviews. A 2002 aerial photo was obtained through the Terra Server[®] website (Appendix A). A more recent (2009) aerial photograph was obtained through Google Earth[™]. No indications of any use of the Subject Property were revealed through the review of these historical sources.

TtEC determined through the development of the Class II Cultural Resources Survey (TtEC 2009) that the project area was within General Patton's World War II (WWII) Desert Training Center, California-Arizona Maneuver Area region (1942 to 1944). At the onset of WW II, the United States began establishing standard divisional training centers and maneuver areas across the country. Specific environments were sought out for training areas to prepare troops for the realistic conditions of harsh environments, discomfort, and the hazards of overseas combat. The region surrounding the Project Area was considered a suitable location for training troops that would be deployed in the North Africa Campaign.

After 2 years in operation and the training of one million troops, the desert training camps were closed in 1944 following the allied victory in North Africa. After the camps closed, salvage efforts began and 1,300 Italian prisoners from Tunisia were employed to salvage material and dismantle the sites.

Due to the use of the Subject Property for military maneuvers, the potential exists for the presence of unexploded ordnance (UXO). During the site inspection activities, TtEC noted trash scatter with ration containers and military-issue utensils. In addition, one 50-caliber cartridge was retrieved. Prior to construction, it may be a prudent safety measure to conduct a stand-alone UXO screening of the Subject property.

3.4 Historical Use of Adjoining Properties

Historical use of adjoining properties is consistent with that of the Subject Property.

4. SITE INSPECTION

The objective of the site reconnaissance is to obtain information indicating the likely presence of RECs in connection with the Subject Property and to provide a description of the general site setting.

4.1 Methodology and Limitations

Various TtEC scientists and cultural resource specialists inspected the Subject Property on numerous occasions between November 2008 and June 2009. The subject property was scrutinized at a level of detail far exceeding what is normally experienced in a Phase I ESA for rural, undeveloped property. This is due to the fact that the studies included searches for evidence of desert tortoises, and numerous other vegetation and animal species, and cultural and archeological resources. These searches included scouring the property on a tight grid pattern.

Biology surveys were performed March 25 to May 31 2009, primarily to look for evidence of desert tortoises, and numerous other vegetation and animal species. At this time, the team walked 30 foot side belt transects and 30 foot wide zone of influence transects at 100, 300, 600, 1200, and 2400 feet away from the project boundaries on all sides. TtEC scientist Emily Festger led a field staff of 12 people during this effort.

Cultural surveys were conducted during the first two weeks of April 2009. TtEC archaeologists and cultural resource specialists (approximately eight persons at a time) looked for all evidence of cultural resources on the surface of the site. TtEC staff in the field included Jenna Farrell and John Fogerty. The team walked transects from east to west spaced 32 feet (10 meters) apart over the Subject Property. During the first two weeks in June 2009, TtEC cultural resource specialist John Fogerty and crew walked the transmission line corridor and inspected the 300 foot width along the line.

The reconnaissance was limited to features visible when the visit was conducted. Photographs are presented in Appendix D. Prior to the site visit, aerial photographs obtained on-line, cultural features maps, and historical topographic maps were studied to identify areas of land disturbance and anthropogenic features. Any changes to the Property after the reconnaissance dates are not included in this report.

4.2 Surface Irregularities

Evidence of human activity (i.e., surface scarring) identified through the review of aerial photographs and topographic maps were inspected on the ground during the site reconnaissance. No evidence of organized waste disposal was observed.

4.3 Outlying Structures

There are no structures on the Subject Property.

5. RESULTS OF ASSESSMENT

5.1 Hazardous Substances in Connection with Identified Uses

There is no evidence of any hazardous substances in association with the Subject Property.

5.2 Other Identified Containers

There were no observed containers containing hazardous or suspected hazardous wastes or substances identified on the Subject Property.

5.3 Storage Tanks

There are no storage tanks on the Subject Property.

5.4 Indications of Solid Waste

There were no observed indications of solid waste accumulations on the Subject Property.

5.5 Business Environmental Risk

Section 3.2.11 of ASTM Standard E1527-05 defines business environmental risk as “risk which can have a material, environmental, or environmentally-driven impact on the business associated with the current or planned use of a parcel ...” Given the nature of current and historic use of the Subject Property, it is unlikely that the Property poses a business environmental risk.

5.6 Historical Recognized Environmental Conditions

Section 3.2.74 of ASTM Standard E1527-05 defines historical recognized environmental conditions as an “environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.” An example of this is a UST site that has received a notice of “no further action” from the regulating body. No historical recognized environmental conditions were identified as being associated with the Subject Property.

5.7 Material Threats

Section 3.2.52 of ASTM Standard E1527-05 defines a material threat as a “physically observable or obvious threat, which is reasonably likely to lead to a release that, in the opinions of the

environmental professional, is threatening and might result in impact to public health or the environment.” At the time of the site reconnaissance, no material threats were observed.

6. FINDINGS AND CONCLUSIONS

The Subject Property is irregularly shaped and is entirely devoid of any roads or improvements. The proposed solar facility footprint is located approximately 3 miles north of U.S. Interstate 10, immediately to the north of the Ford Dry Lake bed. The Subject Property consists of approximately 1800 acres in the following sections of Township 6 south, Range 19 east of the 6th prime meridian:

- Section 4 – most of the southern ½
- Section 5 – most of the southeast ¼ and a portion of the southwest ¼
- Section 8 – most of the northeast ¼ and a portion of the northwest ¼
- Section 9 – the northern ½
- Section 10 – most of the section with the exception of a portion of the northern ½
- Section 11 – the western ½ of the southwestern ¼
- Section 14 – the northern ½ of the northwest ¼
- Section 15 – the northern ½ of the northern ½

In addition, a proposed transmission interconnect ROW extends southeast from the project footprint across sections 14, 13, and 24 of Township 6 south, Range 19 east; and sections 19, 29, 30, and 32 of Township 6 south, Range 20 east.

The property is entirely unoccupied, undeveloped and uncultivated. No RECs were identified through completion of the Phase I ESA process.

Due to the use of the use of the Subject Property for military maneuvers, the potential exists for the presence of UXO. Prior to construction, it may be a prudent safety measure to conduct a stand-alone UXO screening of the Subject property.

6.1 Limitations and Exceptions of Assessments

This report was prepared for the sole use of Genesis Solar, LLC. This report was prepared based on review of limited data, as described herein, in accordance with generally accepted professional practices, applicable to work of similar nature and complexity of similar localities, at the time the services were performed. No warranty, express or implied, is made. TtEC's services, and the resulting scope and conclusions of this report are in accordance with the criteria

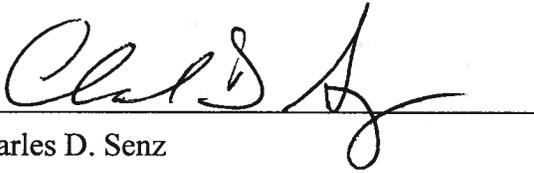
of ASTM practice E1527-05 governing Phase 1 Environmental Assessments. Tetra Tech EC assumes no responsibility for conditions of which it is unaware and/or as to which there was no opportunity or request for review.

It is important to recognize that even the most comprehensive scope of services may not detect all the environmental liabilities at a particular site. Therefore, nothing herein shall be construed as a representation or certification that the site is either fully characterized or is free of environmental impairments and/or contamination.

In order to conduct the investigation for this report, TtEC relied upon the readily available information, as discussed in the report and unless explicitly included in our scope included no verification of the accuracy or completeness of documentation or data or possible withholding of information by the interviewees, agencies, or other parties.

7. SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

Preparation of this report was conducted by the following TtEC personnel:



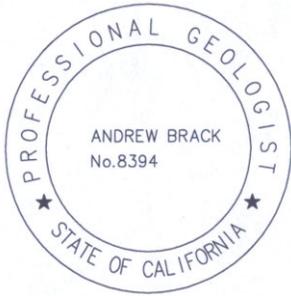
Charles D. Senz
Manager, Commercial Projects



Andrew Brack
Project Manager/California Professional Geologist #8394

8. CERTIFICATION

All geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Tetra Tech EC Inc. California Professional Geologist.



Date August 12, 2009

Andrew Brack, PG
California Professional Geologist #8394

A registered geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

9. REFERENCES

Calzia J.P.

1979 *Leaseable Mineral Resources of the CDCA*. USGS Conservation Division, Admin Report.

Sharp, R.P.

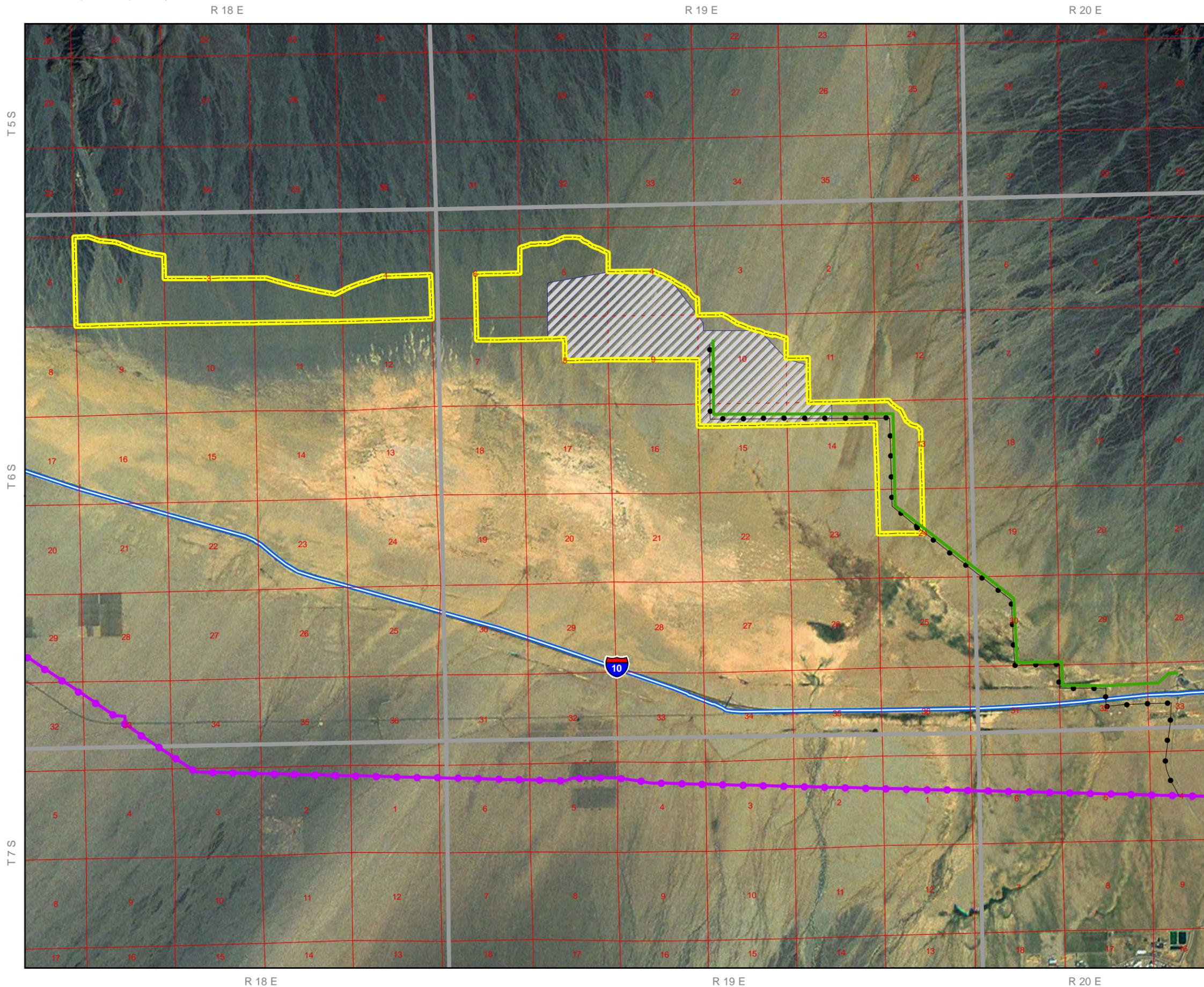
1954 Some Physiographic Aspects of Southern California. In *Geology of Southern California*, R.H. Jahns, ed. Sacramento: California Division of Mines Bulletin 170(V):5-10.

1972 *Geology Field Guide to Southern California*. Dubuque, Iowa: W.C. Brown Company.

Tetra Tech, Inc,

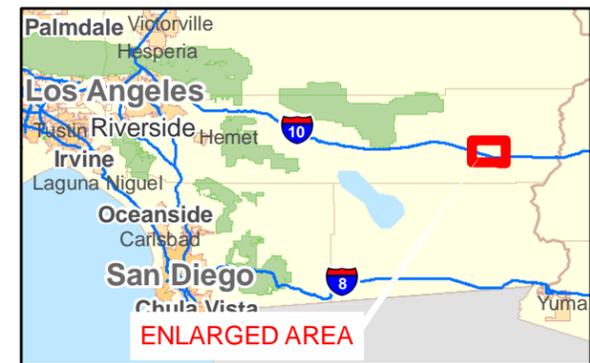
2009 Class II Cultural Resources Inventory for Proposed Project Genesis Ford Dry Lake Solar Project, Riverside County, California

FIGURES



NEXTERA ENERGY RESOURCES

**GENESIS SOLAR ENERGY PROJECT
 RIVERSIDE COUNTY,
 CALIFORNIA**



Legend

- Proposed Access
- Proposed Transmission Interconnect
- Blythe Energy Project Transmission Line
- Project Site
- Facility Footprint
- Township and Range Lines
- Section Lines

N

0 0.5 1 1.5 2
Miles

Notes:
 (a) UTM Zone 11, NAD 1983 Projection.
 (b) Source data: ESRI, BLM

**FIGURE 1 LOCATION
 GENESIS SOLAR ENERGY PROJECT**

Tt TETRA TECH EC, INC

APPENDIX A
Aerial Photographs and Topographic Maps

[Send To Printer](#)

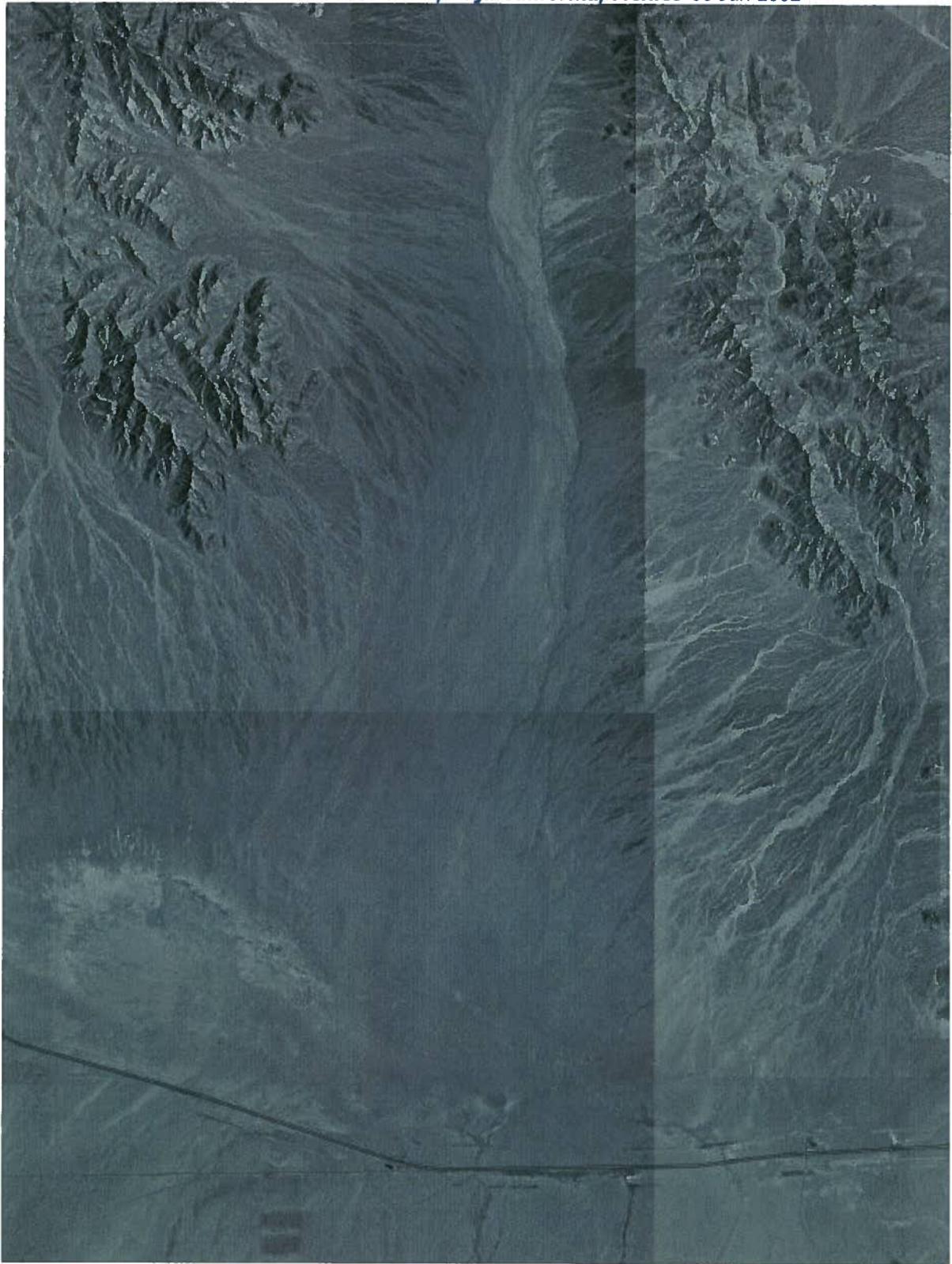
[Back To TerraServer](#)

[Change to 11x17 Print Size](#)

[Show Grid Lines](#)

[Change to Landscape](#)

USGS 123 km N of Mexicali, Baja California, Mexico 08 Jun 2002



0 4Km

0 2Mi

Image courtesy of the U.S. Geological Survey

© 2004 Microsoft Corporation. [Terms of Use](#) [Privacy Statement](#)



Image © 2009 DigitalGlobe
© USFWS
© 2009 Tele Atlas



Google

[Send To Printer](#)

[Back To TerraServer](#)

[Change to 11x17 Print Size](#)

[Show Grid Lines](#)

[Change to Portrait](#)

USGS 122 km NE of Mexicali, Baja California, Mexico 01 Jul 1981

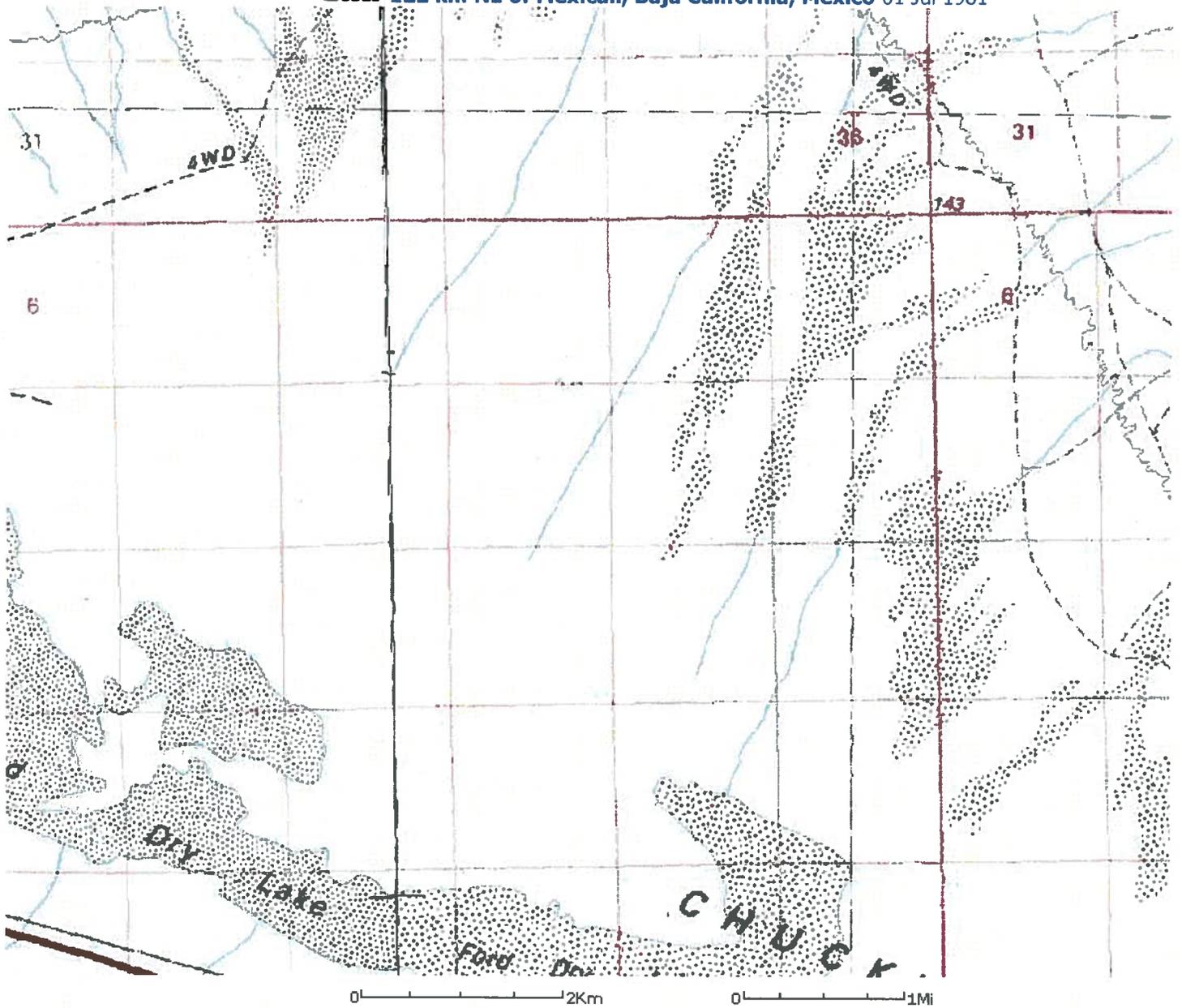


Image courtesy of the U.S. Geological Survey

© 2004 Microsoft Corporation.

[Terms of Use](#)

[Privacy Statement](#)

[Send To Printer](#)

[Back To TerraServer](#)

[Change to 11x17 Print Size](#)

[Show Grid Lines](#)

[Change to Landscape](#)

USGS 123 km N of Mexicali, Baja California, Mexico 01 Jul 1969

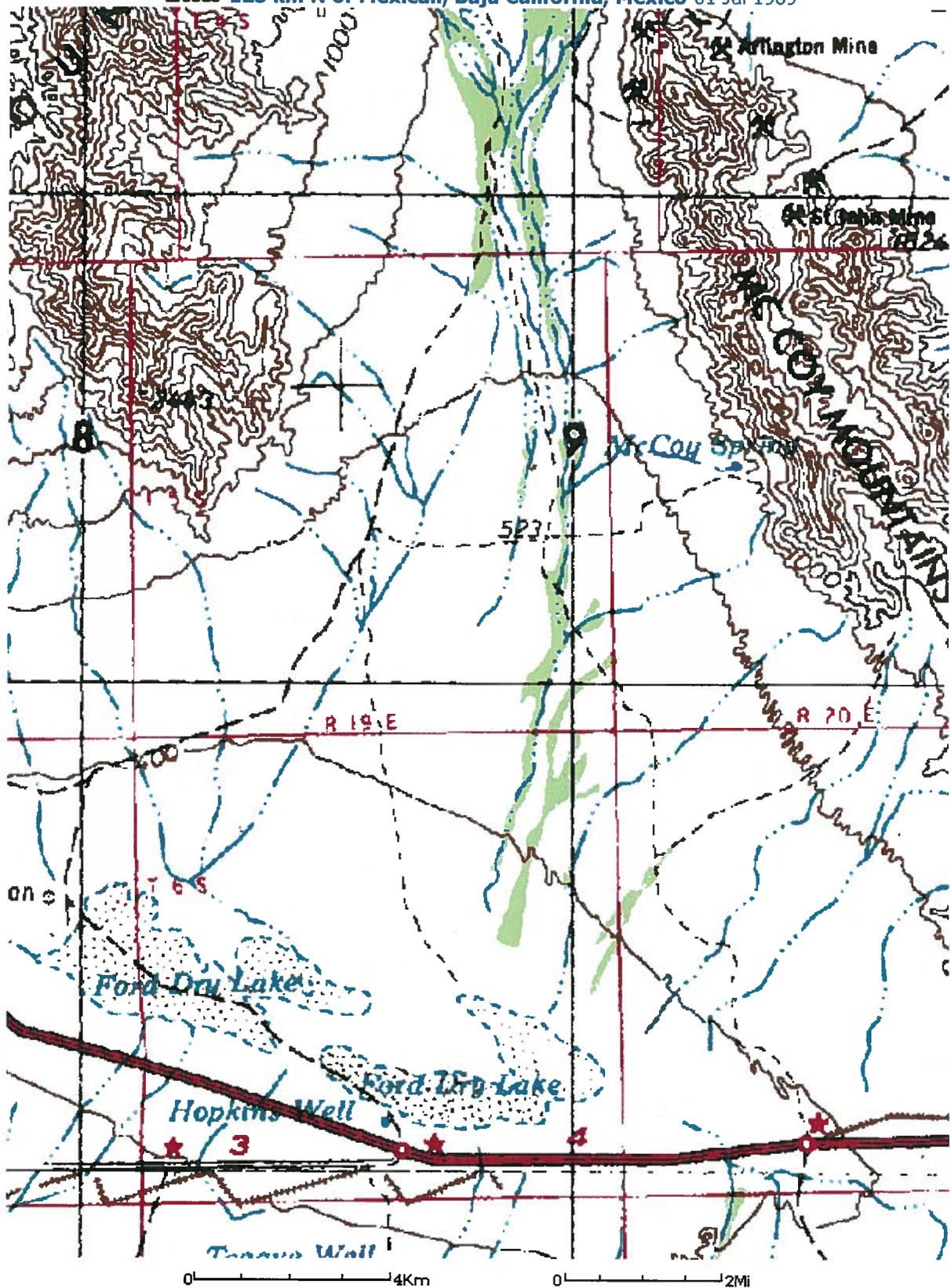


Image courtesy of the U.S. Geological Survey

© 2004 Microsoft Corporation. [Terms of Use](#) [Privacy Statement](#)

Send To Printer Back To TerraServer Change to 11x17 Print Size Show Grid Lines Change to Landscape

USGS 118 km N of Mexicali, Baja California, Mexico 01 Jul 1981

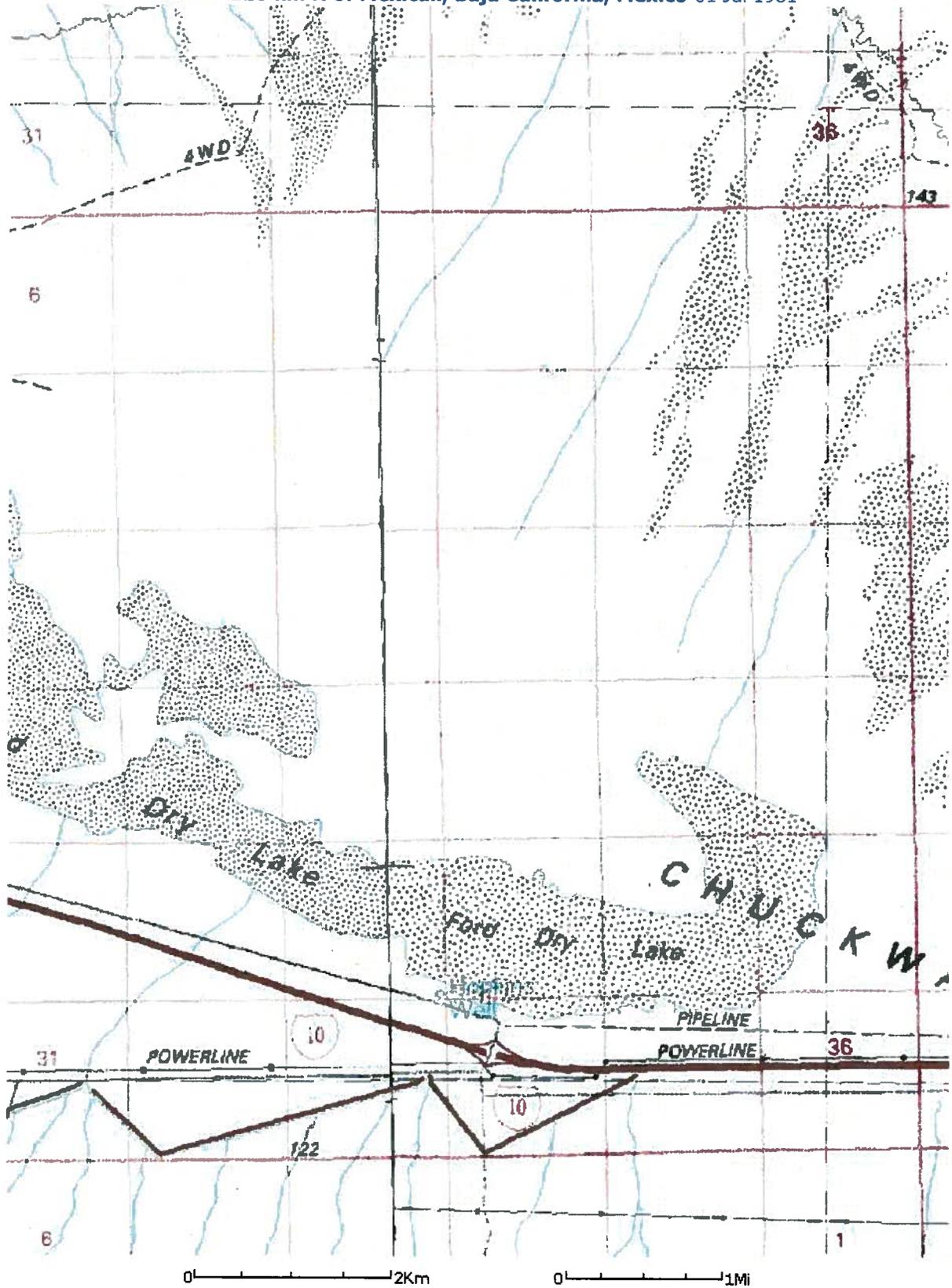


Image courtesy of the U.S. Geological Survey
© 2004 Microsoft Corporation. **Terms of Use** **Privacy Statement**

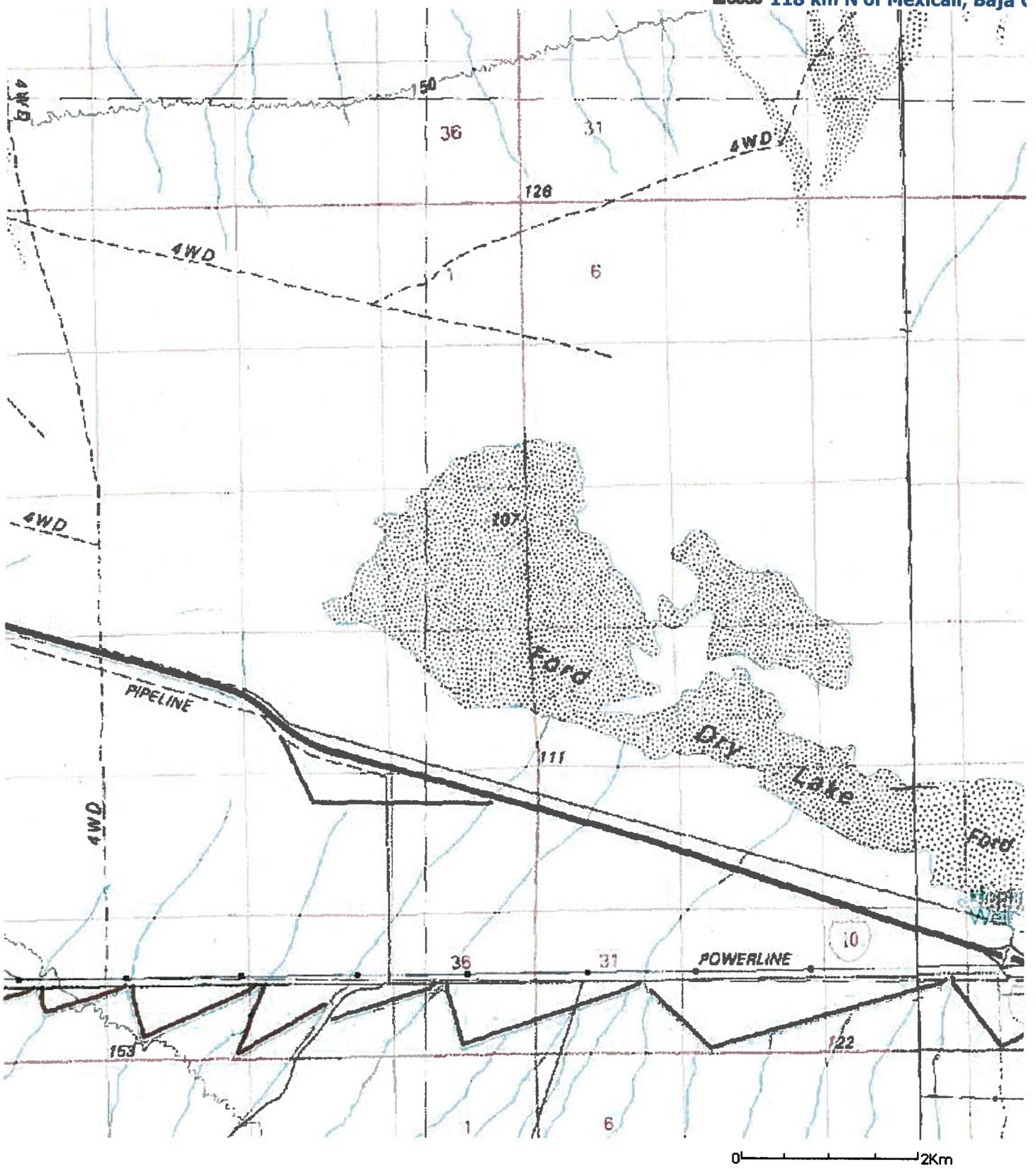


Image courtesy of the U.S.
 © 2004 Microsoft Corporation. **Tern**

APPENDIX B
Regulatory Database Report and Historical Data

InfoMap

Technologies Incorporated

Environmental FirstSearch™ Report

Property: Genesis Solar

INTERSTATE 10

BLYTHE CA 92225

Job Number: 106-3825 DWA04 005.05.C1

PREPARED FOR:

Tetra Tech EC, Inc

143 Union Boulevard, Suite 1010

Lakewood, CO 80228

by Satisfi, Inc

720-200-9472

07-08-09



Tel: (610) 430-7530

Fax: (610) 430-7535

***Environmental FirstSearch
Site Information Report***

Request Date: 07-08-09
Requestor Name: Satisfi
Standard: AAI

Search Type: AREA
 3.07 sq mile(s)
Job Number: 92225
Filtered Report

Target Site: INTERSTATE 10
 BLYTHE CA 92225

Demographics

Sites: 2	Non-Geocoded: 2	Population: NA
Radon: NA		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-114.962097	-114:57:44	Easting: 689017.695
Latitude:	33.634576	33:38:4	Northing: 3723308.819
Elevation:	N/A		Zone: 11

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)	Services:
--------------------------------------	------------------

<u>ZIP Code</u>	<u>City Name</u>	<u>ST</u>	<u>Dist/Dir</u>	<u>Sel</u>
92239	DESERT CENTER	CA	0.00 --	Y

	<u>Requested?</u>	<u>Date</u>
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

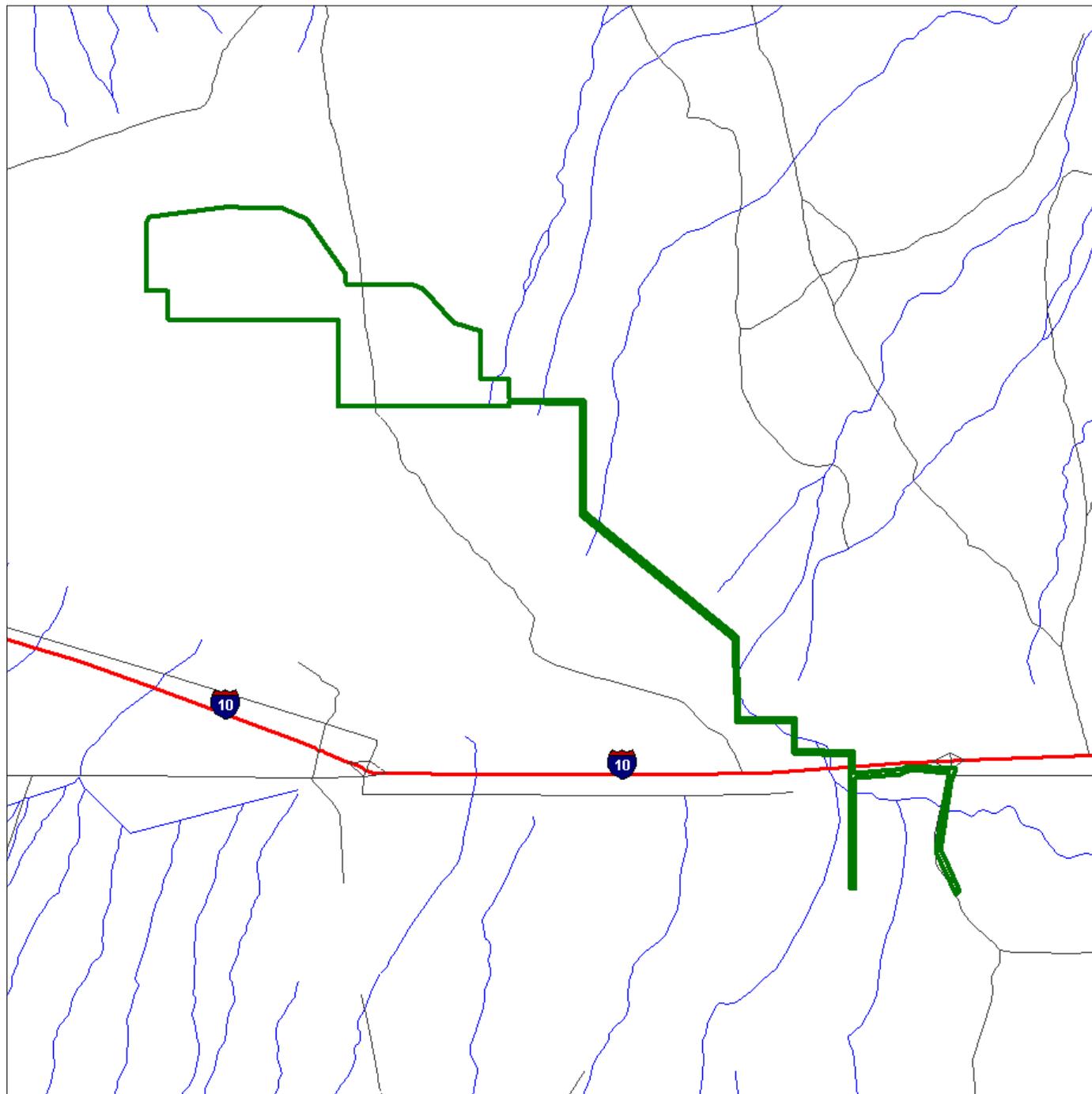


Environmental FirstSearch

1 Mile Radius from Area
Single Map:



INTERSTATE 10 , BLYTHE CA 92225



Source: 2005 U.S. Census TIGER Files

- | | |
|----------------------------------------------------------------------------|--|
| Area Polygon | |
| Identified Site, Multiple Sites, Receptor | |
| NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste | |
| Triballand..... | |
| Railroads | |

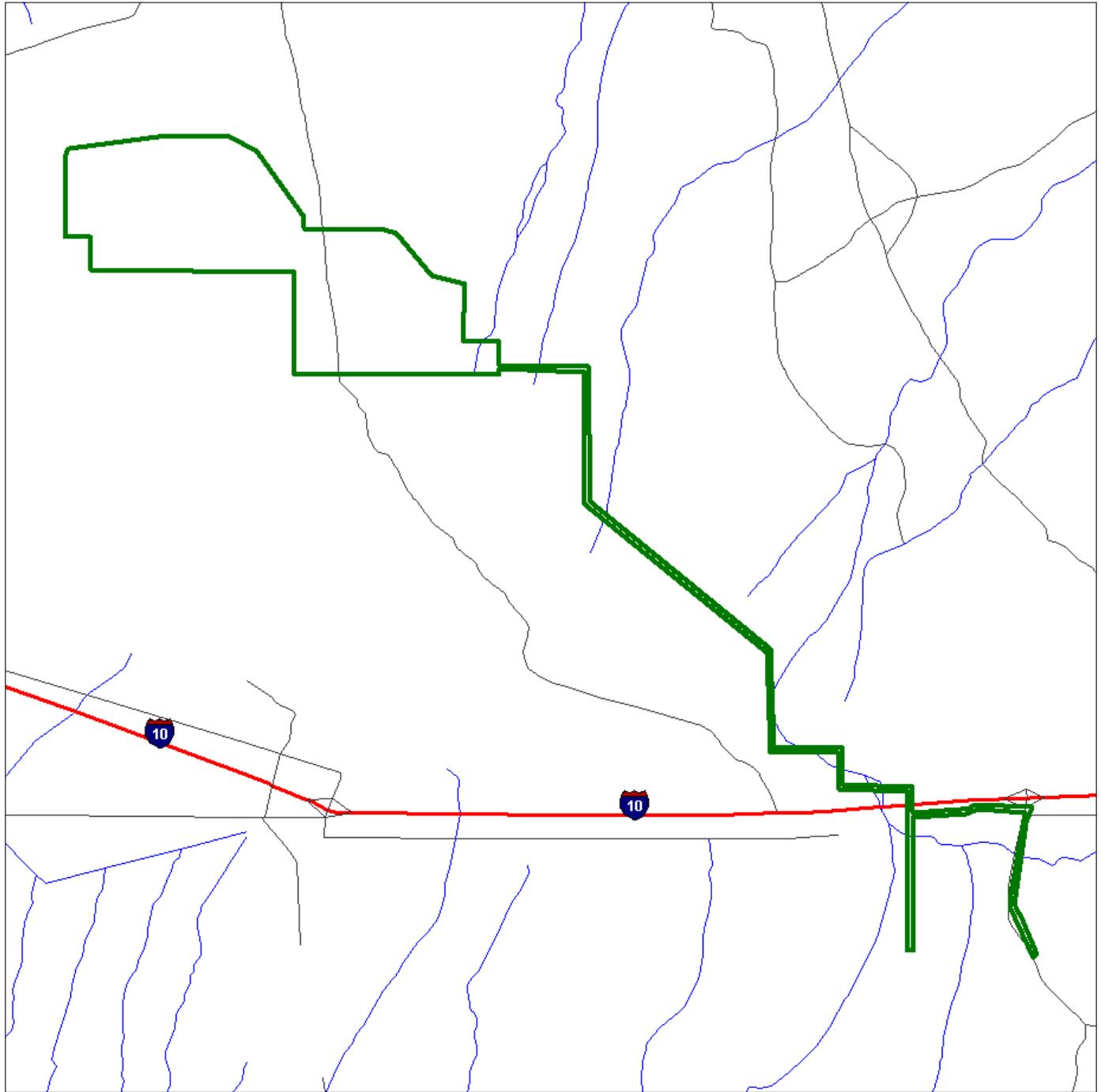


Environmental FirstSearch

.25 Mile Radius from Area
Single Map:



INTERSTATE 10 , BLYTHE CA 92225



Source: 2005 U.S. Census TIGER Files

Area Polygon	
Identified Site, Multiple Sites, Receptor	
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste	
Triballand.....	
Railroads	

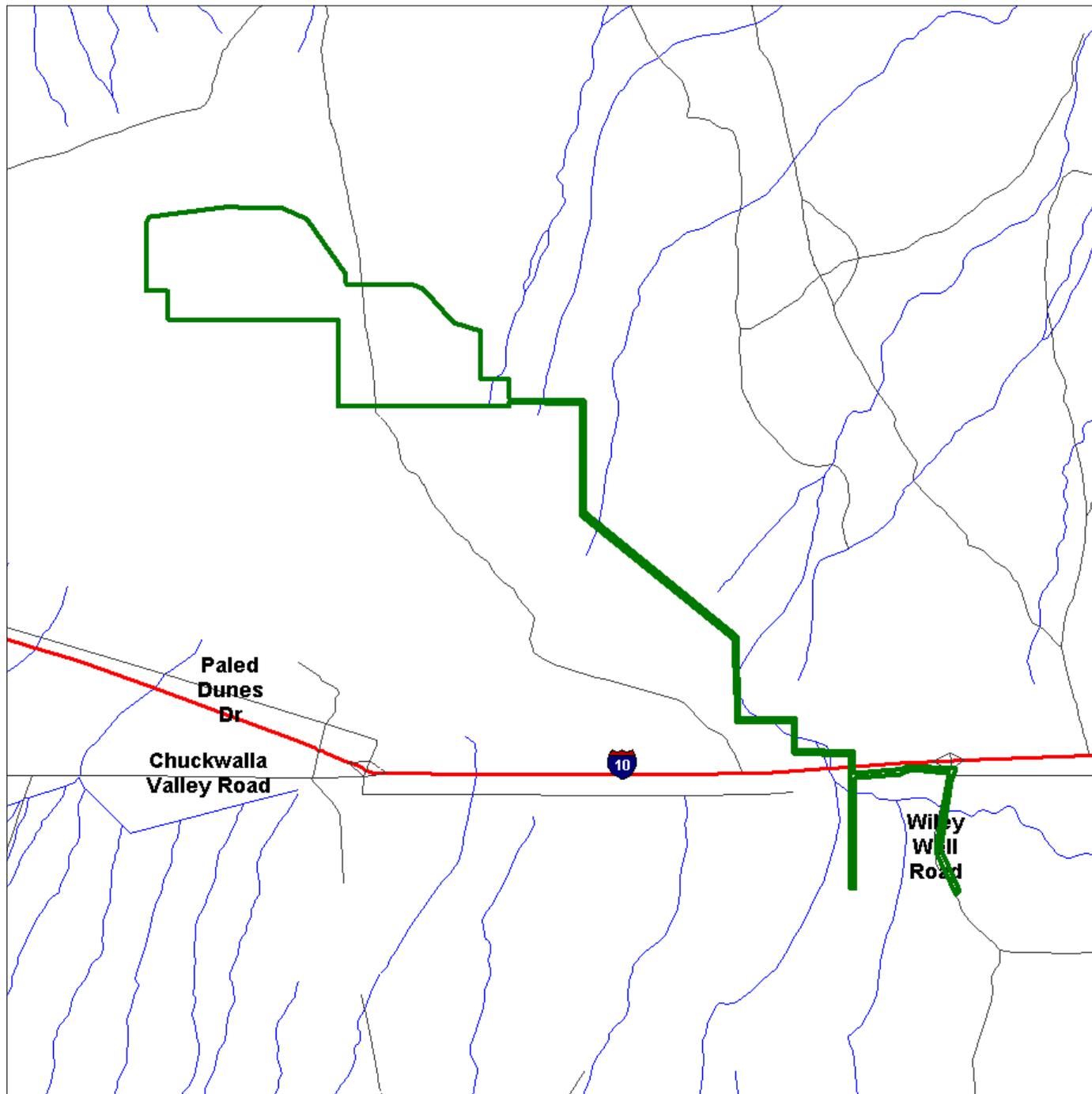


Environmental FirstSearch

1 Mile Radius from Area
Site Locus Map:



INTERSTATE 10 , BLYTHE CA 92225



Source: 2005 U.S. Census TIGER Files

Area Polygon	
Identified Site, Multiple Sites, Receptor	
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste	
Triballand.....	
Railroads	

Environmental FirstSearch Search Summary Report

Target Site: INTERSTATE 10
BLYTHE CA 92225

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	06-12-09	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	06-12-09	0.50	0	0	0	0	-	0	0
CERCLIS	Y	05-27-09	0.50	0	0	0	0	-	0	0
NFRAP	Y	05-27-09	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	05-13-09	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	05-13-09	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	05-13-09	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	05-13-09	0.12	0	0	-	-	-	0	0
Federal IC / EC	Y	07-02-09	0.50	0	0	0	0	-	0	0
ERNS	Y	06-16-09	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	0	0
State/Tribal Sites	Y	01-16-09	1.00	0	0	0	0	0	0	0
State Spills 90	Y	05-22-09	0.12	0	0	-	-	-	0	0
State/Tribal SWL	Y	04-27-09	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	04-28-09	0.50	0	0	0	0	-	1	1
State/Tribal UST/AST	Y	05-13-09	0.25	0	0	0	-	-	0	0
State/Tribal EC	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	05-13-09	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	01-16-09	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	08-08-07	0.50	0	0	0	0	-	0	0
State Permits	Y	04-16-08	0.12	0	0	-	-	-	1	1
State Other	Y	05-05-09	0.25	0	0	0	-	-	0	0
- TOTALS -				0	0	0	0	0	2	2

Notice of Disclaimer

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

Waiver of Liability

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

***Environmental FirstSearch
Sites Summary Report***

Target Property: INTERSTATE 10
BLYTHE CA 92225

JOB: 92225

TOTAL: 2 **GEOCODED:** 0 **NON GEOCODED:** 2 **SELECTED:** 2

Map ID	Dist/Dir	DB Type	Site Name/ID/Status	Address	ElevDiff	Page No.
<i>NON GC</i>	<i>LUST</i>		<i>FORD DRY LAKES JOJOBA T0606500784/COMPLETED - CASE CLO</i>	<i>CHUCKWALLA VALLEY ROAD BLYTHE CA 92225</i>	<i>N/A</i>	<i>1</i>
<i>NON GC</i>	<i>PERMITS</i>		<i>USDOE-WAPA BLYTHE SUBSTATION CAL000096586/ACTIVE</i>	<i>5 MI WEST OF BLYTHE ON BLYTHE CA 92225</i>	<i>N/A</i>	<i>3</i>

**Environmental FirstSearch
Site Detail Report**

Target Property: INTERSTATE 10
BLYTHE CA 92225

JOB: 92225

LUST

SEARCH ID: 2 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: FORD DRY LAKES JOJOBA	REV: 04/28/09
ADDRESS: CHUCKWALLA VALLEY ROAD	ID1: T0606500784
BLYTHE CA 92225	ID2:
RIVERSIDE	STATUS: COMPLETED - CASE CLOSED
CONTACT:	PHONE:
SOURCE: CA SWRCB	

RELEASE DATA FROM THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD LUSTIS DATABASE

Please note that some data previously provided by the State Water Resources Control Board in the LUSTIS database is not currently being provided by the agency in the most recent edition. Incidents that occurred after the year 2000 may not have much information. Field headers with blank information following after should be interpreted as unreported by the agency.

LEAD AGENCY: COLORADO RIVER BASIN RWQCB (REGION 7)
REGIONAL BOARD CASE NUMBER: 7T2225046
LOCAL AGENCY: RIVERSIDE COUNTY LOP
LOCAL CASE NUMBER:
RESPONSIBLE PARTY:
ADDRESS OF RESPONSIBLE PARTY:
SITE OPERATOR:
WATER SYSTEM:

CASE TYPE: LUST Cleanup Site
POTENTIAL CONTAMINANTS OF CONCERN: Diesel
POTENTIAL MEDIA AFFECTED: Soil
LEAK CAUSE:
LEAK SOURCE:
HOW LEAK WAS DISCOVERED:
DATE DISCOVERED (blank if not reported):
HOW LEAK WAS STOPPED:
STOP DATE (blank if not reported):
STATUS: Completed - Case Closed
STATUS DATE: 1996-10-10 00:00:00
ABATEMENT METHOD (please note that not all code translations have been provided by the reporting agency):
ENFORCEMENT TYPE (please note that not all code translations have been provided by the reporting agency):
DATE OF ENFORCEMENT (blank if not reported):
SITE HISTORY (blank if not reported):

ACTION TYPE (blank if not reported): Other
DATE (blank if not reported): 1950-01-01
ACTION (blank if not reported): Leak Discovery

ACTION TYPE (blank if not reported): Other
DATE (blank if not reported): 1950-01-01
ACTION (blank if not reported): Leak Reported

**Environmental FirstSearch
Site Detail Report**

Target Property: INTERSTATE 10
BLYTHE CA 92225

JOB: 92225

PERMITS

SEARCH ID: 1 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: USDOE-WAPA BLYTHE SUBSTATION	REV: 04/16/08
ADDRESS: 5 MI WEST OF BLYTHE ON BLYTHE CA 92225 Riverside	ID1: CAL000096586
CONTACT:	ID2:
SOURCE: CA DTSC	STATUS: ACTIVE
	PHONE:

**THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL HAZARDOUS WASTE MANIFEST INVENTORY (HWMI)
SITE INFORMATION FROM THE CA EPA AND DTSC HAZARDOUS WASTE TRACKING SYSTEM (HWTS) :**

Date Record was Created: 4/27/1993

Inactivity Date:

Facility Mail Name:

Facility Mailing Address: PO BOX 6457, PHOENIX, AZ 85005-6457

Owner Name: USDOE-WESTERN AREA POWER ADMIN

Owner Address: PO BOX 6457, PHOENIX, AZ 85005-6457

Contact Name: JOHN HOLT ENVIRONMENTAL MGR

Contact Address: PO BOX 6457, PHOENIX, AZ 85005-6457

Contact Phone: 6026052592

HWMI WASTE TYPE AND TONNAGE INFORMATION BY YEAR 1993-1999:

1999 Waste Type:
1999 Total Tonnage:
1998 Waste Type:
1998 Total Tonnage:
1997 Waste Type:
1997 Total Tonnage:
1996 Waste Type:
1996 Total Tonnage: 6.0114
1995 Waste Type:
1995 Total Tonnage:
1994 Waste Type:
1994 Total Tonnage:
1993 Waste Type:
1993 Total Tonnage:

HWMI WASTE TYPE AND TONNAGE INFORMATION BY YEAR 2000-2007:

2007 Waste Type:
2007 Total Tonnage:
2006 Waste Type:
2006 Total Tonnage:
2005 Waste Type:
2005 Total Tonnage:
2004 Waste Type:
2004 Total Tonnage:
2003 Waste Type:
2003 Total Tonnage:
2002 Waste Type:
2002 Total Tonnage:
2001 Waste Type:
2001 Total Tonnage:
2000 Waste Type: Polychlorinated biphenyls and material containing PCBs
2000 Total Tonnage: 15.63

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. 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.

DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). 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.

NFRAP – No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W – Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN – Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.

MASSACHUSETTS HAZARDOUS WASTE GENERATOR – database of generators that are regulated under the MA DEP.

VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.

SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.

LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

Federal IC / EC: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System

database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: CA EPA SMBRPD / CAL SITES- The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)
Please Note: FirstSearch Reports list the above sites as DB Type (STATE).
5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)
Please Note: FirstSearch Reports list the above sites as DB Type (OTHER).

Each Category contains information on properties based upon the type of work taking place at the site. For example, the CalSites database is now one of the six categories within SMPBRD and contains only confirmed sites considered as posing the greatest threat to the public and/or the potential public school sites will be found within the School Property Evaluation Program, and those properties undergoing voluntary investigation and/or cleanup are in the Voluntary Cleanup Program.

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

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

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

State Spills 90: CA EPA SLIC REGIONS 1 - 9- The California Regional Water Quality Control Boards maintain report of sites that have records of spills, leaks, investigation, and cleanups.

State/Tribal SWL: CA IWMB/SWRCB/COUNTY SWIS SOLID WASTE INFORMATION SYSTEM-The California Integrated Waste Management Board maintains a database on solid waste facilities, operations, and disposal sites throughout the state of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. For more information on individual sites call the number listed in the source field..

Please Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

WMUDS-The State Water Resources Control Board maintained the Waste Management Unit Database System (WMUDS). It is no longer updated. It tracked management units for several regulatory programs related to waste management and its potential impact on groundwater. Two of these programs (SWAT & TPCA) are no longer on-going regulatory programs as described below. Chapter 15 (SC15) is still an on-going regulatory program and information is updated periodically but not to the WMUDS database. The WMUDS System

contains information from the following agency databases: Facility, Waste Management Unit (WMU), Waste Discharger System (WDS), SWAT, Chapter 15, TPCA, RCRA, Inspections, Violations, and Enforcement's.

Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

ORANGE COUNTY LANDFILLS LIST- A list maintained by the Orange County Health Department.

State/Tribal LUST: CA SWRCB/COUNTY LUSTIS- The State Water Resources Control Board maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks. Information for this database is collected from the states regional boards quarterly and integrated with this database.

SAN DIEGO COUNTY LEAKING TANKS- The San Diego County Department of Environmental Health maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks within its HE17/58 database. For more information on a specific file call the HazMat Duty Specialist at phone number listed in the source information field.

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

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

INDIAN LANDS UNDERGROUND STORAGE TANKS LIST- A listing of underground storage tanks currently on Indian Lands under federal jurisdiction. California Indian Land USTS are administered by US EPA Region 9.

CUPA DATABASES & SOURCES- Definition of a CUPA: A Certified Unified Program Agency (CUPA) is a local agency that has been certified by the CAL EPA to implement six state environmental programs within the local agency's jurisdiction. These can be a county, city, or JPA (Joint Powers Authority). This program was established under the amendments to the California Health and Safety Code made by SB 1082 in 1994.

A Participating Agency (PA) is a local agency that has been designated by the local CUPA to administer one or more Unified Programs within their jurisdiction on behalf of the CUPA. A Designated Agency (DA) is an agency that has not been certified by the CUPA but is the responsible local agency that would implement the six unified programs until they are certified.

Please Note: Track Info Services, LLC collects and maintains information regarding Underground Storage Tanks from majority of the CUPAS and Participating Agencies in the State of California. These agencies typically do not maintain nor release such information on a uniform or consistent schedule; therefore, currency of the data may vary. Please look at the details on a specific site with a UST record in the First Search Report to determine the actual currency date of the record as provided by the relevant agency. Numerous efforts are made on a regular basis to obtain updated records.

State/Tribal IC: CA EPA DEED-RESTRICTED SITES LISTING- The California EPA's Department of Toxic Substances Control Board maintains a list of deed-restricted sites, properties where the DTSC has placed limits or requirements on the future use of the property due to varying levels of cleanup possible, practical or necessary at the site.

State/Tribal VCP: CA EPA SMBRPD / CAL SITES- The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances. The Voluntary Cleanup Program (VCP) category contains only those properties undergoing voluntary investigation and/or cleanup and which are listed in the Voluntary Cleanup Program.

Please Note: FirstSearch Reports list the above sites as DB Type VC.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

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

SAN BERNARDINO COUNTY HAZARDOUS MATERIALS PERMITS- Handlers and Generators Permit Information Maintained by the Hazardous Materials Division.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL HAZARDOUS WASTE MANIFEST INVENTORY-Records maintained by the CA DTSC of Hazardous Waste Manifests used to track and document the transport of hazardous waste from a generator's site to the site of its final disposition.

State Other: *CA EPA/COUNTY* SMBRPD / CAL SITES- The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)
5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)

Please Note: FirstSearch Reports list the above sites as DB Type (OTHER).

Each Category contains information on properties based upon the type of work taking place at the site. For example, the CalSites database is now one of the six categories within SMPBRD and contains only confirmed sites considered as posing the greatest threat to the public and/or the potential public school sites will be found within the School Property Evaluation Program, and those properties undergoing voluntary investigation and/or cleanup are in the Voluntary Cleanup Program. LA COUNTY SITE MITIGATION COMPLAINT CONTROL LOG- The County of Los Angeles Public Health Investigation Compliant Control Log.

ORANGE COUNTY INDUSTRIAL SITE CLEANUPS- List maintained by the Orange County Environmental Health Agency.

RIVERSIDE COUNTY WASTE GENERATORS-A list of facilities in Riverside County which generate hazardous waste.

SACRAMENTO COUNTY MASTER HAZMAT LIST-Master list of facilities within Sacramento County with potentially hazardous materials.

SACRAMENTO COUNTY TOXIC SITE CLEANUPS-A list of sites where unauthorized releases of potentially hazardous materials have occurred.

State Other: *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER - Database of 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 U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

Environmental FirstSearch Database Sources

NPL: *EPA* Environmental Protection Agency

Updated quarterly

NPL DELISTED: *EPA* Environmental Protection Agency

Updated quarterly

CERCLIS: *EPA* Environmental Protection Agency

Updated quarterly

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA TSD: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA GEN: *EPA/MA DEP/CT DEP* Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA NLR: *EPA* Environmental Protection Agency

Updated quarterly

Federal IC / EC: *EPA* Environmental Protection Agency

Updated quarterly

ERNS: *EPA/NRC* Environmental Protection Agency

Updated annually

Tribal Lands: *DOI/BIA* United States Department of the Interior

Updated annually

State/Tribal Sites: CA EPA The CAL EPA, Depart. Of Toxic Substances Control
Phone: (916) 323-3400

Updated quarterly/when available

State Spills 90: CA EPA The California State Water Resources Control Board

Updated when available

State/Tribal SWL: CA IWMB/SWRCB/COUNTY The California Integrated Waste Management Board
Phone:(916) 255-2331
The State Water Resources Control Board
Phone:(916) 227-4365
Orange County Health Department

Updated quarterly/when available

State/Tribal LUST: CA SWRCB/COUNTY The California State Water Resources Control Board
Phone:(916) 227-4416
San Diego County Department of Environmental Health

Updated quarterly/when available

State/Tribal UST/AST: CA EPA/COUNTY/CITY The State Water Resources Control Board
Phone:(916) 227-4364
CAL EPA Department of Toxic Substances Control
Phone:(916)227-4404
US EPA Region 9 Underground Storage Tank Program
Phone: (415) 972-3372

ALAMEDA COUNTY CUPAS:

- * County of Alameda Department of Environmental Health
- * Cities of Berkeley, Fremont, Hayward, Livermore / Pleasanton, Newark, Oakland, San Leandro, Union

ALPINE COUNTY CUPA:

- * Health Department (Only updated by agency sporadically)

AMADOR COUNTY CUPA:

- * County of Amador Environmental Health Department

BUTTE COUNTY CUPA

- * County of Butte Environmental Health Division (Only updated by agency biannually)

CALAVERAS COUNTY CUPA:

- * County of Calaveras Environmental Health Department

COLUSA COUNTY CUPA:

- * Environmental Health Dept.

CONTRA COSTA COUNTY CUPA:

- * Hazardous Materials Program

DEL NORTE COUNTY CUPA:

- * Department of Health and Social Services

EL DORADO COUNTY CUPAS:

- * County of El Dorado Environmental Health - Solid Waste Div (Only updated by agency annually)
- * County of El Dorado EMD Tahoe Division (Only updated by agency annually)

FRESNO COUNTY CUPA:

- * Haz. Mat and Solid Waste Programs

GLENN COUNTY CUPA:

- * Air Pollution Control District

HUMBOLDT COUNTY CUPA:

* Environmental Health Division
IMPERIAL COUNTY CUPA:
* Department of Planning and Building
INYO COUNTY CUPA:
* Environmental Health Department
KERN COUNTY CUPA:
* County of Kern Environmental Health Department
* City of Bakersfield Fire Department
KINGS COUNTY CUPA:
* Environmental Health Services
LAKE COUNTY CUPA:
* Division of Environmental Health
LASSEN COUNTY CUPA:
* Department of Agriculture
LOS ANGELES COUNTY CUPAS:
* County of Los Angeles Fire Department CUPA Data as maintained by the Los Angeles County Department of Public Works
* County of Los Angeles Environmental Programs Division
* Cities of Burbank, El Segundo, Glendale, Long Beach/Signal Hill, Los Angeles, Pasadena, Santa Fe Springs, Santa Monica, Torrance, Vernon
MADERA COUNTY CUPA:
* Environmental Health Department
MARIN COUNTY CUPA:
* County of Marin Office of Waste Management
* City of San Rafael Fire Department
MARIPOSA COUNTY CUPA:
* Health Department
MENDOCINO COUNTY CUPA:
* Environmental Health Department
MERCED COUNTY CUPA:
* Division of Environmental Health
MODOC COUNTY CUPA:
* Department of Agriculture
MONO COUNTY CUPA:
* Health Department
MONTEREY COUNTY CUPA:
* Environmental Health Division
NAPA COUNTY CUPA:
* Hazardous Materials Section
NEVADA COUNTY CUPA:
* Environmental Health Department
ORANGE COUNTY CUPAS:
* County of Orange Environmental Health Department
* Cities of Anaheim, Fullerton, Orange, Santa Ana
* County of Orange Environmental Health Department
PLACER COUNTY CUPAS:
* County of Placer Division of Environmental Health Field Office
* Tahoe City
* City of Roseville Roseville Fire Department
PLUMAS COUNTY CUPA:
* Environmental Health Department
RIVERSIDE COUNTY CUPA:
* Environmental Health Department
SACRAMENTO COUNTY CUPA:
* County Environmental Mgmt Dept, Haz. Mat. Div.
SAN BENITO COUNTY CUPA:
* City of Hollister Environmental Service Department
SAN BERNARDINO COUNTY CUPAS:
* County of San Bernardino Fire Department, Haz. Mat. Div.
* City of Hesperia Hesperia Fire Prevention Department

*City of Victorville Victorville Fire Department
 SAN DIEGO COUNTY CUPA:
 * The San Diego County Dept. of Environmental Health HE 17/58
 SAN FRANCISCO COUNTY CUPA:
 * Department of Public Health
 SAN JOAQUIN COUNTY CUPA:
 * Environmental Health Division
 SAN LUIS OBISPO COUNTY CUPAS:
 * County of San Luis Obispo Environmental Health Division
 * City of San Luis Obispo City Fire Department
 SAN MATEO COUNTY CUPA:
 * Environmental Health Department
 SANTA BARBARA COUNTY CUPA:
 * County Fire Dept Protective Services Division
 SANTA CLARA COUNTY CUPAS:
 * County of Santa Clara Hazardous Materials Compliance Division
 * Santa Clara County Central Fire Protection District (Covers Campbell, Cupertino, Los Gatos, & Morgan Hill)
 * Cities of Gilroy, Milpitas, Mountain View, Palo Alto, San Jose Fire, Santa Clara, Sunnyvale
 SANTA CRUZ COUNTY CUPA:
 * Environmental Health Department
 SHASTA COUNTY CUPA:
 * Environmental Health Department
 SIERRA COUNTY CUPA:
 * Health Department
 SISKIYOU COUNTY CUPA:
 * Environmental Health Department
 SONOMA COUNTY CUPAS:
 * County of Sonoma Department Of Environmental Health
 * Cities of Healdsburg / Sebastopol, Petaluma, Santa Rosa
 STANISLAUS COUNTY CUPA:
 * Department of Environmental Resources Haz. Mat. Division
 SUTTER COUNTY CUPA:
 * Department of Agriculture
 TEHAMA COUNTY CUPA:
 * Department of Environmental Health
 TRINITY COUNTY CUPA:
 * Department of Health
 TULARE COUNTY CUPA:
 * Environmental Health Department
 TUOLUMNE COUNTY CUPA:
 * Environmental Health
 VENTURA COUNTY CUPAS:
 * County of Ventura Environmental Health Division
 * Cities of Oxnard, Ventura
 YOLO COUNTY CUPA:
 * Environmental Health Department
 YUBA COUNTY CUPA:

Updated quarterly/annually/when available

State/Tribal IC: CA EPA The California EPA Department of Toxic Substances Control.

Updated Updated quarterly/annually/when available

State/Tribal VCP: CA EPA The California EPA Department of Toxic Substances Control.

Updated Updated quarterly/annually/when available

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

State Permits: *CA EPA/COUNTY* The San Diego County Depart. Of Environmental Health
Phone:(619) 338-2211
San Bernardino County Fire Department
Phone:(909) 387-3080
CAL EPA, Department of Toxic Substances Control

Updated quarterly/when available

State Other: *CA EPA/COUNTY* The CAL EPA, Depart. Of Toxic Substances Control
Phone: (916) 323-3400
The Los Angeles County Hazardous Materials Division
Phone: (323) 890-7806
Orange County Environmental Health Agency
Phone: (714) 834-3536
Riverside County Department of Environmental Health, Hazardous Materials Management Division
Phone:(951) 358-5055
Sacramento County Environmental Management Department

Updated quarterly/when available

State Other: *US DOJ* U.S. Department of Justice

Updated when available

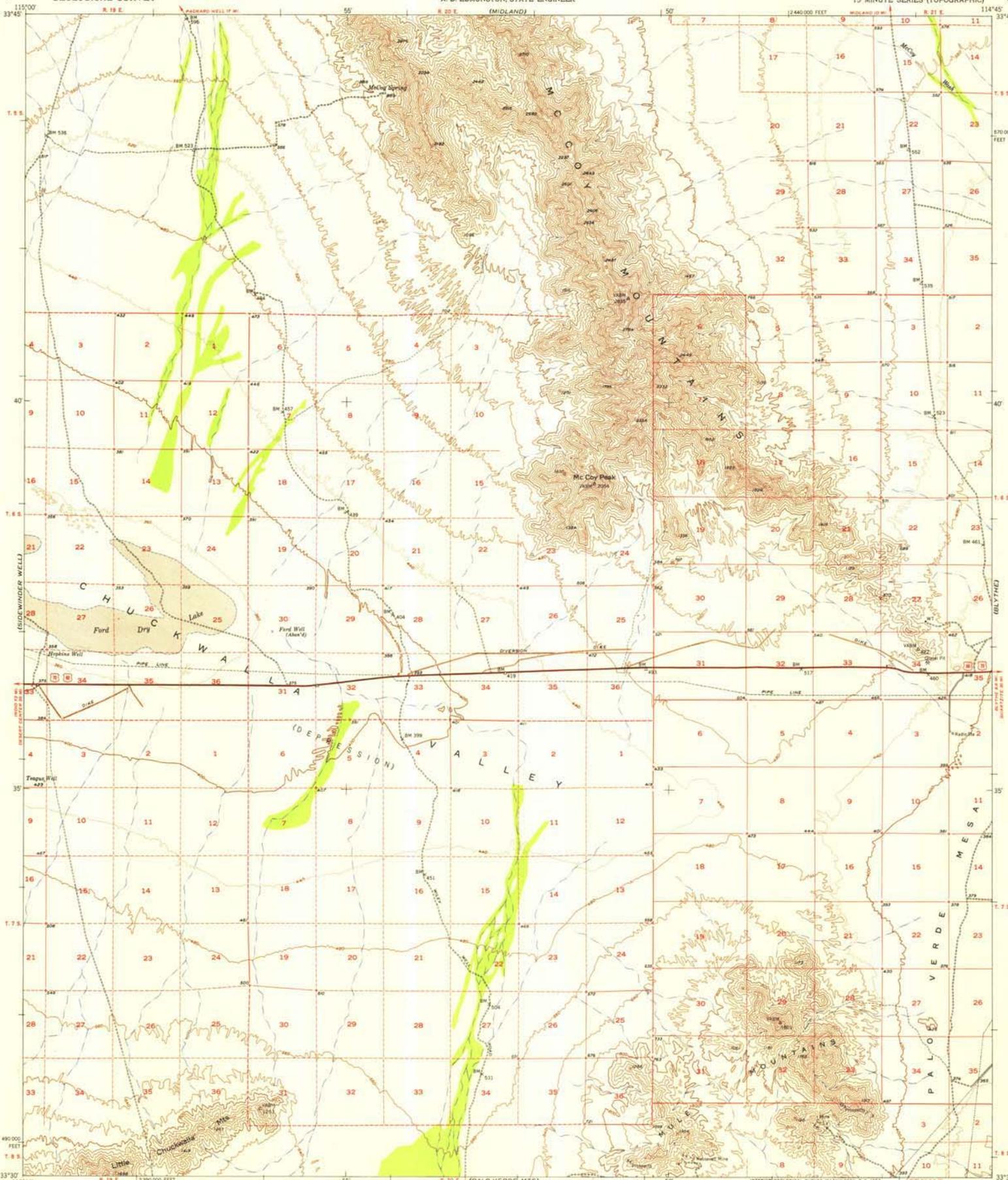
to file a storage statement and pay a fee by July 1, 1990 and every two years thereafter, take specific action to prevent spills, and in certain instances implement a groundwater monitoring program. This law does not apply to that portion of a tank facility associated with the production oil and regulated by the State Division of Oil and Gas of the Dept. of Conservation.

Environmental FirstSearch
Street Name Report for Streets within .5 Mile(s) of Target Property

Target Property: INTERSTATE 10
BLYTHE CA 92225

JOB: 92225

Street Name	Dist/Dir	Street Name	Dist/Dir
I-10	0.00 --		
Wiley Well Rd	0.00 --		

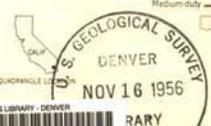


Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Topography by Metropolitan Water District of Southern California,
and by photogrammetric methods and plane-table surveys
by USGS 1952. Aerial photographs taken 1948
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 6.
Dashed land lines indicate approximate locations.



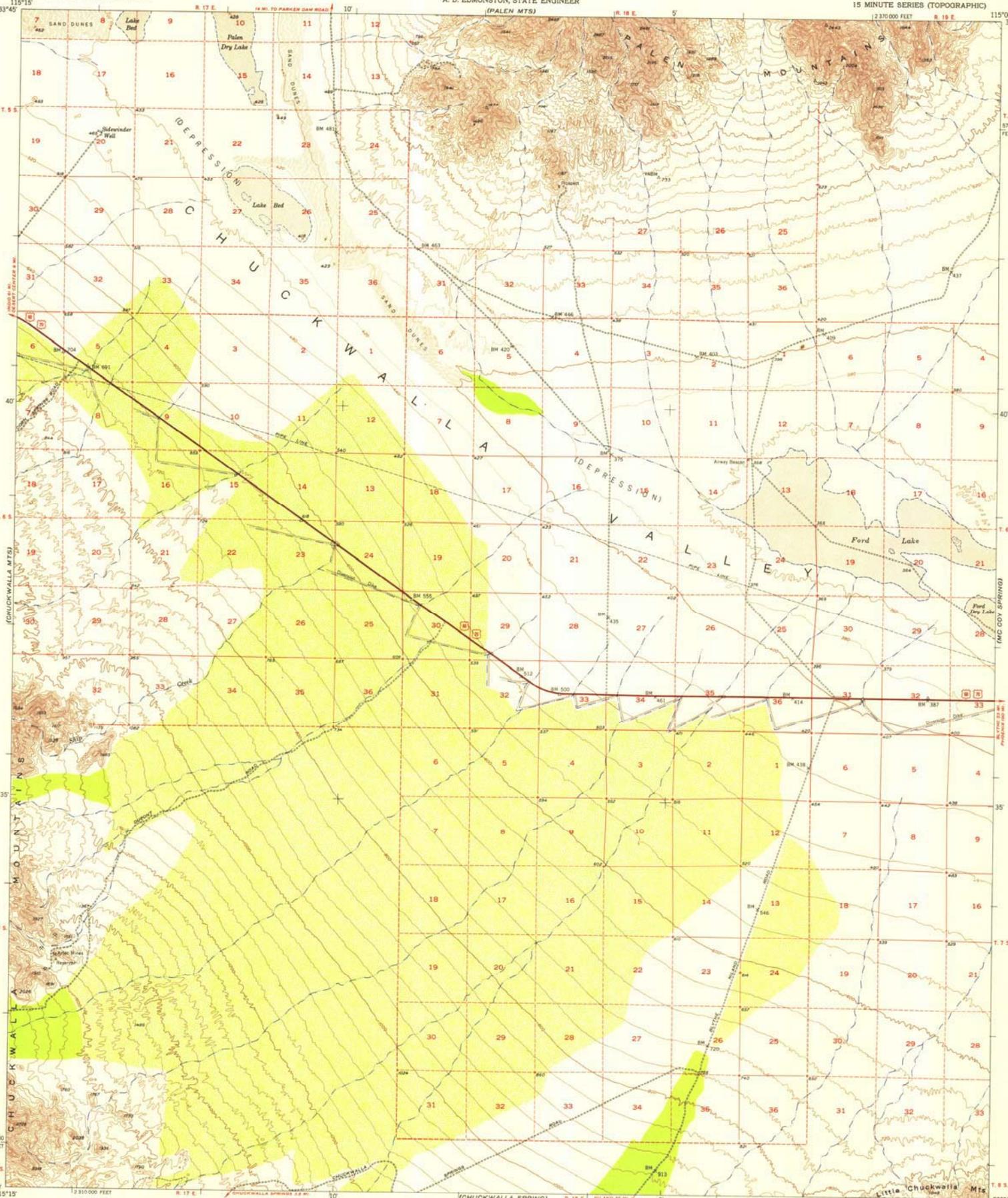
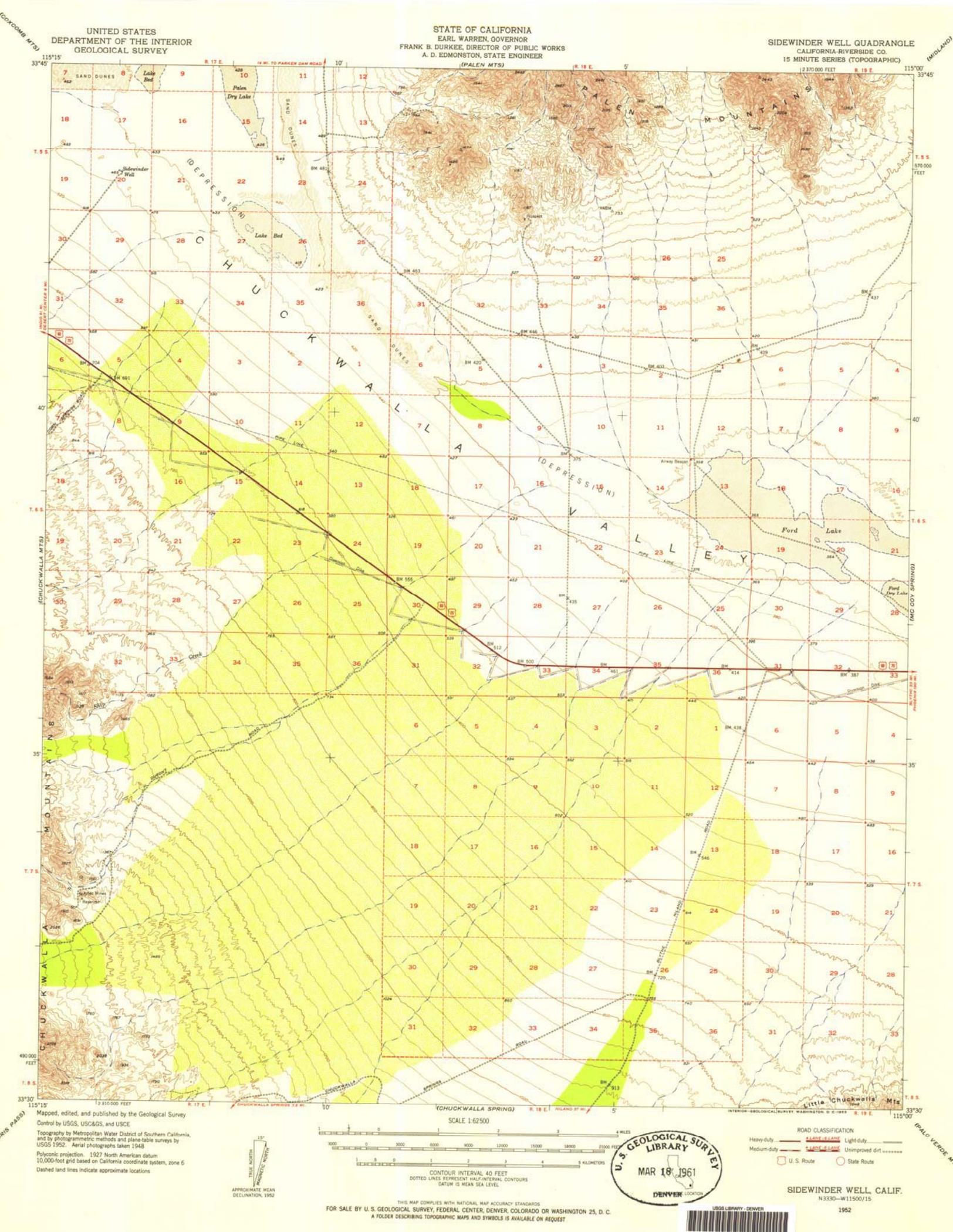
ROAD CLASSIFICATION
Heavy-duty ———— 2-LANE ROAD Light-duty ————
Medium-duty ———— 1-LANE ROAD Unimproved dirt ————
U. S. Route ———— State Route ————

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

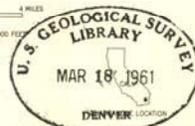
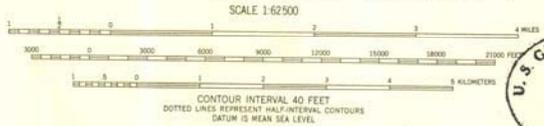


MC COY SPRING, CALIF.
N3330-W1445/15
1952





Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Topography by Metropolitan Water District of Southern California,
and by photogrammetric methods and plane-table surveys by
USGS 1952. Aerial photographs taken 1949.
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 6
Dashed land lines indicate approximate locations



ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

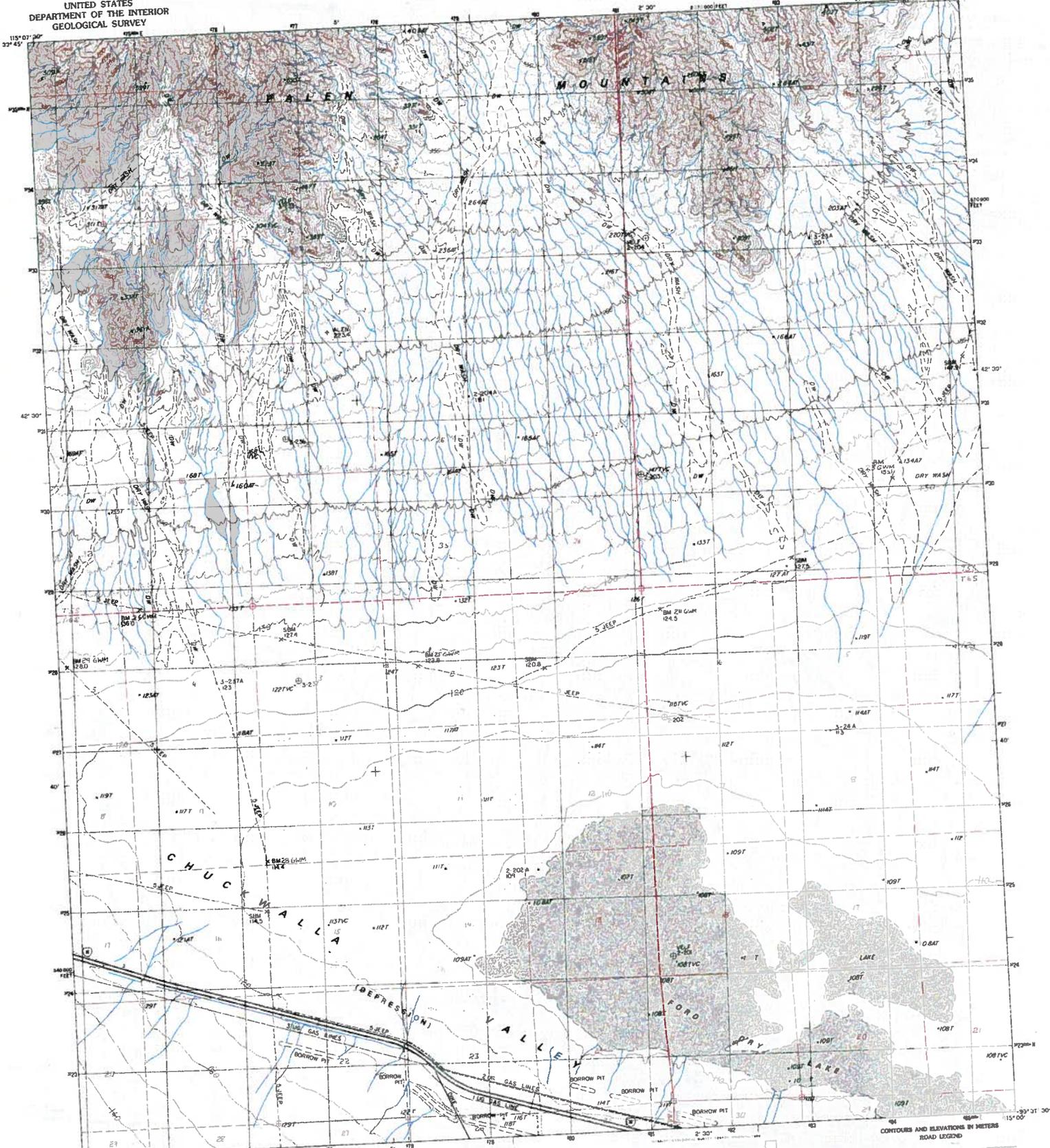
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SIDEWINDER WELL, CALIF.
N3330-W11500/15
1952



FORD DRY LAKE QUADRANGLE
CALIFORNIA—RIVERSIDE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

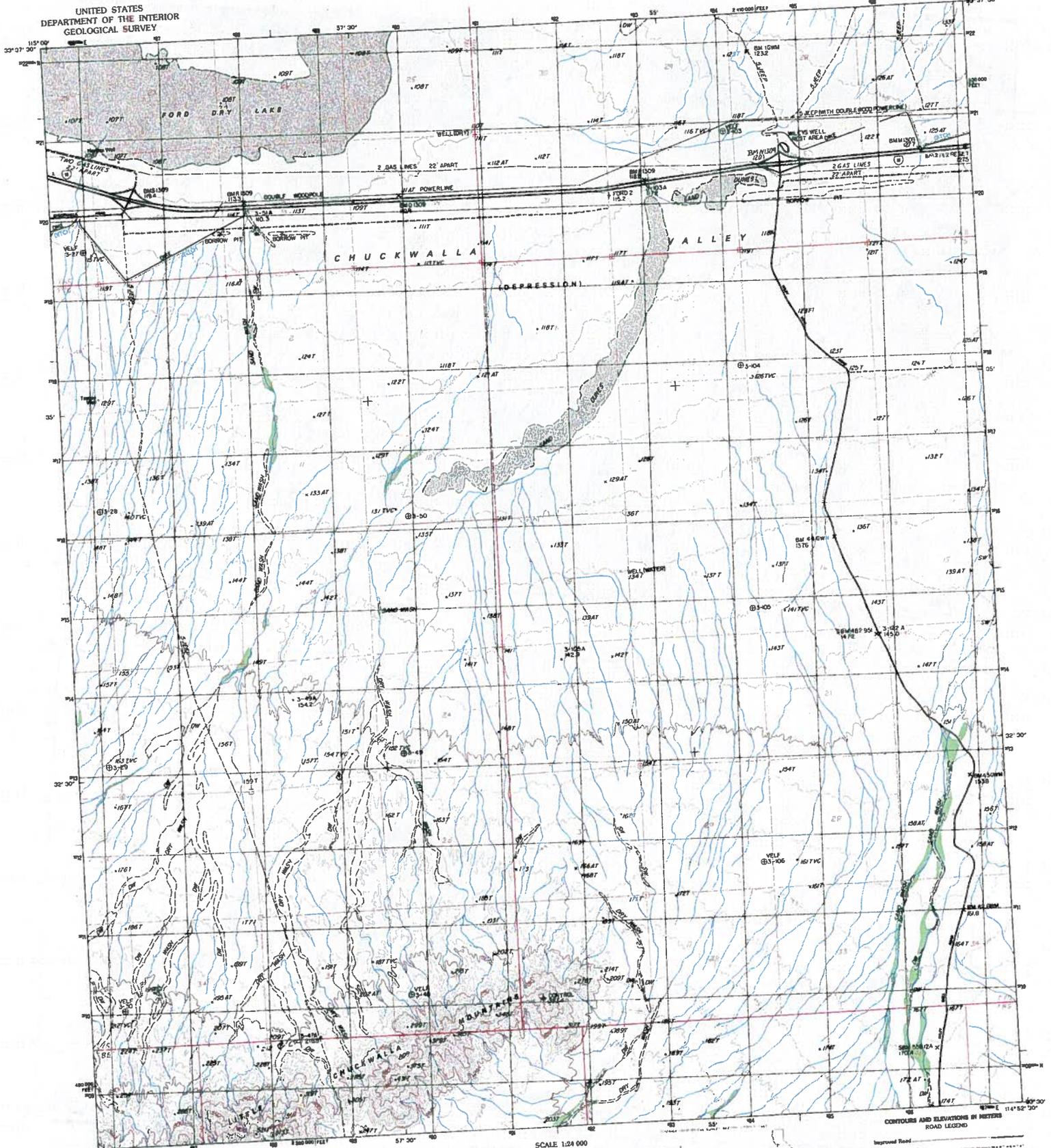
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROLS BY U.S. NATIONAL GEODETIC SURVEY
CORRECTED FROM AERIAL PHOTOGRAPHS TAKEN 1957
FROM MAP SHEETS 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 29

HOPKINS WELL QUADRANGLE
CALIFORNIA—RIVERSIDE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



CONTOURS AND ELEVATIONS IN METERS
ROAD LEGEND

Improved Road
Unimproved Road
Trail
Incorporated Route U.S. Route State Route

Symbol	Description
1	Ford Dry Lake
2	Chuckwalla Valley
3	Chuckwalla Mountains
4	Chuckwalla
5	Chuckwalla
6	Chuckwalla

PROVISIONAL MAP
Produced from original
manuscript drawings. Information
shown as of date of
field check.

CONTOUR INTERVAL 10 METERS
SUPPLEMENTARY CONTOUR INTERVAL 5 METERS
CONTOUR ELEVATIONS GIVEN TO THE NEAREST 5 METERS
OTHER ELEVATIONS GIVEN TO THE NEAREST METERS
To convert meters to feet multiply by 3.2808
THIS MAP COMPLETES NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80215 OR RESTON, VIRGINIA 22092

HOPKINS WELL, CALIF.
PROVISIONAL EDITION 1983
33114-63-114-024

APPENDIX C

Summary of Interviews

Person interviewed: Claude Kirby
Affiliation: Bureau of Land Management
Title: Senior Realty Specialist
Phone number: 760-833-7150
Interviewed by: Charlie Senz
Location: By phone
Date: July 24, 2009
Project: Nextera – Genesis Project

Findings of Interview

- Mr. Kirby indicated that the Subject Property is “barren land” with only creosote bushes.
 - Mr. Kirby indicated that to his knowledge there has never been any release, storage, or use of hazardous materials or petroleum products on the Subject Property.
-

RE NextEra Genesis Solar Project - Blythe California.txt

From: Jim Ray [JRay@co.riverside.ca.us]
Sent: Friday, July 24, 2009 2:59 PM
To: Senz, Charlie
Subject: RE: NextEra Genesis Solar Project - Blythe, California

I am not aware of any usage/issues related to hazardous materials or wastes in the proposed project site area. Thanks. JR

>>> "Senz, Charlie" <Charlie.Senz@tetratech.com> 7/24/2009 1:30 PM >>>
Mr. Ray:

Thank you for your quick response. I have attached a map of the area (cross-hatched sub area and linear transmission line are of interest). To my knowledge, the only historical use of the Subject Property was for war maneuvers by General Patton's army in preparation for the North Africa campaign. Otherwise, the area appears to have been totally barren as far back as can be determined.

-----Original Message-----

From: Jim Ray [mailto:JRay@co.riverside.ca.us]
Sent: Friday, July 24, 2009 2:30 PM
To: Senz, Charlie
Subject: Re: NextEra Genesis Solar Project - Blythe, California

What is the previous use history of the property, (farming jojoba, etc?) Also, do you have a map or something to better ID the property? Thanks. JR

>>> "Senz, Charlie" <Charlie.Senz@tetratech.com> 7/24/2009 12:43 PM >>>
Dear Mr. Ray:

I am assisting with a Phase I Environmental Site Assessment for approximately 1800 acres in the Chuckwalla Valley, just north of the Ford Dry Lake along Interstate 10, 20 miles west of Blythe. The land is being considered for construction of a solar energy generation project. As part of the Phase I Environmental Site Assessment process, it is required that knowledgeable county, state, and/or local officials be interviewed regarding known environmental conditions. Based on what we have learned of the project area, we do not believe there to be any adverse environmental conditions existing on the property; however, it is still required that we make an effort to communicate with officials employed by agencies such as yours who might have such knowledge. Accordingly, I am requesting your response to this email.

Specifically, we would like to know if you have any knowledge of the presence or likely presence of any hazardous substances or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into the ground, groundwater, or surface water of the Property. It is also important to us to receive your response even if you have no such knowledge, and/or if you can provide the names of any other officials or knowledgeable persons with whom you might suggest we make contact.

Please feel free to contact me by responding to this email directly or calling me at one of the numbers listed below. Thank you in advance for your assistance.

Kind Regards,

Charles D. Senz | Manager, Commercial Projects
Direct: 303.980.3764 | Fax: 303.980.3539 | Cell: 303.619.5273
charlie.senz@tetratech.com

Tetra Tech EC, Inc. |
143 Union Blvd., Suite 1010 | Lakewood, CO 80228-1875 | www.tteci.com

RE NextEra Genesis Solar Project - Blythe California.txt

PLEASE NOTE: This message, including any attachments, may include confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

APPENDIX D
Site Reconnaissance Photographs



**Photo 1. Looking northeast from center Section 3,
Township 6 south, Range 19 east.**



**Photo 2. Looking northwest from northwest corner
Section 15, Township 6 south, Range 19 east.**



**Photo 3. Looking northwest from east side Section 3,
Township 6 south, Range 19 east.**



**Photo 4. Looking northeast from northwest corner
Section 4, Township 6 south, Range 19 east.**



**Photo 5. Looking northwest from center Section 9,
Township 6 south, Range 19 east.**



**Photo 6. Looking southeast from east side Section 8,
Township 6 south, Range 19 east.**



**Photo 7. Looking northeast from east side Section 8,
Township 6 south, Range 19 east.**



**Photo 8. Looking southeast from east side Section 5,
Township 6 south, Range 19 east.**



**Photo 9. Looking northwest from center Section 5,
Township 6 south, Range 19 east.**



**Photo 10. Looking northwest from south side Section 5,
Township 6 south, Range 19 east.**

APPENDIX E

Credentials of Environmental Professionals

EXPERIENCE SUMMARY

Mr. Brack is a Professional Geologist with over 16 years of diverse practical experience as an environmental and engineering consultant, specializing in natural resource management, land use issues, project management, soil and groundwater assessment and remediation and environmental litigation support. Mr. Brack is a project manager who often directs multi-disciplinary project teams in natural resource management and remedial programs and in the preparation of associated environmental documents. In addition to a familiarity with NEPA/CEQA procedures, compliance and regulatory permitting requirements, Mr. Brack is also familiar with CERCLA and RCRA regulations. Mr. Brack's project management assignments have ranged in scope from small environmental assessments to large scale term contracts for multinational corporations, and have ranged in value from several thousand dollars to several million dollars. Mr. Brack is adept at implementing projects that involve the inclusion and management of a diverse range of technical experts, including but not limited to, ecologists, planners, archeologists, geologists, engineers, air and noise experts and other specialized entities such as nuclearphysicists. Mr. Brack is often involved with regulatory coordination and stakeholder negotiations, as well as, legal mediation and strategic planning. Mr. Brack has a thorough understanding of both federal and state environmental regulations, and routinely interacts with the regulating agencies. As a technical specialist, Mr. Brack is focused on land use issues, and in particular on redevelopment projects. Often, but not always, these projects are environmentally impacted, such contaminating impacts have included chlorinated solvents, perchlorate, petroleum hydrocarbons, heavy metals, low level radioactive waste and combusted materials, in particular, coal carbonization waste and by-products.

In addition to working in California, Mr. Brack has a proven track record, both nationally and internationally, in the assessment of water resources and the remediation of impacted properties. Mr. Brack's international experience includes projects in the Arabian Gulf, Canada, Norway and the United Kingdom (UK).

Mr. Brack is a vice president with TtEC and acts as the operations manager for TtEC's California commercial operations. Mr. Brack's responsibilities include task and project management, the management and implementation of business development programs, the spearheading of strategic planning and recruitment and the management of the California commercial business-operating unit of up to 60 staff.

EDUCATION

BS, Applied Geology, 1991, University of Sunderland, UK

MS, Engineering Geology, 1994, Imperial College of Science and Technology, London, UK

REGISTRATIONS/CERTIFICATIONS

Registered Professional Geologist California No. 8394

Registered Professional Geologist Arizona No. 45017

Fellow of the Geological Society of London No. 1001728

American Red Cross Adult CPR Certification

American Red Cross Standard First Aid Certification

TRAINING

Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training

HAZWOPER Management and Supervisor Training



PROJECT EXPERIENCE

Caltrans and San Bernardino Association of Government, Interstate 10/Tippecanoe Avenue Interchange, San Bernardino, CA - NEPA.

Project manager for environmental support services for improvements to the I-10 interchange, Tippecanoe, Riverside, CA. Activities include the coordination of work with CalTrans and the Federal Highway Administration and working closely with design engineers to develop environmentally and socially benign alternatives to resolve significant traffic congestion problem along the I-10 freeway in urban southern California. Tasks include oversight, direction and supervision of technical report preparation and amendments for noise, cultural studies, environmental justice, visual impacts, biological, hazardous waste and air quality studies among others, for the preparation of a future EA.

Tule Wind Energy Project, NEPA/ CEQA.

Project manager for a future wind energy project located near McCain Valley in eastern San Diego County, California. Activities include bat surveys for the preparation of a future EIS/EIR, and other associated permitting activities.

Granite Mountain LLC., Granite Mountain Wind Project, San Bernardino County, CA – CEQA/NEPA

Project Manager for a proposed wind project in San Bernardino County, California. Project location is on Bureau of Land Management and private lands and involves both NEPA and CEQA compliance. Tasks include coordination and management of biological resources field surveys, including the procurement of subcontractors; coordination and management of cultural resources field surveys; review and submittal of all biological and cultural reports; and preparation of the EIS/EIR. Additional responsibilities include ongoing coordination with client, preparation of new Scopes of Work and cost estimates, and scheduling of tasks and review of budgets to ensure that all environmental needs are met on schedule and within budget.

Confidential Client., Solar Energy Development, Arizona, Nevada, California

In support of Solar prospecting tasks, providing analysis of Right-of-Way Grant applications as part of a market research activity, identifying opportunities and supporting Right-of-Way Grant applications, as well as coordination with the BLM and providing strategic solar planning services.

Confidential Client., Solar Energy Development, California -

Project manager providing support to the development team for Right-of-Way Grant applications in Southern California. Activities include liaison with BLM field staff, preparation of documents and a review of critical issues potentially affecting a number of possible photovoltaic (PV) solar sites on public lands.

Badlands Landfill, CEQA. Project manager for the preparation of a critical issues analysis (CIA) for the future expansion of a landfill in Riverside County. The CIA was prepared to support future CEQA environmental documentation.

AIG – Environmental Document Review. Project manager for the review of technical reports in support of AIG's Cost Cap and Pollution Legal Liability insurance liability assessments. On behalf of AIG reviewed environmental documentation for over 50 sites in California and prepared opinions regarding likely on-site and off site environmental liabilities and assessment of data gaps.

ACE – Environmental Document Review. Project Manager for the review of technical reports in support of ACE's Cost Cap and Pollution Legal Liability insurance liability assessments. Considerations include CEQA compliance as well as hazardous waste environmental impacts.



Los Angeles Unified School District – Various Potential New School Sites

Project manager for the assessment of environmental impacts at various new school sites. The focus of the work was the review of third party environmental reports, the preparation of opinions based upon our findings of likely environmental impacts at these sites and the development of detailed remedial cost estimates to support the reduction of a purchase price under an eminent domain action. Cost estimating was undertaken using the RACER program.

Missouri Electrical Works, Missouri – CERCLA - Chlorinated Solvents / PCBs

Under USEPA oversight development of a CERCLA standard feasibility study for a Superfund site underlain by complex fractured bedrock impacted by chlorinated solvents and polychlorinated biphenyls (PCBs). In addition, development of a technical impracticability reports for the fractured bedrock.

Former Dry Cleaners, West Hollywood, California – Chlorinated Solvents

Project Manager for a remedial program that involved the development of a feasibility report and corrective action plan, pilot studies, and the design and construction of a limited access soil vapor extraction and granular activated carbon-based treatment system for soil impacted with chlorinated solvents. Soil closure was obtained after 5 months of operation.

City of West Hollywood, West Hollywood, California – Various

Project manager for the evaluation of projects within the City of West Hollywood's redevelopment Area. Activities included development of the Cities approach to evaluating properties within this area, managing grant funding for the project and preparing the technical reports.

Dry Cleaners, North Los Angeles – Chlorinated Solvents

Project Manager tasked with negotiating with potentially responsible parties (legal agents for insurers) and the current owner and the regulating authority to agree a

Northrop Grumman, Hawthorne – RCRA - Chlorinated Solvents

Project Manager responsible for preparation of a remedial action plan, engineering design and implementation of a fully mobile multiphase extraction system for remediation of chlorinated solvents at a commercial site with strict operational restrictions. System operations were limited to nighttime hours, with complete removal of all equipment from site at the end of each night.

Los Angeles Unified School District - Chlorinated Solvents

For chlorinated solvent impacts beneath an active school site, Mr. Brack managed a large-scale soil vapor assessment program, which involved the collection, and assessment of 120 soil vapor samples on a quarterly basis. In addition, Mr. Brack prepared a corrective action plan, and engineered and constructed a 12-well 1,200-scfm-soil vapor extraction and granular activated carbon-based treatment system.

Los Angeles Unified School District – Petroleum Hydrocarbons (UST)

Project manager for the investigation and removal action of a diesel underground storage tank at an operations school site in South Central Los Angeles. Activities included investigation work, construction activity and the development of a final closure report.

Playa Capital Company, LLC, Test Site 2 – Chlorinated Solvents

Project and Task Manager for a multimillion dollar chlorinated solvents remedial action implementation program at the former Howard Hughes aircraft manufacturing and test plant. Remedial activities included construction dewatering and groundwater treatment; excavation of hazardous materials; installation of a groundwater collection trench, extraction wells, and associated conveyance line; design and installation of a UV/peroxide groundwater treatment system and a lactate injection system; and operation and



maintenance (O&M) of the system.

Playa Capital Company, LLC, Campus Area Remediation – Chlorinated Solvents

Project Manager for the installation of the civil portion of a chlorinated solvents groundwater remediation system. The system includes over 3,500 linear feet of trenching and close to 15,000 linear feet of high density poly ethylene pipe installation. Once complete the system will extract groundwater and vapors from an approximate 35-acre area.

City of Norwalk, Litigation Support – Chlorinated Solvents

Mr. Brack provided environmental consulting and litigation support services for the City of Norwalk. The works involved the identification of possible responsible parties for 1,2 DCA impacts to a water supply well. As part of the scope of work, Mr. Brack reviewed existing site information, assessed PRP documentation, and made determination upon likely PRP status. In addition, Mr. Brack developed a site conceptual model and preliminary remedial cost estimates.

Barry Avenue Plating, Litigation Support – Chlorinated Solvents / Hexavalent Chromium

Mr. Brack provided defendant litigation support services for chlorinated solvent (TCE) and hexavalent chromium impacted soil and groundwater alleged to be sourced from a plating facility in Los Angeles County. Activities included the assessment of data and the development of a three dimensional presentation of site conditions and, the visual animation of this data. In addition to providing litigation support services, Mr. Brack prepared a detailed soil and groundwater remedial cost estimate.

Perchlorate Groundwater Contamination – CERCLA - Perchlorate

Mr. Brack prepared a CERCLA based feasibility study, remedial action plan and remedial cost estimates in support of litigation activities associated with Perchlorate groundwater contamination at a confidential landfill site in California. The feasibility and cost report formed the basis of the litigation defense for this complex multimillion dollar lawsuit.

Client Confidential, Simi Valley – CEQA - Perchlorate / Radionuclides

Project manager for environmental support services for the redevelopment of a 1,600-acre site. Interfaced regularly with the client to ensure that project deliverables met all expectations. Activities also included investigation oversight, direction, report preparation and supervision of all environmental activities for perceived contamination issues at this high profile site. Activities included radiological and perchlorate soil and groundwater testing.

San Diego Unified Port District – Polanco Act Redevelopment of a Burn Ash Pit and Coal Tar Waste Lagoon

In support of a Polanco action, Mr. Brack performed an expert review of environmental assessment documents relating to contaminated source materials at the site, which included combusted and partially combusted refuse. The scope of work entailed litigation support activity, which included the development of opinions regarding the likely source of identified contaminating materials and a report for the site. A primary focus of the data review was to determine if identified contamination was indicative of waste material from nearby manufactured gasworks operations in order to establish potentially responsible party status.

Polanco Act Redevelopment and Technical Support Services – Burn Ash

Prepared a remedial action plan and provided Polanco Act redevelopment and technical support services for a confidential site in downtown San Diego. Mr. Brack assisted the Site owners with the implementation of a Polanco action within the Centre City Development Corporation's (CCDC) redevelopment area in accordance with a notice issued by the CCDC.



Waste Management Inc – MTBE and Diesel

Construction and project manager for the investigation and retrofitting of diesel and gasoline USTs and dispensing islands and pumps. Managed the permitting and design engineering for the upgrade of the USTs and managed the construction of the upgrading works. Works involved the excavation of 4 USTs, the re-piping of the system, new electrical control systems, installation of collection sumps and the replacement of the dispensing pumps as well as the reinstatement of the filling areas concrete apron and islands. Development and issue of closure report.

Orange County Sanitation District – MTBE

Mr. Brack prepared a feasibility study and corrective action plan for petroleum hydrocarbon and fuel oxygenate groundwater contamination. The report was prepared for submission to the local regulatory authority.

City of Santa Monica, Arcadia Well Field – MTBE

Operation and Maintenance Manager for a 15,000-pound carbon-based groundwater treatment system and air sparge and soil vapor extraction system for MTBE-impacted groundwater.

Pleasant Valley Parks and Recreation Division, Camarillo, California – MTBE and TBA

In addition to preparing a feasibility study and corrective action plan for approval by the local oversight agency, Mr. Brack redesigned and modified an existing groundwater extraction system to treat petroleum hydrocarbons and fuel oxygenates (ex situ biotreatment system).

Southern California Edison, Catalina Island – Petroleum Hydrocarbons

Task manager responsible for the design and implementation of a free product recovery system for a petroleum hydrocarbon release.

Long Beach, California – Petroleum Hydrocarbons

Project Manager for the development of a remedial action plan, design and implementation of an air sparge and soil vapor extraction and treatment (electric catalytic oxidation) system for petroleum hydrocarbon releases to soil and groundwater.

British Gas – MGP sites – Coal Carbonization

Manager for the design and implementation of soil and groundwater remediation strategies for former coal carbonization and oil reforming sites (MGP's), as well as on-site supervision (Resident Engineer) for the remedial work to enable sale and redevelopment for commercial or residential use. Remedial activities included preparation of detailed in situ and ex situ remediation programs, development of contract documents, and contract management. Remedial techniques included air sparge and soil vapor extraction systems, soil washing, encapsulation, thermal desorption, and large-scale excavation and disposal. Contaminants of concern included toxic and phytotoxic heavy metals (arsenic, cyanide, lead, etc.), inorganics (sulfur compounds), and tar and ammonia liquor waste by-products.

Radioactive Material Removal – Client Confidential, UK

Managed the removal of radioactive material and contaminated radioactive soil to a nuclear waste depository in accordance with stringent regulatory requirements. Tasks included the identification of potentially contaminated sites, subsequent investigation of the sites, and implementation of remedial measures, as required.

Powergen – Ince and Drakelow Power Stations, UK

Provided environmental consulting services for a variety of environmental issues, including investigation of elevated pH conditions in cooling water discharge to surface waters, investigation and mitigation of algae plumes in ponded water, negotiations with the EPA on behalf of Powergen asset management, and



oversight of remedial actions at the Ince and Drakelow power stations.

Western Esplanade – Southampton, UK

Investigation and subsequent mitigation design for a site impacted with methane and carbon dioxide. Tasks included assessment of soil gas composition, gas concentration, and emission rates; development of appropriate remedial response; and supervision of remedial/mitigation activities. Also designed and performed soil gas surveys for other gases (hydrogen sulfide, radon).

Workplace Management – Various Sites, UK

Design and contracting services for wastewater treatment systems, in particular the treatment of hydrocarbon-contaminated waters from redundant gasholders and the dewatering of various industrial wastewater and sludge streams.

Mercury Waste liability assessment and reduction – Client Confidential, UK

Provided assistance and expertise following a fire at a thermometer-manufacturing factory. Provided remedial response measures and helped develop a residual mercury recovery system and subsequent health and safety procedures.

PUBLICATIONS & PRESENTATIONS

The Sixteenth Annual AEHS Meeting and West Coast Conference on Soils, Sediments, and Water
March 13 – 16, 2006: California Human Health Screening Levels Friend or Foe!

San Gabriel Valley Economic Partnership Conference, April 2006: Emerging Business & Real Estate Opportunities within the Cities of the San Gabriel Valley: Underutilized Properties, Brownfield's.

PROFESSIONAL AFFILIATIONS

International Association for Engineering Geology
Geological Society of London
National Groundwater Association
California Redevelopment Association (Brownfield's Advisory Group Board Member)

DISCIPLINE CODES

Project Manager, Primary

Geologist
Environmental Engineer

SKILL SET

Remedial Action	Sparging	Site Characterization
Remedial Investigation	In Situ Remediation - Soil	Site Closure Plan
Remedial	Vapor Extraction	Soil Gas Analysis
Investigation/Feasibility	Manufactured Gas Plants -	RCRA / CERCLA
Study	Coal Gas Sites	NEPA/CEQA
In Situ Remediation - Air	Soil Gas Investigations	

TECHNICAL EXPERTISE

Litigation Support
Brownfield Redevelopment
Environmental Assessment and Remedial design and Implementation
Natural Resource Assessment Documents

In addition to experience working in the United States also have overseas experience, in particular the



Mr. Andrew Brack
Vice President

United Kingdom. In addition, I have the right to work in the European Union without a visa or any other administrative requirements.

RELATED COMPANY INFORMATION

Payroll Number: 520620
Employment Status: Full
Preferred First Name: Andrew
Office Location: Santa Ana
Hire Date: 8/28/06
Years with Other Firms: 14
Years with Current Firm: 2
Total Years Experience: 16
Supervisor: RobertM.Donati, Supervising Environmental Engineer
Office Phone: (949) 756-7525
Cell Phone: (714) 373-0753
Fax:
E-mail Address: andrew.brack@tteci.com
Other E-mail Address (if any):
Resume Last Revised: 2008-02-22



EXPERIENCE SUMMARY

Mr. Senz began his environmental career in Denver in 1985. He has managed numerous projects, performed extensive field work, and authored numerous reports for hazardous waste sites, Superfund sites, and hydrocarbon-contaminated sites in the Rocky Mountain region. Mr. Senz has experience at sites impacted by volatile and semi-volatile organic compounds, petroleum hydrocarbons, PCBs, pesticides and herbicides, metals and non-metallic inorganic compounds, and acids and strong bases. His fields of specialization include project management; investigation and remediation of soil and groundwater contamination; CERCLA remedial investigations/feasibility studies; environmental site assessments for property transfer and redevelopment; Colorado Voluntary Cleanup Program; litigation support; and hydrocarbon contamination and underground storage tank site investigations and corrective actions.

Mr. Senz has provided litigation support to several law firms dealing with environmental issues, and has managed and conducted environmental site assessments for numerous and varied clients across the country.

Earlier in his career, Mr. Senz was responsible for the interpretation of subsurface geological/geophysical data, subsurface mapping, and prospect generation as an explorationist for Texaco, Inc. Mr. Senz also served as a geotechnical field engineer for Chen & Associates in Denver, Colorado.

EDUCATION

MA, Geology, Queens College, City University of New York, 1979

BS, Geology, York College, City University of New York, 1975

REGISTRATIONS/CERTIFICATIONS

Registered Professional Geologist, UT, Number 5557629-2250, Earned 1/7/04

Registered Professional Geologist, WY, Number 664, Earned 8/21/92

TRAINING

OSHA HAZWOPER 40-Hour

OSHA HAZWOPER 8-Hour Supervisor

OSHA HAZWOPER 8-Hour Annual Refresher

TtEC Loss Control Leadership

TtEC Project Management 101

TtEC Project Management 200

TtEC Project Management 300

TtEC Supervising in the Matrix

Compliance Audit Training

Risk Management Training

American Red Cross CPR & AED

American Red Cross First Aid Basics

CORPORATION PROJECT EXPERIENCE

Lockheed Martin Space Systems, Jefferson County, Colorado

Project manager and author of Preliminary Design Report that characterized NDMA migration in the bedrock and alluvial groundwater, and identified remedial alternatives to prevent off-site migration. Project manager for the design of groundwater capture systems for bedrock and alluvial pathways, and building sub-drains. Selected locations for groundwater recovery wells in steeply dipping bedrock formations and managed the installation of recovery wells. Completed an Indoor Air Quality Sampling Plan and participated in a CERCLA 5-year ROD review.



Quality Rail Services, Denver, Colorado

Project manager for remediation of hydrocarbon contamination consisting of heavy oils present in the subsurface as light, non-aqueous phase liquids. Designed and managed corrective action consisting of excavation and off-site disposal of soils. Developed Corrective Action Plan and participated in negotiations with Colorado Division of Oil and Public Safety. Successfully completed project and attained a no further action decision within 18 months of project startup.

Colorado Department of Transportation

Program manager for two non-project specific contracts covering 18 task orders including:

- Design and implementation of remediation system at a storage tank release, including soil vapor extraction and air sparging;
- Phase 1 and Phase 2 environmental assessments for several right of way acquisitions;
- Corrective action implementation for hydrocarbon contamination in historic mining district, including characterization and disposition of soils impacted by hydrocarbons and heavy metals;
- Building demolition and removal;
- Litigation support for release of roadway salt to private property; and
- Second opinion/advisory services for evaluation of contaminant conditions and implementation of existing corrective action plans developed by third party consultants.

Tri-State Generation and Transmission (various sites)

Managed 18 Phase 1 and Phase 2 environmental site assessments for properties in Colorado and Kansas as part of acquisition program in advance of new coal-fired generator and transmission corridor construction.

PREVIOUS EXPERIENCE

Rio Vista Army Boat Facility

U.S. Army Forces Command, Rio Vista, CA

Managed and successfully completed a guaranteed, fixed-price remediation project for the U.S. Army. Conducting the remediation for this turnkey project included incorporating data from previous assessments and continuing evaluation activities, risk assessments, permit applications, regulatory reporting, regulatory negotiations, remediation design and implementation, decontamination and demolition of structures. Public involvement included communication with the Army, City officials and the community for the duration of the project. The Clean Base Program™ provided a fixed price for remediation and guaranteed regulatory closure. Successfully worked with three different regulatory agencies to achieve site cleanup and accelerated the transfer of the property to the Town of Rio Vista.

Commercial Decommissioning

Marathon Petroleum Technology Center, Littleton, Colorado

Managed the decommissioning of a 40-acre parcel of this petroleum-industry R&D facility. The project involved demolition and remediation associated with USTs and ASTs; mercury in building materials and drains; asbestos in buildings and soils, and associated with large-scale test equipment; and low-level radiological waste.

Multi-Disciplinary Assessments and Audits

Snell & Wilmer, Markborough Properties, Multiple Locations, U.S.

Project Manager/Senior QA/QC review for a multi-office, multi-disciplinary project that included Phase I Environmental Site Assessments, Regulatory (RCRA) Compliance Audits, and OSHA Audits at 38 sites, including office buildings, residential properties, golf courses, and undeveloped land, in seven states and the District of Columbia. Project was completed on an expedited schedule and limited budget. Client was



able to use the information provided for negotiations in this large real-estate transaction. In several cases, the Phase I data led to recommendations for Phase II work which helped the client avoid future environmental liabilities.

UST Removal and Remediation

Colorado Department of Transportation (CDOT), Multiple Sites, Colorado

Project Manager assisting CDOT with UST removal, site characterization, and hydrocarbon remediation at numerous CDOT facilities in Colorado. Saved CDOT over \$200,000 at two sites by demonstrating to the regulatory agency that monitoring only was the appropriate approach to corrective action.

Colorado DOT Contracts

Mr. Senz was the account and project manager for Colorado Department of Transportation projects between 1994 and 2004. Mr. Senz has managed environmental projects for CDOT including remediation of hydrocarbons, road salt, buried hazardous wastes, and lead. Other projects have included providing second opinion services for the mitigation of impacts to indoor air resulting from an extensive chlorinated solvent groundwater plume and developing SPCC plans for 70 CDOT. At his former firm, Mr. Senz was awarded consecutive, non-project specific contracts in 1996, 1998, 2001, and 2003.

Interim Remedial Action

U.S. Army Corps of Engineers, Western U.S.

Manager of an Interim Remedial Action Investigation and Corrective Measures Study at a large military installation. Directed a project team of field geologists, engineers and specialists who characterized the nature and extent of soil and groundwater contamination caused by chlorinated solvents and chromium, delineated source areas, conducted a Corrective Measures Study, and completed the design of appropriate Interim Remedial Measures.

RCRA Corrective Action

Guaranteed Products Metal Processing Site, Henderson, CO

Managed a RCRA remedial site investigation and corrective action at an industrial production facility in northeastern Colorado. Developed and implemented a site investigation work plan, remediation plan, and site health and safety plan for sampling soils and groundwater, and excavating soils contaminated with hexavalent and trivalent chromium, phosphoric acid, and sodium hydroxide. Completion of the investigation and remediation resulted in the issuance of a clean-closure notification from the Colorado Department of Health within 1½ years of project initiation, allowing redevelopment of property.

Multi-Phased Site Remediation

State Agency Owned Facility, Eastern Colorado

Managed an extensive multi-phased investigation and cleanup at a large, state agency-owned facility in eastern Colorado. Various phases of the project included the removal of USTs, remediation of hydrocarbon-contaminated soils and groundwater, and delineation, excavation, and disposal of buried solid and hazardous wastes.

CERCLA Remedial Investigation

Martin Marietta, Jefferson County, CO

One of three principal authors of a 4-volume final Remedial Investigation report for a major CERCLA site. The report culminated a 5-year investigation, primarily into chlorinated solvent contamination in soil and groundwater. Actively involved in presentations to, and negotiations with, the USEPA, leading to USEPA acceptance of the document.



**CERCLA Remedial Investigation
Lockheed-Martin, Jefferson County, CO**

Managed and conducted a second phase investigation of 24 potential contaminant source areas as part of a CERCLA Remedial Investigation in Colorado. Tasks included work plan development, supervision of soil boring activities, soil sampling, surface-water sampling, implementation of appropriate health and safety procedures, data evaluation, report preparation, and presentation of data to USEPA representatives.

Field Investigation Travelers' Insurance, Riverton, WY

Managed a field investigation of soil contamination by pesticide and herbicides at an agricultural property in west-central Wyoming.

**Hydrogeologic Field Investigation
Major Natural-gas Processing Plant, Southwestern Wyoming**

Conducted a hydrogeologic field investigation at a major natural-gas processing plant. Authored report submitted to, and accepted by, the Wyoming Department of Environmental Quality. This report characterized the nature and extent of contamination from vanadium and sulfate in soil, bedrock, and groundwater. Tasks included soil and bedrock drilling/coring and sampling, groundwater sampling, and report preparation.

**Field Investigation
Superfund Site, New Mexico**

Participated in a comprehensive field investigation at a major Superfund site. The site was characterized by chlorinated solvent contamination in soils and groundwater. Tasks included supervision of deep monitoring well installation, well development, groundwater sampling, soil sampling, and a soil-vapor survey.

**UST Investigation and Corrective Action
Major Oil Company, Denver, CO**

Managed a program of UST investigations and corrective actions at eight Denver-area service stations owned by a major oil company. Remedial technologies employed include vapor extraction and groundwater pumping and treatment.

**UST Investigation and Corrective Action
Independently Owned Trucking and Maintenance Facilities, Denver, CO**

Managed UST investigations and corrective actions at several independently owned trucking and maintenance facilities.

**Site Monitoring
Petroleum Spill Sites, Denver, CO**

Provided oversight for drilling/installation of monitoring wells, sub-surface sampling/logging and water-level monitoring at petroleum product spill sites.

**Environmental Site Assessments
Industrial Facilities, Colorado and Nebraska**

Managed and conducted environmental site assessments at several industrial facilities in Colorado and Nebraska.

**Voluntary Cleanup
Colorado**

Developed, negotiated, and received regulatory approval for four separate Voluntary Cleanup Plans under Colorado's Voluntary Cleanup Program. The sites included the Koch Materials asphalt plant in Mack, the



Vulcan Metals site in Denver, The Vance Street Redevelopment Project in Lakewood, and the Marathon Petroleum Technology Center in Littleton, Colorado.

CERCLA Litigation Support
Law Firm, Denver, CO

Provided litigation support to a Denver law firm defending a PRP at the Lowry Landfill Superfund site. Work involved the review of CERCLA documents to evaluate whether actions previously taken by other members of a large PRP group were effective, economical, and appropriate.

Litigation Support: Dry Cleaner
Law Firm, Denver, Colorado

Assisted counsel in defending a small independent dry cleaner in south Denver. The dry cleaner was situated adjacent to a large, significant RCRA Corrective Action Site. The PRP for the RCRA site had contaminated groundwater with chlorinated solvents, resulting in impacts to residential indoor air from 1,1-DCE over a mile-long plume. The PRP was seeking contribution to cleanup costs from the dry cleaner. Technical aspects of the defense include discrimination of distinct groundwater plumes based on chemical suites, and evaluation of relative contribution to indoor air impacts based on source chemicals, inhalation risk slope factors, and indoor air sampling results.

City and County of Denver v. Ogden Allied Corporation
Law Firm, Denver, CO

Managed a project involving litigation over responsibility for the releases of significant quantities of jet fuel, diesel, gasoline and solvents at a large international airport. Security and air traffic considerations were complicating factors in the implementation of a field program that included soil borings, well installation and sampling, and test pit excavation and sampling. The project staff assisted a team of attorneys in project planning and approach.

Litigation Support: Dry Cleaning Facility
Law Firm, Northeastern Colorado

Provided litigation support in relation to claims against former owner of a dry-cleaning facility. The current owner of the facility, which no longer conducts dry cleaning, was seeking compensation for remediation of perchloroethylene (dry-cleaning solvent) in soil and groundwater. Provided technical assistance to counsel for the current owner including technical research and formulating interrogatories for the deposition of opposing counsel's expert witness.

United Materials v. Unocal Corporation
Law Firm, Denver, CO

Assisted counsel representing the owner of a small commercial property located within the boundaries of a larger CERCLA site. Groundwater had been impacted by chlorinated solvents and aromatic hydrocarbons.

The Southland Corporation v. Occidental Petroleum and Oxy USA.
U.S. District Court, Dallas, TX

Key project team member providing litigation support in a \$40 million law suit between a national gasoline retailer and a major international petroleum company. The suit involved the characterization of contaminant conditions and the timing of contaminant releases at approximately 100 gasoline retailing facilities east of the Mississippi.



Litigation Support

Law Firm, Denver, CO

Assisted counsel by identifying the source of soil and groundwater contamination at a small commercial property in the Denver area, using cost-effective temporary monitoring equipment. The results of sample analyses along with a historical review of property use determined that tetrachloroethene (PCE) contamination was attributable to a dry cleaner that had occupied the site in the late 1970s.

Litigation Support

Law Firm, Arvada, CO

Assisted counsel in evaluating remedial actions proposed by a third party who had caused environmental impacts to a client's property. Review indicated that source control measures were absent from the third party's remediation strategy. Opinions were conveyed by counsel to the local regulatory agency, which in turn required that source control measures be taken.

FMC v. Liberty Mutual, et. al. California Superior Court, Santa Clara County, CA

Provided technical assistance to a team of attorneys seeking insurance compensation for environmental damages at a pesticide formulation site in California. Technical aspects of the case involved the identification of the sources of contamination and the timing of releases.

Michael and Linda Odem v. Ciba Geigy Corporation Reichold Inc. and Lamar Harrison - U.S. District Court, Southern District of Alabama

Assisted counsel with technical issues surrounding the alleged discharge of 1,1,1 TCA into unlined trenches.

Lockheed Martin Corporation v. Aetna Casualty & Surety, et. al Superior Court of California, Santa Clara County, CA

Provided technical assistance to a team of attorneys seeking insurance compensation for environmental damages at a large aircraft manufacturing site. Technical assistance pertained to the identification of the sources of chlorinated solvent contamination and the timing of releases.

Pocol Holdings, Ltd. v. Texas Instruments, Inc.

U.S. District Court, Colorado

Assisted counsel with the identification of a source of 1,1,1-trichloroethane contamination, groundwater plume delineation, and remediation strategies.

Voluntary Cleanup and Redevelopment Act

Former Asphalt Crack Sealant Batch Plant, Mack, CO

Managed Voluntary Cleanup under Colorado's Voluntary Cleanup and Redevelopment Act. The Voluntary Cleanup Plan was approved and the site was successfully remediated. Impacted soil was land-farmed on-site to the action level concentration, thereby reducing costs by avoiding transportation, importation of fill, and off-site disposal.

Voluntary Cleanup Plan

Lead Alloying Facility, Denver, CO

Developed a Voluntary Cleanup Plan for a former lead alloying facility in the Denver Metro area. The Plan was approved by the State's Voluntary Cleanup Program and is currently being implemented. Soils will be stabilized on-site allowing them to be disposed as solid- rather than hazardous waste. Abatement of asbestos and lead within on-site structures will be conducted concurrently with building demolition. These methods will expedite the schedule and significantly reduce redevelopment costs.



Environmental Site Assessment

Limited partnership formed by four major diversified corporations, San Juan Basin, Farmington, NM

Managed and conducted an environmental site assessment of a 160-square mile network of coal-bed methane producing units as due diligence in support of a gas-production limited partnership formed by four major diversified corporations. The assessment included the inspection of producing wells, central points of delivery, and salt-water disposal wells. Also examined were the files of the production company to confirm compliance with applicable permitting requirements, and to characterize the production company's commitment to environmental stewardship.

Environmental Site Assessment

Property Buyer, Northeastern Colorado

Managed and conducted environmental site assessment for a prospective purchaser of a former manufacturing facility. Identified a significant groundwater impact involving liquid hydrocarbons that was not disclosed in the assessment report produced by the seller-contracted consulting firm. This disclosure allowed the property purchaser to obtain indemnification from potentially significant future liabilities prior to purchase.

Phase I ESA

Crosman Corporation Optics Manufacturing Facility, Denver, CO

Managed a Phase I ESA at the Redfield rifle-scope manufacturing facility in 1993. The ESA revealed that drums were stored in a manner that might have resulted in leaks or spills. Evidence of staining around the drums was noted. A solvent bath and sump used in the parts cleaning operation also appeared to be potential sources of contamination. The review of historic aerial photographs further supported the likelihood of environmental impacts. A shallow soil-gas survey revealed that chlorinated VOCs were present in the soils. The client, who based on the findings declined to purchase the facility, was protected from financial exposure to future remediation expenses at this site, which have to date exceeded \$10 million at this significant RCRA corrective action site.

Phase I and Phase II ESA

Ski Area, Colorado

Conducted a Phase I and Phase II ESA at a large destination ski area being considered for purchase by a diversified international corporation. Identified significant soil contamination due to the former presence of USTs (removed prior to promulgation of state UST regulations). After contamination was identified, the owner remediated the UST sites as a condition to the sale of the resort.

Environmental Site Assessment

Film Manufacturer, Salt Lake City, UT

Managed and conducted an environmental site assessment for a large international film manufacturer and processor considering the purchase of a privately-owned photo-processing facility. Identified numerous potential environmental liabilities and the existence of subsurface hydrocarbon contamination on the property.

Environmental Site Assessments

North Western Mutual Life, Colorado

Managed and conducted annual updates of environmental site assessments at several industrial warehouse facilities owned by a major insurance carrier. These updates involved facility inspections to identify any actual or potential environmental liabilities that may exist due to the actions of various tenants.



**Due Diligence Phase I Environmental Site Assessment
MAPCO, Colorado and Kansas**

Conducted a Due Diligence Phase I Environmental Site Assessment (ESA) of a 6-inch natural gas liquids (NGL) pipeline. The pipeline extended from Wattenberg, Colorado to Bushton, Kansas, and included several smaller feeder lines coming into Wattenberg from various gas processing plants in the Denver-Julesburg Basin. The ESA included site inspections of 14 pipeline stations, a review of the production company's environmental files, interviews with company personnel, a review of federal and state regulatory databases, and a review of topographic maps to determine surrounding land use at each of the 14 stations.

PUBLICATIONS & PRESENTATIONS

Senz, Charles D., and Ludman, Allan, 1978, The Cookson Formation (Cambro-Ordovician) in Southeastern Maine: A Sedimentary Record of Early Paleozoic Tectonism, (abst.) Geol. Soc. Am. Abs. With Progr., NE Section 10, (2), p. 85.

Nyer, Evan K., and Senz, Charles, 1995, Treatment Technology: Is This Site Contaminated?, (column) Groundwater Monitoring & Remediation, XV, (1), pp. 71-74.

Senz, Charles D., PG, and Walter E. Heinz, PE, 2003, *USARC Rio Vista – The Success of Guaranteed, Fixed-Price Remediation for a Base Realignment and Closure Site*, National Defense Industrial Association, presented at NDIA Environmental & Energy Symposium & Exhibition, Richmond, VA, 9 April 2003.

PROFESSIONAL ACCOMPLISHMENTS

PROFESSIONAL AFFILIATIONS

American Association of Petroleum Geologists
AAPG Division of Environmental Geoscientists Advisory Board, Rocky Mountain Section, 1999 – 2002
AAPG/DEG Vice Chair 2001 Annual Convention
American Institute of Professional Geologists

DISCIPLINE CODES

30 Geologist, Y

SKILL SET

TECHNICAL EXPERTISE

LANGUAGE SKILLS

Knowledge Level:

PROFESSIONAL REFERENCES

RELATED COMPANY INFORMATION

Payroll Number: 504461
Employment Status: Full



Mr. Charles D. Senz, PG
Manager, Commercial Projects

Preferred First Name: Charlie
Office Location: Denver
Hire Date: 6/9/04
Years with Other Firms: 25
Years with Current Firm: 3
Total Years Experience: 28
Supervisor: RobertM.Donati, Supervising Environmental Engineer
Office Phone: (303) 980-3764
Cell Phone: (303) 619-5273
Fax: (303) 980-3539
E-mail Address: charlie.senz@tteci.com
Other E-mail Address (if any):
Resume Last Revised: 2007-11-28

